APPLICATION OF LCRA TRANSMISSION SERVICES CORPORATION TO AMEND ITS CERTIFICATE OF CONVENIENCE AND NECESSITY FOR THE PROPOSED LEANDER TO ROUND ROCK 138-KV TRANSMISSION LINE PROJECT IN WILLIAMSON COUNTY, TEXAS

DOCKET NO. 45866

Submit seven (7) copies of the application and all attachments supporting the application. If the application is being filed pursuant to P.U.C. SUBST. R. 25.101(b)(3)(D) or P.U.C. Subst. R. 25.174, include in the application all direct testimony. The application and other necessary documents shall be submitted to:

Public Utility Commission of Texas
Attn: Filing Clerk
1701 N. Congress Ave.
Austin, Texas 78711-3326

Note: As used herein, the term "joint application" refers to an application for proposed transmission facilities for which ownership will be divided. All applications for such facilities should be filed jointly by the proposed owners of the facilities.

1. **Applicant (Utility) Name:** LCRA Transmission Services Corporation (LCRA TSC)

   Certificate Number: 30110

   Street Address: 3700 Lake Austin Boulevard
   Austin, TX 78703

   Mailing Address: P.O. Box 220
   Austin, TX 78767-0220

2. **Please identify all entities that will hold an ownership interest or an investment interest in the proposed project but which are not subject to the Commission's jurisdiction.**

   LCRA TSC will hold the sole ownership interest in the project that is the subject of this Application. No entities will hold an ownership or investment interest in the project that are not subject to the jurisdiction of the Public Utility Commission of Texas (PUC or Commission).

3. **Person to Contact:** Christian Powell
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4. Project Description:
Name or Designation of Project

Leander to Round Rock 138-kV Transmission Line Project in Williamson County, Texas (the Proposed Project).

Provide a general description of the project, including the design voltage rating (kV), the operating voltage (kV), the CREZ Zone(s) (if any) where the project is located (all or in part), any substations and/or substation reactive compensation constructed as part of the project, and any series elements such as sectionalizing switching devices, series line compensation, etc. For HVDC transmission lines, the converter stations should be considered to be project components and should be addressed in the project description.

If the project will be owned by more than one party, briefly explain the ownership arrangements between the parties and provide a description of the portion(s) that will be owned by each party. Provide a description of the responsibilities of each party for implementing the project (design, Right-Of-Way acquisition, material procurement, construction, etc.).

If applicable, identify and explain any deviation in transmission project components from the original transmission specifications as previously approved by the Commission or recommended by a PURA §39.151 organization.

General Description of Project

The Proposed Project is a new 138-kilovolt (kV) transmission line located in southwestern Williamson County. The Proposed Project consists of constructing two new substations (Substation 1 and Substation 2) and a new 138-kV transmission line connecting the new substations to the electric grid at the existing Pedernales Electric Cooperative, Inc. (PEC) Leander and Oncor Electric Delivery Company LLC (Oncor) Round Rock substations. Substation 1 will be in the general area near the intersection of Parmer Lane/Ronald Reagan Boulevard and FM 1431. Substation 2 will be in the general area near the intersection of Ronald Reagan Boulevard and Crystal Falls Parkway. Substation 1 will directly connect to Substation 2 and Oncor's Round Rock Substation, while Substation 2 will directly connect to Substation 1 and PEC's Leander

Substation. The transmission line will be approximately 12 to 21 miles long, depending on the route selected.

The Proposed Project will be constructed on double-circuit capable structures with one circuit to be installed initially and the second circuit to be installed on the double-circuit structures at a later date.[1] LCRA TSC is seeking certification and PUC approval for both 138-kV circuits in this application.

Please see Figure 2-1 in the *Leander to Round Rock 138-kV Transmission Line Project Environmental Assessment and Alternative Route Analysis Williamson County, Texas* (EA), incorporated herein by reference for all purposes and included as Attachment 1 to this Application, which shows the general siting areas of Substation 1 and Substation 2, and the location of the Proposed Project end points.

The Proposed Project is not located, all or in part, within a CREZ Zone. No substation reactive compensation and no series elements such as sectionalizing switching devices or series line compensation will be constructed as part of the Proposed Project.

Ownership Arrangements

LCRA TSC will design, operate, maintain, and own all transmission line facilities including conductors, wires, structures, hardware, and easements. LCRA TSC will also design, operate, maintain, and own the two new proposed electric load-serving substations (Substation 1 and Substation 2).

To connect each end of the new transmission line to the existing electric grid, PEC will expand its 138-kV electrical bus and LCRA TSC will install and own a circuit breaker in the existing PEC Leander Substation. Oncor will install and own a circuit breaker in its existing Round Rock Substation.

Deviation from original PURA §39.151 organization (ERCOT)

There are no deviations from the original Electric Reliability Council of Texas (ERCOT) recommendation for the transmission line or the connecting end points (i.e., Leander and Round Rock substations). However, only one of the two new substations associated with the Proposed Project was in the original ERCOT-recommended project scope. The need for and impact of the second new substation was factored in the ERCOT recommendation but not defined in the scope of the project as it was anticipated for being installed at a later year. As the electric load projected for the area increased at a higher pace than

1 Note that for some segments (I3, G3, E3, C3, X2, and a portion of K5), LCRA TSC could rebuild its existing Round Rock-Chief Brady (T378) and Chief Brady-Georgetown (T355) 138-kV electric transmission lines located in the eastern portion of the study area. If these existing 138-kV transmission lines are rebuilt, triple circuit H-frame structures would be required.

originally anticipated, LCRA TSC communicated to ERCOT the need for the second substation as part of the initial energization of the project and ERCOT concurred. See Attachment 3 to this Application for details on this minor scope change.

5. **Conductor and Structures:**

Conductor Size and Type:	795 Kcmil 26/7 ACSR "Drake"
Number of conductors per phase:	Two (2) conductors per phase
Continuous Summer Static Current Rating (A):	1866
Continuous Summer Static Line Capacity at Operating Voltage (MVA):	446
Continuous Summer Static Line Capacity at Design Voltage (MVA):	446
Type and Composition of Structures:	LCRA TSC proposes to use 138-kV double-circuit capable steel and/or concrete pole structures for typical tangent, angle, and deadend structures. Note that for some segments (I3, G3, E3, C3, X2, and a portion of K5), LCRA TSC could rebuild its existing Round Rock-Chief Brady (T378) and Chief Brady-Georgetown (T355) 138-kV electric transmission lines located in the eastern portion of the study area. If these existing 138-kV transmission lines are rebuilt, triple circuit H-frame structures would be required.
Height of Typical Structures:	The typical heights of all structures range from 80- to 140-feet above ground.

Explain why these structures were selected; include such factors as landowner preference, engineering considerations, and costs comparisons to alternate structures that were considered. Provide dimensional drawings of the typical structures to be used in the project.

LCRA TSC considered and evaluated single pole, H-frame, and lattice tower type structures for this project. For each alternative structure type, the following factors were considered:

- Engineering constraints
- Construction and maintenance issues
- Right-of-way (ROW) requirements
- Potential environmental impacts
- Cost
- Public input
- Nominal distance between structures (i.e., span length)
- Potential land use impacts
- Schedule

LCRA engineers selected single poles as the proposed structure type for this project. Single poles are the least cost structure alternative and, because at many segment and node locations limited space is available for the transmission line, they are the best engineering alternative because poles have a smaller footprint than H-frame and lattice tower structures. The determination of material type (pre-stressed concrete or steel) will be made during the detailed design phase of the project, considering factors such as engineering constraints, cost, schedule, and other factors. For a detailed discussion of the proposed typical structures and their requirements please refer to Section 1.4.2 of the EA.

Some route segments, including segments I3, G3, E3, C3, X2, and a portion of K5, would require rebuilding an existing LCRA TSC single-circuit electric transmission line (T378 Round Rock to Chief Brady and T355 Chief Brady to Georgetown, depending upon the specific route segment) primarily within an existing easement. Utilizing an existing transmission line ROW requires that the structures be capable of holding three electric circuits, the existing circuit (T378 and/or T355) and the two new circuits for this project. Therefore, these segments will require the use of triple-circuit capable H-frame structures.

Please refer to Figures 1-2 through 1-6 in the EA for drawings of the structures proposed to be used in this project.

For joint applications, provide and separately identify the above-required information regarding structures for the portion(s) of the project owned by each applicant.

This is not a joint application.

6. **Right-of-way:**

Miles of Right-of-Way:	Approximately 11.8 to 21.3 miles
Miles of Circuit:	Approximately 11.8 to 21.3 miles of circuit will be installed for the first circuit of the Proposed Project and approximately 11.8 to 21.3 additional miles of circuit will be installed on the structures at a future date.
Width of Right-of-Way:	ROW width for the Proposed Project will vary from an estimated minimum ROW width of 60 feet to an estimated maximum ROW width of 100 feet in long spans. The typical ROW width is estimated to be 80 feet.
Percent of Right-of-Way Acquired:	The percent of ROW acquired for the Proposed Project at this time varies from as much as 27% for Route 4 to as little as 0% for Routes 8, 9, 10, 11, 12, 15, 16, 17, 23 and 24. The existing ROW available for use for some alternate routes on this project corresponds with existing LCRA TSC ROW located along its Round Rock-Chief Brady (T378) and Chief Brady-Georgetown (T355) 138-kV transmission lines.

For joint applications, provide and separately identify the above-required information for each route for the portion(s) of the project owned by each applicant.

This is not a joint application.

Provide a brief description of the area traversed by the transmission line. Include a description of the general land uses in the area and the type of terrain crossed by the line.

The Proposed Project area is located within Williamson County, Texas, and includes portions of the cities of Austin, Cedar Park, Georgetown, Leander, and Round Rock.

The Proposed Project area has a variety of land uses including commercial and residential development, transportation facilities, parks and recreation areas, rural agricultural areas, and a significant rock quarry.

The Proposed Project area is situated within the Edwards Plateau physiographic region of Texas. The region's topography is characterized by flat upper surfaces, interspersed by drainages that open up into larger draws or box canyons. Elevations in the Edwards Plateau range between 3,000 feet above mean sea level (amsl) within the western and northern portions, to 450 feet amsl as you move towards the Gulf coast. Elevations in the study area range between approximately 720 feet amsl along the lower portions of Brushy Creek to approximately 1,050 feet on the hilltops in the northern portion of the study area.

Specific discussion regarding natural, human, and cultural resources in the Proposed Project area is set forth in the EA, Section 2.0.

7. **Substations or Switching Stations:**
List the name of all existing HVDC converter stations, substations or switching stations that will be associated with the new transmission line. Provide documentation showing that the owner(s) of the existing HVDC converter stations, substations and/or switching stations have agreed to the installation of the required project facilities.

The existing electric load-serving substations listed below are associated with the Proposed Project.

1. PEC's Leander Substation
2. Oncor's Round Rock Substation

These two existing substations are the connecting points for the new transmission line to the existing electric grid. There are no HVDC converter stations associated with the Proposed Project.

Attachment 2 to this Application provides documentation demonstrating that PEC and Oncor are aware of the Proposed Project and have agreed to the installation of the required facilities associated with the interconnection of the Proposed Project in the Leander and Round Rock substations, respectively.

8. Estimated Schedule:

Estimated Dates of:	Start	Completion
Right-of-way and Land Acquisition	May 2017	August 2018
Engineering and Design	July 2017	August 2018
Material and Equipment Procurement	March 2018	October 2018
Construction of Facilities	January 2019	October 2019
Energize Facilities	December 2019	December 2019

9. Counties:
For each route, list all counties in which the route is to be constructed.

All of the routes and route segments proposed in association with the Proposed Project are located within Williamson County, Texas.

Please refer to Figures 4-26a, 4-26b, 4-27 and 5-1 in the EA for the location of alternative route segments.

10. Municipalities:
For each route, list all municipalities in which the route is to be constructed.

If approved, some portion of each alternate route proposed in association with the Proposed Project would be constructed within the city limits of Leander and Round Rock.

If approved, some portion of Routes 2, 6, 8, 9, 10, 11, 12, 15, 16, 17, 20, 23, 24, and 31 would be constructed within the city limits of Cedar Park.

If approved, some portion of Routes 3, 4, 5, and 6 would be constructed within the city limits of Georgetown.

For each applicant, attach a copy of the franchise, permit or other evidence of the city's consent held by the utility, if necessary or applicable. If franchise, permit, or other evidence of the city's consent has been previously filed, provide only the docket number of the application in which the consent was filed. Each applicant should provide this information only for the portion(s) of the project which will be owned by the applicant.

Authority for LCRA TSC to provide transmission service within Williamson County, and within the municipalities therein, is contained in, among other dockets, Docket Nos. 17, 59 and 24419.

11. Affected Utilities:

Identify any other electric utility served by or connected to facilities in this application.

PEC owns the existing Leander Substation, which is one of the project end points and will be served by, and connected to, the facilities proposed for construction in this application.

Oncor owns the existing Round Rock Substation, which is one of the project end points and will therefore be connected to the facilities proposed for construction in this application.

Describe how any other electric utility will be affected and the extent of the other utilities' involvement in the construction of this project. Include any other electric utilities whose existing facilities will be utilized for the project (vacant circuit positions, ROW, substation sites and/or equipment, etc.) and provide documentation showing that the owner(s) of the existing facilities have agreed to the installation of the required project facilities.

In the existing Leander Substation, PEC will expand its 138-kV electrical bus and LCRA TSC will install one circuit breaker to connect the initial circuit of the Proposed Project to the existing electric grid. PEC will also install low voltage (distribution) load-serving facilities at each of the two new substations.

Electric service requirements for a large number of current and future end-use customers within the project area will be met by PEC with the installation of the two new electric load-serving substations associated with the Proposed Project. The two new substations will provide the electrical source to supply existing and future electrical loads in the project area. The two new electric load-serving substations will also increase the reliability of service to the broader area.

In the existing Round Rock Substation, Oncor will install one circuit breaker for interconnection of the initial circuit of the Proposed Project to the existing electric grid.

Electric service reliability for end-use customers served by Oncor out of the Round Rock Substation will be improved with the connection of an additional transmission circuit at the Round Rock Substation.

Attachment 2 to this Application provides documentation demonstrating that the owners of facilities associated with this Proposed Project collaborated and worked with ERCOT to assess the need and define the scope and responsibilities associated with the Proposed Project.

12. Financing:

Describe the method of financing this project. For each applicant that is to be reimbursed for all or a portion of this project, identify the source and amount of the reimbursement (actual amount if known, estimated amount otherwise) and the portion(s) of the project for which the reimbursement will be made.

LCRA TSC will finance the facilities associated with this Application in a manner similar to that which has been used for projects previously constructed by LCRA TSC. That is, it will be financed initially with a combination of tax-exempt commercial paper, tax-exempt private revolving note, and subsequently with fixed-rate debt. Interest on the debt may be capitalized until the project is in service, at which point it is intended that both the principal and interest will be serviced with LCRA TSC's Transmission Cost of Service revenues.

LCRA TSC is the sole applicant, and, therefore, no other party will be reimbursed for any portion of the project.

13. **Estimated Costs: Provide cost estimates for each route of the proposed project using the following table. Provide a breakdown of "Other" costs by major cost category and amount. Provide the information for each route in an attachment to this application.**

	Transmission Facilities *	**Substation Facilities ***
Right-of-way and Land Acquisition		
Engineering and Design (Utility)		
Engineering and Design (Contract)		
Procurement of Material and Equipment (including stores)		
Construction of Facilities (Utility)		
Construction of Facilities (Contract)		
Other (all costs not included in the above categories)		
Estimated Total Cost	See Attach. 4	See Attach. 4

*Please refer to Attachment 4 to this Application for Transmission and Substation Facilities estimated costs for each alternative route presented in this Application.

14. Need for the Proposed Project:

For a standard application, describe the need for the construction and state how the proposed project will address the need. Describe the existing transmission system and conditions addressed by this application. For projects that are planned to accommodate load growth, provide historical load data and load projections for at least five years. For projects to accommodate load growth or to address reliability issues, provide a description of the steady state load flow analysis that justifies the project. For interconnection projects, provide any documentation from a transmission service customer, generator, transmission service provider, or other entity to establish that the proposed facilities are needed. For projects related to a Competitive Renewable Energy Zone, the foregoing requirements are not necessary; the applicant need only provide a specific reference to the pertinent portion(s) of an appropriate commission order specifying that the facilities are needed. For all projects, provide any documentation of the review and recommendation of a PURA §39.151 organization.

Retail electric service to the area in southwestern Williamson County, generally between Austin and Leander along US Highway 183 and west of Interstate Highway 35 transportation corridors, is served by PEC primarily through eight electric load-serving substations: Avery Ranch, Balcones, Kent Street, Buttercup, Whitestone, Blockhouse, Leander and Seward Junction substations. The total electric load served by PEC in this specific area exceeded 397 megawatts in 2014. Most of the capacity at these eight substations was installed in the last 20 years to be able to keep pace with the rapidly increasing demand for electricity in the area. The end-use customers include but are not limited to residential, small and large commercial, public offices, emergency response, urgent care facilities, churches, schools, ranch and farm operations, communications towers and systems, and water treatment plants.

LCRA TSC and PEC have an established planning and operating relationship for the delivery of safe, reliable, and cost-effective electric service. As its Transmission Operator, LCRA TSC assists PEC in ensuring the electric delivery requirements of its end-use customers and is the filing party in this Application for constructing the Proposed Project as supported in the response to Questions 1, 2, 4 and 5 of this Application.

Describe the need for the construction and state how the proposed project will address the need.

Electric service from the existing eight substations (listed above) to the area's end-use customers is presently limited by the existing remote transmission network to the west of the Proposed Project area. In order to construct new substations that will reliably provide retail electric service to customers in southwestern Williamson County, a new transmission line must be constructed.

The purpose and need for the Proposed Project is driven by two key factors for adequately and reliably serving local area electric load requirements. These factors are summarized as follows:

1. The existing and forecasted electric demand has been increasing at a steady pace in the Williamson County area due to increased demand from existing customers as well as increased numbers of new customers in the area. This area is one of the most rapidly growing areas in Texas and includes the areas in and around the cities of Leander, Cedar Park, Austin, and Round Rock as well as unincorporated areas of Williamson County.

2. The Proposed Project supports distribution-level electric service reliability and operational requirements, including maintaining electric service during emergency restoration events. The local distribution system reliability and operational needs cannot be addressed with or by only expanding existing distribution facilities in the area.

In light of these two factors, PEC, LCRA TSC, and ERCOT, the stakeholders tasked with the obligatory accountability to serve electric needs in a reliable and safe manner, developed the Proposed Project as the most effective solution of 13 alternatives considered. One substation (Substation 1) is required near the general area where Ronald Reagan Boulevard and FM 1431 intersect and the other substation (Substation 2) is required near the general area of the intersection of Ronald Reagan Boulevard and East Crystal Falls Parkway. The primary objective of the Proposed Project is to provide a transmission connection to these two new load-serving substations from the existing high voltage electric grid. In addition to cost-effectively meeting its primary objective, the Proposed Project provides secondary benefits in that it strengthens the transmission system service to the broader area and increases transmission service reliability to both the existing Leander and Round Rock substations.

An engineering study conducted for PEC revealed that continuing to serve the electrical needs of this growing area from the existing load-serving substations results in the following reliability risks:

- Loss of electric service to a large amount of end-use customers in this area;
- Loading levels exceeding equipment capacity, leading to widespread outages;
- Voltage levels falling below acceptable operational limits, leading to widespread outages;
- Decreased electric system efficiencies due to increased electric system losses; and
- Possible large monetary penalties for not meeting federal, state and local electric system service reliability standards.

Thus, continuing to serve the project area's electric load without the Proposed Project will result in potential electric service degradation impacting a large number of end-use customers and could significantly limit the continued healthy economic development of the broader area. Furthermore, PEC's ability to meet its obligations for providing cost-effective electric service and to respond to emergencies will be severely limited without the Proposed Project. Lastly, without the Proposed Project, other large transmission line projects will be required to mitigate future transmission issues that impact an even broader area.

In summary, the present electric system's capability to reliably and adequately serve the electric load of the project area is near its limits and will be soon exceeded.

The addition of the two substations and 138-kV transmission line associated with the Proposed Project will effectively and efficiently support the forecasted electric load levels. An LCRA TSC-conducted assessment revealed that the Proposed Project will support and accommodate existing and forecasted electric load as follows:

- Electric loading of area substation transformers will be maintained within acceptable levels;
- Electric loading of area distribution lines will be maintained within acceptable levels;
- Electric losses will be maintained within acceptable levels; and
- Voltage out of area substations will be maintained within acceptable limits.

In addition to cost-effectively meeting its primary objective, the Proposed Project provides secondary benefits in that it strengthens the transmission system to the broader area and it also increases transmission service reliability to both the Leander and Round Rock substations.

Describe the existing transmission system and conditions addressed by this application.

Attachment 7, included in response to Question 16 of this Application, illustrates the transmission system presently in place in and around the project area. As may be observed from this electric system area map, existing transmission system availability is limited to the 138-kV transmission paths that parallel US Highway 183 between Austin and Leander and Interstate Highway 35 between Austin and Georgetown. The distance between these transmission paths ranges between 7.5 and 9 miles.

Development within the geographic area between these two 138-kV transmission paths has been growing at a fast pace in recent years and this type of growth is forecasted to continue. The two existing transmission paths are becoming too remote from the high density, growing, and developing area where two load-serving substations are required.

The lack of a transmission source results in operating limitations that, if left unaddressed, will negatively impact electric service to the area as discussed above.

In order to provide a transmission source to the two new substations, a new 138-kV transmission line is needed. The connecting end points for the new transmission line were defined through a comprehensive planning process that involved PEC and LCRA TSC electric system planning staff, area electric providers, and the ERCOT stakeholder process. The addition of the two substations and 138-kV transmission line associated with the Proposed Project will effectively and efficiently support the forecasted electric load levels. An LCRA TSC-conducted assessment revealed that the Proposed Project supports reliable electric service to existing and forecasted electric load as follows:

- Electric loading of area substation transformers will be maintained within acceptable levels;
- Electric loading of area distribution lines will be maintained within acceptable levels;
- Electric losses will be maintained within acceptable levels; and
- Voltage out of area substations will be maintained within acceptable limits.

For projects that are planned to accommodate load growth, provide historical load data and load projections for at least five years.

The area's historical and projected electric load data is shown in Table 1 and graphed in Figure 1 below.

Table 1 - Historical and Projected Peak Electric Load

Year	Historical Peak Electric Load (kW)	Year	Projected Peak Electric Load (kW)
2006	288,145	2016	409,991
2007	276,767	2017	424,992
2008	319,689	2018	440,687
2009	328,849	2019	457,111
2010	359,807	2020	486,020
2011	410,519	Most recent electric load forecast for the area that includes the Avery Ranch, Balcones, Blockhouse, Buttercup, Kent Street, Leander, Seward Junction, and Whitestone substations.	
2012	384,074		
2013	415,315		
2014	397,007		
2015	452,297		

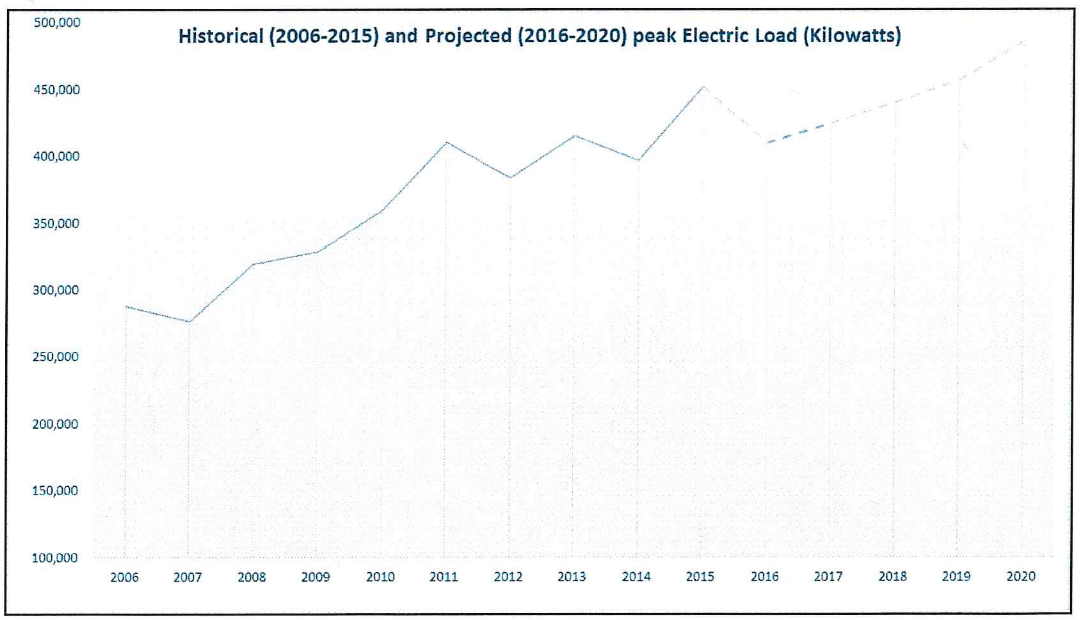

Figure 1 - Historical and Projected Peak Electric Load (Avery Ranch, Balcones, Blockhouse, Buttercup, Kent Street, Leander, Seward Junction, and Whitestone substations)

For projects to accommodate load growth or to address reliability issues, provide a description of the steady state load flow analysis that justifies the project.

The Proposed Project is primarily required to address electric load growth and consists of constructing two new electric load-serving substations. Because these substations are required in an area where there is presently no transmission infrastructure, a new 138-kV transmission line is required. In adherence to requirements set forth in the North American Electric Reliability Corporation (NERC) Reliability Standards on planning assessments, the electric system impact of the new 138-kV transmission line was assessed by both LCRA TSC and ERCOT. Descriptions of the steady state power flow analysis used to justify the need for the project and evaluate how the Proposed Project is integrated into the existing electric grid are provided in Attachments 2 and 5 to this Application.

For interconnection projects, provide any documentation from a transmission service customer, generator, transmission service provider, or other entity to establish that the proposed facilities are needed.

The purpose and need for the Proposed Project are <u>not</u> associated with the interconnection of a transmission service customer, generator, transmission service provider, or another entity.

For projects related to a Competitive Renewable Energy Zone, the foregoing requirements are not necessary; the applicant need only provide a specific reference to the pertinent portion(s) of an appropriate commission order specifying that the facilities are needed.

The purpose and need for the Proposed Project are <u>not</u> associated with a Competitive Renewable Energy Zone.

For all projects, provide any documentation of the review and recommendation of a PURA §39.151 organization.

The documentation of the review and recommendation of a PURA § 39.151 organization (ERCOT) is included as Attachment 2 to this Application.

15. Alternatives to Project:

For a standard application, describe alternatives to the construction of this project (not routing options). Include an analysis of distribution alternatives, upgrading voltage or bundling of conductors of existing facilities, adding transformers, and for utilities that have not unbundled, distributed generation as alternatives to the project. Explain how the project overcomes the insufficiencies of the other options that were considered.

Alternatives to the construction of this project (not routing options)

There were 13 alternatives studied during the electric system planning phase of the proposed project. All 13 alternatives described in the table below included a new 138-kV transmission line in the project study area. In each of the two independent studies, one conducted by LCRA TSC and the other conducted by ERCOT, the alternative labeled number 11 below was selected as the most effective solution to address the electric load growth-driven deficiencies.

No.	Description of Study Alternative	Scope of Study Alternative
1	Chief Brady - Parmer - Whitestone 138 kV transmission line	Construct a new Parmer 138 kV Substation in Williamson County. Construct a new single circuit 138 kV line (approximately 14.8 miles) on a double circuit capable structure that connects the existing Chief Brady and Whitestone substations to the new Parmer Substation with an emergency rating of at least 446 MVA. Add terminal equipment at the Chief Brady and Whitestone substations for new transmission line. Upgrade the existing Round Rock to Chief Brady 138 kV transmission line to achieve an emergency rating of at least 446 MVA.
2	Chief Brady - Parmer - Avery Ranch 138 kV transmission line	Construct a new Parmer 138 kV Substation in Williamson County. Construct a new single circuit 138 kV line (approximately 14.8 miles) on a double circuit capable structure that connects the existing Chief Brady and Avery Ranch substations to the new Parmer Substation with an emergency rating of at least 446 MVA. Add terminal equipment at the Chief Brady and Avery Ranch substations for new transmission line. Upgrade the existing Round Rock to Chief Brady 138 kV transmission line to achieve an emergency rating of at least 446 MVA.
3	Chief Brady - Parmer - Jollyville 138 kV transmission line	Construct a new Parmer Substation in Williamson County. Construct a new single circuit 138 kV line (approximately 15.8 miles) on a double circuit capable structure that connects the existing Chief Brady and Jollyville substations to the new Parmer Substation with an emergency rating of at least 446 MVA. Add terminal equipment at the Chief Brady and Jollyville substations for new transmission line.

4	Seward Junction - Parmer - Avery Ranch 138 kV transmission line	Construct a new Parmer Substation in Williamson County. Construct a new single circuit 138 kV line (approximately 14.1 miles) on a double circuit capable structure that connects the existing Seward Junction and Avery Ranch substations to the new Parmer Substation with an emergency rating of at least 446 MVA. Add terminal equipment at the Seward Junction and Avery Ranch substations for new transmission line.
5	Seward Junction - Parmer - Jollyville 138 kV transmission line	Construct a new Parmer Substation in Williamson County. Construct a new single circuit 138 kV line (approximately 15.1 miles) on a double circuit capable structure that connects the existing Seward Junction and Jollyville substations to the new Parmer Substation with an emergency rating of at least 446 MVA. Add terminal equipment at the Seward Junction and Jollyville substations for new transmission line.
6	Seward Junction - Parmer - Round Rock 138 kV transmission line	Construct a new Parmer Substation in Williamson County. Construct a new single circuit 138 kV line (approximately 16.5 miles) on a double circuit capable structure that connects the existing Seward Junction and Round Rock substations to the new Parmer Substation with an emergency rating of at least 446 MVA. Add terminal equipment at the Seward Junction and Round Rock substations for new transmission line.
7	Leander - Parmer - Avery Ranch 138 kV transmission line	Construct a new Parmer Substation in Williamson County. Construct a new single circuit 138 kV line (approximately 10.3 miles) on a double circuit capable structure that connects the existing Leander and Avery Ranch substations to the new Parmer Substation with an emergency rating of at least 446 MVA. Add terminal equipment at the Leander and Avery Ranch substations for new transmission line.
8	Leander - Parmer - Jollyville 138 kV transmission line	Construct a new Parmer Substation in Williamson County. Construct a new single circuit 138 kV line (approximately 11.4 miles) on a double circuit capable structure that connects the existing Leander and Jollyville substations to the new Parmer Substation with an emergency rating of at least 446 MVA. Add terminal equipment at the Leander and Jollyville substations for new transmission line.
9	Leander - Parmer - Chandler 138 kV transmission line	Construct a new Parmer Substation in Williamson County. Construct a new Chandler Substation along the existing Chief Brady to Round Rock 138 kV transmission line. Construct a new single circuit 138 kV line (approximately 13.5 miles) on a double circuit capable structure that connects the existing Leander Substation and new Chandler Substation to the new Parmer Substation with an emergency rating of at least 446 MVA. Add terminal equipment at the Leander Substation for new transmission line. Upgrade the existing Round Rock to Chief Brady 138 kV transmission line between Round Rock and the new Chandler Substation to achieve an emergency rating of at least 446 MVA.

10	Leander - Parmer - Round Rock South 138 kV line	Construct a new Parmer Substation in Williamson County. Construct a new single circuit 138 kV line (approximately 15.4 miles) on a double circuit capable structure that connects the existing Leander and Round Rock South substations to the new Parmer Substation with an emergency rating of at least 446 MVA. Add terminal equipment at the Leander and Round Rock South substations for new transmission line.
11	Leander - Parmer - Round Rock 138 kV line (LCRA TSC proposed Option)	Construct a new Parmer Substation in Williamson County. Construct a new single circuit 138 kV line (approximately 12.6 miles) on a double circuit capable structure that connects the existing Leander and Round Rock substations to the new Parmer Substation with an emergency rating of at least 446 MVA. Add terminal equipment at the Leander and Round Rock substations for new transmission line.
12	Leander - Parmer - Chief Brady 138 kV transmission line	Construct a new Parmer Substation in Williamson County. Construct a new single circuit 138 kV line (approximately 14.8 miles) on a double circuit capable structure that connects the existing Leander and Chief Brady substations to the new Parmer Substation with an emergency rating of at least 446 MVA. Add terminal equipment at the Leander and Chief Brady substations for new transmission line. Upgrade the existing Round Rock to Chief Brady 138 kV transmission line to achieve an emergency rating of at least 446 MVA.
13	Leander - Parmer - Westinghouse South 138 kV transmission line	Construct a new Parmer Substation in Williamson County. Construct a new Westinghouse South Substation along the existing Westinghouse to Westinghouse Tap 138 kV transmission line. Construct a new single circuit 138 kV line (approximately 13.5 miles) on a double circuit capable structure that connects the existing Leander Substation and new Westinghouse South Substation to the new Parmer Substation with an emergency rating of at least 446 MVA. Add terminal equipment at the Leander Substation for new transmission line.

Analysis of distribution alternatives, upgrading voltage or bundling of conductors of existing facilities, adding transformers, and for utilities that have not unbundled, distributed generation as alternatives to the project.

- **Analysis of distribution alternatives, upgrading voltage or bundling of conductors of existing facilities, and adding transformers as alternatives to the project.**

PEC commissioned an electric system study for portions of its distribution system located in high growth areas, including its retail service area within Williamson

County. The study was conducted by SAIC Energy, Environment, and Infrastructure, LLC (SAIC) and completed in 2012. Based on the deficiencies identified in the distribution system, and with appropriate consideration given to solutions consisting of distribution alternatives, upgrading voltage or bundling of conductors of existing facilities and adding transformers, SAIC recommended a plan to PEC that includes the two new substations that are part of this Application. The SAIC study report is included as Attachment 6 to this Application.

- **Analysis of (for utilities that have not unbundled), distributed generation as alternatives to the project.**

  LCRA TSC is subject to the unbundling requirements of PURA § 39.051. Regardless, the defined need for the Proposed Project requires grid-scale solutions by 2019 that provide large amounts of electric power to adequately serve existing and developing end-use customers over a broad area as well as to efficiently provide sufficient capacity for emergency support during emergency restoration efforts over an even wider area. Thus, distributed generation would not adequately address the need for the Proposed Project.

Explain how the project overcomes the insufficiencies of the other options that were considered.

In its 2012 study, SAIC concluded that the new substations were superior to distribution level solutions because the two new substations would provide long-term increased reliability in both normal and contingency conditions, allowed for shorter low voltage distribution lines to serve the area, and resulted in reduced electric system losses.

In its 2013 study, LCRA TSC concluded that the Proposed Project was the most effective solution of the 12 alternatives considered. Specifically, in its study, LCRA TSC determined that the Proposed Project addresses 10 violations (voltage and thermal) identified in the 2022 Base Case during single contingency (N-1) conditions and that other alternatives do not address the 2022 violations. LCRA TSC further found additional benefits provided by the Proposed Project as follows:

1. Adds a 138-kV transmission source into an area of Williamson County that is forecasted to experience high electric load growth;
2. Provides the transmission infrastructure needed to reliably serve the two substations PEC identified for the area north of Highway 620 between Highway 183 and Interstate Highway 35;
3. Addresses all criteria violations (identified for this evaluation) in 2018 and 2022 during single contingency (N-1) conditions;
4. Reduces the risk of electric load loss under NERC P6 contingency conditions;
5. Addresses multiple transmission line overloads during NERC P6 contingency conditions;

6. Reduces east-to-west power flows on transmission facilities in the Austin area, as it is a direct parallel path for the Howard Lane-Jollyville line that also supports the area of study from the south; and
7. Has a lower cost than other alternatives with similar benefits.

The LCRA TSC study is included as Attachment 5 to this Application.

Lastly, in its 2014 recommendation, ERCOT concluded that the Proposed Project was the most effective solution of the 13 different alternatives it considered. The Proposed Project "cost effectively met all of the reliability criteria." The ERCOT report is included as Attachment 2 to this Application.

16. Schematic or Diagram:

For a standard application, provide a schematic or diagram of the applicant's transmission system in the proximate area of the project. Show the location and voltage of existing transmission lines and substations, and the location of the construction. Locate any taps, ties, meter points, or other facilities involving other utilities on the system schematic.

A map of the transmission system in the vicinity of the project is provided as Attachment 7 to this application.

17. Routing Study:

Provide a brief summary of the routing study that includes a description of the process of selecting the study area, identifying routing constraints, selecting potential line segments, and the selection of the routes. Provide a copy of the complete routing study conducted by the utility or consultant. State which route the applicant believes best addresses the requirements of PURA and P.U.C. Substantive Rules.

LCRA TSC retained POWER Engineers, Inc. (POWER) to prepare the EA, included as Attachment 1 to the Application. The objective of the EA was to provide information in support of this Application in addressing the requirements of Section 37.056 (c)(4)(A)-(D) of the Texas Utilities Code, the PUC Certificate of Convenience and Necessity (CCN) Application form, and PUC Substantive Rule 25.101. By examining existing environmental conditions, including the human and natural resources that are located in the area of the Proposed Project, the EA evaluates the environmental effects that could result from the construction, operation, and maintenance of the Proposed Project. The EA will also be used in support of any additional local, state, or federal permitting activities that may be required for the Proposed Project.

To assist POWER in its evaluation, LCRA TSC provided information regarding the project endpoints, the need for the project, engineering and design requirements, construction practices, and ROW requirements for the Proposed Project.

Selecting the Study Area

POWER, with input and assistance from LCRA TSC, delineated the study area within which to review the existing environment and eventually to locate geographically diverse alternative routes. The boundaries of the study area were determined by the existing project endpoints (Leander and Round Rock substations), the new substation (Substation 1 and Substation 2) siting areas, other existing ROW (e.g., roadways and existing transmission lines), and existing cultural and land use features across the study area.

The study area, shown in Figure 2-1 of the EA, is approximately 9 miles long by 6 miles wide, and encompasses an area of approximately 52 square miles (33,000 acres).

Routing Constraints

Once the study area was defined, data related to land use, aesthetics, ecology, and cultural resources were collected by POWER through: conducting ground reconnaissance; reviewing available maps and aerial photography; reviewing previous studies conducted in the area; contacting a variety of local, state, and federal agencies; and considering criteria established in Section 37.056(c)(4)(A)-(D) of the Texas Utilities Code, the PUC's CCN Application form, PUC Substantive Rule 25.101, and input from the public open house meetings. Using this information, the locations of sensitive features and other constraints were identified.

Selection of Potential Routing Segments

Preliminary alternative route segments were identified by evaluation of the constraints mapped for the study area and then by identifying routing opportunity areas such as existing corridors and other linear features. Through application of the PUC's routing criteria, as described above, 160 preliminary alternative route segments were identified and developed into potentially viable preliminary alternative routes for comparative purposes. These preliminary alternative route segments were further evaluated based on information received from government agencies, the public meetings, and additional public input. Ultimately, 31 primary alternative routes were identified for comparison. These routes were evaluated using 53 land use and environmental criteria. Impacts were evaluated by POWER for each identified primary alternative route. Additional forward progressing alternate routes may also be formed by configuring the various segments in different ways.

Specific discussion regarding selection of the study area, identification of constraints, the selection of potential preliminary alternative route segments, and the alternative route analysis is set forth in the EA.

Selection of the alternative route the applicant believes best addresses the requirements of PURA and P.U.C. Substantive Rules

LCRA TSC identified Route 31 as the primary alternative route that best addresses the requirements of PURA and the PUC Substantive Rules for the Proposed Project. LCRA TSC initially reviewed the EA, followed by a review of each alternative route. This review included the consideration of all of the factors and criteria listed in PURA and the PUC Substantive Rules, including potential environmental, cultural, and land use impacts, engineering constraints, public input and community values, estimated costs, system planning, and landowner, agency, and utility concerns and preferences. LCRA TSC's identification of Route 31 as the route that best addresses the requirements of PURA and the PUC Substantive Rules is based on the considerations that Route 31:

- Is generally consistent with the route preferences indicated by the cities of Leander, Cedar Park, and Round Rock in resolutions passed by the three municipalities primarily burdened by the Proposed Project (an expression of community values);
- Uses or is parallel and adjacent to existing transmission line ROW for approximately 20 percent of its length (2.7 miles);
- Is parallel and adjacent to other existing compatible ROW for approximately 60 percent of its length (8.2 miles);
- Has the fourth lowest estimated cost ($72,627,400) and is only approximately seven percent more expensive than the least expensive route;
- Has the seventh fewest number of newly affected habitable structures within 300 feet of the route centerline (146);
- Has over 200 fewer newly affected habitable structures within 300 feet of the route centerline than the three least expensive routes;
- Does not cross U.S. Fish and Wildlife Service (USFWS) critical habitat for Jollyville Plateau Salamander;
- Does not impact the Brushy Creek environmentally sensitive areas; and
- Does not cross Bone Cave Harvestman recovery preserve area.

Apart from identifying Route 31 as the route that best meets the PUC's routing criteria, LCRA TSC did not rank the alternative routes.

18. Public Meeting or Public Open House:

Provide the date and location for each public meeting or public open house that was held in accordance with P.U.C. PROC. R. 22.52. Provide a summary of each public meeting or public open house including the approximate number of attendants, and a copy of any survey provided to attendants and a summary of the responses received. For each public meeting or public open house provide a description of the method of notice, a copy of any notices, and the number of notices that were mailed and/or published.

LCRA TSC held two open house meetings for the Proposed Project. The open house meetings were held on October 13 and 14, 2015, from 6:00 p.m. to 8:00 p.m. at the Austin Sports Center of Cedar Park in Cedar Park, Texas, and Wiley Middle School in Leander, Texas. LCRA TSC mailed written notices of the meeting to all owners of property within approximately 350 feet of each preliminary alternative route segment centerline. Additional letters were sent to elected officials and other interested parties. This resulted in the mailing of 2,558 meeting notices. In addition, a public notice was published on the listed dates in the following four newspapers having circulation within the project area counties:

- *Austin American-Statesman* – October 5 & October 12, 2015
- *Hill Country News* – October 1 & October 8, 2015
- *Round Rock Leader* – October 1 & October 8, 2015
- *Williamson County Sun* – September 30 & October 7, 2015

The public notices announced the location, time, and purpose of the meeting. A copy of the published newspaper notice is located in Appendix B of the EA.

The meetings were intended to solicit comments from interested persons and public officials concerning the Proposed Project. The meetings had the following objectives:

- Promote a better understanding of the proposed project including the purpose, need, potential benefits and impacts, and PUCT certification process;
- Inform the public with regard to the routing procedure, schedule, and route approval process; and
- Gather the values and concerns of the public and community leaders.

The meetings were configured in an informal information station format rather than a formal speaker/audience format, with each station assigned to a particular aspect of the project or routing process and staffed with LCRA or POWER staff. Each station included maps, illustrations, photographs, or text explaining each particular topic. Three GIS computer stations were available to show the extent of the project, the proposed preliminary alternative route segments, Williamson Appraisal District parcel boundaries, and recent aerial photography of the project area. The GIS stations were also available to answer detailed questions such as the approximate distance from a proposed preliminary route segment centerline to the nearest corner of a habitable structure. Interested persons were encouraged to visit each station in order so that the entire process could be explained in the logical sequence of project development. The information station format is typically advantageous because it allows attendees to process information in a more relaxed manner and also allows them to focus on their particular area of interest and ask specific questions. Furthermore, the one-to-one discussions with LCRA or POWER personnel typically encourage more interaction from those persons who might be hesitant to participate in a more formal speaker-audience format.

A total of 615 people signed in as attending the public open house meetings. In some cases, only one spouse or family member signed in when more than one may have been present. All attendees were offered a questionnaire, a preliminary route segment map, and a frequently asked questions document (see Appendix B of the EA). Some attendees handed in completed questionnaires at the meetings (totaling 255), while others took questionnaires with them, acquired questionnaires from neighbors, or accessed questionnaires from the LCRA Project website. A total of 1,433 additional completed questionnaires were sent to LCRA TSC following the open house meetings. Thus, a total of 1,688 questionnaires were received by LCRA TSC at or following the October 2015 public open house meetings. Additionally, thousands of comments were also received in the form of letters or emails.

Additional information concerning the public involvement program and discussion summarizing the questionnaire results is located in Section 4.2.2 pages 4-2 through 4-7 of the EA. A representative copy of the questionnaire provided for the Proposed Project is included in Appendix B of the EA.

19. Routing Maps:

Base maps should be a full scale (one inch = not more than one mile) highway map of the county or counties involved, or other maps of comparable scale denoting sufficient cultural and natural features to permit location of all routes in the field. Provide a map (or maps) showing the study area, routing constraints, and all routes or line segments that were considered prior to the selection of the routes. Identify the routes and any existing facilities to be interconnected or coordinated with the project. Identify any taps, ties, meter points, or other facilities involving other utilities on the routing map. Show all existing transmission facilities located in the study area. Include the locations of radio transmitters and other electronic installations, airstrips, irrigated pasture or cropland, parks and recreational areas, historical and archeological sites (subject to the instructions in Question 27), and any environmentally sensitive areas (subject to the instructions in Question 29).

Provide aerial photographs of the study area displaying the date that the photographs were taken or maps that show (1) the location of each route with each route segment identified, (2) the locations of all major public roads including, as a minimum, all federal and state roadways, (3) the locations of all known habitable structures or groups of habitable structures (see Question 19 below) on properties directly affected by any route, and (4) the boundaries (approximate or estimated according to best available information if required) of all properties directly affected by any route.

For each route, cross-reference each habitable structure (or group of habitable structures) and directly affected property identified on the maps or photographs with a list of corresponding landowner names and addresses and indicate which route segment affects each structure/group or property.

Base Maps

Figure 4-27 of the EA (Appendix D), titled *Primary Alternative Routes*, produced at a scale of 1 inch = 800 feet, is provided in map pockets in the EA. These maps were produced using a USGS topographic base. They depict the study area for the project, locations of radio transmitters and other electronic installations, airports/airstrips, parks and recreational areas, historical sites, environmentally sensitive areas and other constraints. The maps also contain the alternative routes for the project. For their protection, locations of archaeological sites are not shown on the maps.

Figure 5-1 of the EA (Appendix E), titled *Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Routes*, which consists of aerial photography produced at a scale of 1 inch = 800 feet, is provided in a map pocket in the EA. The aerial photo-based maps include parcel boundaries identified from a review of the tax appraisal district records and combined, as appropriate, to reflect instances where multiple parcels are owned by a single individual or group in the study area. The locations of all known habitable structures located within 300 feet of the centerline of primary alternative routes on properties directly affected by the project are also identified on Figure 5-1. The habitable structures and other land use features map (Figure 5-1, Appendix E of the EA) was produced using aerial imagery flown in September 2015.

Base maps include sufficient cultural and natural features to permit location of the alternative routes in the field, and they depict existing electric transmission lines (based on information available to POWER), and major public roads located within the study area, as applicable.

Maps showing the study area and all preliminary route segments in a format similar to EA Figures 4-27 and 5-1 were presented at the public open house meetings. Figure 4-1 depicts the preliminary route segments presented at the open houses.

Directly Affected Property Maps

Attachment 8 to this Application includes 17 maps (utilizing aerial photography) titled *Location of Directly Affected Properties*, that identify directly affected properties, tract IDs, and the location of habitable structures (including labels) within approximately 300 feet of the centerline of the transmission line alternatives and approximate parcel boundary lines (based on tax appraisal district records). These maps show the location of each proposed alternative route with each route segment identified, and the locations of all major public roads, including all federal and state roadways.

Attachment 9 to this Application is a list that cross-references each habitable structure, or group of habitable structures, and directly affected properties identified on the maps provided in Attachment 8 with a list of tract IDs and corresponding landowner names and addresses. Landowner names and addresses were obtained by review of information obtained from the Williamson Appraisal District.

20. Permits:
List any and all permits and/or approvals required by other governmental agencies for the construction of the proposed project. Indicate whether each permit has been obtained.

Upon approval of the Application by the PUC, the following permits/approvals would be required and obtained prior to the commencement of construction:

- Where the approved route of the transmission line crosses a state-maintained road or highway, LCRA TSC will obtain a permit from the Texas Department of Transportation (TxDOT). If any portion of the transmission line will be accessed from a state-maintained road or highway, LCRA TSC will obtain a permit from TxDOT.

- Where the transmission line crosses a state-owned riverbed or navigable stream, LCRA TSC will obtain a Miscellaneous Easement (ME) from the General Land Office (GLO).
- Since more than one acre will be disturbed during construction of the project, a Storm Water Pollution Prevention Plan (SWPPP) will be necessary. Further, because more than five acres will be disturbed, a Notice of Intent (NOI) will be prepared by LCRA TSC for the Texas Commission on Environmental Quality (TCEQ). The controls specified in the SWPPP will be monitored in the field.
- The TCEQ's Edwards Aquifer rules (Title 30 Texas Administrative Code Chapter 213) apply to construction and other ground-disturbing activities on the recharge, transition, or contributing zone as mapped by TCEQ. When constructing on the Edwards Aquifer, preparation of an Edwards Aquifer Protection Plan (EAPP), including a water pollution abatement plan (WPAP), may be required. The installation of electrical transmission lines is a regulated activity that is exempt from the EAPP requirements. However, proposed substations on the recharge, transition, or contributing zone are subject to the rules. Such permits or regulatory approvals will be obtained by LCRA TSC prior to construction.
- Upon approval of the Application and prior to construction, a detailed Natural Resources Assessment (NRA) and Cultural Resources Assessment (CRA) will be performed on the approved route. Depending on the results of these assessments, permits or regulatory approvals may be required from the U.S. Army Corps of Engineers (USACE), USFWS, TCEQ, or Williamson County. Such permits or regulatory approvals will be obtained by LCRA TSC prior to construction.
- After alignments and structure locations/heights are designed and engineered, LCRA TSC will make a final determination of the need for Federal Aviation Administration (FAA) notification, based on structure locations and designs. In some areas, if necessary, LCRA TSC could use lower-than-typical structure heights and could add marking and/or lighting to certain structures to avoid or accommodate FAA requirements.
- LCRA TSC will report the status of the Proposed Project to the PUC on LCRA TSC's Monthly Construction Progress Report, beginning with the first report following the filing of a CCN application, and in each subsequent monthly progress report until construction is completed and actual project costs have been reported. As required by the PUC, LCRA TSC will submit locational and attribute data for the approved route after it is constructed.

21. Habitable structures:

For each route list all single-family and multi-family dwellings and related structures, mobile homes, apartment buildings, commercial structures, industrial structures, business structures, churches, hospitals, nursing homes, schools, or other structures normally inhabited by humans or intended to be inhabited by humans on a daily or regular basis within 300 feet of the centerline if the proposed project will be constructed for operation at 230kV or less, or within 500 feet of the centerline if the proposed project will be constructed for operation at greater than 230kV. Provide a general description of each habitable structure and its distance from the centerline of the route. In cities, towns or rural subdivisions, houses can be identified in groups. Provide the number of habitable structures in each group and list the distance from the centerline of the route to the closest and the farthest habitable structure in the group. Locate all listed habitable structures or groups of structures on the routing map.

The locations of habitable structures within 300 feet of the centerline of each route segment are listed and described with the approximate distance from the route segment centerline in Appendix C, Tables 5-3 through 5-33 of the EA and are shown on Figure 5-1, Sheet Nos. 1 and 2 in Appendix E of the EA. The total numbers of habitable structures for the 31 primary alternative routes are provided in the table below. Column two designates the number of habitable structures within 300 feet of the ROW centerline, while column three contains relevant information related to newly affected habitable structures within 300 feet of the ROW centerline. For a more detailed explanation of the relationship between these two metrics, see Section 5.2.3.1 of the EA.

Primary Alternative Route	Total number of habitable structures within 300 feet of the centerline	Number of newly affected habitable structures within 300 feet of the centerline
1	501	269
2	376	146
3	306	71
4	425	105
5	312	77
6	473	241
7	580	263
8	254	247
9	272	259
10	281	269

11	306	291
12	186	173
13	827	532
14	557	262
15	299	286
16	267	255
17	270	263
18	669	354
19	582	267
20	388	161
21	411	96
22	401	83
23	115	105
24	336	324
25	663	348
26	576	261
27	596	369
28	509	282
29	583	266
30	511	282
31	461	146

22. Electronic Installations:

For each route, list all commercial AM radio transmitters located within 10,000 feet of the center line of the route, and all FM radio transmitters, microwave relay stations, or other similar electronic installations located within 2,000 of the center line of the route. Provide a general description of each installation and its distance from the center line of the route. Locate all listed installations on a routing map.

There are no known commercial AM radio transmitters located within 10,000 feet of any of the primary alternative routes. There are 16 known communication towers (FM radio transmitters, microwave towers, or other electronic communications towers) that are located within 2,000 feet of any of the primary alternative routes. A listing, description, and approximate distance from the centerline of each of the primary alternative routes are presented in Table 5-36 and in Appendix C, Tables 5-3 through 5-33 of the EA, and the locations of these electronic installations are shown on Figures 4-27 and 5-1, Page Nos. 1 and 2 in Appendix D and E of the EA.

For additional information on electronic installations, see Section 2.8.5 and Section 5.2.6 of the EA. None of the routes filed in this Application are anticipated to have any impact on the existing communication towers.

23. Airstrips:

For each route, list all known private airstrips within 10,000 feet of the center line of the project. List all airports registered with the Federal Aviation Administration (FAA) with at least one runway more than 3,200 feet in length that are located within 20,000 feet of the center line of any route. For each such airport, indicate whether any transmission structures will exceed a 100:1 horizontal slope (one foot in height for each 100 feet in distance) from the closest point of the closest runway. List all listed airports registered with the FAA having no runway more than 3,200 feet in length that are located within 10,000 feet of the center line of any route. For each such airport, indicate whether any transmission structures will exceed a 50:1 horizontal slope from the closest point of the closest runway. List all heliports located within 5,000 feet of the center line of any route. For each such heliport, indicate whether any transmission structures will exceed a 25:1 horizontal slope from the closest point of the closest landing and takeoff area of the heliport. Provide a general description of each listed private airstrip, registered airport, and heliport; and state the distance of each from the center line of each route. Locate and identify all listed airstrips, airports, and heliports on a routing map.

POWER's review of federal and state aviation/airport maps and directories, aerial photo interpretation and reconnaissance surveys, as well as information received from the TxDOT Division of Aviation, identified no registered heliports located within 5,000 feet of the centerline of any of the primary alternative routes, no FAA registered public or military airports with runways longer than 3,200 feet identified within 20,000 feet of the routes, and no FAA registered public or military airports with runways shorter than 3,200 feet identified within 10,000 feet of the routes. Three private airstrips were identified within 10,000 feet of the centerline of one or more primary alternative routes.

Each airport/airstrip is listed and described with the approximate distance from the centerline of each of the primary alternative routes in Table 5-34 and Appendix C, Tables 5-3 through 5-33 of the EA. These facilities are shown on Figures 4-27 and 5-1, Page Nos. 1 and 2 in Appendix D and E of the EA.

For additional information on airports/airstrips, see Section 2.8.4 and Section 5.2.4 of the EA. No significant impacts to these airports/airstrips are anticipated from construction of the Proposed Project.

24. Irrigation Systems:

For each route identify any pasture or cropland irrigated by traveling irrigation systems (rolling or pivot type) that will be traversed by the route. Provide a description of the irrigated land and state how it will be affected by each route (number and type of structures etc.). Locate any such irrigated pasture or cropland on a routing map.

Based on POWER's review of aerial photography and field reconnaissance, no primary alternate route of the Proposed Project crosses any known cropland or pastureland irrigated by traveling irrigation systems, either rolling or pivot type.

25. Notice:

Notice is to be provided in accordance with P.U.C. PROC. R. 22.52.

A. Provide a copy of the written direct notice to owners of directly affected land. Attach a list of the names and addresses of the owners of directly affected land receiving notice.

A copy of the written notice, with attachments, mailed to owners of directly-affected land is included as Attachment 10 to this Application. A list of the names and addresses of those owners of directly-affected land to whom notice was mailed by first-class mail is included as Attachment 9 to this Application. Landowners of record and their mailing addresses were determined by review of information obtained from the Williamson Appraisal District.

B. Provide a copy of the written notice to utilities that are located within five miles of the routes.

A copy of the written notice sent to utilities located within five miles of the Proposed Project is included as Attachment 11 to this Application. The names and addresses of utilities to whom the written notices were sent are included in Attachment 12, page 1 to this Application.

C. Provide a copy of the written notice to county and municipal authorities.

A copy of the written notice sent to county and municipal authorities is included as Attachment 11 to this Application. The names and addresses of county and municipal authorities to whom the written notices were sent are included in Attachment 12, pages 2 and 3 to this Application. The same notice was sent to utilities, counties, and municipal authorities. LCRA TSC additionally sent notification of the application to the Texas Office of Public Utility Counsel (Attachment 12, page 1), independent school districts (Attachment 12, page 4), and state and federal elected officials (Attachment 12, page 5).

D. Provide a copy of the notice that is to be published in newspapers of general circulation in the counties in which the facilities are to be constructed. Attach a list of the newspapers that will publish the notice for this application. After the notice is published, provide the publisher's affidavits and tear sheets.

A copy of the public notice that will be published in the *Hill Country News, Williamson County Sun, Austin American-Statesman,* and *Round Rock Leader* (newspapers of general circulation in Williamson County where the transmission facilities are to be constructed) once for one week after the Application is filed with the PUC is included as Attachment 13 to this Application. Publisher's affidavits will be filed with the PUC showing proof of notice as soon as available after filing of this Application.

For a CREZ application, in addition to the requirements of P.U.C. PROC. R. 22.52 the applicant shall, not less than twenty-one (21) days before the filing of the application, submit to the Commission staff a "generic" copy of each type of alternative published and written notice for review. Staff's comments, if any, regarding the alternative notices will be provided to the applicant not later than seven days after receipt by Staff of the alternative notices, Applicant may take into consideration any comments made by Commission staff before the notices are published or sent by mail.

26. Parks and Recreation Areas:

For each route, list all parks and recreational areas owned by a governmental body or an organized group, club, or church and located within 1,000 feet of the center line of the route. Provide a general description of each area and its distance from the center line. Identify the owner of the park or recreational area (public agency, church, club, etc.). List the sources used to identify the parks and recreational areas. Locate the listed sites on a routing map.

POWER reviewed U.S. Geological Survey topographic maps, TxDOT county highway maps, recent aerial photography, and field reconnaissance as well as information received from the cities of Cedar Park, Georgetown, Leander, and Round Rock and Williamson County to identify parks and recreation areas within the study area. Based on this review, POWER identified 63 parks or recreation areas located within 1,000 feet of the centerline of one or more of the primary alternative routes.

For more information on parks and recreational areas see Section 2.8.6 and Section 5.2.5 of the EA. No significant impacts to the use of the parks and recreation facilities located within the study area are anticipated from any of the primary alternative routes.

27. Historical and Archeological Sites:

For each route, list all historical and archeological sites known to be within 1,000 feet of the center line of the route. Include a description of each site and its distance from the center line. List the sources (national, state or local commission or societies) used to identify the sites. Locate all historical sites on a routing map. For the protection of the sites, archeological sites need not be shown on maps.

POWER conducted a literature review and records search at the Texas Historical Commission and The Texas Archeological Research Laboratory at the University of Texas at Austin to identify known historical and archaeological sites located within 1,000 feet of the centerline of each of the primary alternative routes. For more information regarding site descriptions and the evaluation of the historical and archaeological sites located within the study area, see Section 2.11 and Section 5.3 of the EA.

Based on POWER's review, 82 recorded archeological sites are located within 1,000 feet of the centerline of one or more of the primary alternative routes. Twenty-three of the identified sites are crossed by primary alternative route ROWs. Fifty-five of the sites are recorded as prehistoric sites, 13 are recorded as historic sites, 10 sites have both prehistoric and historic components, and no site forms are available on the Texas Archeological Site Atlas for four sites. These sites are listed and described with the approximate distance from the centerline for each of the primary alternative routes in Table 5-37 and Appendix C, Tables 5-3 through 5-33 of the EA. For the protection of these sites, they are not shown on the routing maps.

28. Coastal Management Program:

For each route, indicate whether the route is located, either in whole or in part, within the coastal management program boundary as defined in 31 T.A.C. §503.1. If any route is, either in whole or in part, within the coastal management program boundary, indicate whether any part of the route is seaward of the Coastal Facilities Designation Line as defined in 31 T.A.C. §19.2(a)(21). Using the designations in 31 T.A.C. §501.3(b), identify the type(s) of Coastal Natural Resource Area(s) impacted by any part of the route and/or facilities.

No part of any primary alternative route is located within the Coastal Management Program boundary, as defined in 31 T.A.C. §503.1.

29. Environmental Impact:

Provide copies of any and all environmental impact studies and/or assessments of the project. If no formal study was conducted for this project, explain how the routing and construction of this project will impact the environment. List the sources used to identify the existence or absence of sensitive environmental areas. Locate any environmentally sensitive areas on a routing map. In some instances, the location of the environmentally sensitive areas or the location of protected or

endangered species should not be included on maps to ensure preservation of the areas or species. Within seven days after filing the application for the project, provide a copy of each environmental impact study and/or assessment to the Texas Parks and Wildlife Department (TPWD) for its review at the address below. Include with this application a copy of the letter of transmittal with which the studies/assessments were or will be sent to the TPWD.

Wildlife Habitat Assessment Program
Wildlife Division
Texas Parks and Wildlife Department
4200 Smith School Road
Austin, Texas 78744

The applicant shall file an affidavit confirming that the letter of transmittal and studies/assessments were sent to TPWD.

The EA describes the natural resources, cultural resources, land uses, and other sensitive areas that may occur within the study area. The EA also describes how the Proposed Project may impact such resources. Specifically, the EA includes data obtained from TPWD, including the Texas Natural Diversity Database (TXNDD) and a list of Ecologically Significant Stream Segments (ESSS) in the study area.

LCRA TSC will provide a copy of the EA to TPWD within seven days after the Application is filed. A copy of the letter of transmittal of the EA to TPWD is provided as Attachment 14 to this Application. An affidavit confirming that the letter of transmittal and a copy of the EA were sent to TPWD will be filed with the PUC.

30. Affidavit

Attach a sworn affidavit from a qualified individual authorized by the applicant to verify and affirm that, to the best of their knowledge, all information provided, statements made, and matters set forth in this application and attachments are true and correct.

A sworn affidavit is attached below.

AFFIDAVIT OF CHRISTIAN POWELL

STATE OF TEXAS §
§
§

Before me, the undersigned authority, Christian Powell, being first duly sworn, deposes and states:

"My name is Christian Powell. I am a Senior Regulatory Case Manager for the Lower Colorado River Authority. I am over the age of twenty-one, and am competent to make the following affidavit:

> On behalf of LCRA Transmission Services Corporation (LCRA TSC) and in my capacity as Senior Regulatory Case Manager on the Leander-Round Rock 138-kV Transmission Line Project, I am authorized to file and verify the CCN Application for LCRA TSC. I am personally familiar with the documents filed with this application, and I have complied with all the requirements contained in the application; furthermore, all such statements made and matters set forth herein with respect to LCRA TSC are true and correct."

C Powell
Christian Powell
Affiant

SUBSCRIBED AND SWORN TO BEFORE ME, a Notary Public in and for the State of Texas, this 27th day of April 2016.

MELISSA M. GREGG
Notary Public, State of Texas
Comm. Expires 10-01-2018
Notary ID 744373-2

Melissa M. Gregg
Notary Public

ENVIRONMENTAL ASSESSMENT (EA)

(LOOSE)

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received
6-26-14

June 18, 2014

Mr. Ross Phillips
Vice President and Chief Operating Officer
Lower Colorado River Authority
P.O. Box 220
Austin, TX 78767-0220

Mr. Kenneth A. Donohoo
Director, System Planning
Oncor Electric Delivery
2233-B Mountain Creek PKWY
Dallas, TX 75211-6716

Mr. Robert A. Peterson
Senior Director, Engineering
Pedernales Electric Cooperative, Inc
P.O. Box 1
Johnson City, TX 78636-0001

RE: Leander-Parmer-Round Rock project

On June 10, 2014 the Electric Reliability Council of Texas (ERCOT) Board of Directors recommended the following Tier 1 transmission project as needed to support the reliability of the ERCOT Regional transmission system:

Leander-Parmer-Round Rock project:

- Construct a new Parmer 138 kV Substation
- Construct a new single circuit 138 kV line (approximately 12.6 miles) on a double circuit capable structure that connects the existing Leander and Round Rock substations to the new Parmer Substation with an emergency rating of approximately 446 MVA
- Add terminal equipment at the Leander and Round Rock substations for the new transmission line
- Upgrade the 138 kV bus at the Leander Substation

Additional details on this project are included in the Attachment A to this letter.

This project was supported throughout the ERCOT planning process, which included participation of all market segments through the ERCOT RPG. ERCOT's recommendation to the Board was reviewed by the ERCOT Regional Planning Group and the ERCOT Technical Advisory Committee (TAC). ERCOT staff looks forward to the successful completion of the work and is ready to assist you with any planning and operations related activities.

Should you have any questions please contact me at any time.

Sincerely,

Warren Lasher
Director System Planning

cc:
Shawnee Claiborn-Pinto, PUCT
Trip Doggett, ERCOT
Ken MyIntyre, ERCOT
Jeff Billo, ERCOT

ERCOT Independent Review of the Leander – Parmer – Round Rock Project

Version 1.0

Document Revisions

Date	Version	Description	Author(s)
05/22/2014	1.0	Final	Ying Li
		Reviewed by	Prabhu Gnanam, Jeff Billo

TABLE OF CONTENTS

1. Introduction

Electric load in western Williamson County, that includes the cities of Leander and Cedar Park, is projected to experience significant growth. From 2002 to 2012, the summer peak load in the area has grown from approximately 183 MW to 360 MW. The summer peak load is forecasted to be 575 MW in 2022 which is an increase of 59% from the actual 2012 load. According to Pedernales Electric Cooperative (PEC) assessments, the existing distribution system cannot serve the forecasted load growth in the area since substation transformers and feeders will overload and distribution-only upgrades are not feasible solutions to address this reliability of service problem. PEC has identified a need to create two new transmission-to-distribution substations to serve the growing load in the area. One substation, which is needed by 2019, is to be located near the intersection of Parmer Lane and Highway 1431 and is referred to as Parmer substation in this report. The other substation, which is needed by 2020, is to be located near the intersection of East Crystal Falls Parkway and Ronald Reagan Boulevard. The existing transmission system surrounding the locations of these two load areas consist of a 138 kV transmission line that parallels Highway 183, a 138 kV line that parallels Highway 45, and a 138 kV line that parallel Interstate 35. There are no transmission sources near these locations to serve the new substations needed in this area. Figure 1 shows the map of the existing transmission system in the study area.

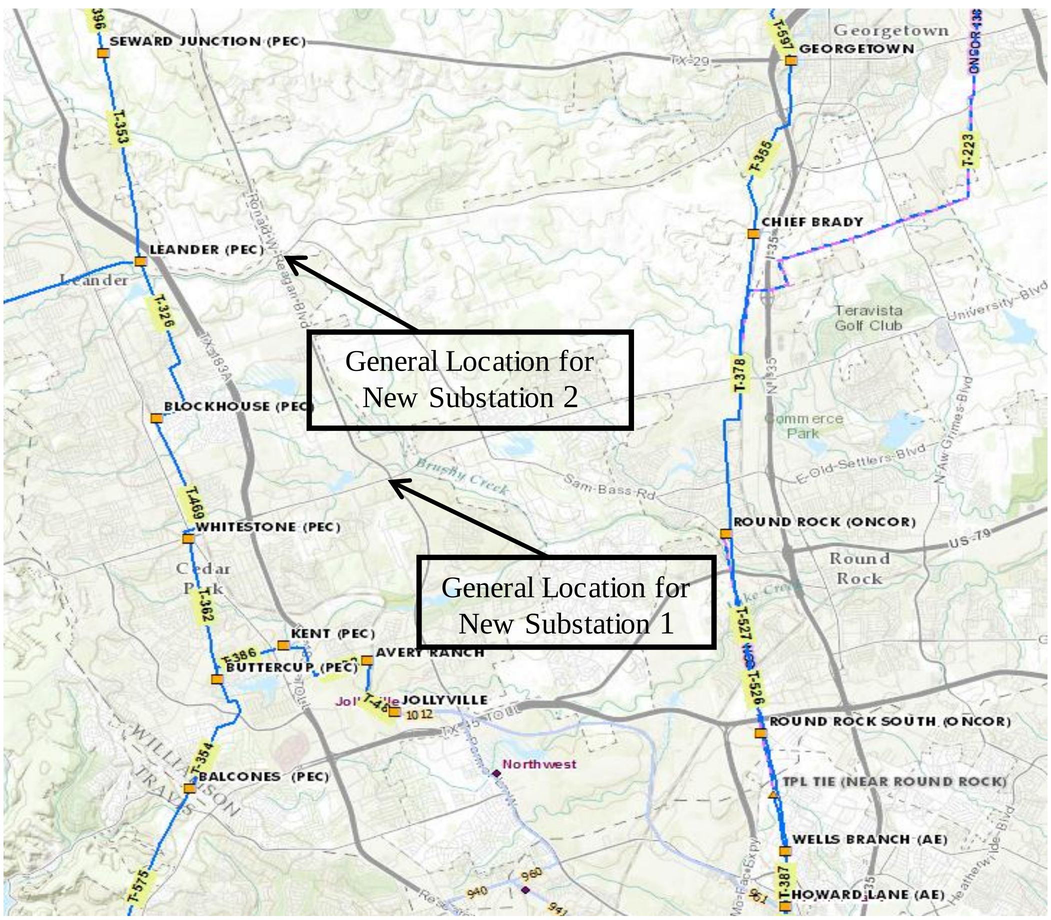

Figure 1: Existing transmission system in Western Williamson County

To meet the significant load growth in the area, Parmer Substation needs to be created by 2019. Accordingly, new transmission lines have to be added to serve the load at Parmer Substation by 2019. Additionally, the LCRA Transmission Services Corporation (LCRA) identified thermal overload and voltage criteria violations on the existing transmission system in the area.

In an effort to serve the new substations and relieve the reliability criteria violations in the western Williamson County area, LCRA and PEC proposed the following transmission improvements:

- Construct a new Parmer Substation.
- Construct a 138 kV transmission line (approximately 12.6 miles) with an emergency rating of approximately 440 MVA connecting the existing Leander and Round Rock substations to the new Parmer Substation.
- Add terminal equipment at the existing Leander and Round Rock substations for the new transmission line.
- Upgrade the 138 kV bus at the Leander Substation.

This project was submitted as a Tier 1 project with an estimated cost of $50.9 million. ERCOT analyzed the system needs and reviewed the proposed project along with several other alternative projects. The need for the addition of a new load serving substation in an area near the intersection of East Crystal Falls Parkway and Ronald Reagan Boulevard was not analyzed in this review since the decision to proceed with the construction of this facility does not need to be made at this time.

2. Study Approach

2.1 Study Base Case

ERCOT used the 2018 SE summer peak case built for the 2013 Regional Transmission Plan (RTP) in order to create a study base case for 2019. The 2019 load forecast from LCRA for the substations in the study area was applied to the case. Based on the result of the 2013 RTP, two new Tier 4 transmission upgrades in the study area were modeled to create the study case:

- Avery Ranch – Jollyville 138 kV transmission line upgrade
- Marshall Ford – Lago Vista 138 kV transmission line upgrade

ERCOT also analyzed 2022 conditions in the study area. For the 2022 load level study, ERCOT used the latest 2020 SSC summer peak case built for the 2014 RTP. The 2022 load forecast from LCRA for the substations in the study area was applied to the case. Table 1 summarizes the area substation loads.

Table 1: Summary of Loads in the study area

Bus Number	Substation	2019 Load (MW)	2022 Load (MW)
7524	Seward Junction	28.8	33.1
7525	Leander	61.8	58.0
7527	Blockhouse	54.9	62.4
7529	Whitestone	67.0	77.0
7530	Kent street	35.3	40.5
7531	Buttercup	66.3	75.4
7533	Balcones	90.7	102.4
7534	Avery Ranch	69.0	80.1
7367	Parmer	28.4	45.8
	Total Load	**502**	**575**

2.2 Study Criteria

The criteria applied for the AC power flow analyses are consistent with the ERCOT Planning Guide 4.1.1.2 and the 2013 RTP. For the reliability analysis, the following limits were enforced:

- Rate A under pre-contingency conditions for 60 kV and above transmission lines and transformers with a low side voltage of 60 kV and above
- Rate B under post-contingency conditions for 60 kV and above transmission lines and transformers with a low side voltage of 60 kV and above
- 0.95 pu voltage under pre-contingency conditions for 100 kV and above transmission lines and transformers with a low side voltage of 100 kV and above
- 0.90 pu voltage under post-contingency conditions for 100 kV and above transmission lines and transformers with a low side voltage of 100 kV and above

2.3 Tools

ERCOT utilized the following software tools for the independent review of the Leander - Parmer project:

- PowerWorld version 17 with SCOPF was used for AC power flow analysis
- VSAT and PSAT version 11 were used to perform power transfer analysis
- UPLAN version 8.12.0.9073 was used to perform security-constrained economic analysis

2.4 Base Case Study Results

Both thermal and voltage analyses were performed using the 2019 and 2022 study cases. No reliability issues were identified in 2019. Both thermal overloads and low voltages were identified in 2022 under G-1+N-1 contingency conditions as shown in table 2 and table 3 (under the G-1+N-1 condition for the loss of the largest Ferguson unit).

Table 2: Thermal overloads in 2022 forecasted peak load under G-1+N-1

Branch	Contingency	Loading in 2022
Lago Vista – Nameless 138 kV	Whitestone – Buttercup 138 kV	106.7%
Hutto – Round Rock NE 138 kV ckt 2	Techridge – Howard Lane 138 kV	103.4%

Table 3: Low voltages in 2022 forecasted peak load under G-1+N-1

Bus Name	Contingency	Bus Voltage in 2022
Whitestone 138 kV	Whitestone – Buttercup 138 kV	0.89 pu
Blockhouse 138 kV	Whitestone – Buttercup 138 kV	0.89 pu
Leander 138 kV	Whitestone – Buttercup 138 kV	0.89 pu
Seward Junction 138 kV	Whitestone – Buttercup 138 kV	0.89 pu
Round Rock NE 138 kV	Hutto – Round Rock NE 138kV ckt 1	0.89 pu

3. Description of Project Alternatives

To address the load growth and the reliability need in the area, thirteen project alternatives were studied, these options are discussed below.

A 32 MVar of capacitor bank was added at Seward Junction to during the evaluation of each study option to address the low voltage issues along the Andice, Seward Junction and Parmer substations.

Option 1 - Chief Brady - Parmer - Whitestone 138 kV transmission line

- Construct a new Parmer 138 kV Substation in Williamson County.
- Construct a new single circuit 138 kV line (approximately 14.8 miles) on a double circuit capable structure that connects the existing Chief Brady and Whitestone substations to the new Parmer Substation with an emergency rating of at least 446 MVA.
- Add terminal equipment at the Chief Brady and Whitestone substations for new transmission line.
- Upgrade the existing Round Rock to Chief Brady 138 kV transmission line to achieve an emergency rating of at least 446 MVA.

The estimated cost for Option 1 is $ 62.3 million.

Option 2 – Chief Brady - Parmer - Avery Ranch 138 kV transmission line

- Construct a new Parmer 138 kV Substation in Williamson County.
- Construct a new single circuit 138 kV line (approximately 14.8 miles) on a double circuit capable structure that connects the existing Chief Brady and Avery Ranch substations to the new Parmer Substation with an emergency rating of at least 446 MVA.
- Add terminal equipment at the Chief Brady and Avery Ranch substations for new transmission line.

- Upgrade the existing Round Rock to Chief Brady 138 kV transmission line to achieve an emergency rating of at least 446 MVA.

The estimated cost for Option 2 is $60.9 million.

Option 3 – Chief Brady - Parmer - Jollyville 138 kV transmission line

- Construct a new Parmer Substation in Williamson County.
- Construct a new single circuit 138 kV line (approximately 15.8 miles) on a double circuit capable structure that connects the existing Chief Brady and Jollyville substations to the new Parmer Substation with an emergency rating of at least 446 MVA.
- Add terminal equipment at the Chief Brady and Jollyville substations for new transmission line.

The estimated cost for Option 3 is $63.6 million.

Option 4 – Seward Junction - Parmer - Avery Ranch 138 kV transmission line

- Construct a new Parmer Substation in Williamson County.
- Construct a new single circuit 138 kV line (approximately 14.1 miles) on a double circuit capable structure that connects the existing Seward Junction and Avery Ranch substations to the new Parmer Substation with an emergency rating of at least 446 MVA.
- Add terminal equipment at the Seward Junction and Avery Ranch substations for new transmission line.

The estimated cost for Option 4 is $54.0 million.

Option 5 – Seward Junction - Parmer - Jollyville 138 kV transmission line

- Construct a new Parmer Substation in Williamson County.
- Construct a new single circuit 138 kV line (approximately 15.1 miles) on a double circuit capable structure that connects the existing Seward Junction and Jollyville substations to the new Parmer Substation with an emergency rating of at least 446 MVA.
- Add terminal equipment at the Seward Junction and Jollyville substations for new transmission line.

The estimated cost for Option 5 is $56.8 million.

Option 6 – Seward Junction - Parmer - Round Rock 138 kV transmission line

- Construct a new Parmer Substation in Williamson County.
- Construct a new single circuit 138 kV line (approximately 16.5 miles) on a double circuit capable structure that connects the existing Seward Junction and Round Rock substations to the new Parmer Substation with an emergency rating of at least 446 MVA.
- Add terminal equipment at the Seward Junction and Round Rock substations for new transmission line.

The estimated cost for Option 6 is $61.9 million.

Option 7 – Leander - Parmer - Avery Ranch 138 kV transmission line

- Construct a new Parmer Substation in Williamson County.
- Construct a new single circuit 138 kV line (approximately 10.3 miles) on a double circuit capable structure that connects the existing Leander and Avery Ranch substations to the new Parmer Substation with an emergency rating of at least 446 MVA.
- Add terminal equipment at the Leander and Avery Ranch substations for new transmission line.

The estimated cost for Option 7 is $43.1 million.

Option 8 – Leander - Parmer - Jollyville 138 kV transmission line

- Construct a new Parmer Substation in Williamson County.
- Construct a new single circuit 138 kV line (approximately 11.4 miles) on a double circuit capable structure that connects the existing Leander and Jollyville substations to the new Parmer Substation with an emergency rating of at least 446 MVA.
- Add terminal equipment at the Leander and Jollyville substations for new transmission line.

The estimated cost for Option 8 is $46.2 million.

Option 9 – Leander - Parmer - Chandler 138 kV transmission line

- Construct a new Parmer Substation in Williamson County.
- Construct a new Chandler Substation along the existing Chief Brady to Round Rock 138 kV transmission line.
- Construct a new single circuit 138 kV line (approximately 13.5 miles) on a double circuit capable structure that connects the existing Leander Substation and new Chandler Substation to the new Parmer Substation with an emergency rating of at least 446 MVA.
- Add terminal equipment at the Leander Substation for new transmission line.
- Upgrade the existing Round Rock to Chief Brady 138 kV transmission line between Round Rock and the new Chandler Substation to achieve an emergency rating of at least 446 MVA.

The estimated cost for Option 9 is $54.4 million.

Option 10 – Leander - Parmer - Round Rock South 138 kV line

- Construct a new Parmer Substation in Williamson County.
- Construct a new single circuit 138 kV line (approximately 15.4 miles) on a double circuit capable structure that connects the existing Leander and Round Rock South substations to the new Parmer Substation with an emergency rating of at least 446 MVA.

- Add terminal equipment at the Leander and Round Rock South substations for new transmission line.

The estimated cost for Option 10 is $77.5 million.

Option 11 – Leander - Parmer - Round Rock 138 kV line (LCRA proposed Option)

- Construct a new Parmer Substation in Williamson County.
- Construct a new single circuit 138 kV line (approximately 12.6 miles) on a double circuit capable structure that connects the existing Leander and Round Rock substations to the new Parmer Substation with an emergency rating of at least 446 MVA.
- Add terminal equipment at the Leander and Round Rock substations for new transmission line.

The estimated cost for Option 11 is $50.9 million.

Option 12 – Leander - Parmer - Chief Brady 138 kV transmission line

- Construct a new Parmer Substation in Williamson County.
- Construct a new single circuit 138 kV line (approximately 14.8 miles) on a double circuit capable structure that connects the existing Leander and Chief Brady substations to the new Parmer Substation with an emergency rating of at least 446 MVA.
- Add terminal equipment at the Leander and Chief Brady substations for new transmission line.
- Upgrade the existing Round Rock to Chief Brady 138 kV transmission line to achieve an emergency rating of at least 446 MVA.

The estimated cost for Option 12 is $63.7 million.

Option 13 – Leander - Parmer - Westinghouse South 138 kV transmission line

- Construct a new Parmer Substation in Williamson County.
- Construct a new Westinghouse South Substation along the existing Westinghouse to Westinghouse Tap 138 kV transmission line.
- Construct a new single circuit 138 kV line (approximately 13.5 miles) on a double circuit capable structure that connects the existing Leander Substation and new Westinghouse South Substation to the new Parmer Substation with an emergency rating of at least 446 MVA.
- Add terminal equipment at the Leander Substation for new transmission line.

The estimated cost for Option 13 is $52.4 million.

Table 4: Summary of the Options studied

Option	From Bus of New Line	To Bus of New Line	Project Cost ($ Million)	Approximate Length (miles)
1	Chief Brady	Whitestone	62.3	14.8
2	Chief Brady	Avery Ranch	60.9	14.8
3	Chief Brady	Jollyville	63.6	15.8
4	Avery Ranch	Seward Junction	54.0	14.1
5	Jollyville	Seward Junction	56.8	15.1
6	Round Rock	Seward Junction	61.9	16.5
7	Avery Ranch	Leander	43.1	10.3
8	Jollyville	Leander	46.2	11.4
9	Chandler	Leander	54.4	13.5
10	Round Rock S	Leander	77.5	15.4
11	Round Rock	Leander	50.9	12.6
12	Chief Brady	Leander	63.7	14.8
13	Westinghouse S	Leander	52.4	13.5

4. Evaluation of Study Options

4.1 Reliability Analysis

All the analysis was performed under the G-1+N-1 contingency conditions. The loss of a Ferguson unit constitutes to the most limiting G-1 contingency condition in the study area. Table 5 and Table 6 show the transmission line loadings in 2019 and 2022. The full contingency analysis results for 2019 and 2022 are provided in Appendix A and B respectively.

Table 5: Top Transmission Line Loadings in 2019 under G-1+N-1

Option	From Bus of New Line	To Bus of New Line	Hutto – Round Rock NE 138 kV	Lago Vista – Nameless 138 kV
Base Case			< 92%	92.7%
1	Chief Brady	Whitestone	< 92%	< 92%
2	Chief Brady	Avery Ranch	< 92%	< 92%
3	Chief Brady	Jollyville	93.3%	< 92%
4	Avery Ranch	Seward Junction	< 92%	< 92%
5	Jollyville	Seward Junction	< 92%	< 92%
6	Round Rock	Seward Junction	96.8%	< 92%
7	Avery Ranch	Leander	< 92%	< 92%
8	Jollyville	Leander	< 92%	< 92%
9	Chandler	Leander	96.9%	< 92%
10	Round Rock S	Leander	93.9%	< 92%
11	Round Rock	Leander	98.9%	< 92%
12	Chief Brady	Leander	95.0%	< 92%
13	Westinghouse S	Leander	94.2%	< 92%

Table 6: Top Transmission Line Loadings in 2022 under G-1+N-1

Option	From Bus of New Line	To Bus of New Line	Hutto – Round Rock NE 138 kV	Lago Vista – Nameless 138 kV	Howard Lane – Jollyville 138 kV	MarshallFord – Bullick Hollow138 kV
Base Case			103.4%	106.7%	88.7%	96.0%
1	Chief Brady	Whitestone	108.5%	< 92%	< 92%	< 92%
2	Chief Brady	Avery Ranch	108.6%	95.1%	< 92%	< 92%
3	Chief Brady	Jollyville	105.4%	94.7%	< 92%	< 92%
4	Avery Ranch	Seward Junction	105.2%	< 92%	92.9%	92.8%
5	Jollyville	Seward Junction	103.1%	< 92%	93.0%	< 92%
6	Round Rock	Seward Junction	111.4%	< 92%	< 92%	< 92%
7	Avery Ranch	Leander	103.8%	< 92%	92.1%	93.2%
8	Jollyville	Leander	103.1%	< 92%	93.8%	< 92%
9	Chandler	Leander	110.5%	< 92%	< 92%	< 92%
10	Round Rock S	Leander	107.9%	< 92%	< 92%	< 92%
11	Round Rock	Leander	113.7%	< 92%	< 92%	< 92%
12	Chief Brady	Leander	108.2%	< 92%	< 92%	< 92%
13	Westinghouse S	Leander	101.2%	< 92%	< 92%	< 92%

As shown in Table 6, Hutto – Round Rock NE 138 kV circuit # 2 overloads under the contingency loss of the Techridge – Howard Lane 138 kV line and Lago Vista – Nameless 138 kV overloads for the contingency loss of Whitestone – Buttercup 138 kV line in 2022 in the base case. None of the options studied would resolve the overload on the Hutto – Round Rock NE 138 kV circuit # 2 in 2022. Therefore, it was assumed that the Hutto – Round Rock NE 138 kV circuit # 2 needs to be upgraded by 2022 regardless of this project.

All the thirteen options effectively resolve the Lago Vista – Nameless 138 kV overload in 2022. Under Option 2 and Option 3, the loading on Lago Vista – Nameless 138 kV is relatively high (close to 95%) under the contingency loss of Whitestone – Buttercup 138 kV line in 2022 and any load increase in the area could overload the Lago Vista – Nameless 138 kV beyond 2022.

The study results also showed that the alternatives that terminate at Jollyville and Avery Ranch (Option 4, Option 5, Option 7 and Option 8) would result in an increase in the loading on the Howard Lane - Jollyville 138 kV line by about 4% under the contingency loss of Williamson – Northwest 138 kV line. While the alternatives that terminate near Round Rock would reduce the loading on the Howard Lane - Jollyville 138 kV line by about 15%.

Under Option 4 and Option 7, the Marshall Ford – Bullick Hollow 138 kV line would be overloaded under the contingency loss of Avery Ranch – Jollyville 138 kV line if the area loads increase to around 640 MW.

A power transfer analysis was conducted for each option to evaluate the capability to support the future load growth in the study area. For transfer analysis, load in the study area was incrementally scaled up to simulate the continued load growth in the region. Table 7 shows the power transfer analysis results at the point thermal overload observed.

Table 7: Power Transfer Analysis Results under G-1+N-1

Option	From Bus of New Line	To Bus of New Line	Max Transfer (MW)	Transfer Limit	
				Violation	Contingency
1	Chief Brady	Whitestone	730	Blockhouse – Whitestone 138 kV	Gabriel – Glasscock 138 kV
2	Chief Brady	Avery Ranch	635	Lago Vista – Nameless 138 kV	Buttercup – Whitestone 138 kV
3	Chief Brady	Jollyville	630	Lago Vista – Nameless 138 kV	Buttercup – Whitestone 138 kV
4	Avery Ranch	Seward Junction	640	Marshall Ford – Bullick Hollow 138 kV	Avery Ranch – Jollyville 138 kV
5	Jollyville	Seward Junction	668	Howard Lane – Jollyville 138 kV	Williamson - Northwest 138 kV
6	Round Rock	Seward Junction	750	Seward Junction – Leander 138 kV	Avery Ranch – Jollyville 138 kV
7	Avery Ranch	Leander	640	Marshall Ford – Bullick Hollow 138 kV	Avery Ranch – Jollyville 138 kV
8	Jollyville	Leander	666	Howard Lane – Jollyville 138 kV	Williamson - Northwest 138 kV
9	Chandler	Leander	702	Leander – Blockhouse 138 kV	Avery Ranch – Jollyville 138 kV
10	Round Rock S	Leander	690	Leander – Blockhouse 138 kV	Avery Ranch – Jollyville 138 kV
11	Round Rock	Leander	660	Leander – Blockhouse 138 kV	Avery Ranch – Jollyville 138 kV
12	Chief Brady	Leander	750	Leander – Blockhouse 138 kV	Avery Ranch – Jollyville 138 kV
13	Westinghouse	Leander	645	Round Rock – Round Rock WH 138 kV	Avery Ranch – Jollyville 138 kV

Based on the transfer capability analysis, it is concluded that all three least cost options (Option 7, Option 8, and Option 11) would provide similar transfer capability in the area under G-1+N-1 contingency conditions.

ERCOT also performed the system loss analysis using the 2019 study base case (summer peak case) to capture the benefit of transmission efficiency improvement for each option. The amount of loss reduction is shown in Table 8 indicating loss reduction realized for each of the select options during the peak hour.

Table 8: Transmission System loss reduction in 2019

Option	From Bus of New Line	To Bus of New Line	Transmission System Loss reduction (MW)
1	Chief Brady	Whitestone	20.9
2	Chief Brady	Avery Ranch	0.4
3	Chief Brady	Jollyville	20.0
4	Avery Ranch	Seward Junction	19.4
5	Jollyville	Seward Junction	1.4
6	Round Rock	Seward Junction	21.8
7	Avery Ranch	Leander	19.6
8	Jollyville	Leander	20.0
9	Chandler	Leander	2.8
10	Round Rock S	Leander	22.3
11	Round Rock	Leander	21.7
12	Chief Brady	Leander	21.2
13	Westinghouse S	Leander	20.6

4.2 Sensitivity Study

LCRA indicated that some of the options might need to consider the paralleling of the new transmission line with portions of existing 138 kV circuits in the area. This would create the potential for new double circuit contingencies; specifically for options 4, 5, 6, 7, 8 and 11. These options were further evaluated to determine the impact to system reliability resulting from the potential new double contingency conditions. The potential double circuit contingencies were as follows for each of these options:

- Option 4: Buttercup – Whitestone and Parmer – Avery Ranch 138 kV lines
- Option 5: Buttercup – Whitestone and Parmer – Jollyville 138 kV lines
- Option 6: Round Rock – Chief Brady and Round Rock – Parmer 138 kV lines
- Option 7: Buttercup – Whitestone and Parmer – Avery Ranch 138 kV lines
- Option 8: Buttercup – Whitestone and Parmer – Jollyville 138 kV lines
- Option 11: Round Rock – Chief Brady and Round Rock – Parmer 138 kV lines

Table 9 shows the reliability study results in 2022 for the evaluated options considering the new double circuit contingencies. For Option 5 and Option 8, Lago Vista – Nameless 138 kV line would overload under the contingency loss of Buttercup – Whitestone and Parmer – Jollyville 138 kV double circuit in 2022. For Option 4 and Option 7, Lago Vista – Nameless 138 kV line would overload under the contingency loss of Buttercup – Whitestone and Parmer – Avery Ranch 138 kV double circuit in 2022. The potential double circuit contingency loss of Round Rock – Chief Brady and Round Rock – Parmer 138 kV line did not impact the results of Option 6 and Option 11 in 2022.

Table 9: Top Transmission Line Loadings in 2022 under G-1+N-1 for Sensitivity Study

Option	From Bus of New Line	To Bus of New Line	Hutto – Round Rock NE 138 kV	Lago Vista – Nameless 138 kV	Howard Lane – Jollyville 138 kV	Marshall Ford – Bullick Hollow 138 kV
Base Case			103.4%	106.7%	88.7%	96.0%
4	Avery Ranch	Seward Junction	105.2%	108.8%	92.9%	92.8%
5	Jollyville	Seward Junction	103.1%	109.0%	93.0%	< 92%
6	Round Rock	Seward Junction	111.4%	< 92%	< 92%	< 92%
7	Avery Ranch	Leander	103.8%	110.5%	92.1%	93.2%
8	Jollyville	Leander	103.1%	110.7%	93.8%	< 92%
11	Round Rock	Leander	113.7%	< 92%	< 92%	< 92%

4.3 Economic Analysis

Although the RPG project in this report is driven by a load-growth related reliability need, ERCOT also conducted an economic analysis to compare the relative performance of each selected option in terms of production cost savings.

Using the 2018 economic case built for the 2013 RTP, ERCOT modeled each selected option and performed production cost simulations for the year 2018 (the 2018 economic model was the latest year available at the time of the analysis). The annual production cost simulation results indicate that all the options would produce relatively similar production cost savings with no measurable impact on congestion.

5. Conclusion and Recommendation

Based on the review, ERCOT selected Option 11 as the preferred option to meet the projected load growth and reliability need in the area. Option 11 cost effectively met all of the reliability criteria and includes the following additional benefits:

- Provides a 138-kV transmission source into an area of Williamson County which has no transmission service and is forecasted to experience high load growth
- Will effectively reduce the east-to-west flows in the Austin Energy area as it is a direct parallel path for the Howard Lane – Jollyville line that also supports the area
- Allows for the flexibility of creating a Round Rock – Chief Brady, Round Rock – Parmer 138 kV double circuit if determined to be necessary for corridor utilization purposes

The following facilities constitute the preferred option:

- Construct a new Parmer Substation.
- Construct a new single circuit 138 kV line (approximately 12.6 miles) on a double circuit capable structure that connects the existing Leander and Round Rock substations to the new Parmer Substation with an emergency rating of approximately 446 MVA.
- Add terminal equipment at the Leander and Round Rock substations for the new transmission line.
- Upgrade the 138 kV bus at the Leander Substation.

6. Designated Provider of Transmission Facilities

In accordance with ERCOT Protocol Section 3.11.4.8, ERCOT staff is to designate transmission providers for projects reviewed in the RPG. The default providers will be those that own the end points of the new projects. These providers can agree to provide or delegate the new facilities or inform ERCOT if they do not elect to provide them. If different providers own the two ends of the recommended projects, ERCOT will designate them as co-providers and they can decide between themselves what parts of the recommended projects they will each provide.

PEC owns the Leander Substation and Oncor Electric Delivery owns the Round Rock Substation. PEC has delegated the 138 kV portion of the new Parmer Substation to LCRA Transmission Services Corporation. Therefore ERCOT designates PEC, LCRA Transmission Services Corporation and Oncor Electric Delivery as co-providers for the project scope recommended in this report.

7. Appendix

Appendix A: AC Contingency Analysis Result of 2019 Case (G-1+N-1 analysis)	Contingency analysis results 2019.xlsx
Appendix B: AC Contingency Analysis Result of 2022 Case (G-1+N-1 analysis)	Contingency analysis results 2022.xlsx

From: Billo, Jeffrey <Jeff.Billo@ercot.com>
Sent: Monday, July 27, 2015 3:35 PM
To: Charles DeWitt; Gnanam, Gnanaprabhu
Cc: Sergio Garza
Subject: [External] RE: Leander to Round Rock Transmission Line

Charles,

Thank you for the information. I have reviewed the update, and I do not believe it represents a significant change to the project.

Regards,

Jeff Billo
Sr. Manager, ERCOT Transmission Planning
Phone: 512-248-6334 Mobile: 512-905-4064

From: Charles DeWitt [mailto:Charles.DeWitt@LCRA.ORG]
Sent: Monday, July 06, 2015 2:08 PM
To: Billo, Jeffrey; Gnanam, Gnanaprabhu
Cc: Garza, Sergio
Subject: Leander to Round Rock Transmission Line

Jeff and Prabhu,

You will find a letter attached to this email providing an update for the Leander to Round Rock Project. We will send you the original in the mail.

Please call or email if you have any questions.

Sincerely,

Charles M. DeWitt, P.E.
Manager, Transmission Planning
Lower Colorado River Authority
P.O. Box 220
Austin, TX 78767-0220
email: charles.dewitt@lcra.org
Phone: 512-578-4199

ENERGY • WATER • COMMUNITY SERVICES

July 6, 2015

Jeff Billo
Sr. Manager, ERCOT Transmission Planning
Electric Reliability Council of Texas
2705 West Lake Drive
Taylor, TX 76574

Subject: Leander to Round Rock Transmission Line

Dear Mr. Billo,

In the time that has passed since the Leander to Round Rock transmission line was endorsed by the ERCOT Board of Directors in 2014, Pedernales Electric Cooperative (PEC) has determined that the new substation referred to as SE Leander in the 2015 ALDR is needed by 2020. The location of the substation is in the general proximity of a future substation that was incorporated into ERCOT's Independent Assessment of the Leander to Round Rock Project. The name of the future substation was New Substation 2 in ERCOT's Independent Assessment report. LCRA TSC is notifying you of this situation to keep you informed of developments although we do not believe that it constitutes a significant change as contemplated by ERCOT Nodal Protocols Section 3.11.4.10 Modifications to ERCOT Endorsed Projects.

Background
You may recall that the scope analyzed in ERCOT's Independent Assessment, dated 22 May 2014, included a future substation (New Substation 2) to be located near the intersection of East Crystal Falls Parkway and Ronald Regan Boulevard. The Independent Assessment evaluated years 2019 and 2022, considered that the load at New Substation 2 would be realized before the summer peak in 2022, and considered New Substation 2 as being common to all alternatives studied. Informed by this assessment, the ERCOT Board of Directors voted to endorse the project. ERCOT sent a letter to LCRA TSC dated 18 June 2014 informing LCRA TSC of the endorsement. New Substation 2 is referenced in the letter through inclusion of the Independent Assessment as Attachment A to the letter.

In its March 2015 ALDR filing, PEC provided load information for New Substation 2 beginning in 2020. The new substation is named SE Leander in the ALDR filing. The estimated cost allocated to transmission cost of service associated with New Substation 2 is $1.65 Million and is common to all alternatives considered in the ERCOT Independent Assessment.

Our review of the load provided in the ALDR shows that it is consistent with the load level provided in LCRA TSC's project submittal and the load used by ERCOT in its independent assessment for the year 2022.

Conclusion
Through ERCOT power flow cases and TPIT database updates, LCRA TSC will ensure this project's revised scope is communicated for appropriate modeling.

Sincerely,

Charles M. DeWitt, P.E. 67705

Charles M. DeWitt, P.E.
Manager, Transmission Planning

Leander to Round Rock CCN Application, Attachment 4
Estimated Costs for Transmission Line and Substation Facilities

Table 1: Transmission and Substation Facilities Total Estimated Costs

Route	Sub 1	Sub 2	Length (miles)	Estimated Total Cost	Right-of-Way & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)	Other
1	1-7	2-3	14.97	**$89,470,400**	$35,604,000	$6,461,000	$682,000	$18,185,700	$4,073,700	$23,272,000	$1,192,000
2	1-8	2-5	13.85	**$79,986,200**	$27,011,000	$6,321,800	$680,000	$16,444,000	$4,542,400	$23,406,000	$1,581,000
3	1-6	2-8	20.01	**$93,702,700**	$30,802,800	$6,871,600	$722,000	$19,968,200	$4,206,100	$28,694,000	$2,438,000
4	1-6	2-6	21.44	**$87,023,700**	$25,898,900	$6,941,100	$734,000	$19,815,900	$4,745,800	$26,897,000	$1,991,000
5	1-8	2-2	19.67	**$96,062,200**	$36,644,000	$6,882,200	$693,000	$17,943,100	$4,558,900	$26,379,000	$2,962,000
6	1-4	2-4	21.27	**$99,597,000**	$37,911,600	$7,025,100	$742,000	$18,938,800	$4,562,500	$27,119,000	$3,298,000
7	1-6	2-1	16.12	**$86,730,700**	$34,607,000	$6,615,500	$702,000	$16,998,000	$4,449,200	$21,763,000	$1,596,000
8	1-3	2-6	12.85	**$75,310,500**	$26,487,900	$6,460,000	$668,000	$16,187,400	$4,913,200	$18,828,000	$1,766,000
9	1-5	2-7	13.48	**$77,240,500**	$27,256,300	$6,289,100	$672,000	$16,144,600	$4,392,500	$20,509,000	$1,977,000
10	1-5	2-7	12.55	**$79,871,500**	$26,963,300	$6,220,100	$675,000	$16,348,600	$4,392,500	$22,721,000	$2,551,000
11	1-8	2-5	12.04	**$75,801,200**	$25,466,000	$6,233,800	$666,000	$15,551,000	$4,542,400	$21,420,000	$1,922,000
12	1-8	2-5	11.93	**$78,231,200**	$27,475,000	$6,223,800	$663,000	$15,653,000	$4,542,400	$21,617,000	$2,057,000
13	1-2	2-4	14.65	**$70,228,200**	$22,722,600	$6,689,600	$684,000	$14,874,100	$4,572,900	$17,970,000	$2,715,000
14	1-2	2-4	14.47	**$81,313,200**	$33,240,600	$6,674,600	$677,000	$15,017,100	$4,572,900	$18,246,000	$2,885,000
15	1-1	2-4	13.83	**$82,596,200**	$31,078,600	$6,564,000	$656,000	$16,994,700	$4,618,900	$20,098,000	$2,586,000
16	1-5	2-2	16.22	**$95,715,500**	$39,056,000	$6,677,900	$728,000	$17,180,000	$4,493,600	$24,739,000	$2,841,000
17	1-3	2-2	12.88	**$81,963,500**	$29,925,000	$6,535,800	$660,000	$16,746,500	$4,710,200	$21,019,000	$2,367,000
18	1-8	2-6	15.12	**$70,149,200**	$20,198,900	$6,412,400	$698,000	$15,987,000	$4,761,900	$20,127,000	$1,964,000
19	1-8	2-6	15.02	**$77,414,200**	$27,271,900	$6,404,400	$694,000	$16,017,000	$4,761,900	$20,234,000	$2,031,000
20	1-8	2-6	14.45	**$78,608,200**	$27,915,900	$6,390,400	$687,000	$16,104,000	$4,761,900	$21,309,000	$1,440,000
21	1-8	2-6	15.53	**$78,981,200**	$26,924,900	$6,464,400	$696,000	$16,149,000	$4,761,900	$21,185,000	$2,800,000
22	1-8	2-6	15.66	**$81,983,200**	$26,179,900	$6,475,400	$692,000	$17,062,000	$4,761,900	$23,870,000	$2,942,000
23	1-3	2-7	14.83	**$88,723,500**	$30,394,300	$6,569,000	$700,000	$17,981,100	$4,609,100	$25,133,000	$3,337,000
24	1-3	2-7	14.92	**$83,972,500**	$26,517,300	$6,576,000	$698,000	$17,762,100	$4,609,100	$24,669,000	$3,141,000
25	1-7	2-6	14.63	**$67,786,400**	$18,013,900	$6,452,700	$677,000	$17,244,700	$4,293,100	$19,141,000	$1,964,000
26	1-7	2-6	14.53	**$75,051,400**	$25,086,900	$6,444,700	$673,000	$17,274,700	$4,293,100	$19,248,000	$2,031,000
27	1-7	2-6	14.88	**$75,096,400**	$23,506,900	$6,464,700	$694,000	$17,484,700	$4,293,100	$21,016,000	$1,637,000
28	1-7	2-6	14.78	**$82,361,400**	$30,579,900	$6,456,700	$690,000	$17,514,700	$4,293,100	$21,123,000	$1,704,000
29	1-7	2-6	15.38	**$82,750,400**	$32,723,900	$6,506,700	$702,000	$17,578,700	$4,293,100	$19,570,000	$1,376,000
30	1-7	2-6	15.50	**$90,706,400**	$38,392,900	$6,504,700	$694,000	$18,026,700	$4,293,100	$21,642,000	$1,153,000
31	1-7	2-8	13.74	**$72,627,400**	$23,767,800	$6,422,200	$684,000	$17,341,000	$3,753,400	$19,074,000	$1,585,000

Table 2: Transmission and Substation Facilities Total Estimated Costs (Sorted Least to Most Expensive)

Route	Sub 1	Sub 2	Length (miles)	Estimated Total Cost	Right-of-Way & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)	Other
25	1-7	2-6	14.63	**$67,786,400**	$18,013,900	$6,452,700	$677,000	$17,244,700	$4,293,100	$19,141,000	$1,964,000
18	1-8	2-6	15.12	**$70,149,200**	$20,198,900	$6,412,400	$698,000	$15,987,000	$4,761,900	$20,127,000	$1,964,000
13	1-2	2-4	14.65	**$70,228,200**	$22,722,600	$6,689,600	$684,000	$14,874,100	$4,572,900	$17,970,000	$2,715,000
31	1-7	2-8	13.74	**$72,627,400**	$23,767,800	$6,422,200	$684,000	$17,341,000	$3,753,400	$19,074,000	$1,585,000
26	1-7	2-6	14.53	**$75,051,400**	$25,086,900	$6,444,700	$673,000	$17,274,700	$4,293,100	$19,248,000	$2,031,000
27	1-7	2-6	14.88	**$75,096,400**	$23,506,900	$6,464,700	$694,000	$17,484,700	$4,293,100	$21,016,000	$1,637,000
8	1-3	2-6	12.85	**$75,310,500**	$26,487,900	$6,460,000	$668,000	$16,187,400	$4,913,200	$18,828,000	$1,766,000
11	1-8	2-5	12.04	**$75,801,200**	$25,466,000	$6,233,800	$666,000	$15,551,000	$4,542,400	$21,420,000	$1,922,000
9	1-5	2-7	13.48	**$77,240,500**	$27,256,300	$6,289,100	$672,000	$16,144,600	$4,392,500	$20,509,000	$1,977,000
19	1-8	2-6	15.02	**$77,414,200**	$27,271,900	$6,404,400	$694,000	$16,017,000	$4,761,900	$20,234,000	$2,031,000
12	1-8	2-5	11.93	**$78,231,200**	$27,475,000	$6,223,800	$663,000	$15,653,000	$4,542,400	$21,617,000	$2,057,000
20	1-8	2-6	14.45	**$78,608,200**	$27,915,900	$6,390,400	$687,000	$16,104,000	$4,761,900	$21,309,000	$1,440,000
21	1-8	2-6	15.53	**$78,981,200**	$26,924,900	$6,464,400	$696,000	$16,149,000	$4,761,900	$21,185,000	$2,800,000
10	1-5	2-7	12.55	**$79,871,500**	$26,963,300	$6,220,100	$675,000	$16,348,600	$4,392,500	$22,721,000	$2,551,000
2	1-8	2-5	13.85	**$79,986,200**	$27,011,000	$6,321,800	$680,000	$16,444,000	$4,542,400	$23,406,000	$1,581,000
14	1-2	2-4	14.47	**$81,313,200**	$33,240,600	$6,674,600	$677,000	$15,017,100	$4,572,900	$18,246,000	$2,885,000
17	1-3	2-2	12.88	**$81,963,500**	$29,925,000	$6,535,800	$660,000	$16,746,500	$4,710,200	$21,019,000	$2,367,000
22	1-8	2-6	15.66	**$81,983,200**	$26,179,900	$6,475,400	$692,000	$17,062,000	$4,761,900	$23,870,000	$2,942,000
28	1-7	2-6	14.78	**$82,361,400**	$30,579,900	$6,456,700	$690,000	$17,514,700	$4,293,100	$21,123,000	$1,704,000
15	1-1	2-4	13.83	**$82,596,200**	$31,078,600	$6,564,000	$656,000	$16,994,700	$4,618,900	$20,098,000	$2,586,000
29	1-7	2-6	15.38	**$82,750,400**	$32,723,900	$6,506,700	$702,000	$17,578,700	$4,293,100	$19,570,000	$1,376,000
24	1-3	2-7	14.92	**$83,972,500**	$26,517,300	$6,576,000	$698,000	$17,762,100	$4,609,100	$24,669,000	$3,141,000
7	1-6	2-1	16.12	**$86,730,700**	$34,607,000	$6,615,500	$702,000	$16,998,000	$4,449,200	$21,763,000	$1,596,000
4	1-6	2-6	21.44	**$87,023,700**	$25,898,900	$6,941,100	$734,000	$19,815,900	$4,745,800	$26,897,000	$1,991,000
23	1-3	2-7	14.83	**$88,723,500**	$30,394,300	$6,569,000	$700,000	$17,981,100	$4,609,100	$25,133,000	$3,337,000
1	1-7	2-3	14.97	**$89,470,400**	$35,604,000	$6,461,000	$682,000	$18,185,700	$4,073,700	$23,272,000	$1,192,000
30	1-7	2-6	15.50	**$90,706,400**	$38,392,900	$6,504,700	$694,000	$18,026,700	$4,293,100	$21,642,000	$1,153,000
3	1-6	2-8	20.01	**$93,702,700**	$30,802,800	$6,871,600	$722,000	$19,968,200	$4,206,100	$28,694,000	$2,438,000
16	1-5	2-2	16.22	**$95,715,500**	$39,056,000	$6,677,900	$728,000	$17,180,000	$4,493,600	$24,739,000	$2,841,000
5	1-8	2-2	19.67	**$96,062,200**	$36,644,000	$6,882,200	$693,000	$17,943,100	$4,558,900	$26,379,000	$2,962,000
6	1-4	2-4	21.27	**$99,597,000**	$37,911,600	$7,025,100	$742,000	$18,938,800	$4,562,500	$27,119,000	$3,298,000

Table 3: Transmission Facilities Estimated Total Costs

Route	Sub 1	Sub 2	Length (miles)	Estimated Total Cost	Right-of-Way & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)	Other
1	1-7	2-3	14.97	**$72,471,000**	$33,354,000	$3,739,000	$682,000	$10,232,000	$0	$23,272,000	$1,192,000
2	1-8	2-5	13.85	**$63,790,000**	$24,508,000	$3,655,000	$680,000	$9,960,000	$0	$23,406,000	$1,581,000
3	1-6	2-8	20.01	**$77,299,000**	$28,568,000	$4,129,000	$722,000	$12,748,000	$0	$28,694,000	$2,438,000
4	1-6	2-6	21.44	**$70,689,000**	$23,899,000	$4,234,000	$734,000	$12,934,000	$0	$26,897,000	$1,991,000
5	1-8	2-2	19.67	**$79,573,000**	$34,141,000	$4,113,000	$693,000	$11,285,000	$0	$26,379,000	$2,962,000
6	1-4	2-4	21.27	**$83,378,000**	$35,561,000	$4,243,000	$742,000	$12,415,000	$0	$27,119,000	$3,298,000
7	1-6	2-1	16.12	**$70,361,000**	$32,104,000	$3,806,000	$702,000	$10,390,000	$0	$21,763,000	$1,596,000
8	1-3	2-6	12.85	**$58,205,000**	$24,488,000	$3,636,000	$668,000	$8,819,000	$0	$18,828,000	$1,766,000
9	1-5	2-7	13.48	**$62,324,000**	$25,668,000	$3,683,000	$672,000	$9,815,000	$0	$20,509,000	$1,977,000
10	1-5	2-7	12.55	**$64,955,000**	$25,375,000	$3,614,000	$675,000	$10,019,000	$0	$22,721,000	$2,551,000
11	1-8	2-5	12.04	**$59,605,000**	$22,963,000	$3,567,000	$666,000	$9,067,000	$0	$21,420,000	$1,922,000
12	1-8	2-5	11.93	**$62,035,000**	$24,972,000	$3,557,000	$663,000	$9,169,000	$0	$21,617,000	$2,057,000
13	1-2	2-4	14.65	**$53,699,000**	$20,372,000	$3,718,000	$684,000	$8,240,000	$0	$17,970,000	$2,715,000
14	1-2	2-4	14.47	**$64,784,000**	$30,890,000	$3,703,000	$677,000	$8,383,000	$0	$18,246,000	$2,885,000
15	1-1	2-4	13.83	**$66,137,000**	$28,728,000	$3,684,000	$656,000	$10,385,000	$0	$20,098,000	$2,586,000
16	1-5	2-2	16.22	**$79,364,000**	$36,553,000	$3,920,000	$728,000	$10,583,000	$0	$24,739,000	$2,841,000
17	1-3	2-2	12.88	**$64,562,000**	$27,422,000	$3,630,000	$660,000	$9,464,000	$0	$21,019,000	$2,367,000
18	1-8	2-6	15.12	**$53,956,000**	$18,199,000	$3,725,000	$698,000	$9,243,000	$0	$20,127,000	$1,964,000
19	1-8	2-6	15.02	**$61,221,000**	$25,272,000	$3,717,000	$694,000	$9,273,000	$0	$20,234,000	$2,031,000
20	1-8	2-6	14.45	**$62,415,000**	$25,916,000	$3,703,000	$687,000	$9,360,000	$0	$21,309,000	$1,440,000
21	1-8	2-6	15.53	**$62,788,000**	$24,925,000	$3,777,000	$696,000	$9,405,000	$0	$21,185,000	$2,800,000
22	1-8	2-6	15.66	**$65,790,000**	$24,180,000	$3,788,000	$692,000	$10,318,000	$0	$23,870,000	$2,942,000
23	1-3	2-7	14.83	**$72,757,000**	$28,806,000	$3,815,000	$700,000	$10,966,000	$0	$25,133,000	$3,337,000
24	1-3	2-7	14.92	**$68,006,000**	$24,929,000	$3,822,000	$698,000	$10,747,000	$0	$24,669,000	$3,141,000
25	1-7	2-6	14.63	**$50,790,000**	$16,267,000	$3,710,000	$677,000	$9,031,000	$0	$19,141,000	$1,964,000
26	1-7	2-6	14.53	**$58,055,000**	$23,340,000	$3,702,000	$673,000	$9,061,000	$0	$19,248,000	$2,031,000
27	1-7	2-6	14.88	**$58,100,000**	$21,760,000	$3,722,000	$694,000	$9,271,000	$0	$21,016,000	$1,637,000
28	1-7	2-6	14.78	**$65,365,000**	$28,833,000	$3,714,000	$690,000	$9,301,000	$0	$21,123,000	$1,704,000
29	1-7	2-6	15.38	**$65,754,000**	$30,977,000	$3,764,000	$702,000	$9,365,000	$0	$19,570,000	$1,376,000
30	1-7	2-6	15.50	**$73,710,000**	$36,646,000	$3,762,000	$694,000	$9,813,000	$0	$21,642,000	$1,153,000
31	1-7	2-8	13.74	**$55,562,000**	$21,786,000	$3,644,000	$684,000	$8,789,000	$0	$19,074,000	$1,585,000

Table 4: Substation 1 Facilities Estimated Total Costs

Sub Site	Estimated Total Cost	Right-of-Way & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)	Other
1-1	**$9,257,500**	$1,251,500	$1,502,300		$3,896,500	$2,607,200		
1-2	**$9,327,500**	$1,251,500	$1,593,900		$3,920,900	$2,561,200		
1-3	**$10,103,700**	$1,251,500	$1,556,900		$4,525,200	$2,770,100		
1-4	**$9,017,300**	$1,251,500	$1,404,400		$3,810,600	$2,550,800		
1-5	**$9,053,700**	$1,251,500	$1,409,000		$3,839,700	$2,553,500		
1-6	**$9,332,900**	$1,251,500	$1,440,000		$4,038,700	$2,602,700		
1-7	**$9,994,600**	$998,500	$1,475,600		$5,370,500	$2,150,000		
1-8	**$9,191,400**	$1,251,500	$1,420,300		$3,900,800	$2,618,800		

Table 5: Substation 2 Facilities Estimated Total Costs

Tap Site	Estimated Total Cost	Right-of-Way & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)	Other
2-1	**$7,036,800**	$1,251,500	$1,369,500		$2,569,300	$1,846,500		
2-2	**$7,297,800**	$1,251,500	$1,348,900		$2,757,300	$1,940,100		
2-3	**$7,004,800**	$1,251,500	$1,246,400		$2,583,200	$1,923,700		
2-4	**$7,201,700**	$1,099,100	$1,377,700		$2,713,200	$2,011,700		
2-5	**$7,004,800**	$1,251,500	$1,246,500		$2,583,200	$1,923,600		
2-6	**$7,001,800**	$748,400	$1,267,100		$2,843,200	$2,143,100		
2-7	**$5,862,800**	$336,800	$1,197,100		$2,489,900	$1,839,000		
2-8	**$7,070,800**	$983,300	$1,302,600		$3,181,500	$1,603,400		

LEANDER – PARMER – ROUND ROCK

Transmission Line Addition

RECOMMENDATION

This a proposed joint project plan developed by LCRA Transmission Services Corporation (LCRA TSC) and Pedernales Electric Cooperative (PEC). Oncor facilties are directly impacted and Oncor provided information associated with this proposed project.

With the objective of providing a transmission source to a new load-serving substation, the project consists of constructing a new 138-kV transmission line connecting the existing Leander and Round Rock substations to serve the new Parmer Substation.

The recommended project (Alternative 11) completion date is December 31, 2018. The total project funding requirement is estimated at $50,957,000.

This project requires an amendment to LCRA TSC's Certificate of Convenience and Necessity (CCN) from the Public Utility Commission.

PROJECT SCOPE

- Construct a 138-kV transmission line (approximately 13 miles) using bundled 795 ACSR Drake (446 MVA) conductor with OPGW and double-circuit capable structures that connects the existing Leander and Round Rock substations to the new Parmer Substation.
- Construct a new Parmer Substation.
- Add terminal equipment at the existing Leander and Round Rock substations for the new transmission line.
- Upgrade the 138-kV bus at the Leander Substation.

NEED FOR PROJECT

Electric load in western Williamson County that includes the cities of Leander and Cedar Park areas is served in part by the PEC-owned Avery Ranch, Balcones, Blockhouse, Buttercup, Kent Street, Leander, Seward Junction, and Whitestone substations and these loads have experienced and are projected to experience significant load growth as shown below in Table 1. From 2002 to 2012 the summer peak load served by these substations has grown by 96 percent from 183.8 MW to 360.1 MW. Over 380 MW of power transformer capacity, combined, has been added at these substations to serve the load growth in this area. These transformer capacity additions have been completed without the addition of a new transmission line. The most recent transmission line addition in this immediate area specifically to add a substation was completed in 2000 (Buttercup-Jollyville 138-kV transmission line). PEC has forecasted these substations to serve 572.2 MW in 2022 which is an increase of 59 percent from the actual 2012 summer peak load served by these substations. The composition of the load growth forecasted for the area served by these substations is mainly residential and commercial.

Table 1: Actual (2002 and 2012) and Forecasted (2019 and 2022) Summer Peak Load without the Parmer Lane Addition

Substation	2002 Load (MW)	2012 Load (MW)	2019 Load (MW)	2022 Load (MW)
Avery Ranch	0	70	85	98
Balcones	49	68	91	104
Blockhouse	0	38	55	63
Buttercup	45	48	66	76
Kent Street	0	16	36	41
Leander	34	53	73	84
Seward Junction	0	20	29	33
Whitestone	55	48	67	76
Parmer	0	0	0	0
TOTAL LOAD	183	361	502	575

Based on PEC assessments, the existing distribution system cannot serve the forecasted load growth in western Williamson County since substation transformers and feeders will overload and distribution-only upgrades are not acceptable solutions to address this reliability of service problem. Specifically, PEC identified two high load growth areas between Highway 183 and Interstate 35 and north of Highway 620 which are projected to experience significant continued load growth. One area is the area near the intersection of Parmer Lane and Highway 1431, and the second is the area near the intersection of East Crystal Falls Parkway and Ronald Reagan Boulevard. The existing substations in the Leander and Cedar Park areas in western Williamson County (area substation sources) are remote (approximately three miles) from these growing areas. PEC's assessment indicates that serving this load density from the existing substations and feeders will lead to longer and more distribution feeders in a congested region, increase losses, and decrease reliability. The distribution system needed to supply this amount of load from remote substations would be very expensive, unreliable, and inefficient. Severe degradation of the power quality due to increased losses over longer feeders and extreme distribution system reliability degradation due to increased line exposure would be a direct result of such a distribution-only alternative.

Based on PEC assessments, the addition of new substations near two areas which are projected to experience significant growth between Highway 183 and Interstate 35 and north of Highway 620 is needed to reliably serve the forecasted load in western Williamson County. The location of one substation is the area near the intersection of Parmer Lane and Highway 1431, and PEC needs a substation by 2018 in this location. The location of the other substation is the area near the intersection of East Crystal Falls Parkway and Ronald Reagan Boulevard, and PEC needs a substation by 2020 in this location.

As shown in Figures 1 and 2 below, the existing transmission system surrounding the locations of these two load areas consist of a 138-kV transmission line that parallels Highway 183, a 138-kV transmission line that parallels Highway 45, and 138-kV transmission line that parallels Interstate 35. There are no transmission sources near these locations to serve the new substations needed in this area.

In addition to the PEC-projected deficiencies on the lower voltage delivery system, recent ERCOT-conducted assessments indicate transmission limitations in this high load, high growth area under category C and category D contingency conditions. Based on these assessments, these contingency conditions could lead to the loss of over 250 MW of load to resolve overloads of existing transmission circuits in the near-term.

Figure 1: Area Map of PEC and LCRA TSC System in Western Williamson County

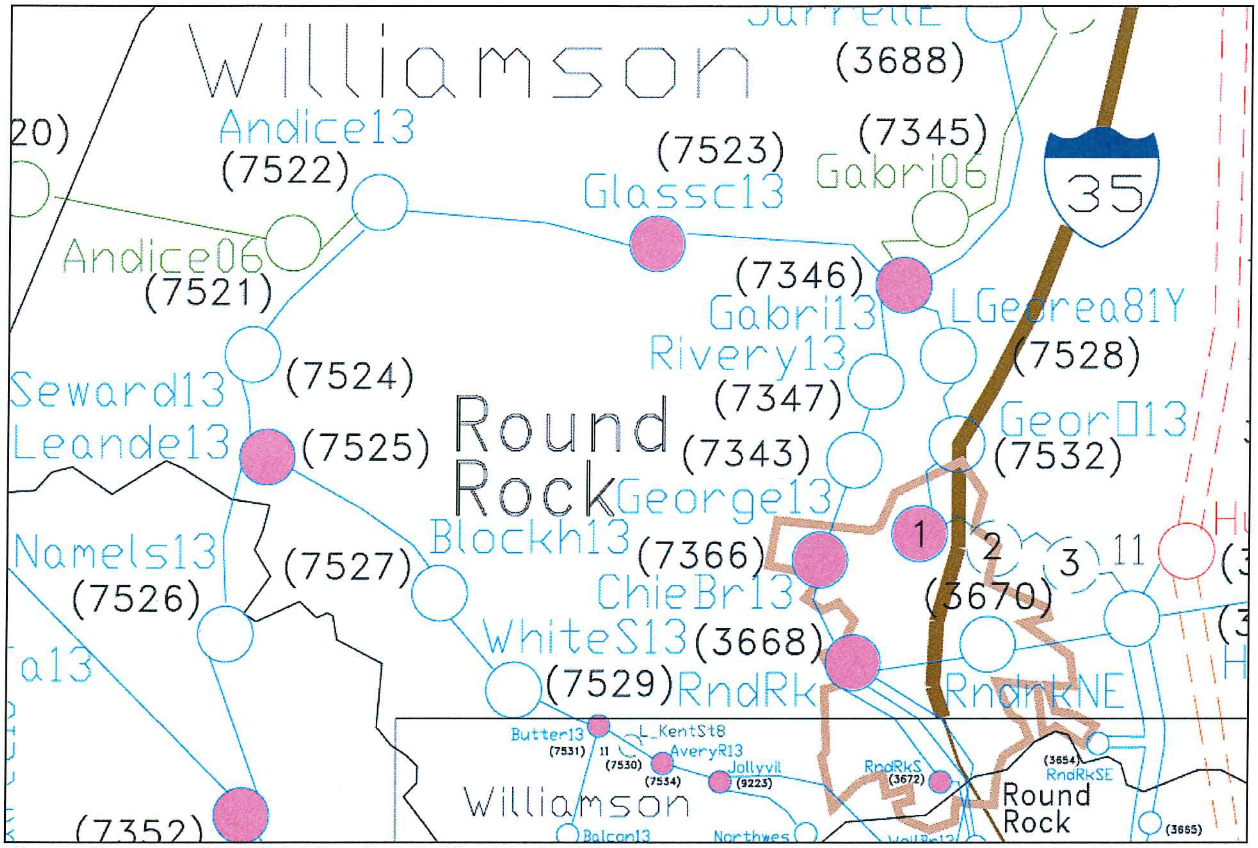

Figure 2: Map of ERCOT System in the Project Area

AVAILABLE ALTERNATIVES

Twelve alternatives for providing transmission service to two new substations near the forecasted load areas and meeting the increased area load growth in western Williamson County are included in this project plan. These alternatives were selected for further assessment because they provide the transmission infrastructure needed to serve the two substations PEC is planning for the area north of Highway 620 between Highway 183 and Interstate 35. Table 2 below summarizes the scope and cost for each alternative.

Table 2: Summary of Scope and Cost for Each Alternative

Alternative	Upgrades	Cost ($000,000)
Alternative 1	1. Construct a Parmer Substation in Williamson County. 2. Construct a 14.8-mile Chief Brady to Parmer to Whitestone 138-kV transmission line with bundled 795 ACSR Drake (446 MVA). 3. Add terminal equipment at the Chief Brady, Parmer, and Whitestone substations for new transmission line.	$62.3
Alternative 2	1. Construct a Parmer Substation in Williamson County. 2. Construct a 14.8-mile Chief Brady to Parmer to Avery Ranch 138-kV transmission line with bundled 795 ACSR Drake (446 MVA). 3. Add terminal equipment at the Chief Brady, Parmer, and Avery Ranch substations for new transmission line.	$60.9
Alterative 3	1. Construct a Parmer Substation in Williamson County.	$63.6

	2. Construct a 15.8-mile Chief Brady to Parmer to Jollyville 138-kV transmission line with bundled 795 ACSR Drake (446 MVA). 3. Add terminal equipment at the Chief Brady, Parmer, and Jollyville substations for new transmission line.	
Alternative 4	1. Construct a Parmer Substation in Williamson County. 2. Construct a 14.1-mile Seward Junction to Parmer to Avery Ranch 138-kV transmission line with bundled 795 ACSR Drake (446 MVA). 3. Add terminal equipment at the Seward Junction, Parmer, and Avery Ranch substations for new transmission line.	$54.0
Alternative 5	1. Construct a Parmer Substation in Williamson County. 2. Construct a 15.1-mile Seward Junction to Parmer to Jollyville 138-kV transmission line with bundled 795 ACSR Drake (446 MVA). 3. Add terminal equipment at the Seward Junction, Parmer, and Jollyville substations for new transmission line.	$56.8
Alternative 6	1. Construct a Parmer Substation in Williamson County. 2. Construct a 16.5-mile Seward Junction to Parmer to Round Rock 138-kV transmission line with bundled 795 ACSR Drake (446 MVA). 3. Add terminal equipment at the Seward Junction, Parmer, and Round Rock substations for new transmission line.	$61.9
Alternative 7	1. Construct a Parmer Substation in Williamson County. 2. Construct a 10.3-mile Leander to Parmer to Avery Ranch 138-kV transmission line with bundled 795 ACSR Drake (446 MVA). 3. Add terminal equipment at the Leander, Parmer, and Avery Ranch substations for new transmission line.	$43.1
Alternative 8	1. Construct a Parmer Substation in Williamson County. 2. Construct an 11.4-mile Leander to Parmer to Jollyville 138-kV transmission line with bundled 795 ACSR Drake (446 MVA). 3. Add terminal equipment at the Leander, Parmer, and Jollyville substations for new transmission line.	$46.2
Alternative 9	1. Construct a Parmer Substation in Williamson County. 2. Construct a Chandler Substation along the existing Chief Brady to Round Rock 138-kV transmission line. 3. Construct a 13.5-mile Leander to Parmer to Chandler 138-kV transmission line with bundled 795 ACSR Drake (446 MVA). 4. Add terminal equipment at the Leander, Parmer, and Chandler substations for new transmission line. 5. Upgrade the existing Round Rock to Chief Brady transmission line between Round Rock and the new Chandler Substation to 446 MVA capacity.	$54.4
Alternative 10	1. Construct a Parmer Substation in Williamson County. 2. Construct a 15.4-mile Leander to Parmer to Round Rock South 138-kV transmission line with bundled 795 ACSR Drake (446 MVA). 3. Add terminal equipment at the Leander, Parmer, and Jollyville substations for new transmission line.	$77.5
Alternative 11	1. Construct a Parmer Substation in Williamson County. 2. Construct a 12.6-mile Leander to Parmer to Round Rock 138-kV transmission line with bundled 795 ACSR Drake (446 MVA). 3. Add terminal equipment at the Leander, Parmer, and Round Rock substations for new transmission line. 4. Upgrade the 138-kV bus at the Leander Substation.	$51.0
Alternative 12	1. Construct a Parmer Substation in Williamson County. 2. Construct a 14.8-mile Leander to Parmer to Chief Brady 138-kV transmission line with bundled 795 ACSR Drake (446 MVA). 3. Add terminal equipment at the Leander, Parmer, and Chief Brady substations for new transmission line. 4. Upgrade the 138-kV bus at the Leander Substation.	$63.7

The construction of a new line from Leander to Parmer to Chief Brady was also studied but is not listed as an alternative because it is similar to Alternative 9 in performance but would increase the length of the new transmission line to be constructed and require that the Round Rock to Chief Brady line that be upgraded. Thus the results of a Leander to Parmer to Chief Brady alternative would be similar in performance to the alternatives studied but at a higher cost.

RESULTS

The evaluation of the transmission alternatives consisted of comparing the number of transmission criteria violations in the immediate area in 2017 and 2022 before and after the addition of each alternative and the cost of each alternative. Transmission violations are based on the LCRA TSC transmission criteria for thermal (greater than 100% on a post-contingency basis) and voltage (less than 0.92 per unit on a post-contingency basis) during single contingency (N-1) conditions.

PEC's plan to serve load from existing substations and the Parmer Substation, shown in Table 3, are the loads used to evaluate performance of the alternatives.

Table 3: Summary of Area Loads with Parmer Lane In-Service

Bus Number	Substation	2019 Load (MW)	2022 Load (MW)
7534	Avery Ranch	69	80
7533	Balcones	91	103
7527	Blockhouse	55	62
7531	Buttercup	66	75
7530	Kent Street	35	41
7525	Leander	62	58
7524	Seward Junction	29	33
7529	Whitestone	67	77
7367	Parmer	28	33
7368	Future Station	0	13
	TOTAL LOAD	502	575

Table 4: Summary of 2019 and 2022 Thermal Violations

Alternative	From Bus of New Line	To Bus of New Line	2019 # of lines loading above 100%	2022 # of lines loading above 100%
Base	Base Case		0	1
1	Chief Brady	Whitestone	0	0
2	Chief Brady	Avery Ranch	0	1
3	Chief Brady	Jollyville	0	0
4	Avery Ranch	Seward Junction	0	2
5	Jollyville	Seward Junction	0	0
6	Round Rock	Seward Junction	0	0

7	Avery Ranch	Leander	0	1
8	Jollyville	Leander	0	0
9	Chandler	Leander	1	1
10	Round Rock S.	Leander	0	0
11	Round Rock	Leander	0	0
12	Chief Brady	Leander	1	1

The stations listed in Table 3 were monitored for voltage and the number of criteria violations for each alternative is reported in Table 5.

Table 5: Summary of 2019 and 2022 Voltage Violations

Alternative	From Bus of New Line	To Bus of New Line	2019 # of buses with voltage <0.92 Per Unit	2022 # of buses with voltage <0.92 Per Unit
Base	Base Case		4	9
1	Chief Brady	Whitestone	1	3
2	Chief Brady	Avery Ranch	4	7
3	Chief Brady	Jollyville	4	8
4	Avery Ranch	Seward Junction	1	10
5	Jollyville	Seward Junction	0	7
6	Round Rock	Seward Junction	0	4
7	Avery Ranch	Leander	1	10
8	Jollyville	Leander	1	3
9	Chandler	Leander	1	2
10	Round Rock S.	Leander	1	1
11	Round Rock	Leander	1	1
12	Chief Brady	Leander	1	8

Post-contingency voltage at Seward Junction was below 0.92 per unit in every Alternative except Alternatives 4, 5, and 6. Post-contingency voltage at Parmer Substation was below 0.92 per unit in Alternatives 4, 5, 6, and 7. Therefore, the impact of adding a capacitor at Seward Junction was evaluated. No criteria violations (voltage or thermal) result for Alternatives 6, 9, 10, and 11 after adding the capacitor bank at Seward Junction (see Table 7).

Table 6: Summary of 2019 and 2022 Thermal Violations (With Seward Junction Capacitor)

Alternative	From Bus of New Line	To Bus of New Line	2019 # of lines loading above 100%	2022 # of lines loading above 100%
Base	Base Case		0	1
1	Chief Brady	Whitestone	1	0
2	Chief Brady	Avery Ranch	1	10
3	Chief Brady	Jollyville	0	10
4	Avery Ranch	Seward Junction	0	0
5	Jollyville	Seward Junction	0	1

6	Round Rock	Seward Junction	0	0
7	Avery Ranch	Leander	0	1
8	Jollyville	Leander	0	1
9	Chandler	Leander	0	0
10	Round Rock S.	Leander	0	0
11	Round Rock	Leander	0	0
12	Chief Brady	Leander	0	0

Table 7: Summary of 2019 and 2022 Voltage Violations (with Seward Junction Capacitor)

Alternative	From Bus of New Line	To Bus of New Line	2019 # of buses with voltage <0.92 Per Unit	2022 # of buses with voltage <0.92 Per Unit
Base	Base Case		2	9
1	Chief Brady	Whitestone	0	0
2	Chief Brady	Avery Ranch	0	5
3	Chief Brady	Jollyville	0	8
4	Avery Ranch	Seward Junction	0	9
5	Jollyville	Seward Junction	0	1
6	Round Rock	Seward Junction	0	0
7	Avery Ranch	Leander	0	10
8	Jollyville	Leander	0	0
9	Chandler	Leander	0	0
10	Round Rock S.	Leander	0	0
11	Round Rock	Leander	0	0
12	Chief Brady	Leander	0	3

Table 8: Summary of 2019 and 2022 Criteria Violations and Cost (with Seward Junction Capacitor)

Alternative	From Bus of New Line	To Bus of New Line	2019	2022	Cost* ($000,000)
Base	Base Case		2	10	0
1	Chief Brady	Whitestone	1	1	$62.3
2	Chief Brady	Avery Ranch	1	6	$60.9
3	Chief Brady	Jollyville	0	9	$63.6
4	Avery Ranch	Seward Junction	0	10	$54.0
5	Jollyville	Seward Junction	0	2	$56.8
6	Round Rock	Seward Junction	0	0	$61.9
7	Avery Ranch	Leander	0	11	$43.1
8	Jollyville	Leander	0	1	$46.2
9	Chandler	Leander	1	1	$54.4
10	Round Rock S.	Leander	0	0	$77.5

11	Round Rock	Leander	0	0	$51.0
12	Chief Brady	Leander	1	4	$63.7

* Cost does not include Seward Junction Capacitor which is common to all alternatives

The Leander-Round Rock transmission line (Alternative 11) addresses 10 violations (voltage and thermal) identified in the 2022 Base Case during single contingency (N-1) conditions. Alternatives 7 and 8 cost less than Alternative 11 but these two alternatives do not address the 2022 violations summarized in Table 8.

BENEFITS OF THE PROPOSED PROJECT (Alternative 11)

1. Adds a 138-kV transmission source into an area of Williamson County which is forecasted to experience high load growth;
2. Provides the transmission infrastructure needed to reliably serve the two substations PEC identified for the area north of Highway 620 between Highway 183 and Interstate 35;
3. Supports findings in the 2012 ERCOT Long-term System Assessment describing the need to upgrade the existing 138-kV transmission path between the IH35 corridor and counties west of Austin;
4. Addresses all criteria violations (indentified for this evaluation) in 2018 and 2022 during single contingency (N-1) conditions (see Table 8);
5. Reduces the risk of load loss under Category C and Category D contingency conditions;
6. Addresses multiple transmission line overloads during ERCOT Category C and Category D contingency conditions;
7. Austin Energy assessments concluded that this project reduces east-to-west flows in the Austin Energy area as it is a direct parallel path for the Howard Lane-Jollyville line that also supports the area of study from the south; and,
8. Has similar system impact to Alternatives 6, 9, and 10 at a lower cost.

SUPPORTING INFORMATION

Steady State case files and idevs supporting this study are listed below.

Cases: 14DSB_2019_SUM1_Final_10152013.sav
14DSB_2020_SUM1_Final_10152013.sav

Load Changes: 2019BaseCaseLoad.idv
2022BaseCaseLoad.idv
2019withParmerLaneAddition.idv
2022withParmerLaneAddition.idv

Alternative 1: Alt 1_Chief Brady-Whitestone.idv
Alternative 2: Alt 2_Chief Brady-Avery Ranch.idv
Alternative 3: Alt 3_Chief Brady-Jollyville.idv
Alternative 4: Alt 4_Avery Ranch-Seward Junction.idv

Alternative 5: Alt 5_Jollyville-Seward Junction.idv
Alternative 6: Alt 6_Round Rock-Seward Junction.idv
Alternative 7: Alt 7_Avery Ranch-Leander.idv
Alternative 8: Alt 8_Jollyville-Leander.idv
Alternative 9: Alt 9_Leander-Chandler.idv
Alternative 10: Alt 10_Leander-Round Rock South.idv
Alternative 11: Alt 11_Leander-Round Rock.idv
Alternative 12: Alt 12_Leander-Chief Brady.idv

Pedernales Electric Cooperative, Inc.

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Se habla español.

July 12, 2013

Mr. Sergio Garza
Manager, System Planning and Protection
LCRA
P.O. Box 220
Austin, Texas 78767-0220

Dear Mr. Garza:

The SAIC study, completed June, 2012, considered a distribution solution as an option for serving load between RM1431 and Highway 29 along the 183A and the Parmer Lane/Ronald Reagan Blvd corridor. Based on dispersed load growth, the 20 year study life, the limited availability of feeder routes fed from substations on the edge of the study area, and PEC's experience and history of growth in the area, a "Distribution Only" solution is not an option.

The estimated density along the existing US Hwy 183 corridor is 1,290 meters/mi^2 or 7.6 MVA/ mi^2 (Based on a 8.7 mi^2 area, with a total load of 66.3 MVA and a meter count of 11,228, served by feeders BH20, BH40, BH130, BH140, WS60, and LA110). Assuming this same density along the Parmer Lane/183A corridor which has an area of 49.3 mi^2, this would equate to 374.7 MVA of load or a meter count of 63,597. Currently there are a total of 6 feeders from existing substations (Avery Ranch, Leander and Seward Junction) that serve the area. The present total load on these 6 feeders is 52.7 MVA. Also, one additional feeder from Leander is in the planning process for 2014 to serve load in the area. The total capacity of these 7 feeders will be 91 MVA. In order to pick up the remaining projected 283.7 MVA of load, two more substations (eight 46.7 MVA transformers) and approximately 21 feeders will be needed in the area to adequately serve the projected load.

Initial plans are that two additional feeders will be constructed from Seward Junction. Also, existing feeders from Avery Ranch, Whitestone and Blockhouse will be used to pick up some of the load in the area. This will equate to 39 MVA of load or the equivalent of 3 feeders. As a result, the two requested substations will have approximately 18 feeders serving from them.

PEC is also very concerned about reliability of service. In order to prevent large extended outages, PEC tries to limit load on each feeder to 10-13 MVA. This ensures that adjacent feeders have the capability to provide contingency back feeds and will allow smart grid options to switch loads automatically or remotely between feeders.

Along the existing 183 corridor, substations are located on average 2.2 miles apart. In the respective area east of 183A, the proposed substations will be approximately 4.0 miles apart and 2.5 miles from existing substations along the 183 corridor. The "Distribution Only" option would lead to much longer distances between substations and between substations and the load. In order to maintain high reliability for the PEC feeders in these densely loaded areas and to provide contingency back feeds, two to four miles between sources is preferred.

Another concern not addressed in the SAIC study is the City of Leander's ambition and continued promotion to bring industrial load into the respective area. In the last few years, PEC has received numerous inquiries about the possibility of serving large industrial loads along the proposed transmission route east of the Leander substation. According to the City of Leander, they have responded to 92 business leads within the past 24 months for large loads being installed in the Leander area. The proposed transmission line would greatly enhance PEC's ability to serve the forecasted load that will likely materialize in the future.

In summary, due to the present high load growth and the forecasted future load in the area, the long distribution feeders that would be required to serve the projected load, the inability to acquire needed feeder routes from existing substations, the inability to provide adequate contingency ties, and the inability to maintain PEC's obligation to provide high reliability, the "Distribution Only" proposal in the SAIC study is not a viable plan.

If you have any questions, please call me at (830) 868-4928 or Paul Lochte at (830) 868-5154.

Sincerely,

Robert A. Peterson, PE
Sr. Director, Engineering

RP:PL:rs

Final Report

Transmission & Distribution System Study

Pedernales Electric Cooperative, Inc.
Johnson City, TX

June 2012

SAIC®

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Table of Contents

Table of Contents

List of Exhibits

List of Appendices

List of Tables

List of Figures

EXECUTIVE SUMMARY

Purpose of Report

The SAIC Energy, Environment & Infrastructure, LLC (SAIC) project team's scope of work summarized in this report includes a substation and distribution assessment of two high growth areas, including the Cedar Park/Leander area and the IH 35/ US HWY 130 Corridors in and east of Kyle, Texas. Additionally, a 2011 Load Forecast Report was completed for the entire distribution system including twenty-year peak load projections for summer and winter. From the system level load forecast, a substation and feeder forecast was developed to project peak loading down to the distribution feeder level for entire distribution system. During the project, the project team, in collaboration with Pedernales Electric Cooperative (PEC) staff, identified a portfolio of proposed capital improvement projects along main arterial distribution lines and at substations to address the projected growth those areas.

Summary of Analysis, Conclusions, and Recommendations

The PEC system was analyzed to serve a projected ten-year system summer peak demand of 1,827 MW. The system load was allocated to the targeted areas based on PEC staff's knowledge of the area.

Section 3 of this report provides details of substation capacity and distribution circuit deficiencies at the existing and projected loads. The findings were based on PEC's planning and operating criteria in Section 2. A summary of the identified deficiencies for the targeted area studied are given below based on this analysis:

- Twenty-seven substation transformers are expected to exceed the planning capacity during the ten-year planning horizon
- Sections of 39 distribution circuits are expected to exceed planning criteria for conductor loading
- Sections of 19 distribution circuits are expected to experience low voltage, based on planning criteria limits

Based on these analyses, the Ten-Year Electric System Plan includes the following:

- Load Level 1
  - Upgrade Kent St Substation transformer, T1, to a 46.7-MVA transformer
  - Construct one new Kent St 24.9-kV distribution feeder
  - Convert the 12.5-kV distribution served from Balcones Substation transformers T1 and T2 to 24.9 kV
  - Upgrade the Balcones Substation transformers T1 and T2 to 46.7-MVA transformers (converting T1 and T2 to 24.9 kV)

  - Upgrade Buttercup Substation transformer T3 to a 46.7-MVA transformer
  - Construct a new Seward Junction 24.9-kV distribution feeder
  - Upgrade Blockhouse Substation transformer T1 to a 46.7-MVA transformer
  - Construct a new Blockhouse 24.9-kV distribution feeder
  - Upgrade Manchaca Substation transformers T1 and T2 to 46.7-MVA transformers
  - Install a new 46.7-MVA transformer at Lehigh Substation
  - Construct a new Lehigh 24.9-kV distribution feeder
  - Upgrade Buda Substation transformers T1 and T2 to 46.7-MVA transformers
  - Upgrade Go Forth Substation transformers T1 and T2 to 46.7-MVA transformers
  - Install a new 46.7-MVA transformer at Canyon Substation
  - Construct a new Canyon 24.9-kV distribution feeder
  - Purchase land and construct new Alternative 1 Substation with (1) 138-24.9 kV, 46.7-MVA transformer T1
  - Construct new Alternative 1 feeder NEW1 and transfer load from Balcones feeder BL340 and BL330 to the new feeder
  - Construct new Alternative 1 feeder NEW2 and transfer load from Balcones feeder BL230 to the new feeder
- Load Level 2
  - Purchase land for Alternative 2 new substation site
  - Purchase land for Alternative 4 new substation site
- Load Level 3
  - Upgrade Whitestone Substation transformers T1 and T2 to 46.7-MVA transformers
  - Install a new 46.7-MVA transformer at Blockhouse Substation
  - Upgrade Turnersville Substation transformer T1 to a 46.7-MVA transformer
  - Install a new 46.7-MVA transformer at Lehigh Substation
  - Install new Alternative 2 138-24.9 kV, 46.7-MVA transformers T1 and T2.
  - Construct new Alternative 2 feeder NEW1 and transfer load from Avery Ranch feeder AR250 and AR30 to the new feeder
  - Construct new Alternative 2 feeder NEW3 and transfer load from Avery Ranch feeders AR240 and AR250
  - Construct new Alternative 2 feeder NEW5 and transfer load from Avery Ranch feeder AR250 to the new feeder

- Construct new Alternative 2 feeder NEW6 and transfer load from Avery Ranch feeder AR30 to the new feeder
- Purchase land for Alternative 3 new substation site
- Construct new Alternative 4 Substation with (2) 138-24.9 kV, 46.7-MVA transformers T1 and T2
- Construct new Alternative 4 feeder NEW2 and transfer load from Whitestone feeder WS20 and Nameless feeder NL10 to the new feeder
- Construct new Alternative 4 feeder NEW1 and transfer load from Whitestone feeder WS50 to the new feeder
- Construct new Alternative 4 feeder NEW3 and transfer load from Buttercup feeder BR210 to the new feeder

- Load Level 4
  - Construct new Alternative 3 Substation with (1) 138-24.9 kV, 46.7-MVA transformer T1
  - Construct new Alternative 3 feeder NEW1 and transfer load from Leander feeder LA230 to the new feeder
  - Construct new Alternative 3 feeder NEW4 and transfer load from Leander feeder LA110 to the new feeder
  - Construct new Alternative 3 feeder NEW5 and transfer load from Leander feeder LA250 and Seward Junction feeder SJ20 to the new feeder

    Construct new Alternative 3 feeder NEW6 and transfer load from Leander feeders LA10 and LA130 to the new feeder
- Load Level 5
  - Install new Alternative 2 138-24.9 kV, 46.7-MVA transformer T3
  - Construct new Alternative 2 feeder NEW8 and transfer load from Avery Ranch feeder AR30 to the new feeder
  - Construct new Alternative 2 feeder NEW4 and transfer load from Avery Ranch feeder AR250 and Leander feeder LA230 to the new feeder
  - Install new Alternative 3 138-24.9 kV, 46.7-MVA transformers T2 and T3
  - Construct new Alternative 3 feeder NEW2 and transfer load from Leander feeder LA250 to the new feeder
- Load Level 6
  - Construct a new Balcones 24.9-kV distribution feeder
  - Construct a new Blockhouse 24.9-kV distribution feeder
  - Construct a new Go Forth 24.9-kV distribution feeder
  - Construct new Alternative 4 feeder NEW5 and transfer load from Whitestone feeder WS60 to the new feeder

- Load Level 7
  - Upgrade Lehigh Substation transformer T1 to a 46.7-MVA transformer
  - Construct a new Lehigh 24.9-kV distribution feeder
  - Install new Alternative 2 138-24.9 kV, 46.7-MVA transformer T4.
  - Construct new Alternative 2 feeder NEW7 and transfer load from Avery Ranch feeder AR240 to the new feeder.
  - Install new Alternative 4 138-24.9 kV, 46.7-MVA transformer T3
  - Construct new Alternative 4 feeder NEW4 and transfer load from Whitestone feeder WS20 to the new feeder
- Load Level 8
  - Construct new Alternative 3 feeder NEW3 and transfer load from Leander feeder LA230 and LA210 to the new feeder
- Load Level 10
  - Construct new Alternative 2 feeder NEW2 and transfer load from Avery Ranch feeder AR250 and Leander feeder LA230 to the new feeder
- Load Levels 1 -10:
  - Various distribution improvements to relieve loading and improve conditions for contingency switching

To determine the cost of system improvements for the PEC electric system over the next ten years, expenditures required to serve projected loads as a result of customer growth were estimated for each year. The projected capital requirements are as follows:

Table ES-1
Ten-Year Electric System Plan Capital Requirements

Load Level	Estimated Year[1]	Capital Requirements (2011 Dollars)
1	2011	$44,516,600
2	2012	$1,395,200
3	2013	$23,697,700
4	2014	$4,328,500
5	2015	$5,561,500
6	2016	$2,491,100
7	2017	$8,121,300
8	2018	$379,600
9	2019	$59,400
10	2020	$51,700
	Total	**$90,602,600**

Note: (1) Calendar Year

Section 1
INTRODUCTION

Sound system planning is essential to provide management with guidance to economically develop the electric system for Pedernales Electric Cooperative (PEC) to ensure adequate and reliable service at the lowest cost to customers. The planning should provide for an orderly development of the system such that the new investment in facilities is in step with load growth and revenue. System planning should include the following:

- Improvement of the quality of service to customers as improvement opportunities occur
- Expansion of the existing system to meet future load growth beyond the present design requirements
- Economic evaluation of the construction of new facilities to meet the required capacity

By using this approach, interim changes and system additions will be compatible with the capacity level needs as system load growth occurs. To maintain a reasonable economic balance in system planning, the three main components of the system – power supply, transmission, and distribution – should be evaluated.

Expected growth in the service area will create a greater peak load demand for PEC. Along with maintaining existing customers, this anticipated growth has led PEC to desire an assessment of their long-term system requirements based on a ten-year planning horizon. Included in this report are the following:

- Summary of the basic data, criteria, and assumptions used to evaluate the system
- Analysis of the existing electric system to determine current and future deficiencies
- Development and comparison of alternative solutions to meet long-term system requirements
- Development of a Ten-Year Electric System Plan
- Cost estimates for the ten-year capital requirements to achieve the construction plan

Section 2 lists planning criteria based on PEC's system reliability and performance goals. SAIC, in collaboration with PEC, analyzed the targeted areas of the existing PEC electric system at the ten-year load level of 1827.0 MW and the five-year load level of 1486.3 MW.

Section 3 contains the analysis findings. Alternatives to serve the future planning load can be found in Section 4. The project team evaluated the long-range alternatives to determine the preferred Ten-Year Electric System Plan presented in Section 5.

To keep the Electric System Plan aligned with long-range system goals, SAIC recommends that PEC update the Ten-Year Electric System Plan at intervals no longer than five years apart or whenever major changes occur in:

- The economy
- Local Growth/Development
- Power Supply
- Physical Plant

Annually or bi-annually, it will be necessary to perform studies with a short-range planning horizon in order to amend current plans or accommodate system changes or problems. Short-range studies should align with the concepts and intent of the Ten-Year Electric System Plan.

1.1 General Basis of Study

The projected system peak load and number of customers served used in the report were based on the 2011 Load Forecast prepared by R. W. Beck, Inc., now SAIC. A copy of the system forecast is given in Appendix A.

An analysis was performed on two fast growing areas of the substations, distribution lines, and major equipment of the existing system using as a basis the design criteria herein of conductor loading, voltages, physical conditions, and reliability. Cooper Power Systems CymDIST engineering analysis version 5 software was used to analyze the distribution circuits. The criteria given in Section 2 form the basis of this analysis.

In the preparation of this Report, including the opinions contained herein, we have made certain assumptions and used certain considerations with respect to conditions that may occur in the future. While we believe these considerations and assumptions are reasonable and attainable based on conditions known to us as of the date of this Report, they are dependent on future events. Actual conditions may differ from those assumed herein or from the assumptions provided by others; therefore, the actual results will vary from those estimated. In addition, field conditions encountered during design may impact some of the projects.

Section 2
BASIC DATA AND ASSUMPTIONS

2.1 Operating System Statistics

Pedernales Electric Cooperative (PEC) provides service to approximately 232,335 customers located in South Central Texas. The service area is a rapidly growing area because of its proximity to the Austin and San Antonio metropolitan areas to the east and south respectively. PEC headquarters resides in Johnson City and the service area is organized in eight operating districts.

PEC currently has 64 distribution substations that are supplied by 69-kV and 138-kV transmission lines owned by LCRA and others. These 64 substations supply 265 distribution feeder lines that are used to provide retail electric service to PEC members throughout its service area. The PEC distribution system is operated at two voltage levels, 12.47/7.2 kV and 24.9/14.4 kV.

The areas analyzed for this T&D System Study include the US 183 corridor in the Cedar Park District and the Interstate Highway 35 and US 130 corridors in the Kyle-Buda Districts. The targeted area contains 16 substations, all operated at 24.9/14.4 kV, with the exception of two transformers at Balcones Substation.

2.2 System Planning Load

SAIC, with the assistance of PEC's management and staff, prepared a 2011 Load Forecast (LF) with system-level peak load projections for four different load growth scenarios. The study involved an econometric forecasting method, which makes use of regression to establish historical relationships between energy consumption and various explanatory variables. Forecasts of seasonal peak demand were then developed from the resulting energy requirements and assumed load factors, generally based on recent historical averages.

The 2011 Load Forecast results include a Base Case that reflects a mid-range economic scenario utilizing economic projections provided by IHS Global Insight, a widely utilized provider of such projections in the utility industry. The Base Case results reflect projected growth rates for system net energy for load (NEL) of approximately 4.3 percent over 2011-2020 and 3.5 percent over 2021-2030. This compares to historical growth over 2001-2010 of approximately 4.8 percent.

Similarly, the Base Case results reflect projected growth rates for summer and winter peak demand of approximately 4.2 percent over 2011-2020 and 3.5 percent over 2021-2030. This compares to historical growth over 2001-2010 of approximately 5.3 percent for the summer peak demand.

PEC plans to construct and maintain an electric system that can provide adequate and reliable service during summer and winter peak load periods. To assist PEC in this effort, the load forecast is based on Load Levels (LL) with exact loads assigned to specific years. In reality, loads may develop more quickly or more slowly than anticipated. If the actual load develops as projected in the load forecast, the year given would match the Load Level. To avoid the impression that facilities need to be constructed for a specific year versus a specific Load Level, the remainder of this report refers to Load Levels and the anticipated years.

The peak load projections from the Load Forecast include the addition of spot loads, or specific known developments, in certain areas of the PEC distribution system. Discussions between PEC and SAIC led to the following spot load additions:

- 12 MW served from Avery Ranch Substations by LL10
- 8 MW served from Blockhouse Substation by LL10, which increases to 20 MW by LL20
- 18 MW served from Leander Substation by LL10, which increases to 51 MW by LL20

The coincident summer peak projections for the Base Case and the three other cases developed are shown in Table 2-1 and Figure 2-1.

Table 2-1
Summer System Forecast Summary

		Peak Demand (MW)				
			Projected			
			Mid-range Economic Case		Normal Weather	
Load Level	Anticipated Year	Actual	Normal Weather	Severe Weather	Low Economic Case	High Economic Case
0	2010	1,217.5				
1	2011		1,196.4	1,258.6	1,167.6	1,225.2
2	2012		1,243.4	1,308.1	1,196.3	1,290.5
3	2013		1,295.6	1,362.9	1,236.3	1,354.6
4	2014		1,353.7	1,424.1	1,282.1	1,425.0
5	2015		1,412.9	1,486.3	1,328.7	1,496.8
6	2016		1,472.6	1,549.2	1,375.4	1,569.5
7	2017		1,533.4	1,613.2	1,422.6	1,643.8
8	2018		1,597.3	1,680.3	1,473.2	1,720.8
9	2019		1,664.5	1,751.1	1,526.9	1,801.5
10	2020		1,736.7	1,827.1	1,584.8	1,887.9

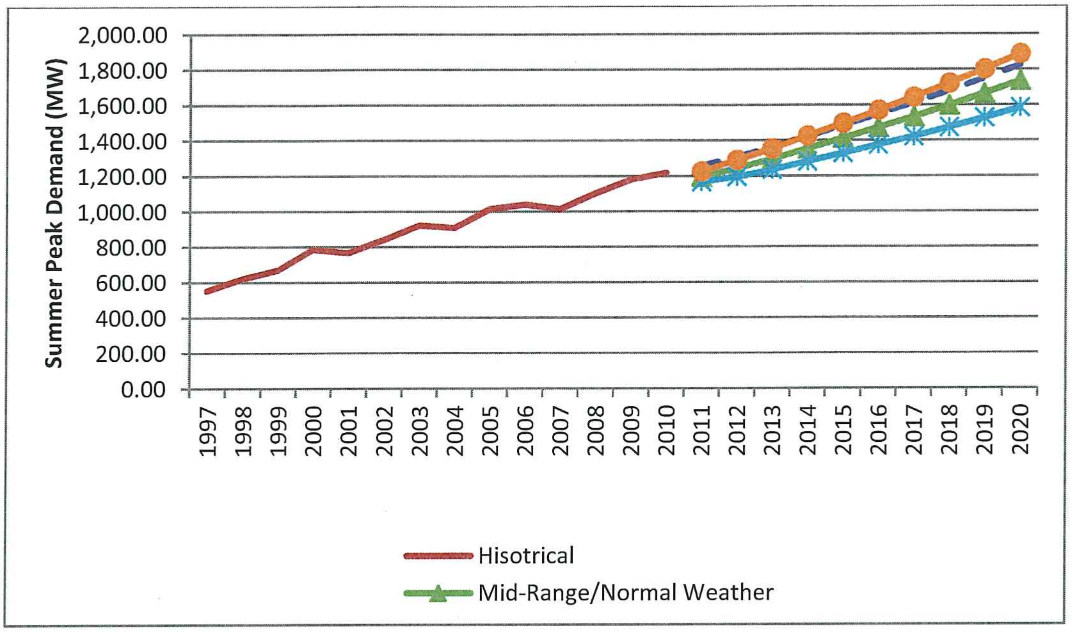

Figure 2-1. Summer System Forecast

Coincident peak (CP) summer and winter demand projections were developed for the study. Because the targeted areas of the PEC electric system studied are typically summer peaking, the peak load projections for the summer season were used in this study. The results of the load forecast using the *mid-range economic case and severe weather conditions* reflect that system energy requirements are expected to grow by approximately 4.2 percent, annually, during the 2011-2020 period. As a result, the load forecast projects a system peak load of 1,258.6 MW in 2011 and 1,827.1 MW in 2020.

2.3 Load Allocation

The service area was reviewed with PEC management and staff to determine potential load growth. Relative growth factors were calculated from projected growth percentages for each feeder and substation transformer, provided by PEC. They are included in the substation and feeder forecast and summarized in Table 2-2. The relative growth factor provides a sense of how substation transformers are projected to grow relative to each other. An average system growth was assigned a relative growth factor of 1.0.

Table 2-2
Relative Substation Transformer Growth Factors

Substation Transformer	Relative Growth Factor
Avery T1	1.12
Avery T2	1.21
Balcones T1	0.56
Balcones T2	0.93
BalconesT3	1.30
Balcones T4	0.93
Blockhouse T1	0.93
Blockhouse T2	1.12
Buda T1	1.12
Buda T2	1.12
Buttercup T1	0.93
Buttercup T2	1.12
Buttercup T3	1.12
Goforth T1	1.12
Goforth T2	1.12
Kent Street	1.12
Kyle	1.12
Leander T2	1.12
Leander T3	1.12
Leander T4	1.12
Lehigh	1.12
Manchaca T1	0.74
Manchaca T2	0.93
Nameless T1	0.74
Nameless T2	0.93
Rohr	0.00
Seward Junction T1	1.12
Seward Junction T2	1.12
Turnersville T1	1.12
Turnersville T2	1.12
Whitestone T1	1.12
Whitestone T2	1.12

Loads for known, upcoming commercial, and residential developments were estimated and added to the engineering model and substation and feeder forecast as "spot loads." The spot loads were assumed to be additional load to the total system growth. The projected system load was proportionately allocated to various areas based on the relative growth factors assigned, and the spot loads were added to specific feeders based on the PEC's knowledge of the area. Exhibit 1 includes the allocated substation and feeder loads as well as the spot loads.

2.4 System Planning Criteria

PEC follows the planning guidelines described in the Lower Colorado River Authority (LCRA) & Association of Wholesale Customers (AWC) Distribution System Planning Criteria. In those guidelines, there are improvements to be considered prior to considering new substation construction. They are:

- Transfer of load to adjacent substation feeders where surplus capacity is available provided the transfer will not adversely affect system performance.
- Installation of voltage regulators.
- Installation of shunt capacitors as needed to maintain a minimum delivery point power factor of 97 percent lagging during on-peak loading conditions and a maximum delivery point power factor of 97 percent leading during off-peak loading conditions.
- Installation of sectionalizing devices and/or lightning arrestors.
- Reconductoring or multi-phasing of existing distribution lines.
- Construction of new feeders or distribution tie lines.
- Conversion of distribution lines to a higher operating voltage where such an upgrade is compatible with the multiple voltage operating environment of the distributor's system.
- Upgrading of power transformer capacity at existing substation sites.

The following set of criteria used to determine system improvements in this Transmission & Distribution System Study was developed through discussions with PEC and SAIC staff.

2.4.1 Substation Voltage Regulation

Voltage regulation was assumed for each substation such that a voltage drop could be experienced on the transmission system and, at peak loads, 126 volts could be supplied from the 24.9-kV substation secondary bus and 125 volts could be supplied form the 12.47-kV substation secondary bus, assuming a system base of 120 volts.

2.4.2 Distribution Voltage Drop

For the design load, a 5-percent drop was assumed to be the maximum allowable voltage drop from the substation secondary bus to the end of the distribution feeders. Corrective action shall be considered for voltages less than 120 volts, assuming a system base of 120 volts, under normal operating conditions. Voltage regulators are limited to two units in series on any given distribution circuit.

2.4.3 Distribution Line Routing

Existing distribution line routing was planned to be used where possible. In addition, where new or upgraded distribution lines are required, existing routes over new routes were selected to avoid any environmentally sensitive areas.

2.4.4 Reliability

Single-contingency planning is generally used to enhance reliability where appropriate. Such planning assumes that facilities can provide adequate service with any one substation transformer or transmission line out of service.

PEC plans for firm capacity, or N-1, to have capacity available for single-contingency planning. For substations with multiple transformers, loading is limited to 50 percent of the top 65°C MVA nameplate capacity. For single transformer substations, loading is limited to 90 percent of capacity.

PEC also depends on having reserve capacity available to transfer load through the distribution system in order to minimize the impact of a substation outage on customers. To allow for transfer capacity, estimated loading on distribution lines is flagged if it exceeds 65 percent of the summer rated capacity for the backbone conductor of each feeder. During contingency situations, conductors shall be allowed to reach 100 percent of capacity.

2.4.5 Distribution Line Ratings

The calculated rating for the distribution conductors and underground cables in Tables 2-3 and 2-4, respectively, were extracted from the PEC provided engineering model. To allow for load transfers between feeders in the distribution system, the maximum loading on three-phase tie lines was limited to 65 percent of the calculated rating. For emergency conditions, conductors are allowed to be loaded to 100 percent of capacity.

Table 2-3
Summer Overhead Conductor Ratings

Conductor	Calculated Rating (amps)	Planning Capacity (amps)
6 CU	120	78
4 ACSR	170	111
2 ACSR	200	130
1/0 ACSR	210	137
336 AAC	410	267
795 AAC	700	455

Table 2-4
Underground Conductor Ratings

Conductor	Calculated Rating (amps)	Planning Capacity (amps)
1/0 AL	211	137
1/0 CU	260	169
2/0 CU	295	192
4/0 CU	374	243
500 CU	596	387
1000 AL	680	442

2.5 Financial Criteria

2.5.1 Inflation

Table 2-5 presents recent construction cost trends for transmission, substation, and distribution plant according to The Handy-Whitman Index of Public Utility Construction Costs up to January 2010.

Table 2-5
Recent Cost Trends of Electric Utility Construction for the South Central Region

Construction and Equipment Type	2008 Cost Escalation	2009 Cost Escalation	2010 Cost Escalation
Transmission Plant	8.45%	6.98%	-3.40%
Substation Plant	6.30%	5.53%	3.37%
Distribution Plant	15.52%	2.69%	1.68%

The Blue Chip Economic Indicators (BCEI) projects an average long-term inflation rate of approximately 2.7 percent, which reflects the impacts of the current economic recession. Based on discussions between PEC staff and SAIC and uncertain future electric facility construction cost trends, for the study period, an inflation rate of 5.0 percent was chosen for distribution upgrades.

2.5.2 Cost of Capital

The interest rate, or cost of capital, is defined as the rate paid for long-term debt to finance capital improvements. Based on discussions with PEC staff, a discount rate of 6.51 percent was selected for the alternative present worth cost analysis.

2.5.3 Annual Fixed Charge Rates

The annual fixed charge rate, when applied to the initial plant investment, approximates the annual costs for operating and maintaining the system. The annual fixed charge rate components include taxes, operation and maintenance (O&M), straight-line depreciation, and cost of capital. The annual depreciation rate is based on an equipment life of 40 years for transmission, 50 years for substation, and 33 years for distribution. Financial statements from PEC and discussions with PEC staff led to the breakdown of the fixed charge rates into the distribution plant as summarized in Table 2-6.

Table 2-6
Annual Fixed Charge Rates (%)

Item	Plant		
	Transmission	Substation	Distribution
Cost of Capital	6.51%	6.51%	6.51%
Depreciation	2.50%	2.00%	3.00%
Operation and Maintenance	2.13%	2.84%	3.56%
Taxes	0.50%	0.50%	0.50%
Total	**11.64%**	**11.86%**	**13.58%**

2.5.4 Cost of Power

The average cost of power between 2008 and 2010 was $0.06966 per kWh, based on information provided by PEC. Trends for the current market are anticipating an increase in power costs during the planning period; therefore, power costs were assumed to increase at a rate of 5 percent per year over the long-term period.

2.5.5 Cost of Losses

The annual cost of load losses was calculated at $148.40 per peak kW of loss, based on the existing power rates for calendar year 2010. A three-year average annual load factor of 45.12 percent included in the calculation of cost of losses was derived from monthly demand and energy information for 2008 – 2010 provided by PEC. The calculation of the cost of losses is given in Exhibit 2.

2.6 Construction Cost Estimates

The cost estimates presented in Table 2-7 were used to develop the estimated cost of improvements for proposed projects. PEC provided the estimated costs including engineering, construction administration, and owners' overhead expenses, based on recent actual project costs. Costs for new substations, substation transformer additions and upgrades, and distribution equipment were provided by PEC. They are presented in Table 2-8.

Table 2-7
Distribution Cost Estimates

Distribution (24.9/14.4 kV)	2011 Estimated Cost $/Mile
New Lines	
1ϕ; OH, 4 ACSR	$40,000
1ϕ; OH, 1/0 ACSR	$48,000
1ϕ; UG 1/0 AL	$50,000
3ϕ; OH, 4 ACSR	$60,000
3ϕ; OH, 1/0 ACSR	$78,000
3ϕ; OH, 336 AAC	$125,000
3ϕ; UG 1/0 AL	$150,000
2 ckt, 3ϕ; OH 336 AAC	$200,000
3ϕ; OH, 795 AAC	$206,000
2 ckt, 3ϕ; OH, 795 AAC	$278,000
3ϕ; UG 1000 AL	$680,000
2 ckt, 3ϕ; UG 1000 AL	$918,000
3ϕ; UG 500 CU	$400,000
Line Reconductor	
3ϕ; OH, 4 ACSR	$30,000
1ϕ; OH, 1/0 ACSR	$44,000
3ϕ; OH, 1/0 ACSR	$50,000
3ϕ; OH, 1/0 ACSR	$99,000
3ϕ; OH, 336 AAC	$116,000
3ϕ; OH, 795 AAC	$186,000
2 ckt, 3ϕ; OH, 795 AAC	$311,000
Voltage Conversion	
12.47 kV to 24.9 kV Conversion	$18,000

Table 2-8
Equipment Cost Estimates

Distribution Equipment & Substation	2011 Estimated Cost ($)
Substation Upgrades and New Construction	
Upgrade to a 46.7-MVA transformer	$2,480,000
Install a new 37.3-MVA transformer at an existing site	$3,000,000
Install a new 46.7-MVA transformer at an existing site	$3,080,000
New Substation with (1) 46.7 MVA transformer and a 24.9-kV distribution bus	$4,100,000
New Substation with (3) 46.7 MVA transformers and a 24.9-kV distribution bus	$5,600,000
New Substation with (4) 46.7 MVA transformers and a 24.9-kV distribution bus	$8,600,000
Land Purchase for each substation site	$120,000
Distribution Equipment	
Three-phase Overhead Air Break Switch	$15,000
Three single-phase voltage regulators	$60,000

2.7 Computer Model of System

PEC has provided the electric distribution system in Cooper Power Systems CymDIST version 5 software. Loading in the model is based on the capacity of the distribution transformer. PEC's staff provided these loads and the projected loads were entered at their specific locations in the model.

After kW loading of spot loads were established, the load flows for each feeder were prepared. The load flows provide information such as conductor loading, calculated line losses, power factor information, and voltage drop along line sections. The load flow information from the computer model was compared to the conductor loading and voltage drop criteria as outlined in this Transmission & Distribution System Study. Recommendations are based on these results.

Section 3
ANALYSIS OF EXISTING SYSTEM

The purpose of this section is to identify the system deficiencies at the existing and projected loads based on the Pedernales Electric Cooperative (PEC)'s planning and operating criteria defined in Section 2. The analysis will evaluate:

- Substation Capacity
- Distribution Circuit Performance

3.1 Existing Load Analysis

3.1.1 Substation Capacity

The targeted area of the PEC distribution system selected for this study is served by 16 substations. The transformers are equipped with load tap changers. The rated capacity and voltage of the substation transformers are listed in Table 3-1.

Table 3-1
Existing Substation Transformer Capacity Summary

Substation Name	Voltage (kV)	Configuration Qty.-Phase-Rating at 65°C (MVA)	Top Nameplate Rating (MVA)
Avery Ranch T1	138 – 24.9 kV	(1) 3Ø 22.4 / 29.8 / 37.3	37.3
Avery Ranch T2	138 - 24.9 kV	(1) 3Ø 22.4 / 29.8 / 37.3	37.3
Avery Ranch T3	138 – 24.9 kV	(1) 3Ø 28.0 / 37.3 / 46.7	46.7
Balcones T1	138 – 12.47 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Balcones T2	138 – 12.47 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
BalconesT3	138 – 24.9 kV	(1) 3Ø 28.0 / 37.3 / 46.7	46.7
Balcones T4	138 – 24.9 kV	(1) 3Ø 22.4 / 29.8 / 37.3	37.3
Blockhouse T1	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Blockhouse T2	138 – 24.9 kV	(1) 3Ø 22.4 / 29.8 / 37.3	37.3
Buda T1	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Buda T3	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Buttercup T1	138 – 24.9 kV	(1) 3Ø 22.4 / 29.8 / 37.3	37.3
Buttercup T2	138 – 24.9 kV	(1) 3Ø 22.4 / 29.8 / 37.3	37.3
Buttercup T3	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Goforth T1	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Goforth T2	138 – 24.9 kV	(1) 3Ø 22.4 / 29.8 / 37.3	37.3
Kent Street	138 – 24.9 kV	(1) 3Ø 22.4 / 29.8 / 37.3	37.3
Kyle	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4

Substation Name	Voltage (kV)	Configuration Qty.-Phase-Rating at 65°C (MVA)	Top Nameplate Rating (MVA)
Leander T2	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Leander T3	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Leander T4	138 – 24.9 kV	(1) 3Ø 22.4 / 29.8 / 37.3	37.3
Lehigh	138 – 24.9 kV	(1) 3Ø 22.4 / 29.8 / 37.3	37.3
Manchaca T1	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Manchaca T2	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Nameless T1	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Nameless T2	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Rohr	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Seward Junction T1	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Seward Junction T2	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Turnersville T1	138 – 24.9 kV	(1) 3Ø 13.4 / 17.9 / 22.4	22.4
Turnersville T2	138 – 24.9 kV	(1) 3Ø 22.4 / 29.8 / 37.3	37.3
Whitestone T1	138 – 24.9 kV	(1) 3Ø 22.4 / 29.8 / 37.3	37.3
Whitestone T2	138 – 24.9 kV	(1) 3Ø 22.4 / 29.8 / 37.3	37.3
Total Capacity			**981.5**

For the selected area, the total existing substation transformer capacity is approximately 981.5 MVA. The 2010 metered peak loading, compared to the total substation transformer capacity, is given in Table 3-2. Based on the existing loading, 20 of the substation transformers are loaded above the planning criteria of 50 percent.

Table 3-2
Historical Substation Transformer Loading

Substation Name	2010 Summer Peak (MW)	Total Capacity (MVA)	2010 Power Factor at Peak (%)	Percent Loaded (%)
Avery T1	27.94	37.3	97.8%	**76.6%**
Avery T2	30.82	37.3	96.7%	**85.4%**
Balcones T1	9.66	22.4	96.4%	44.7%
Balcones T2	13.54	22.4	96.1%	**62.9%**
BalconesT3	15.60	47.6	96.1%	34.1%
Balcones T4	26.89	37.3	97.3%	**74.1%**
Blockhouse T1	13.28	22.4	96.8%	**61.2%**
Blockhouse T2	23.87	37.3	95.0%	**67.4%**
Buda T1	21.23	22.4	94.8%	**100.0%**
Buda T3	18.34	22.4	97.6%	**83.9%**
Buttercup T1	13.50	37.3	99.3%	36.4%
Buttercup T2	17.32	37.3	97.9%	47.4%

Substation Name	2010 Summer Peak (MW)	Total Capacity (MVA)	2010 Power Factor at Peak (%)	Percent Loaded (%)
Buttercup T3	19.12	22.4	95.9%	**89.0%**
Goforth T1	13.37	22.4	97.9%	**61.0%**
Goforth T2	27.19	37.3	96.4%	**75.6%**
Kent Street	10.17	37.3	93.2%	29.3%
Kyle	19.40	22.4	99.1%	87.4%
Leander T2	18.27	22.4	96.9%	**84.2%**
Leander T3	11.66	22.4	97.9%	**53.2%**
Leander T4	26.50	37.3	95.3%	**74.5%**
Lehigh	10.30	37.3	95.5%	28.9%
Manchaca T1	16.61	22.4	96.0%	**77.2%**
Manchaca T2	12.12	22.4	99.2%	**54.5%**
Nameless T1	8.32	22.4	100.0%	37.1%
Nameless T2	10.87	22.4	97.2%	49.9%
Rohr	6.16	22.4	76.6%	35.9%
Seward Junction T1	13.69	22.4	99.9%	**61.2%**
Seward Junction T2	1.97	22.4	99.4%	8.8%
Turnersville T1	17.69	22.4	95.3%	**82.9%**
Turnersville T2	13.59	37.3	94.2%	38.7%
Whitestone T1	34.30	37.3	97.5%	**94.3%**
Whitestone T2	22.01	37.3	96.5%	**61.1%**

Note: Based on load and power factor data provided by PEC for the 2010 peak.

3.1.2 Distribution Circuit Performance

Voltage drop and load flow calculations were made with the engineering model, assuming the system normal configuration and load allocations based on the 2010 summer peak. The load flow results of the distribution system were completed for the existing and future peak loading conditions including: the existing 2010 load (LL0), the five-year load level (LL5), and the ten-year load level (LL10). A review of the results provides a comprehensive summary of capacity and voltage deficiencies anticipated on the existing distribution system at present and future loads. The voltage conditions are calculated on a 120-volt base.

For planning purposes, the conductor loading was limited to 65 percent of the calculated capacity and voltage was flagged at 120 V. The calculated load capacities for each conductor are given in Tables 2-3 and 2-4.

The computer analysis at LL0 revealed that:

- Sections of the following feeder(s) exceed a 5% volt drop:
  - Avery Ranch Feeder AR130; Balcones Feeders BL80 and BL330; Buda Feeder BD10; Kyle Feeders KY20, KY30, and KY50; Leander Feeders LA10, LA130,

LA230, and LA250; Nameless Feeders NL120 and NL20; Rohr Feeders RH20 and RH30; Seward Junction Feeders SJ150 and SJ20; Turnersville Feeders TV130 and TV50

- Sections on the following feeder(s) exceed 65% of the conductor ratings:
  - Avery Ranch Feeders AR30 and AR130; Balcones Feeders BL20, BL80, Bl90, BL330; Blockhouse Feeder BH130; Buda Feeder BD10; Buttercup Feeders BR20, BR210, and BR330; Goforth Feeder GF110; Kyle Feeders KY20 and KY30; Leander Feeders LA10, LA130, and LA250; Manchaca Feeder MC50; Nameless Feeders NL120 and NL20; Turnersville Feeder TV50; Whitestone Feeders WS40 and WS60

3.2 Projected Load Analysis

3.2.1 Substation Capacity

The projected system loads were allocated to the primary metered feeders as shown in Exhibit 1. The planning substation transformer capacity was compared to the projected feeder loads to identify the load level in which the load would exceed the capacity. All but four of the PEC substation transformers evaluated will exceed the planning criteria by LL10.

Table 3-3
LL10 Substation Transformer Loading

Substation Name	2020 Summer Peak (MW)	Total Capacity (MVA)	2010 Power Factor at Peak (%)	Percent Loaded (%)
Avery T1	55.9	37.3	97.8%	**153.2%**
Avery T2	49.6	37.3	96.7%	**137.5%**
Balcones T1	12.1	22.4	96.4%	**56.0%**
Balcones T2	19.6	22.4	96.1%	**91.1%**
BalconesT3	26.0	47.6	96.1%	**56.8%**
Balcones T4	38.8	37.3	97.3%	**106.9%**
Blockhouse T1	19.2	22.4	96.8%	**88.5%**
Blockhouse T2	45.2	37.3	95.0%	**127.6%**
Buda T1	33.0	22.4	94.8%	**155.4%**
Buda T3	28.5	22.4	97.6%	**130.4%**
Buttercup T1	19.5	37.3	99.3%	**52.6%**
Buttercup T2	26.9	37.3	97.9%	**73.7%**
Buttercup T3	29.7	22.4	95.9%	**138.3%**
Goforth T1	20.8	22.4	97.9%	**94.8%**
Goforth T2	42.2	37.3	96.4%	**117.4%**
Kent Street	15.8	37.3	93.2%	45.4%

Substation Name	2020 Summer Peak (MW)	Total Capacity (MVA)	2010 Power Factor at Peak (%)	Percent Loaded (%)
Kyle	30.1	22.4	99.1%	**135.6%**
Leander T2	28.4	22.4	96.9%	**130.8%**
Leander T3	18.1	22.4	97.9%	**82.5%**
Leander T4	60.3	37.3	95.3%	**169.6%**
Lehigh	16.0	37.3	95.5%	44.9%
Manchaca T1	22.3	22.4	96.0%	**103.7%**
Manchaca T2	17.5	22.4	99.2%	**78.8%**
Nameless T1	11.2	22.4	100.0%	**50.0%**
Nameless T2	15.7	22.4	97.2%	**72.1%**
Rohr	6.2	22.4	76.6%	36.1%
Seward Junction T1	21.2	22.4	99.9%	**94.7%**
Seward Junction T2	3.1	22.4	99.4%	13.9%
Turnersville T1	27.5	22.4	95.3%	**128.8%**
Turnersville T2	21.1	37.3	94.2%	**60.1%**
Whitestone T1	53.2	37.3	97.5%	**146.3%**
Whitestone T2	34.2	37.3	96.5%	**95.0%**

Note: Based on load data from the 2011 Load Forecast. Power factor provided and used from the 2010 peak.

3.2.2 Distribution Circuit Performance

The distribution deficiencies for the existing system at the five- and ten-year load levels are presented below.

In addition to the feeders listed from the LL0 analysis, at LL5:

- Sections on the following feeder(s) exceed 65% of the conductor ratings:
  - Balcones Feeders BL220 and BL320; Buda Feeder BD130; Goforth Feeder GF120; Leander Feeder LA210; Seward Junction Feeder SJ20

At LL10, in addition to the feeder deficiencies listed at LL0 and LL5:

- Sections of the following feeder(s) exceed a 5% volt drop:
  - Balcones Feeder BL90; Goforth Feeder GF120
- Sections on the following feeder(s) exceed 65% of the conductor ratings:
  - Blockhouse Feeders BH140 and BH40; Buda Feeder BD130; Buttercup Feeder BR10; Goforth Feeder GF20; Kent Street Feeder KS20; Kyle Feeder KY50; Seward Junction Feeder SJ30; Whitestone Feeders WS10, WS20, and WS50

Section 4
ALTERNATIVE OPTIONS

4.1 Exploratory Plans

Various system expansion plans can adequately serve the projected load. The purpose of this section is to detail the alternative plans investigated and to identify a recommended plan that will adequately serve the customers' present load, the load as the system expands, and the planning load selected. To identify the recommended plan, criteria were developed in Section 2 to select and economically compare the alternative expansion plans.

Several alternatives were identified to address substation and distribution system deficiencies and reliability issues. Each alternative that was considered corrected the identified system deficiencies and was evaluated on a 20-year present-worth cost basis. The Base Case solution includes upgrades to existing substations and distribution infrastructure. No new substations are recommended in the Base Case solution. The other four alternatives presented include construction of a new substation site in lieu of completing some of the recommended Base Case solutions.

The areas analyzed for this Transmission & Distribution System Study include the US 183 corridor in the Cedar Park District and the Interstate Highway 35 and US 130 corridors in the Kyle-Buda Districts. No new substation sites were evaluated for the Kyle-Buda Districts. The four alternatives include recommended new substations in the Cedar Park District only.

Alternatives were developed to serve the long-range planning load and include the following:

Base Case: Upgrades to existing facilities to correct substation and distribution system deficiencies at the projected load levels, including:

- Substation transformer upgrades at Kent St, Whitestone, Nameless, Balcones, Buttercup, Avery Ranch, Seward Junction, Leander, Blockhouse, Manchaca, Lehigh, Buda, Turnersville, and Go Forth Substations
- Substation transformer additions at Kent St, Avery Ranch, Leander, Blockhouse, Lehigh, and Canyon Substations
- New feeder additions at Kent St, Balcones, Avery Ranch, Seward Junction, Leander, Blockhouse, Lehigh, and Go Forth Substations
- Various distribution improvements including switching, the addition of voltage regulators, and reconductoring to relieve loading

Alternative 1 includes constructing a new substation southwest of Balcones on the edge of the PEC service territory. It is recommended to relieve substation transformer loading at Balcones and heavy feeder loading. The new substation location brings a source closer to some of those customers who are as much as 6.5 miles from the substation that serve them.

Alternative 2 includes the construction of a substation northeast of Avery Ranch in an area with a significant amount of growth expected over the planning horizon. It is expected to relieve substation transformer and feeder loading at Avery Ranch Substation and feeder loading at Leander Substation.

Alternative 3 includes the construction of a new substation southeast of Leander Substation. This is also an area of expected high growth. It is recommended to relieve substation transformer loading at Leander and Seward Junction Substations and feeder loading at Leander Substation.

Alternative 4 recommends constructing a new substation west of Whitestone Substation to relieve substation transformer loading at Whitestone, Nameless, and Buttercup Substations, as well as feeder loading at Whitestone and Buttercup Substations.

4.2 Methodology

After the alternatives were identified through discussions among the PEC management and staff and SAIC, the analysis for each alternative was prepared as follows:

- Proposed improvements were modeled and computerized load-flow, voltage-drop, and loss calculations were prepared to determine whether each alternative provided adequate service to the customers.
- Substation, and distribution cost estimates were prepared for initial capital costs and cost of losses. Transmission costs are not included, but will be developed at a later time with the analysis of the transmission system performed by LCRA.
- The project descriptions and estimated construction costs are given in Exhibits 4 through 8 for the respective alternatives.
- A present-worth comparative cost summary was prepared for each alternative. The assumptions used in the present-worth analyses are summarized in Exhibit 3. The present-worth calculations are included in Exhibits 4 through 8 for the respective alternatives.

4.3 Base Case

The following is a brief summary of the Base Case Alternative. The projects included are shown in Exhibit 4.

- Load Level 1
  - Install a new 46.7-MVA transformer at Kent St Substation
  - Upgrade Kent St Substation transformer, T1, to a 46.7-MVA transformer
  - Construct one new Kent St 24.9-kV distribution feeder

- Convert the 12.5-kV distribution served from Balcones Substation transformers T1 and T2 to 24.9 kV
- Upgrade the Balcones Substation transformers T1, T2, and T4 to 46.7-MVA transformers (converting T1 and T2 to 24.9 kV)
- Upgrade Buttercup Substation transformer T3 to a 46.7-MVA transformer
- Construct a new Seward Junction 24.9-kV distribution feeder
- Upgrade Blockhouse Substation transformer T1 to a 46.7-MVA transformer
- Construct a new Blockhouse 24.9-kV distribution feeder
- Upgrade Manchaca Substation transformers T1 and T2 to 46.7-MVA transformers
- Install a new 46.7-MVA transformer at Lehigh Substation
- Construct a new Lehigh 24.9-kV distribution feeder
- Upgrade Buda Substation transformers T1 and T2 to 46.7-MVA transformers
- Upgrade Go Forth Substation transformers T1 and T2 to 46.7-MVA transformers
- Install a new 46.7-MVA transformer at Canyon Substation
- Construct a new Canyon 24.9-kV distribution feeder

- Load Level 2
  - Upgrade Leander Substation transformer T2 to a 46.7-MVA transformer
  - Construct a new Avery Ranch 24.9-kV distribution feeder
  - Construct one new Kent St 24.9-kV distribution feeder
  - Upgrade Seward Junction Substation transformer T2 to a 46.7-MVA transformer
- Load Level 3
  - Upgrade Leander Substation transformer T3 to a 46.7-MVA transformer
  - Install a new 46.7-MVA transformer at Avery Ranch Substation
  - Construct a new Avery Ranch 24.9-kV distribution feeder
  - Upgrade Nameless Substation transformers T1 and T2 to 37.3-MVA transformers
  - Install a new 46.7-MVA transformer at Kent St Substation
  - Construct one new Kent St 24.9-kV distribution feeder
  - Upgrade Whitestone Substation transformers T1 and T2 to 46.7-MVA transformers
  - Install a new 46.7-MVA transformer at Blockhouse Substation

- Upgrade Turnersville Substation transformer T1 to a 46.7-MVA transformer
- Install a new 46.7-MVA transformer at Lehigh Substation

- Load Level 4
  - Upgrade Leander Substation transformer T4 to a 46.7-MVA transformer
  - Upgrade Seward Junction Substation transformer T1 to a 46.7-MVA transformer
  - Upgrade Buttercup Substation transformer T1 to a 46.7-MVA transformer
  - Construct a new Seward Junction 24.9-kV distribution feeder
- Load Level 6
  - Construct a new Balcones 24.9-kV distribution feeder
  - Upgrade Avery Ranch Substation transformer T1 to a 46.7-MVA transformer
  - Install a new 46.7-MVA transformer at Leander Substation
  - Construct a new Blockhouse 24.9-kV distribution feeder
  - Construct a new Go Forth 24.9-kV distribution feeder
- Load Level 7
  - Upgrade Lehigh Substation transformer T1 to a 46.7-MVA transformer
  - Construct a new Lehigh 24.9-kV distribution feeder
- Load Level 8
  - Upgrade Buttercup Substation transformer T2 to a 46.7-MVA transformer
- Load Level 9
  - Upgrade Avery Ranch Substation transformer T2 to a 46.7-MVA transformer
  - Construct a new Leander 24.9-kV distribution feeder
- Load Levels 1–10:
  - Various distribution improvements to relieve loading and improve conditions for contingency switching.

4.4 Alternative 1 – New Substation Southwest of Balcones

Alternative 1 includes the same improvements as the Base Case, with the following exceptions. The projects included are shown in Exhibit 5.

- Load Level 1
  - Purchase land and construct new Alternative 1 Substation with (1) 138-24.9 kV, 46.7-MVA transformer T1

- Construct new Alternative 1 feeder NEW1 and transfer load from Balcones feeder BL340 and BL330 to the new feeder
- Construct new Alternative 1 feeder NEW2 and transfer load from Balcones feeder BL230 to the new feeder

- Load Level 6
  - Construct new Alternative 1 feeder NEW3 and transfer load from Balcones feeder BL220 to the new feeder

Alternative 1 does ***not*** require the upgrade of Balcones Substation transformer T4 in LL1 or the construction of a new feeder out of Balcones Substation along with a couple of reconductor projects.

The new substation in Alternative 1 will be directly located under an existing transmission line; therefore, transmission construction will be minimal. The new substation site provides back-up capacity for Balcones and brings a source closer to some of those customers who are quite a distance from their existing substation. Shorter feeders typically mean less exposure between protective devices and fewer customers impacted by an outage, which is an improvement in reliability compared to the Base Case. The new site is near the corner of the PEC service territory, and there is room for growth in that area in the future.

4.5 Alternative 2 – New Substation Northeast of Avery Ranch

Alternative 2 includes the same improvements as the Base Case, with the following exceptions. The projects included are shown in Exhibit 6.

- Load Level 2
  - Purchase land for new substation site
- Load Level 3
  - Install new Alternative 2 138-24.9 kV, 46.7-MVA transformers T1 and T2
  - Construct new Alternative 2 feeder NEW1 and transfer load from Avery Ranch feeder AR250 and AR30 to the new feeder
  - Construct new Alternative 2 feeder NEW3 and transfer load from Avery Ranch feeders AR240 and AR250
  - Construct new Alternative 2 feeder NEW5 and transfer load from Avery Ranch feeder AR250 to the new feeder
  - Construct new Alternative 2 feeder NEW6 and transfer load from Avery Ranch feeder AR30 to the new feeder
- Load Level 5
  - Install new Alternative 2 138-24.9 kV, 46.7-MVA transformer T3

  - Construct new Alternative 2 feeder NEW8 and transfer load from Avery Ranch feeder AR30 to the new feeder
  - Construct new Alternative 2 feeder NEW4 and transfer load from Avery Ranch feeder AR250 and Leander feeder LA230 to the new feeder
- Load Level 7
  - Install new Alternative 2 138-24.9 kV, 46.7-MVA transformer T4
  - Construct new Alternative 2 feeder NEW7 and transfer load from Avery Ranch feeder AR240 to the new feeder
- Load Level 10
  - Construct new Alternative 2 feeder NEW2 and transfer load from Avery Ranch feeder AR250 and Leander feeder LA230 to the new feeder

Alternative 2 does ***not*** require the following:

- A new substation transformer at Kent Street Substation in LL1
- A new substation transformer at Avery Ranch Substation in LL3
- Two new feeders at Avery Ranch in LL2 and LL3 and one at Kent St in LL2
- Upgrading transformer T2 at Seward Junction in LL2
- A new feeder at Seward Junction in LL4
- Upgrading transformer T1 at Avery Ranch in LL6
- Upgrading transformer T2 at Avery Ranch in LL9
- Various other conductor upgrades and construction

The new substation in Alternative 2 is located in an expected high growth region, the Cedar Park area. In the ten-year planning horizon, an estimated 82 MW of additional load is expected to develop in the area served from this proposed new substation, not including the additional load at surrounding substations.

Without this substation, a considerable amount of upgrades would be required at numerous substations, which also leads to longer and more distribution feeders in a congested region. Having a source closer to the load center should reduce distribution line losses and improve reliability. This new substation also provides back-up capacity for contingency situations.

4.6 Alternative 3 – New Substation Southeast of Leander

Alternative 3 includes the same improvements as the Base Case, with the following exceptions. The projects included are shown in Exhibit 7.

- Load Level 3
  - Purchase land for new substation site

- Load Level 4
  - Construct new Alternative 3 Substation with (1) 138-24.9 kV, 46.7-MVA transformer T1
  - Construct new Alternative 3 feeder NEW1 and transfer load from Leander feeder LA230 to the new feeder
  - Construct new Alternative 3 feeder NEW4 and transfer load from Leander feeder LA110 to the new feeder
  - Construct new Alternative 3 feeder NEW5 and transfer load from Leander feeder LA250 and Seward Junction feeder SJ20 to the new feeder

    Construct new Alternative 3 feeder NEW6 and transfer load from Leander feeders LA10 and LA130 to the new feeder
- Load Level 5
  - Install new Alternative 3 138-24.9 kV, 46.7-MVA transformers T2 and T3
  - Construct new Alternative 3 feeder NEW2 and transfer load from Leander feeder LA250 to the new feeder
- Load Level 8
  - Construct new Alternative 3 feeder NEW3 and transfer load from Leander feeder LA230 and LA210 to the new feeder

Alternative 3 does ***not*** require the following:

- Upgrading transformer T1 at Seward Junction in LL4
- Upgrading transformers T2, T3, and T4 at Leander in LL2, LL3, and LL4
- Upgrading transformer T2 at Seward Junction in LL2
- A new feeder at Seward Junction in LL4
- Installing a new transformer at Leander in LL6
- A new feeder at Leander in LL9
- Various other conductor upgrades and construction

Similar to Alternative 2, Alternative 3 is also located in the expected high growth Cedar Park region. In the ten-year planning horizon, an estimated 48 MW of additional load is expected to develop in the area served from this proposed new substation, not including the additional load at surrounding substations.

Without this substation, quite a few upgrades at Leander and Seward Junction Substations would be required, which also leads to longer and more distribution feeders in a congested region. Having a source closer to the load center should reduce distribution line losses and improve reliability. This new substation also provides back-up capacity for contingency situations. Substation transformer losses are expected to be reduced with the selection of Alternative 3 because of the reduction in transformer capacity additions to serve the expected load growth.

4.7 Alternative 4 – New Substation West of Whitestone

Alternative 4 includes the same improvements as the Base Case, with the following exceptions. The projects included are shown in Exhibit 8.

- Load Level 2
  - Purchase land for new substation site
- Load Level 3
  - Construct new Alternative 4 Substation with (2) 138-24.9 kV, 46.7-MVA transformers T1 and T2
  - Construct new Alternative 4 feeder NEW2 and transfer load from Whitestone feeder WS20 and Nameless feeder NL10 to the new feeder
  - Construct new Alternative 4 feeder NEW1 and transfer load from Whitestone feeder WS50 to the new feeder
  - Construct new Alternative 4 feeder NEW3 and transfer load from Buttercup feeder BR210 to the new feeder
- Load Level 6
  - Construct new Alternative 4 feeder NEW5 and transfer load from Whitestone feeder WS60 to the new feeder
- Load Level 7
  - Install new Alternative 4 138-24.9 kV, 46.7-MVA transformer T3
  - Construct new Alternative 4 feeder NEW4 and transfer load from Whitestone feeder WS20 to the new feeder

Alternative 4 does ***not*** require the following:

- Installing a new transformer and constructing a new 24.9-kV distribution feeder at Kent St in LL3
- Upgrade transformers T1 and T2 at Nameless in LL3
- Upgrade transformer T1 at Buttercup in LL4
- Upgrade transformer T2 at Buttercup in LL8
- Various other conductor upgrades and construction

The new substation proposed in Alternative 4 would offset a transformer addition and several transformer upgrades as well as conductor upgrades and construction. Substation transformer losses are expected to be lower with this alternative than the Base Case.

The new Alternative 4 Substation is expected to serve 55 MW of load growth over the ten-year planning horizon, in addition to growth at the existing surrounding substations. There is quite a bit of room for even more growth in the future in the areas surrounding the proposed new substation. The new proposed substation site would improve reliability from the Base Case by shortening several distribution feeders and providing back-up capacity for nearby substations.

4.8 Plan Selection

4.8.1 Examination of the Transition

Each exploratory plan considers the major facilities required to provide a transition from the existing to the projected system planning load, solving the substation and feeder problems identified in Section 3. Although each exploratory plan may not have the same capacity each year of the study period, each alternative provides similar reliability and capacity at the long-range load level.

4.8.2 Economic Comparison

Present-worth cost analyses were prepared for each alternative. The basis of the economic criteria is presented in Section 2. The present-worth cost calculations and detailed cost estimates for distribution and substation improvements are presented in Exhibits 4 through 8.

A summary of each alternative's capital requirements in 2011 dollars and 20-year present-worth cost is presented in Table 4-1. Transmission construction costs are not included.

Table 4-1
Distribution Alternative Cost Summary

Alternative	Description	Estimated PW Cost	Total Capital Requirements (2011 Dollars)	Percent of Base PW Cost
Base Case	Base Case	$146,774,400	$115,438,800	--
Alternative 1	New Substation Southwest of Balcones	$148,605,500	$116,981,200	1.23%
Alternative 2	New Substation Northeast of Avery Ranch	$133,472,800	$104,342,800	-9.97%
Alternative 3	New Substation Southeast of Leander	$133,412,000	$103,960,400	-10.02%
Alternative 4	New Substation West of Whitestone	$137,080,300	$106,663,300	-7.07%
Alternative 1 & 2	Combined Alternatives	$135,305,900	$105,885,200	-8.48%
Alternative 1 & 3	Combined Alternatives	$135,242,900	$105,502,800	-8.53%
Alternative 1 & 4	Combined Alternatives	$138,909,200	$108,205,700	-5.66%
Alternative 2 & 3	Combined Alternatives	$125,736,900	$97,846,900	-16.73%
Alternative 2 & 4	Combined Alternatives	$124,071,300	$95,567,300	-18.30%

Alternative	Description	Estimated PW Cost	Total Capital Requirements (2011 Dollars)	Percent of Base PW Cost
Alternative 3 & 4	Combined Alternatives	$124,074,400	$95,184,900	-18.30%
Alternative 1,2,3	Combined Alternatives	$127,592,400	$99,407,300	-15.03%
Alternative 1,2,4	Combined Alternatives	$125,893,000	$97,098,500	-16.59%
Alternative 1,3,4	Combined Alternatives	$125,903,700	$96,727,300	-16.58%
Alternative 2,3,4	Combined Alternatives	$116,144,700	$89,071,400	-26.37%
Alternative 1,2,3,4	Combined Alternatives	$119,821,300	$90,602,600	-22.49%

Note: Transmission costs not included.

4.9 The Preferred Plan

Based on the analysis outlined above, the system improvements for each of the Alternatives, 1 – 4, were selected as the Preferred Plan. The benefits of this plan are detailed in Section 5. The total 20-year present worth cost of the preferred plan is approximately $119,821,300, and the capital requirements in 2011 dollars are $90,602,600.

A summary of the estimated capital costs for the Preferred Plan and details of the present-worth analysis is provided in Exhibits 5, 6, 7, and 8. Detailed descriptions of the recommended substation and distribution improvements are presented in Section 5. A system map illustrating the Preferred Plan is given in Exhibit 9.

Section 5
SYSTEM PLAN

5.1 Benefits of the Preferred Plan

The preferred plan was selected based on a number of important considerations: costs, reliability, improvements in normal and contingency system operations, shorter distribution feeders, reduced electric system losses, etc. Each new substation proposed provides several of these benefits. Following are advantages of selecting the new substations in Alternatives 1, 2, 3, and 4 as the preferred plan.

- Alternative 1 includes constructing a new substation southwest of Balcones on the edge of the PEC service territory. It is recommended to relieve substation transformer loading at Balcones and heavy feeder loading.

  The new substation in Alternative 1 will be directly located under an existing transmission line; therefore, transmission construction will be minimal. The new substation site provides back-up capacity for Balcones and brings a source closer to some of those customers who are currently as much as 6.5 miles from the substation that serve them. Shorter feeders typically mean less exposure between protective devices and fewer customers impacted by an outage, which is an improvement in reliability compared to the Base Case. The new site is near the corner of the PEC service territory, and there is room for growth in that area in the future.

- Alternative 2 includes the construction of a substation northeast of Avery Ranch in the Cedar Park area where a significant amount of growth is expected over the planning horizon. It is expected to relieve substation transformer and feeder loading at Avery Ranch Substation and feeder loading at Leander Substation.

  In the ten-year planning horizon, an estimated 82 MW of additional load is expected to develop in the area served from this proposed new substation, not including the additional load at surrounding substations. Without this substation, a considerable amount of upgrades would be required at numerous substations, resulting in more long distribution feeders in a congested region. Having a source closer to the load center will reduce distribution line losses and improve reliability. This new substation also provides back-up capacity for contingency situations.

- Alternative 3 includes the construction of a new substation southeast of Leander Substation, also in the high growth Cedar Park region. In the ten-year planning horizon, an estimated 48 MW of additional load is expected to develop in the area served from this proposed new substation, not including the additional load at surrounding substations. It is recommended to relieve substation transformer loading at Leander and Seward Junction Substations and feeder loading at Leander Substation, avoiding upgrades and additional long feeders from these substations through congested areas.

Having a source closer to the load center will reduce distribution line losses and improve reliability by providing shorter feeders and back-up capacity for contingency situations. Substation transformer losses are also expected to be reduced with the selection of Alternative 3 because of the reduction in transformer additions required to serve the expected load growth.

- Alternative 4 recommends constructing a new substation west of Whitestone Substation to relieve substation transformer loading at Whitestone, Nameless, and Buttercup Substations, as well as feeder loading at Whitestone and Buttercup Substations. The new substation proposed in Alternative 4 would offset a transformer addition and several transformer upgrades at these stations as well as conductor upgrades and construction. Substation transformer losses are expected to be lower with this alternative than the Base Case.

  The new Alternative 4 Substation is expected to serve 55 MW of load growth over the ten-year planning horizon, in addition to growth at the existing surrounding substations. There is quite a bit of room for even more growth in the future in the areas surrounding the proposed new substation. The new proposed substation site would improve reliability from the Base Case by shortening several distribution feeders and providing back-up capacity for nearby substations.

5.2 Ten-Year Electric System Plan

The Ten-Year Electric System Plan was designed to serve a projected system peak demand of 1827.0 MW. The proposed projects assume that the following planned or in-progress PEC projects have been completed:

- T3 has been installed at Avery Ranch Substation along with two new feeders, AR230 and AR240. PEC worked with SAIC to include the associated switching in the CymDIST model, including some transfers between Avery Ranch, Whitestone, and Kent Street Substations.
- A load transfer was completed between Balcones feeders 230 and 330, with guidance from PEC.
- Reconductor 0.6 miles to 795 AAC and 0.4 miles to 1000 AL UG on Buda 10, which is a tie path to Lehigh Substation.

Recommended projects in the system plan should be considered as a proposed list that will require PEC staff's review in order to determine the overall feasibility of each project. Project timing did not account for resource or budget limitations, which PEC management and staff may wish to include when considering the feasibility of each proposed project. These considerations may result in modifications to the scope and schedule of recommended projects.

To keep the Electric System Plan aligned with long-range system goals, SAIC recommends that PEC update the Ten-Year Electric System Plan at intervals no longer than five years apart or whenever major changes occur in:

- The Economy
- Local Growth/Development
- Power Supply
- Physical Plant

Annually or bi-annually, it will be necessary to perform studies with a short-range planning horizon in order to amend current plans or accommodate system changes or problems. Short-range studies should align with the concepts and intent of the Ten-Year Electric System Plan.The plan includes the following substation and distribution improvements:

- Load Level 1
  - Upgrade Kent St Substation transformer, T1, to a 46.7-MVA transformer
  - Construct one new Kent St 24.9-kV distribution feeder
  - Convert the 12.5-kV distribution served from Balcones Substation transformers T1 and T2 to 24.9 kV
  - Upgrade the Balcones Substation transformers T1 and T2 to 46.7-MVA transformers (converting T1 and T2 to 24.9 kV)
  - Upgrade Buttercup Substation transformer T3 to a 46.7-MVA transformer
  - Construct a new Seward Junction 24.9-kV distribution feeder
  - Upgrade Blockhouse Substation transformer T1 to a 46.7-MVA transformer
  - Construct a new Blockhouse 24.9-kV distribution feeder
  - Upgrade Manchaca Substation transformers T1 and T2 to 46.7-MVA transformers
  - Install a new 46.7-MVA transformer at Lehigh Substation
  - Construct a new Lehigh 24.9-kV distribution feeder
  - Upgrade Buda Substation transformers T1 and T2 to 46.7-MVA transformers
  - Upgrade Go Forth Substation transformers T1 and T2 to 46.7-MVA transformers
  - Install a new 46.7 MVA transformer at Canyon Substation
  - Construct a new Canyon 24.9-kV distribution feeder
  - Purchase land and construct new Alternative 1 Substation with (1) 138-24.9 kV, 46.7-MVA transformer T1
  - Construct new Alternative 1 feeder NEW1 and transfer load from Balcones feeder BL340 and BL330 to the new feeder

  - Construct new Alternative 1 feeder NEW2 and transfer load from Balcones feeder BL230 to the new feeder
- Load Level 2
  - Purchase land for Alternative 2 new substation site
  - Purchase land for Alternative 4 new substation site
- Load Level 3
  - Upgrade Whitestone Substation transformers T1 and T2 to 46.7-MVA transformers
  - Install a new 46.7-MVA transformer at Blockhouse Substation
  - Upgrade Turnersville Substation transformer T1 to a 46.7-MVA transformer
  - Install a new 46.7-MVA transformer at Lehigh Substation
  - Install new Alternative 2 138-24.9 kV, 46.7-MVA transformers T1 and T2
  - Construct new Alternative 2 feeder NEW1 and transfer load from Avery Ranch feeder AR250 and AR30 to the new feeder
  - Construct new Alternative 2 feeder NEW3 and transfer load from Avery Ranch feeders AR240 and AR250
  - Construct new Alternative 2 feeder NEW5 and transfer load from Avery Ranch feeder AR250 to the new feeder
  - Construct new Alternative 2 feeder NEW6 and transfer load from Avery Ranch feeder AR30 to the new feeder
  - Purchase land for Alternative 3 new substation site
  - Construct new Alternative 4 Substation with (2) 138-24.9 kV, 46.7-MVA transformers T1 and T2
  - Construct new Alternative 4 feeder NEW2 and transfer load from Whitestone feeder WS20 and Nameless feeder NL10 to the new feeder
  - Construct new Alternative 4 feeder NEW1 and transfer load from Whitestone feeder WS50 to the new feeder
  - Construct new Alternative 4 feeder NEW3 and transfer load from Buttercup feeder BR210 to the new feeder
- Load Level 4
  - Construct new Alternative 3 Substation with (1) 138-24.9 kV, 46.7-MVA transformer T1
  - Construct new Alternative 3 feeder NEW1 and transfer load from Leander feeder LA230 to the new feeder
  - Construct new Alternative 3 feeder NEW4 and transfer load from Leander feeder LA110 to the new feeder

  - Construct new Alternative 3 feeder NEW5 and transfer load from Leander feeder LA250 and Seward Junction feeder SJ20 to the new feeder
  - Construct new Alternative 3 feeder NEW6 and transfer load from Leander feeders LA10 and LA130 to the new feeder
- Load Level 5
  - Install new Alternative 2 138-24.9 kV, 46.7-MVA transformer T3
  - Construct new Alternative 2 feeder NEW8 and transfer load from Avery Ranch feeder AR30 to the new feeder
  - Construct new Alternative 2 feeder NEW4 and transfer load from Avery Ranch feeder AR250 and Leander feeder LA230 to the new feeder
  - Install new Alternative 3 138-24.9 kV, 46.7-MVA transformers T2 and T3
  - Construct new Alternative 3 feeder NEW2 and transfer load from Leander feeder LA250 to the new feeder
- Load Level 6
  - Construct a new Balcones 24.9-kV distribution feeder
  - Construct a new Blockhouse 24.9-kV distribution feeder
  - Construct a new Go Forth 24.9-kV distribution feeder
  - Construct new Alternative 4 feeder NEW5 and transfer load from Whitestone feeder WS60 to the new feeder
- Load Level 7
  - Upgrade Lehigh Substation transformer T1 to a 46.7-MVA transformer
  - Construct a new Lehigh 24.9-kV distribution feeder
  - Install new Alternative 2 138-24.9 kV, 46.7-MVA transformer T4
  - Construct new Alternative 2 feeder NEW7 and transfer load from Avery Ranch feeder AR240 to the new feeder
  - Install new Alternative 4 138-24.9 kV, 46.7-MVA transformer T3
  - Construct new Alternative 4 feeder NEW4 and transfer load from Whitestone feeder WS20 to the new feeder
- Load Level 8
  - Construct new Alternative 3 feeder NEW3 and transfer load from Leander feeder LA230 and LA210 to the new feeder
- Load Level 10
  - Construct new Alternative 2 feeder NEW2 and transfer load from Avery Ranch feeder AR250 and Leander feeder LA230 to the new feeder

- Load Levels 1 – 10:
  - Various distribution improvements to relieve loading and improve conditions for contingency switching

The Ten-Year Electric System Plan map is presented in Exhibit 10.

To determine the cost of system improvements for the PEC electric system over the next ten years, expenditures required to serve projected loads as a result of customer growth were estimated for each year. The projected capital requirements are as follows:

Table 5-1
Ten-Year Electric System Plan Capital Requirements

Load Level	Estimated Year[1]	Capital Requirements (2011 Dollars)
1	2011	$44,516,600
2	2012	$1,395,200
3	2013	$23,697,700
4	2014	$4,328,500
5	2015	$5,561,500
6	2016	$2,491,100
7	2017	$8,121,300
8	2018	$379,600
9	2019	$59,400
10	2020	$51,700
	Total	**$90,602,600**

Note: (1) Calendar Year

5.3 System Improvements

SAIC has prepared a description of the proposed system improvement projects for PEC's Ten-Year Electric System Plan, which is described in this section. The recommended load level of construction for proposed system improvements was based on the timing of the projected criteria violations. The estimated costs are given in 2011 dollars and are not inflated to represent the expected costs in the recommended construction year.

5.3.1 Kent Street/Whitestone Substation Projects

Project 1

Location: Kent Street

Estimated Cost: $3,626,300

Load Level: 1

Description: Upgrade Kent St T1 from 37.3 MVA to 46.7 MVA and construct new feeder KS50 with 1000 AL for 8900 ft. Open both WS30 and WS40 at the substation and close at sections 418310 and 419094 to the new Kent St feeder. The transformer upgrade and feeder construction are recommended to relieve transformer loading on Whitestone T1 and T2 greater than 50%.

Project 1

Location: Kent Street – KS50

Estimated Cost: $140,900

Load Level: 4

Description: Reconductor on Kent St feeder KS50 from 336 AAC to 795 AAC for 4,000 ft between line sections 418528 and 418139. This project is recommended to relieve conductor loading greater than 65%.

See Figure 5-1 for a geographic representation of Project 1.

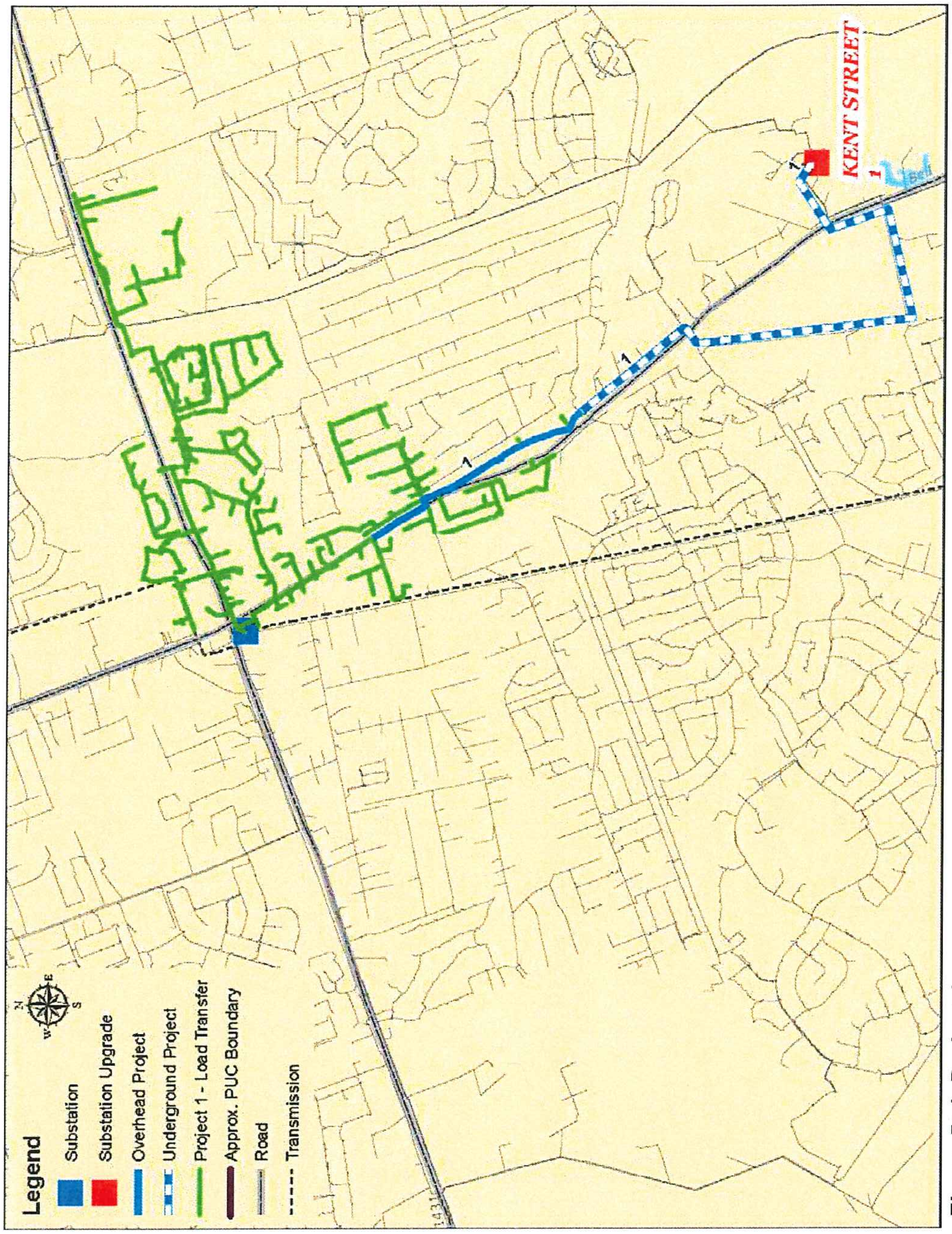

Figure 5–1. Project 1

5.3.2 Nameless/Whitestone/Buttercup Substation Projects

Project 2

Location: New Alternative Substation 4 – West of Whitestone Substation

Estimated Cost: $7,224,000

Load Level: 2 (Land Purchase)

3 (T1 & T2, new feeder 1)

7 (T3)

Description: Purchase land and construct new Alternative 4 Substation with (3) 138-24.9 kV, 46.7-MVA transformers. Construct new feeder 1 with 100 ft of 795 AAC to line section 442075607. Open the Whitestone feeder breaker WS50 at the Whitestone Substation, and transfer line section 442075607 from Whitestone feeder WS50 to new feeder 1. This project is recommended to relieve transformer loading greater than 50% on Whitestone T1.

Project 3

Location: New Alternative Substation 4 – West of Whitestone Substation

Estimated Cost: $18,900

Load Level: 3

Description: Construct new feeder 2 with 100 ft of 795 AAC to line section -1025607566, and transfer the line section to new feeder 2. Install and open a switch at line section -243870845, and close switch at line section 524420679 to transfer load from Nameless feeder NL10 to new feeder 2. Move Nameless feeder NL20 to Nameless Substation transformer T2 and Nameless feeder NL120 to Nameless Substation transformer T1. This project is recommended to relieve transformer loading greater than 50% on Nameless T1.

Project 4

Location: New Alternative Substation 4 – West of Whitestone Substation

Estimated Cost: $386,100

Load Level: 2

Description: Construct 6,400 ft of double circuit 795 AAC between line sections 1648661079 and -1669020875 to prepare for the construction of new feeder 3 in LL3. Reconductor from three-phase 4 ACSR to 795 AAC for 1,400 ft from line sections 407159 to 407171 on Buttercup feeder BR210. This project is recommended to relieve transformer loading greater than 50% on Buttercup T1.

Project 4

Location: New Alternative Substation 4 – West of Whitestone Substation

Estimated Cost: $18,900

Load Level: 3

Description: Construct new feeder 3 with 100 ft of 795 AAC. Install open switch at 407189 and close switch at -1492233697 to transfer load from Buttercup feeder BR210 to new feeder 3. This project is recommended to relieve transformer loading greater than 50% on Buttercup T1.

Project 5

Location: Whitestone

Estimated Cost: $4,960,000

Load Level: 3

Description: Upgrade Whitestone T1 and T2 from 37.3 MVA to 46.7 MVA. The transformer upgrades are recommended to relieve transformer loading on Whitestone T1 and T2 greater than 50%.

Project 6

Location: New Alternative Substation 4 – West of Whitestone Substation

Estimated Cost: $671,000

Load Level: 6

Description: Construct new feeder 5 with 100 ft of 795 AAC and 10,000 ft of double circuit 795 AAC to line section 420576. Open switch at 1738713843 and back feed line section 420576 from Whitestone feeder WS60 to the new feeder 5. Reconductor 336 ACSR to 795 AAC for 4,000 ft from line section 419109 to 418390. This project is recommended to relieve transformer loading greater than 50% on Whitestone T1.

Project 7

Location: New Alternative Substation 4 – West of Whitestone Substation

Estimated Cost: $103,400

Load Level: 7

Description: Construct new feeder 4 with 100 ft of 795 AAC to line section -104120060. Install open switch at 419759 and back feed line section -104120060 from Whitestone feeder WS20 to the new feeder 4. Reconductor 336 ACSR to 795 AAC for 2,400 ft from line section 410291 to 410251. This project is recommended to relieve transformer loading greater than 50% on Whitestone T1.

See Figure 5-2 for a geographic representation of Projects 2-7.

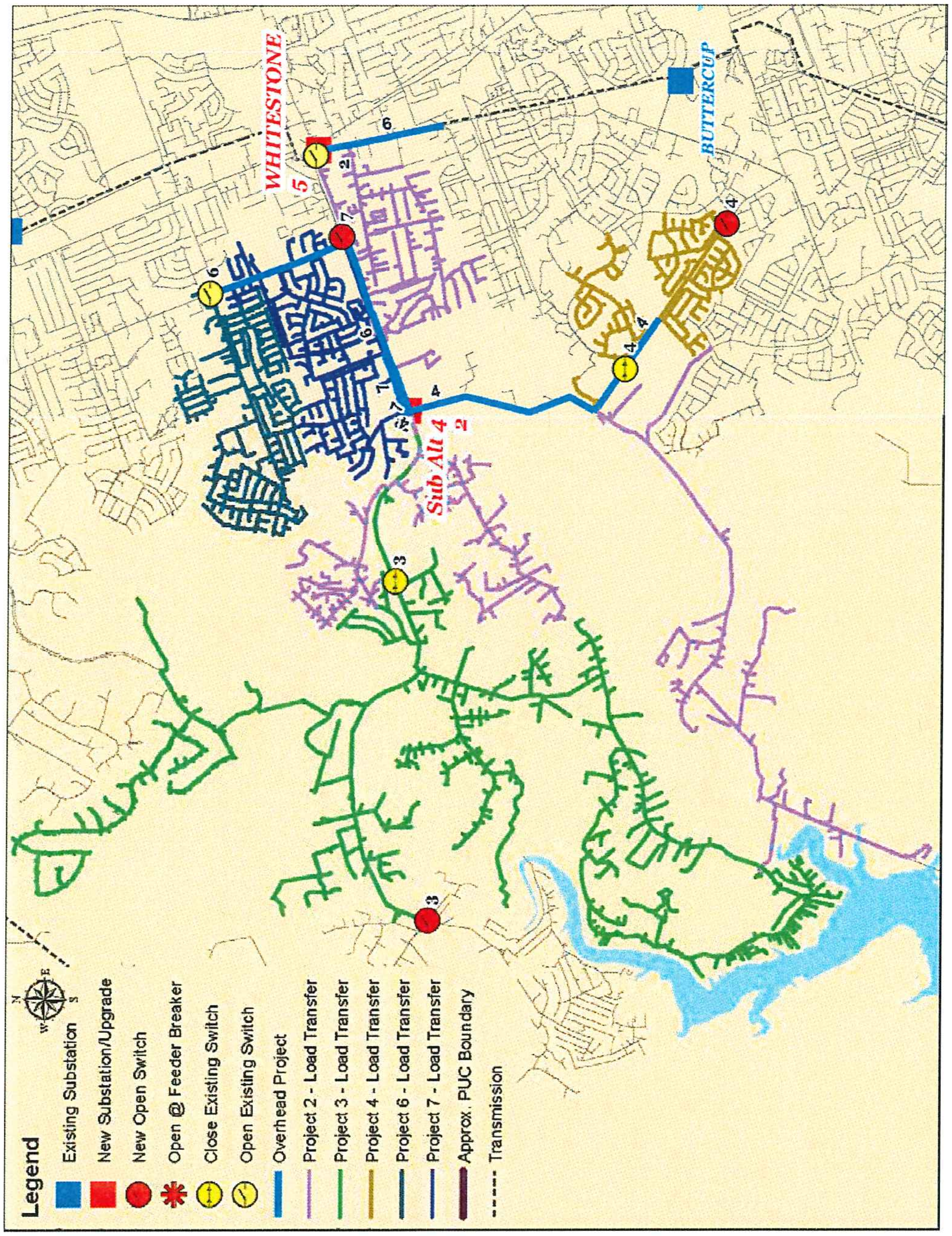

Figure 5–2. Projects 2-7

5.3.3 Buttercup/Balcones Substation Projects

Project 8

Location: Balcones

Estimated Cost: $6,752,500

Load Level: 1

Description: Convert Balcones T1 and T2 to 24.9 kV and upgrade both transformers from 22.4 MVA to 46.7 MVA. Convert feeders 10, 20, 30, 80, and 90 to 24.9 kV. This project is recommended to relieve transformer loading on Balcones T1 and T2 greater than 50% and conductor loading greater than 65%.

Project 9

Location: Buttercup

Estimated Cost: $2,480,000

Load Level: 1

Description: Upgrade Buttercup T3 from 22.4 MVA to 46.7 MVA. The transformer upgrade is recommended to relieve transformer loading on Buttercup T3 greater than 50%.

Project 10

Location: Buttercup – BR210

Estimated Cost: $331,500

Load Level: 1

Description: Reconductor on Buttercup feeder BR210 from 336 AAC to 795 AAC for 6,300 ft from the substation to line section 1651227892. This project is recommended to relieve conductor loading greater than 65%.

Project 11

Location: Buttercup – BR340

Estimated Cost: $590,600

Load Level: 1

Description: Construct new Buttercup feeder BR340 with 500 Cu for 500 ft from line section 120790219 and double circuit 1000 AL with Buttercup BR20 for 2,700 ft. Construct 1,100 ft of 500 Cu from the end of the double circuit with BR20 to line section 415245 and transfer taps 415245 and 414738 to the new construction. This project is recommended to relieve transformer loading on Buttercup T1.

Project 12

Location: Balcones – BL320

Estimated Cost: $373,400

Load Level: 1

Description: Reconductor on Balcones feeder BL320 from 336 AAC to 795 AAC for 10,600 ft from the substation to line section -446269090. This project is recommended to relieve conductor loading greater than 65%.

Project 13

Location: New Alternative Substation 1 – Southwest of Balcones Substation

Estimated Cost: $4,238,900

Load Level: 1

Description: Purchase land and construct new Alternative 1 Substation with (1) 138-24.9 kV, 46.7-MVA transformer T1. Construct new feeder 1 with 100 ft of 795 AAC to the existing distribution circuit. Install open switch at -30126717 on Balcones BL330 and close switch at 412570 to back feed to the new construction. This project is recommended to relieve transformer loading greater than 50% on Balcones T4.

Project 14

Location: New Alternative Substation 1 – Southwest of Balcones Substation

Estimated Cost: $3,900

Load Level: 1

Description: Construct new feeder 2 with 795 AAC to the existing distribution circuit. Open switch at -1868338012 on Balcones BL230 and back feed to the new construction. This project is recommended to relieve transformer loading greater than 50% on Balcones T3.

Project 15

Location: Buttercup – BR220

Estimated Cost: $15,000

Load Level: 2

Description: Open from Buttercup feeder BR220 at line section 414698 by installing a switch and close at 414784 to transfer the load to Balcones feeder BL30. Move Buttercup feeder BL220 to Buttercup breaker BL340. This project is recommended to relieve transformer loading on Buttercup T2 greater than 50%.

Project 16

Location: Buttercup – BR20

Estimated Cost: $526,200

Load Level: 2

Description: Reconductor on Buttercup feeder BR20 from 336 AAC to 795 AAC for 10,000 ft from the substation to line section 415312. This project is recommended to relieve conductor loading greater than 65%.

Project 17

Location: Balcones

Estimated Cost: $15,000

Load Level: 2

Description: Open switch at 415045 to transfer load from Balcones feeder BL30 and close switch at 413435 to move load to Balcones feeder BL90. Install an open switch at 413748 to transfer load from Balcones feeder BL30 and close switch at 414066 to move load to Balcones feeder BL90. Move Balcones feeder BL90 to Balcones T4 and Balcones Feeder BL320 to Balcones T2. This project is recommended to relieve transformer loading greater than 50% on Balcones T4.

Project 18

Location: Balcones

Estimated Cost: $391,900

Load Level: 6

Description: Construct new Balcones feeder BL10 with 1,000 ft of 1000 AL, double circuit 5,000 ft of 1000 AL with Balcones feeder BL330. Transfer line section 417842 from Balcones feeder BL330 to the new Balcones feeder BL10. Reconductor Balcones feeder BL330 from 336 AAC to 795 AAC during double circuit construction with Balcones BL10. This project is recommended to relieve conductor loading greater than 65%.

Project 19

Location: New Alternative Substation 1 – Southwest of Balcones Substation

Estimated Cost: $18,900

Load Level: 6

Description: Construct new feeder 3 with 100 ft of 795 AAC to the existing distribution circuit. Install open switch at 409445 on Balcones BL220 and back feed to the new construction. This project is recommended to relieve transformer loading greater than 50% on Balcones T3.

Project 20

Location: New Alternative Substation 1 – Southwest of Balcones Substation

Estimated Cost: $153,900

Load Level: 7

Description: Reconductor on new Alternative 1 feeder 1 from 1/0 AAC to 336 ACSR for 7,000 ft from the substation to line section 409332. This project is recommended to relieve conductor loading greater than 65%.

See Figure 5-3 for a geographic representation of Projects 8-12 and 15-18 and Figure 5-4 for a geographic representation of Projects 13, 14, 19, and 20.

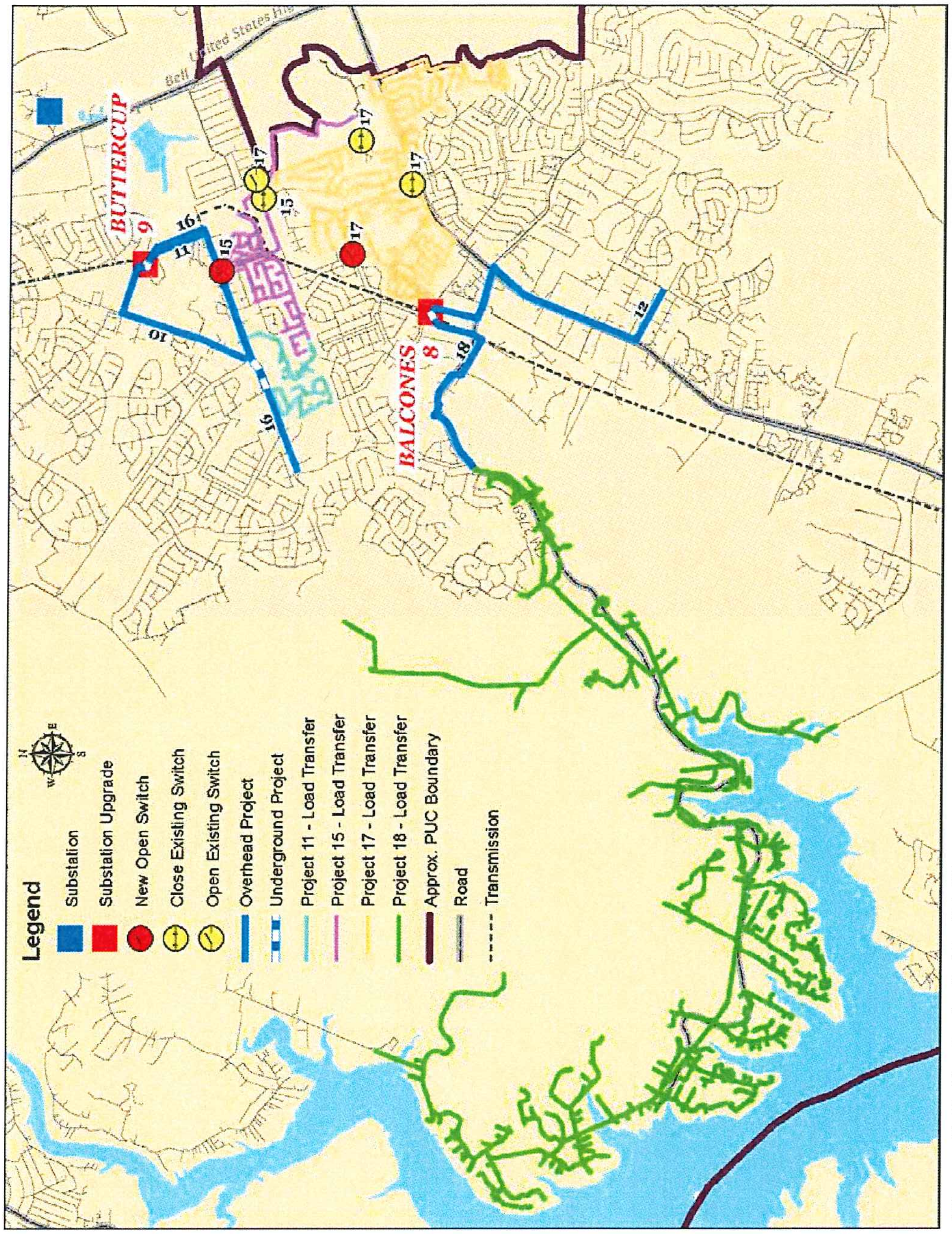

Figure 5–3. Projects 8-12; 15-18

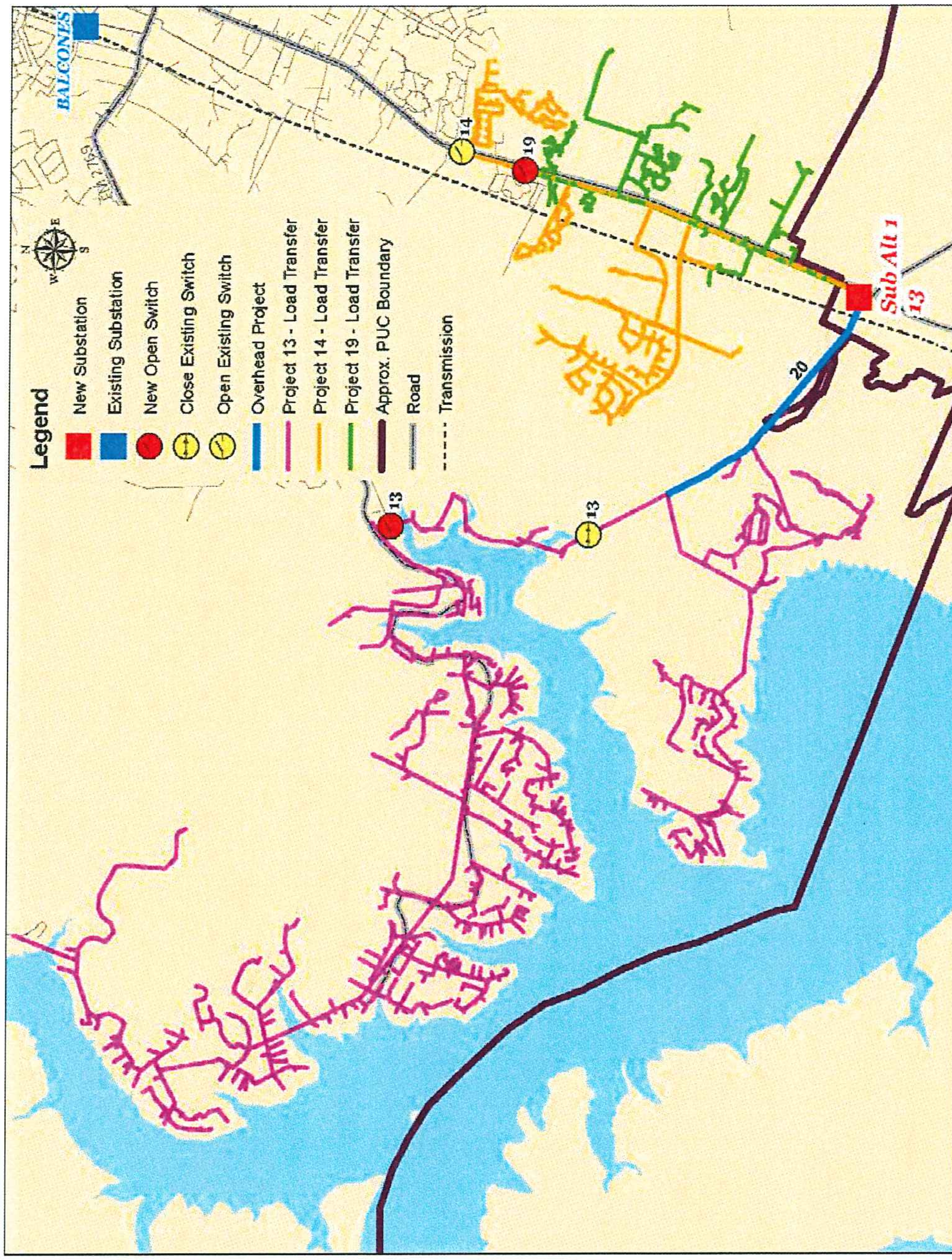

Figure 5–4. Projects 13,14,19,20

5.3.4 Avery Ranch/Leander

Project 21

Location: New Alternative Substation 2 – North of Avery Ranch Substation

Estimated Cost: $8,725,800

Load Level: 2 (Land Purchase)

3 (T1 & T2, new feeder 1)

5 (T3)

7 (T4)

Description: Purchase land and construct new Alternative 2 Substation with (4) 138-24.9 kV, 46.7-MVA transformers. Construct new feeder 1 getaway with 150 ft of 795 AAC to the line section 409778 and transfer that tap from Avery Ranch feeder AR250 to the new feeder 1. Open switch at 689971324 and close switch 1533873507 to transfer load from Avery Ranch feeder AR30. This project is recommended to relieve transformer loading greater than 50% on Avery Ranch T1.

Project 22

Location: New Alternative Substation 2 – North of Avery Ranch Substation

Estimated Cost: $35,800

Load Level: 3

Description: Construct new feeder 3 getaway with 150 ft of 795 AAC to the line section 829096974 and transfer that tap from Avery Ranch feeder AR250 to the new feeder 3. Install open switch at 402839 and close switch -343248229 to transfer load to the new feeder 3. Install open switch at 539218222 and close switch at 402839 to transfer load from Avery Ranch feeder AR240. This project is recommended to relieve transformer loading greater than 50% on Avery Ranch T3.

Project 23

Location: New Alternative Substation 2 – North of Avery Ranch Substation

Estimated Cost: $84,700

Load Level: 3

Description: Construct new feeder 5 getaway with 150 ft of 795 AAC to get away from the substation. From the getaway construct 1,500 ft of double circuit 795 AAC to line section -1800138767 and transfer the tap from Avery Ranch feeder AR130. Open switch at 405612 and 405603 and close switch -549459701 to new feeder 5. This project is recommended to relieve transformer loading greater than 50% on Avery Ranch T3.

Project 24

Location: New Alternative Substation 2 – North of Avery Ranch Substation

Estimated Cost: $324,800

Load Level: 3

Description: Construct new feeder 6 getaway with 150 ft of 795 AAC to get away from the substation. From the getaway, construct 7,800 ft of 795 AAC to line section -1877107716 and transfer the tap from Avery Ranch feeder AR130 to new feeder 6. Install open switch at 401145 and close switch at 400949 to transfer load from Avery Ranch feeder AR30. This project is recommended to relieve transformer loading greater than 50% on Avery Ranch T2.

Project 25

Location: New Alternative Substation 2 – North of Avery Ranch Substation

Estimated Cost: $102,700

Load Level: 5

Description: Construct new feeder 4 getaway with 150 ft of 795 AAC to line section 409778 and construct 1,900 ft of 795 AAC to line section 998065616. Open switch at -1266007323 and back feed 998065616 to transfer load from Avery Ranch feeder AR250. Extend 795 AAC from line section -925095635 to -6899707106 for 200 ft. Transfer line section -6899707106 from Leander feeder LA230 to the new feeder 4. Then install open switch at line section -2098565445 and close switch -1979310756 to transfer load from Leander feeder LA250 to new feeder 4. This project is recommended to relieve transformer loading greater than 50% on Leander T3.

Project 26

Location: New Alternative Substation 2 – North of Avery Ranch Substation

Estimated Cost: $295,100

Load Level: 5

Description: Construct new feeder 8 getaway with 150 ft of 795 AAC to get away from the substation. From the getaway construct 1,500 ft of double circuit 795 AAC to line section -1800138767, 3,100 ft of 795 AAC, and continue with 1,700 ft of double circuit 795 AAC to line section 689971324. Transfer line section -1764785331 from Avery Ranch feeder AR30 to the new feeder 8. This project is recommended to relieve transformer loading greater than 50% on Avery Ranch T1.

Project 27

Location: New Alternative Substation 2 – North of Avery Ranch Substation

Estimated Cost: $263,000

Load Level: 7

Description: Construct new feeder 6 getaway with 150 ft of 795 AAC to get away from the substation. From the getaway, construct 6,600 ft of 795 AAC to line section 1140962881 and transfer the tap from Avery Ranch feeder AR240. This project is recommended to relieve transformer loading greater than 50% on Avery Ranch T3.

Project 28

Location: New Alternative Substation 2 – North of Avery Ranch Substation

Estimated Cost: $51,700

Load Level: 10

Description: Construct new feeder 2 getaway with 150 ft of 795 AAC to the line section -401770607 and transfer that tap from Avery Ranch feeder AR250 to the new feeder 2. Install open switch at 942457519 and close switch 409775 to transfer load from Leander feeder LA230. Reconductor 1/0 AAC to 795 AAC from line section 401022 to 401019 for 450 ft. Then install open switch at line section 1541944083 and close switch -901979660 to transfer load from Leander feeder LA230 to new feeder 2. This project is recommended to relieve transformer loading greater than 50% on Leander T3.

See Figure 5-5 for a geographic representation of Projects 21-28.

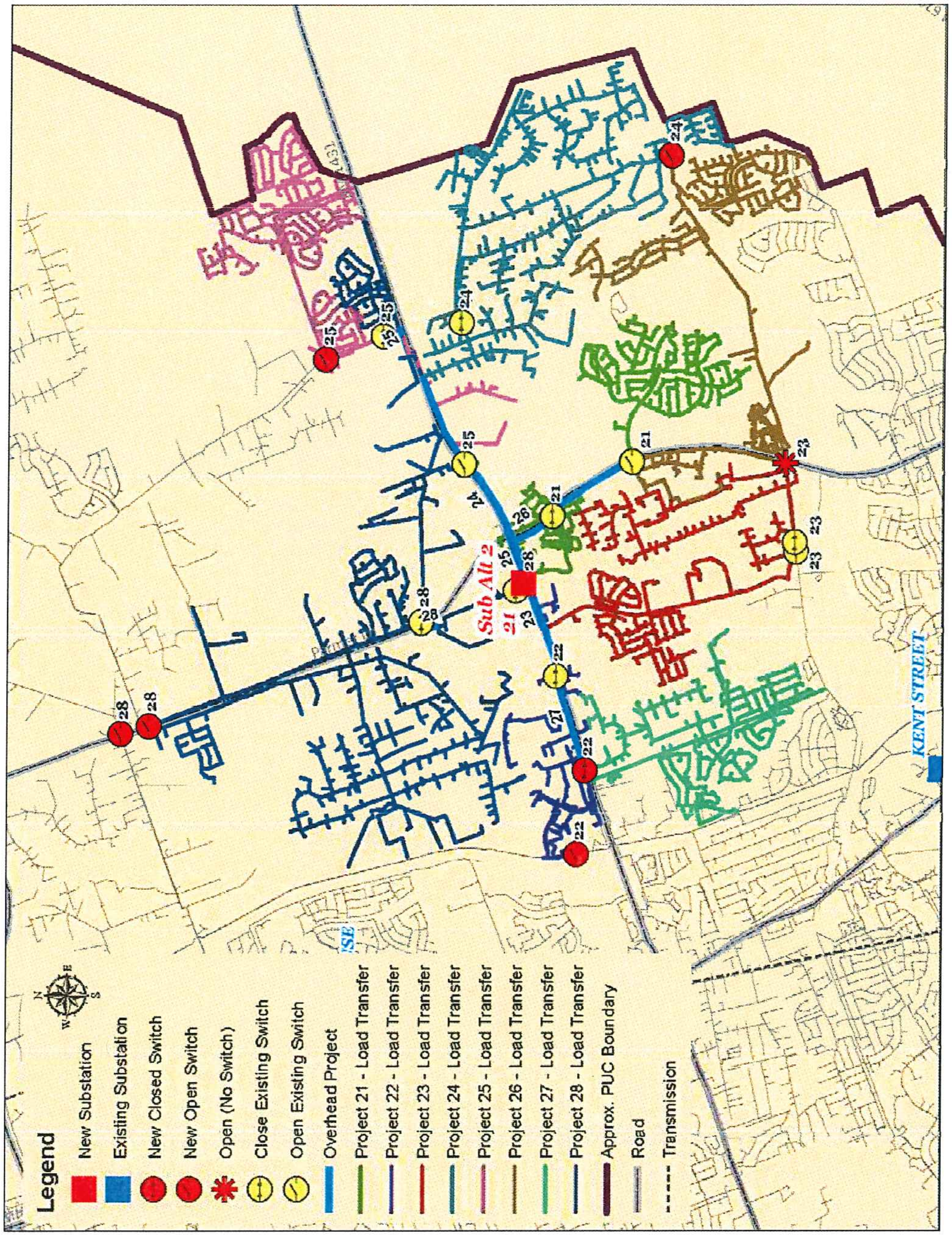

Figure 5–5. Projects 21-28

5.3.5 Seward Junction/Leander

Project 29

Location: Seward Junction

Estimated Cost: $682,600

Load Level: 1

Description: Construct new Seward Junction feeder SJ130 with 5,300 ft of 1000 AL and open the switch on line section 338323 to move load from Leander feeder LA10 and close to the new Seward Junction feeder SJ130 at line section 2067007172. This project is recommended to relieve transformer loading on Leander T3 greater than 50% and conductor loading on Leander feeder LA10 greater than 65%.

Project 30

Location: Leander – LA10

Estimated Cost: $52,800

Load Level: 2

Description: Reconductor on Leander feeder LA10 from line section 342082 to 338441 from 336 AAC to 795 AAC for 1,500 ft. This project is recommended to relieve conductor loading on Leander feeder LA10 greater than 65%.

Project 31

Location: New Alternative Substation 3 – Southeast of Leander Substation

Estimated Cost: $6,487,300

Load Level: 3 (Land Purchase)
4 (T1, new feeder 1)
5 (T2)

Description: Construct new Alternative 3 Substation with (2) 138-24.9 kV, 46.7-MVA transformers southeast of Leander Substation. Construct new feeder 1 getaway with 400 ft of 795 AAC to the line section 1541944083. Install open switch at 167139926 and close to the new feeder 1 at that location. Extend new feeder 1 with 795 AAC for 14,000 ft from line section 427895624 to -1215132181. Transfer tap -1215132181 from Leander feeder LA250 to the new feeder 1. This project is recommended to relieve transformer loading greater than 50% on Leander T3.

Project 32

Location: New Alternative Substation 3 – Southeast of Leander Substation

Estimated Cost: $544,700

Load Level: 4

Description: Construct new feeder 4 getaway with 400 ft of 795 AAC to line section 587997414. From the getaway construct double circuit 795 AAC for 7,400 ft with existing system Leander feeders LA230 and LA210, 550 ft of 795 AAC, and continue with 2,000 ft of double circuit 795 AAC with Leander feeder LA210 to line section 767331699. Install and open a switch at -1169829501 and close switch -141071112 to transfer load to the new feeder. This project is recommended to relieve transformer loading greater than 50% on Leander T3.

Project 33

Location: New Alternative Substation 3 – Southeast of Leander Substation

Estimated Cost: $30,000

Load Level: 4

Description: Install and open a switch at 1908936161 and close switch at -752637149 to transfer load to Leander feeder LA10 from Leander feeder LA130. Install open switch at 1539999063 and close switch at 602445272 to transfer load to Leander feeder LA130 from Leander feeder LA10. This project is recommended to achieve a better load balance on the Leander feeders.

Project 34

Location: New Alternative Substation 3 – Southeast of Leander Substation

Estimated Cost: $45,600

Load Level: 4

Description: Construct new feeder 5 getaway with 400 ft of 795 AAC to line section -1564324195. Install open switch at -601844615 and back feed at -1564324195 to the new feeder 5. Install open switch at -684533733 and close the switch at 1038406848 to transfer load from Seward Junction feeder SJ20 to the new feeder 5. This project is recommended to relieve transformer loading greater than 50% on Seward Junction T2.

Project 35

Location: New Alternative Substation 3 – Southeast of Leander Substation

Estimated Cost: $15,600

Load Level: 5

Description: Construct new feeder 2 getaway with 400 ft of 795 AAC to line section 620748053 and transfer that tap from Leander feeder LA250 to the new feeder 2. This project is recommended to relieve transformer loading greater than 50% on Leander T3.

Project 36

Location: New Alternative Substation 3 – Southeast of Leander Substation

Estimated Cost: $27,300

Load Level: 8

Description: Construct new feeder 3 getaway with 400 ft of 795 AAC to line section 587997414 and transfer that tap from Leander feeder LA230 to the new feeder 3. Extend with 795 AAC for 300 ft from line section -1992132191 to -995556503 and open switch at 402562 closing to the new extension to transfer load from Leander feeder LA210. This project is recommended to relieve transformer loading greater than 50% on Leander T3.

See Figure 5-6 for a geographic representation of Projects 29 and 30 and Figure 5-7 for a geographic representation of Projects 31-36.

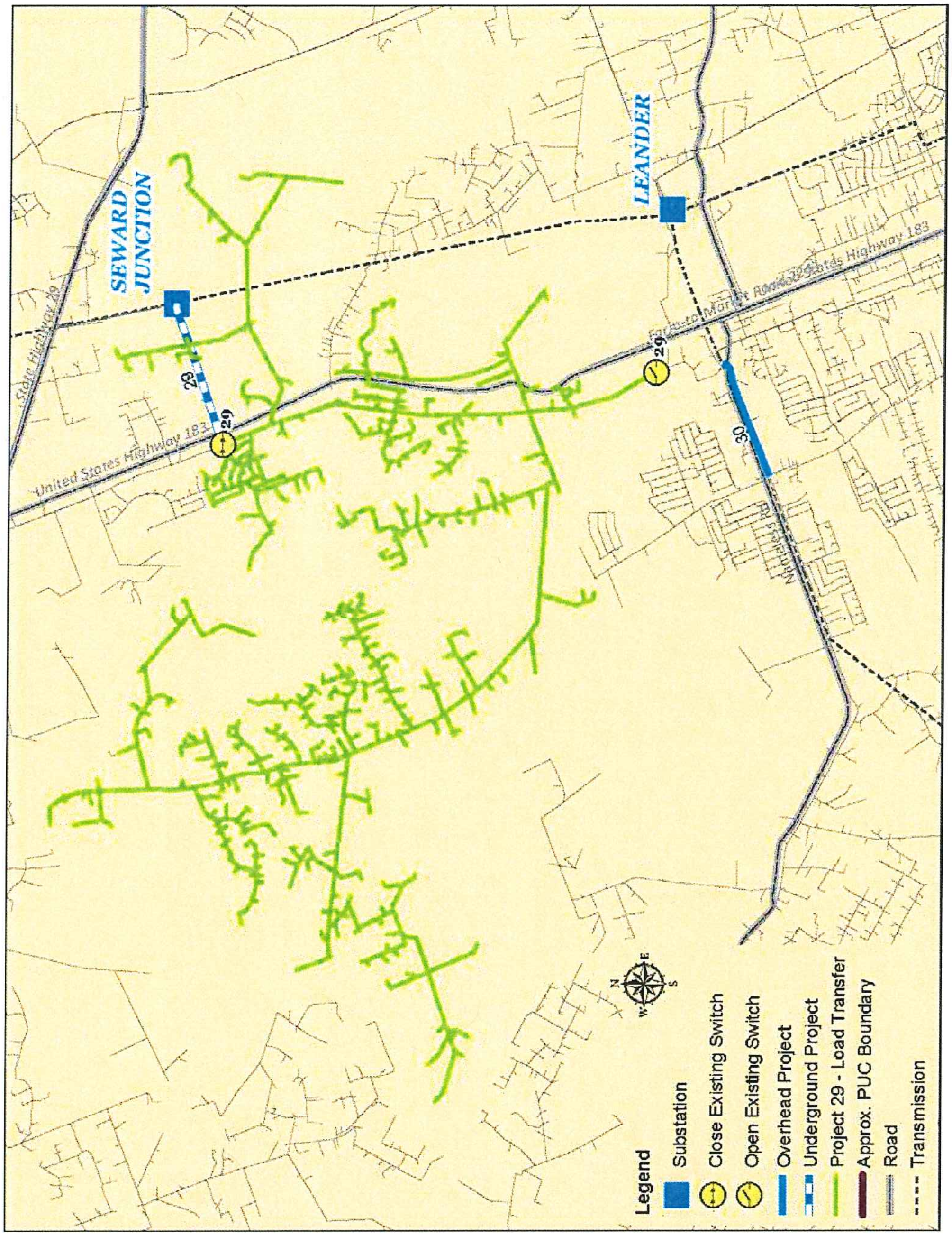

Figure 5–6. Projects 29 and 30

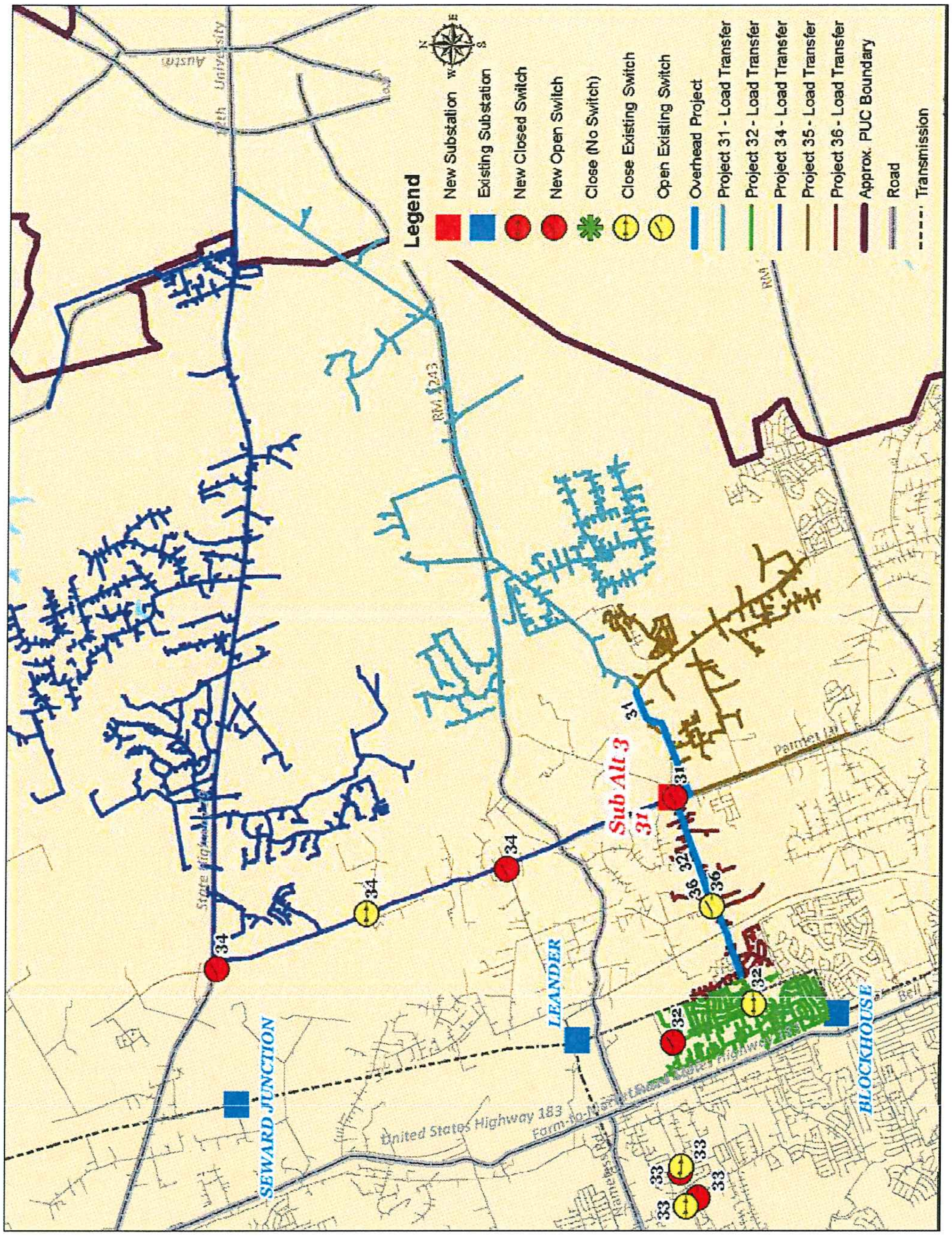

Figure 5–7. Projects 31-36

5.3.6 Blockhouse

Project 37

Location: Blockhouse

Estimated Cost: $5,560,000

Load Level: 1 (T1) and 3 (T3)

Description: Upgrade Blockhouse T1 from 22.4 MVA to 46.7 MVA and install a 46.7-MVA transformer at Blockhouse. In order to balance the load on the Blockhouse transformers move Blockhouse feeder BH140 from Blockhouse T2 to Blockhouse T1 and move Blockhouse feeder BH20 from Blockhouse T1 to Blockhouse T2. The transformer upgrade is recommended to relieve transformer loading on Blockhouse T1 and T2 greater than 50%.

Project 38

Location: Blockhouse

Estimated Cost: $938,900

Load Level: 1

Description: Construct new Blockhouse feeder BHNEW1 with 1,350 ft of 1000 AL from the substation to line section 1209016904 and then double circuit with Blockhouse feeder BH140 for 4,400 ft of 1000 AL to line section 421188. Transfer the tap at section -15721752 from BH140 to BHNEW1 and construct 800 ft of double circuit 1000 AL down to section 674082839. Transfer the tap at section 421275 from BH140 to BHNEW1. The new feeder is recommended to relieve transformer loading on Blockhouse T2 greater than 50%.

Project 39

Location: Blockhouse

Estimated Cost: $1,114,300

Load Level: 6 (New Feeder) and 8 (Reconductor)

Description: Construct new Blockhouse feeder BHNEW2 with 5,800 ft of 1000 AL from the substation to line section -1215568786 and then transfer line section -1215568786 from Blockhouse feeder BH140 to the new Blockhouse feeder BHNEW2. Install an open switch on line section 336665992 and close switch 421189 to transfer load from Blockhouse feeder BH130 to the new Blockhouse feeder BHNEW2. Reconductor from 336 AAC and 1/0 to 795 AAC from line section -1215568786 to 410451 for 10,000 ft. The new feeder is recommended to relieve conductor loading on Blockhouse feeder BH140 and BH130 greater than 65%.

See Figure 5-8 for a geographic representation of Projects 37-39.

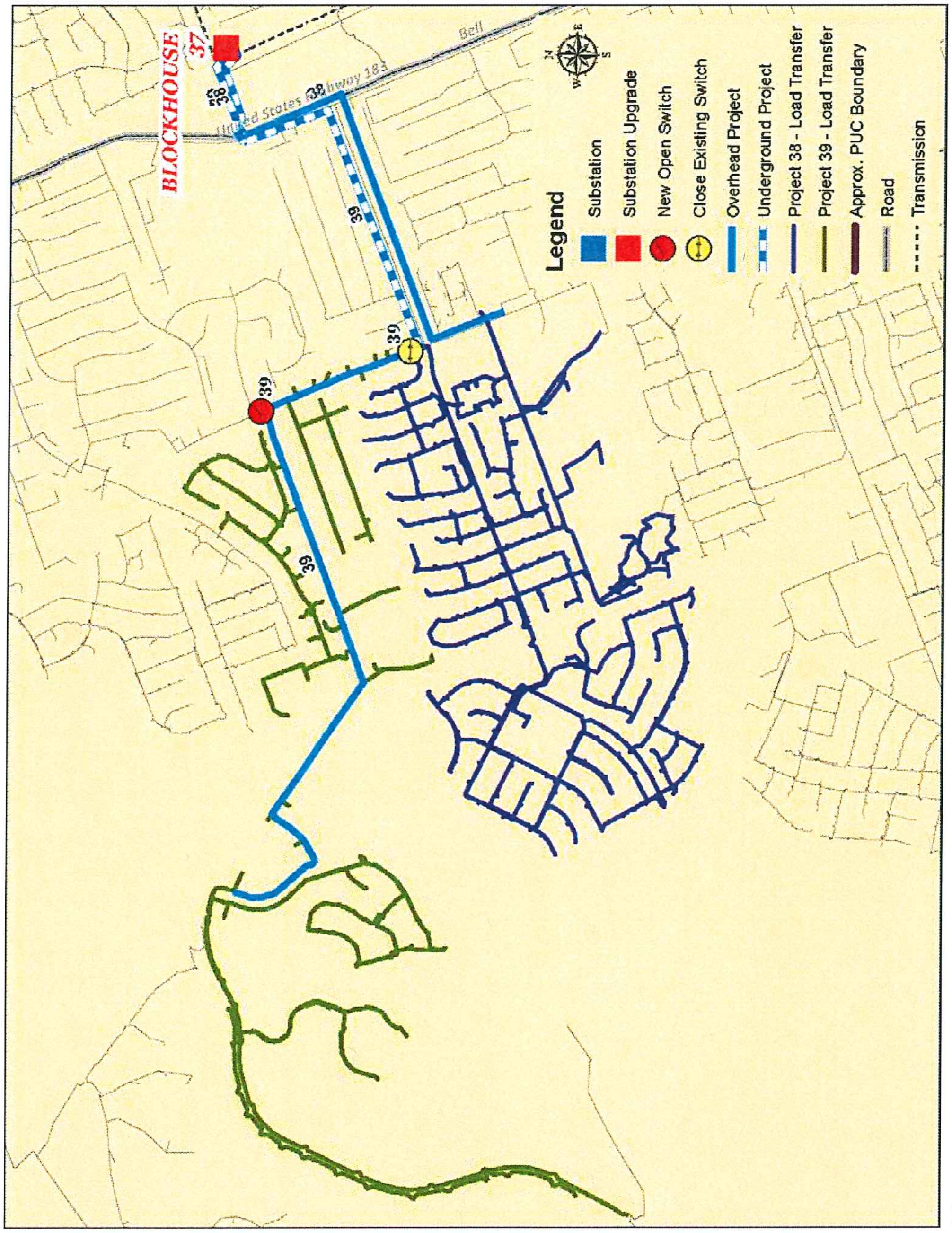

Figure 5–8. Projects 37-39

5.3.7 Conductor Upgrades and Regulator Installation (North)

Project 40

Location: Blockhouse – BH130

Estimated Cost: $133,900

Load Level: 1

Description: Reconductor on Blockhouse feeder BH130 from line section 420957 to 421746 from 336 AAC to 795 AAC for 3,800 ft. This project is recommended to relieve conductor loading on Blockhouse feeder BH130 greater than 65%.

Project 41

Location: Blockhouse – BH40

Estimated Cost: $28,200

Load Level: 5

Description: Reconductor on Blockhouse feeder BH40 from line section 1897372631 to 421787 from 336 AAC to 795 AAC for 800 ft. This project is recommended to relieve conductor loading on Blockhouse feeder BH40 greater than 65%.

Project 42

Location: Leander – LA250

Estimated Cost: $109,900

Load Level: 5

Description: Reconductor on Leander feeder LA250 from line section 724240612 to 401387 from 1/0 to 336 ACSR for 5,000 ft. This project is recommended to relieve conductor loading on Leander feeder LA250 greater than 65%.

Project 43

Location: Nameless – NL120

Estimated Cost: $60,000

Load Level: 5

Description: Install three single-phase 250 amp voltage regulators on Nameless feeder NL120 at line section 1926752080. This project is recommended to improve voltage on Nameless feeder NL120 from 119.4 V to 123.2 V at LL10.

Project 44

Location: Seward Junction – SJ120

Estimated Cost: $59,400

Load Level: 9

Description: Reconductor on Seward Junction feeder SJ120 from line section -1215132181 to 402145 from 1/0 to 336 ACSR for 2,700 ft. This project is recommended to relieve conductor loading on Seward Junction feeder SJ120 greater than 65%.

See Figure 5-9 for a geographic representation of Projects 40-44

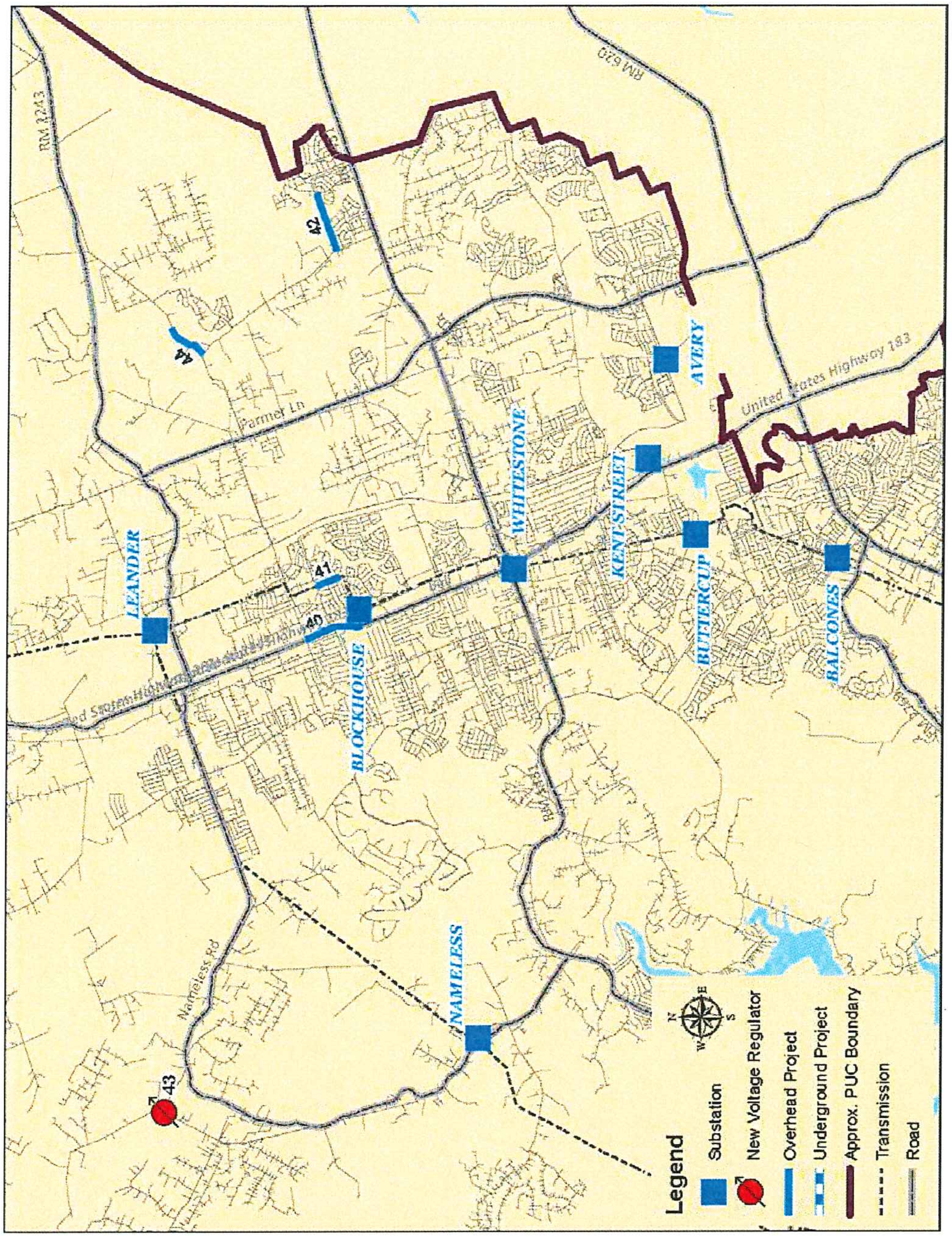

Figure 5–9. Projects 40-44

5.3.8 Manchaca

Project 45

Location: Manchaca

Estimated Cost: $5,161,700

Load Level: 1 (T1 & T2)
3 (Reconductor)

Description: Upgrade Manchaca T1 and T2 from 22.4 MVA to 46.7 MVA. Install an open switch at line section -1676059073 and close to line section 945987059 to transfer load from Manchaca feeder MC50 to Manchaca feeder MC130. Reconductor on Manchaca feeder MC50 from line section 504962 to 504734 from 336 AAC to 795 AAC for 5,300 ft. This project is recommended to relieve transformer loading on Manchaca T1 and T2 greater than 50% and conductor loading on Manchaca feeder MC50 greater than 65%.

See Figure 5-10 for a geographic representation of Project 45

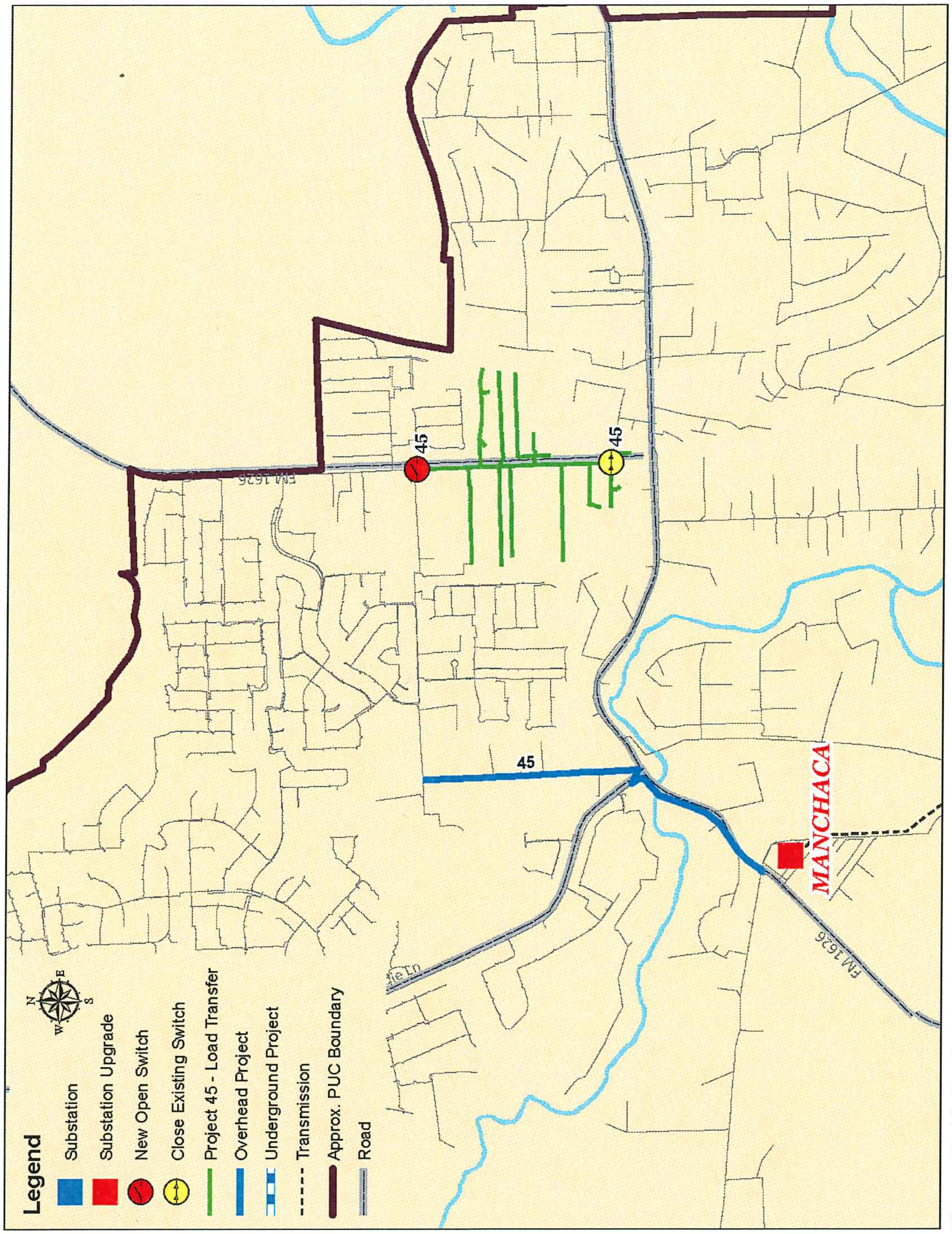

Figure 5–10. Project 45

5.3.9 Buda/Lehigh/Turnersville

Project 46

Location: Lehigh

Estimated Cost: $3,102,800

Load Level: 1

Description: Install new 138 - 24.9-kV, 46.7-MVA transformer at Lehigh (T2). Install an open switch at line section 511229, construct 795 AAC for 200 ft between the LH20 substation getaway and line section 511176, and close to line section 511176 to transfer load from Buda feeder BD10 to Lehigh feeder LH20. Transfer Lehigh feeder LH20 from Lehigh T1 to T2. This project is recommended to relieve transformer loading on Buda T1 greater than 50% and conductor loading on Buda feeder BD10 greater than 65%.

Project 47

Location: Buda

Estimated Cost: $4,960,000

Load Level: 1

Description: Upgrade Buda T1 and T2 from 22.4 MVA to 46.7 MVA. The transformer upgrade is recommended to relieve transformer loading on Buda T2 greater than 50%. Buda T1 will also be upgraded at the same time as Buda T2 to keep firm capacity.

Project 48

Location: Turnersville/Buda

Estimated Cost: $82,600

Load Level: 2

Description: Extend Turnersville feeder TV90 for 1,350 ft with 795 AAC from line section -895579931 to 513344. Install an open switch at line section 236847167 and close at line section 234 to transfer load from Buda feeder BD130 to Turnersville feeder TV90. Install an open switch at line section 607365737 and close at line section 448383592 to transfer load from Turnersville feeder TV110 to Turnersville feeder TV90. This project is recommended to relieve transformer loading on Buda T2 greater than 50% and conductor loading on Buda feeder BD130 greater than 65%.

Project 49

Location: Buda – BD120

Estimated Cost: $77,500

Load Level: 6

Description: Reconductor on Buda feeder BD120 from line section 500838 to 517907 from 336 AAC to 795 AAC for 2,200 ft. This project is recommended to relieve conductor loading on Buda feeder BD120 greater than 65%.

Project 50

Location: Lehigh

Estimated Cost: $2,480,000

Load Level: 7

Description: Upgrade Lehigh T1 from 37.3 MVA to 46.7 MVA. The transformer upgrade is recommended to relieve transformer loading on Lehigh T1 greater than 50%.

See Figure 5-11 for a geographic representation of Projects 46-50

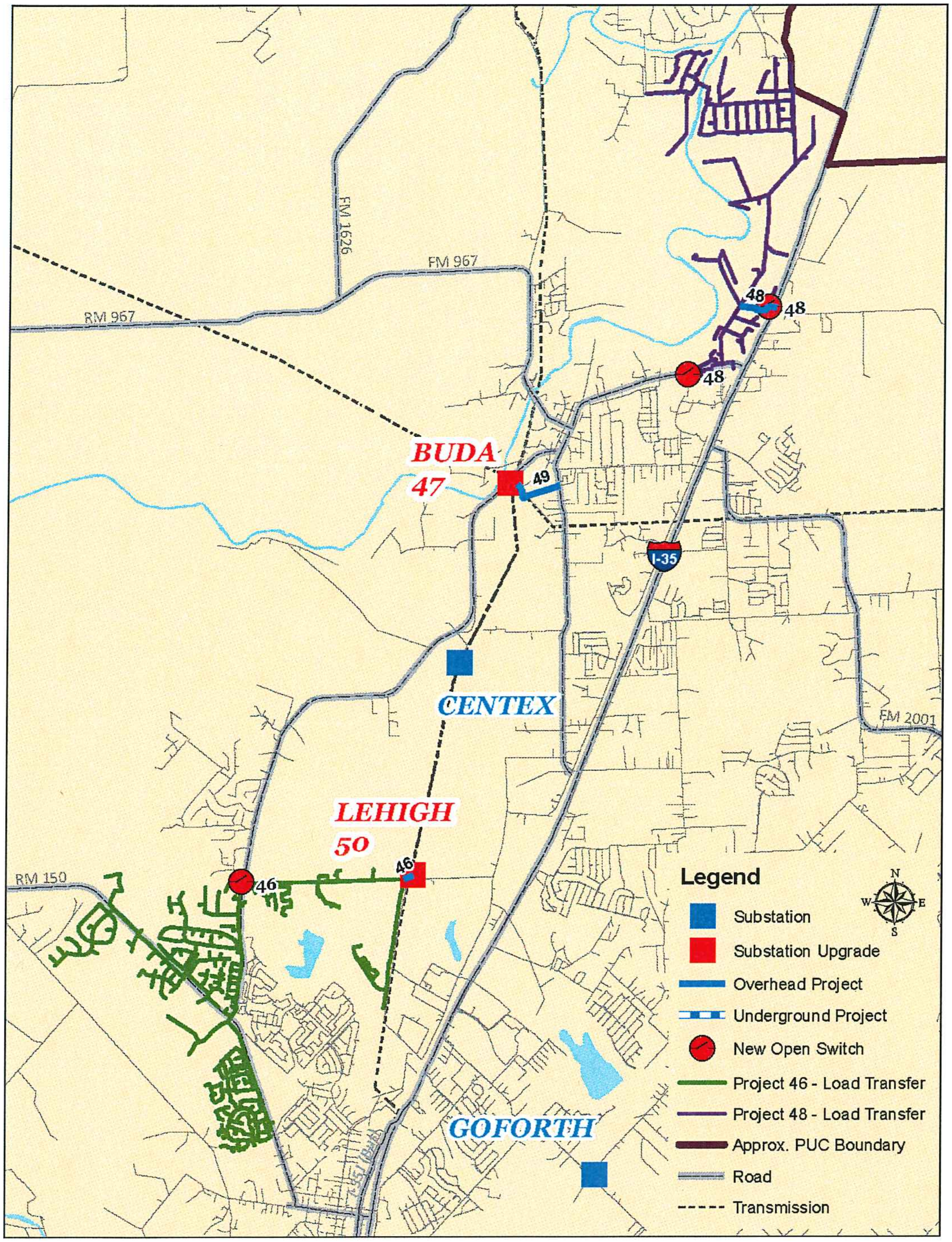

Figure 5–11. Project 46-50

5.3.10 Lehigh/Turnersville/Goforth/Kyle/Canyon

Project 51

Location: Lehigh

Estimated Cost: $799,800

Load Level: 1 and 3 (800 ft Reconductor)

Description: Construct new Lehigh feeder LHNEW1 on Lehigh T2 with 600 ft of 1000 AL and 10,200 ft of 795 AAC from the substation to line section -808832401 and transfer -808832401 from Lehigh feeder LH40 to the new Lehigh feeder. Install an open switch on line section 517086 and close switch 28927310 to transfer load from Turnersville feeder TV50 to the new Lehigh feeder LHNEW1. Reconductor on Lehigh feeder LHNEW1 from line section -2001368854 to 517250 from 1/0 to 795 AAC for 8,000 ft. Reconductor on Lehigh feeder LHNEW1 from line section 517246 to 517251 from 1/0 to 795 AAC for 800 ft. This project is recommended to relieve transformer loading on Turnersville T1 greater than 50% and conductor loading on Turnersville feeder TV50 and Lehigh feeder LHNEW1 greater than 65%.

Project 52

Location: Goforth

Estimated Cost: $4,975,000

Load Level: 1

Description: Upgrade Goforth T1 (22.4 MVA) and T2 (37.3 MVA) to 46.7 MVA. Install an open switch at line section 1158462646 and close at switch -706629872 to transfer load from Goforth feeder GF110 to Lehigh feeder LH50. This project is recommended to relieve Transformer loading on Goforth T1 and T2 greater than 50% and conductor loading on Goforth feeder GF110 greater than 65%.

Project 53

Location: Canyon/Kyle

Estimated Cost: $3,039,700

Load Level: 1

Description: Install new 138 - 24.9-kV, 37.3-MVA transformer at Canyon Substation. Close breaker for new Canyon feeder CN40. Install new switch at line section 505945 and back-feed at line section -646430232 to transfer load from Kyle feeder KY50 to Canyon feeder CN40. Construct new Canyon feeder CN50 with 250 ft of 795 AAC from the substation to line section 124785855 and transfer line section 124785855 to the new feeder. Install open switch at line section -1880012354 and close to switch -1192590638 to transfer load from Kyle feeder KY30 to Canyon feeder CN50. This project is recommended to relieve transformer loading on Kyle T1 greater than 50% and conductor loading on Kyle feeders KY50 and KY30 greater than 65%.

Project 54

Location: Turnersville – TV50

Estimated Cost: $77,500

Load Level: 2

Description: Reconductor on Turnersville feeder TV50 from line section 1313802570 to 513847 from 336 AAC to 795 AAC for 2,200 ft. This project is recommended to relieve conductor loading on Turnersville feeder TV50 greater than 65%.

Project 55

Location: Turnersville

Estimated Cost: $2,480,000

Load Level: 3

Description: Upgrade Turnersville T1 from 22.4 MVA to 46.7 MVA. This project is recommended to relieve Transformer loading on Turnersville T1 greater than 50%.

Project 56

Location: Lehigh

Estimated Cost: $3,316,600

Load Level: 3

Description: Extend Lehigh feeder LH30 for 5,300 ft with 795 AAC from line section 1982492050 to -1651241657. Install an open switch at line section -1651241657 and close at line section -1651241657 to transfer load from Goforth feeder GF120 to Lehigh feeder LH30. Install new 24.9-kV, 46.7 MVA transformer at Lehigh (T3). Install open switch at line section 83944513 and close the switch at line section 512146 to transfer load from Kyle feeder KY20 to Lehigh feeder LH30. Transfer load from Lehigh feeder LH30 from Lehigh T1 to Lehigh T3. This project is recommended to relieve transformer loading on Goforth T2 and Kyle T1 greater than 50% and conductor loading on Goforth feeder GF120 and Kyle feeder KY20 greater than 65%.

Project 57

Location: Goforth – GF30

Estimated Cost: $271,800

Load Level: 6

Description: Construct new Goforth feeder GF30 from Goforth T1 with 300 ft of 1000 AL and 6,400 ft of 795 AAC from the substation to line section 458158808. Transfer tap 458158808 from Goforth feeder GF30 to Goforth feeder GF20. This project is recommended to relieve conductor loading on Goforth feeder GF30 greater than 65%.

Project 58

Location: Turnersville – TV50

Estimated Cost: $281,800

Load Level: 6

Description: Reconductor on Turnersville feeder TV50 from line section 512550 to 1553735957 from 336 AAC to 795 AAC for 8,000 ft. This project is recommended to relieve conductor loading on Turnersville feeder TV50 greater than 65%.

Project 59

Location: Turnersville

Estimated Cost: Labor Only

Load Level: 6

Description: Transfer Turnersville feeder TV110 from Turnersville T2 to Turnersville T1. This project is recommended to balance loading between Turnersville T1 and T2.

Project 60

Location: Lehigh – LH10

Estimated Cost: $495,500

Load Level: 7

Description: Construct new Lehigh feeder LH10 from Lehigh T3 with 125 ft of 1000 AL and 12,300 ft of 795 AAC from the substation to line section 1022697672. Transfer tap 1022697672 from Lehigh feeder LH20 to Lehigh feeder LH10. This project is recommended to relieve conductor loading on Lehigh feeder LH20 greater than 65%.

Project 61

Location: Lehigh – LH30

Estimated Cost: $60,000

Load Level: 7

Description: Install three single-phase 100 amp voltage regulators on Lehigh feeder LH30 at line section -690906531. This project is recommended to improve voltage on Lehigh feeder LH30 from 119.1 V to 121.4 V at LL10.

Project 62

Location: Turnersville – TV130

Estimated Cost: $60,000

Load Level: 7

Description: Install three single-phase 100 amp voltage regulators on Turnersville feeder TV130 at line section 514193. This project is recommended to improve voltage on Turnersville feeder TV130 from 119.3 V to 123.6 V at LL10.

Project 63

Location: Turnersville – TV130

Estimated Cost: $60,000

Load Level: 1

Description: Install three single-phase 150 amp voltage regulators on Turnersville feeder TV130 at line section 516540. This project is recommended to improve voltage on Turnersville feeder TV130 from 115.0 V to 119.8 V at LL10.

See Figures 5-12, 5-13, and 5-14 for a geographic representation of Projects 51-63.

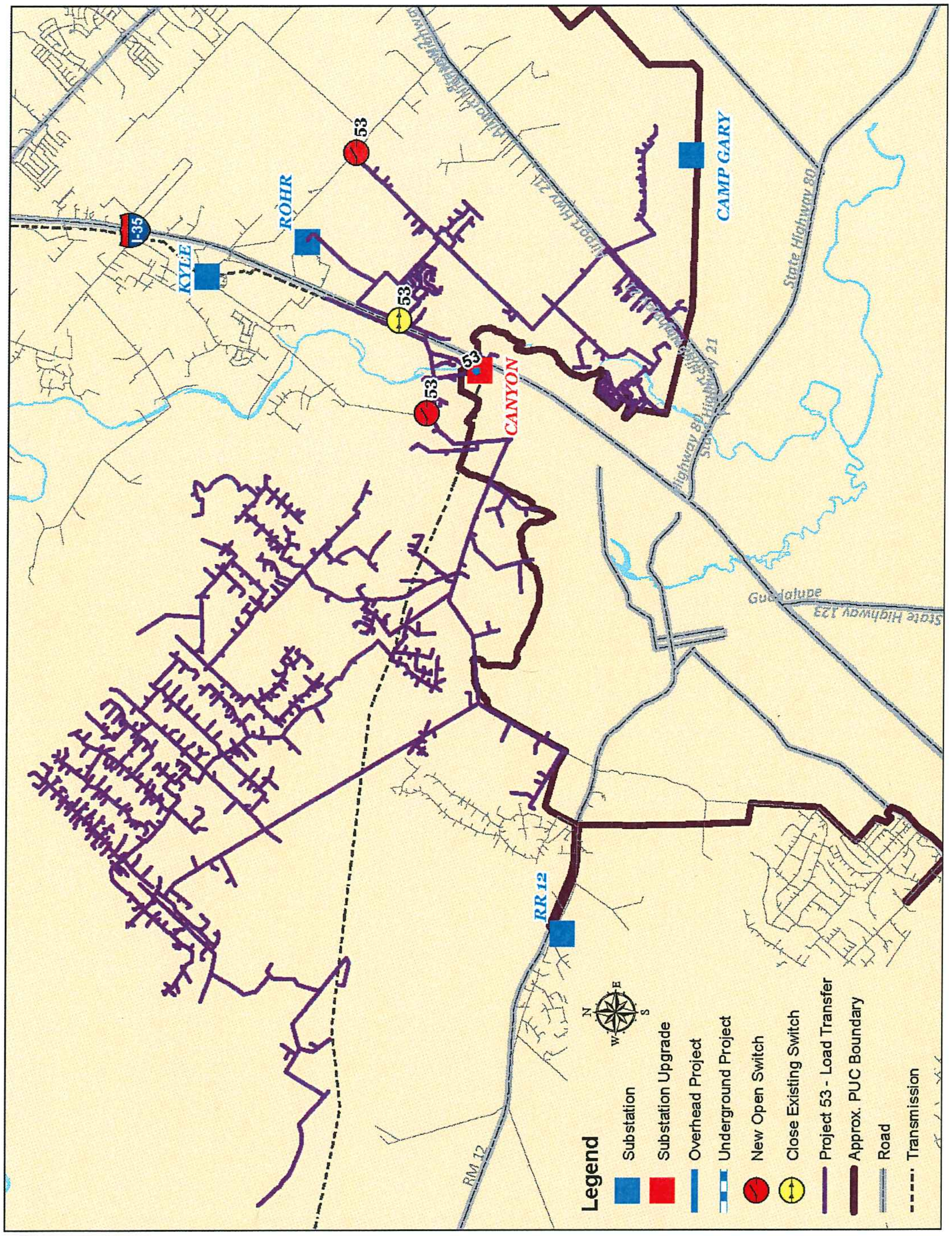

Figure 5–12. Project 53

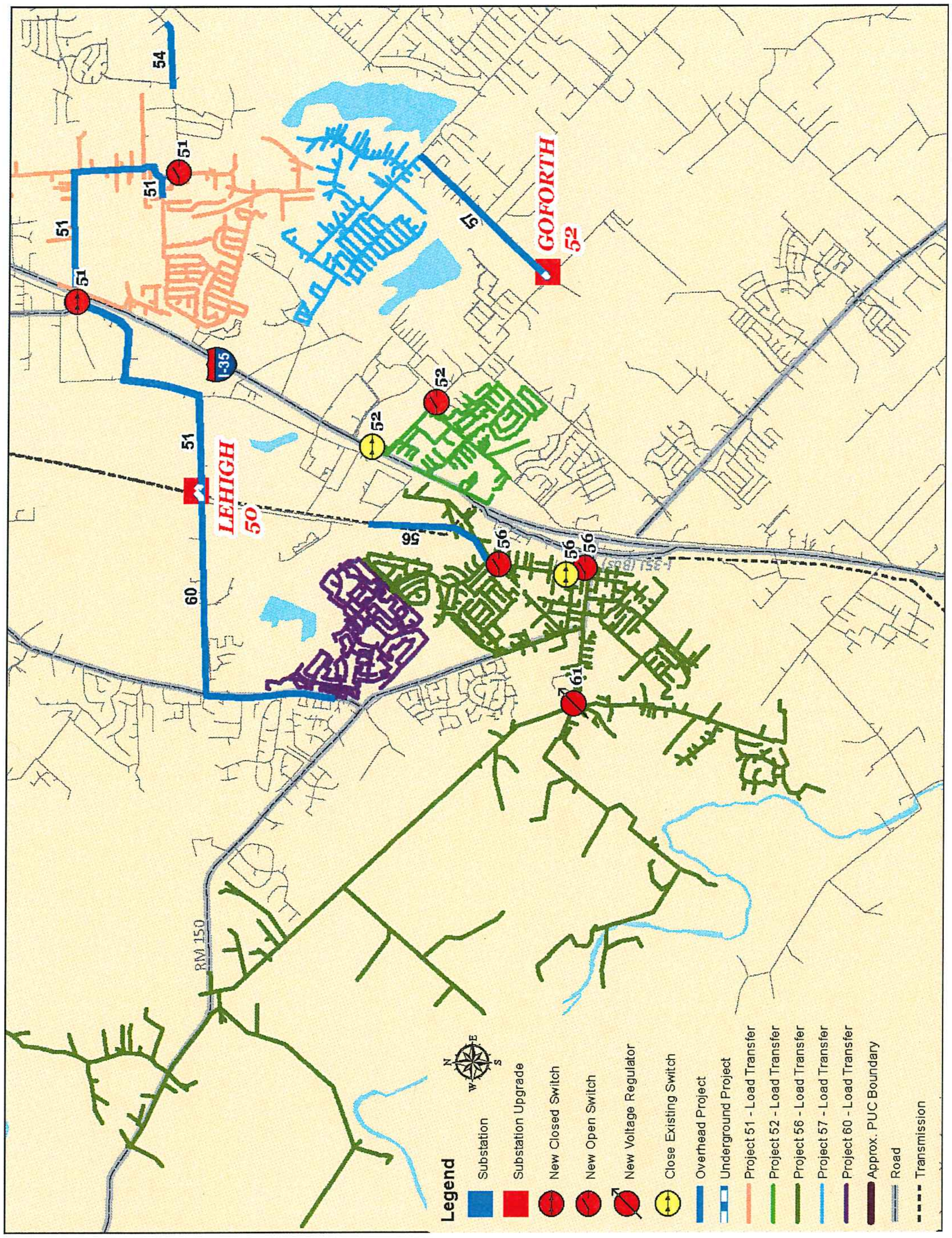

Figure 5–13. Projects 51, 52, 54, 56, 57, 60, and 61

Exhibit 1
SUBSTATION AND FEEDER FORECAST

PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

Allocated Based on Spot Loads + Slight Growth

Bank Value (MW) >= 0.50* Bank Capacity(MVA) * Power Factor (for double transformer substations only)
Bank Value (MW) >= 0.90* Bank Capacity(MVA) * Power Factor (for single transformer substations only)
Bank Value (MW) >= Bank Capacity(MVA) * Power Factor

PEC Distribution System Demand Forecast (MWs)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	Compound Growth Rate
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
ANTLER Total				25.8	26.8	27.9	29.2	30.6	32.0	33.5	35.0	36.6	38.3	40.0	41.8	43.6	45.5	47.4	49.4	51.4	53.4	55.3	57.2	59.0	4.23%
ALT1	22.4	0.945	1.12	16.5	17.2	17.9	18.7	19.6	20.6	21.5	22.5	23.5	24.6	25.7	26.8	28.0	29.2	30.4	31.7	33.0	34.3	35.5	36.7	37.9	4.23%
ALT1_20	27.6	0.912	1.08	7.2	7.5	7.8	8.2	8.7	9.1	9.6	10.1	10.5	11.1	11.6	12.2	12.8	13.4	14.0	14.6	15.3	15.9	16.5	17.2	17.8	4.63%
ALT1_40	17.7	0.962	0.92	9.8	10.2	10.6	11.0	11.5	12.0	12.5	13.1	13.6	14.2	14.8	15.4	16.0	16.6	17.3	17.9	18.6	19.3	19.9	20.5	21.2	3.92%
Total Feeder Load				17.0	17.7	18.4	19.2	20.2	21.1	22.1	23.1	24.1	25.2	26.4	27.6	28.8	30.0	31.3	32.6	33.9	35.2	36.5	37.7	38.9	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	
ALT2	22.4	0.971	1.12	9.2	9.6	10.0	10.4	11.0	11.5	12.0	12.5	13.1	13.7	14.3	15.0	15.6	16.3	17.0	17.7	18.4	19.1	19.8	20.5	21.1	4.23%
ALT2_120	27.6	0.971	1.00	9.1	9.5	9.9	10.3	10.8	11.3	11.9	12.4	12.9	13.5	14.1	14.8	15.4	16.1	16.8	17.5	18.2	18.9	19.6	20.2	20.9	4.23%
Total Feeder Load				9.1	9.5	9.9	10.3	10.8	11.3	11.9	12.4	12.9	13.5	14.1	14.8	15.4	16.1	16.8	17.5	18.2	18.9	19.6	20.2	20.9	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
ANDICE Total				24.9	25.5	26.3	27.1	27.9	28.8	29.7	30.6	31.5	32.5	33.4	34.4	35.4	36.5	37.5	38.5	39.6	40.6	41.6	42.5	43.4	2.82%
ANT1	22.4	0.972	0.74	18.5	19.0	19.6	20.2	20.8	21.5	22.1	22.8	23.5	24.2	24.9	25.6	26.4	27.1	27.9	28.7	29.5	30.2	30.9	31.6	32.3	2.82%
ANT1_20	25.9	0.970	0.75	4.9	5.0	5.1	5.3	5.4	5.5	5.6	5.8	5.9	6.0	6.2	6.3	6.4	6.6	6.7	6.8	7.0	7.1	7.2	7.3	7.5	2.07%
ANT1_30	9.1	0.947	0.75	4.9	5.0	5.1	5.2	5.3	5.4	5.6	5.7	5.8	5.9	6.1	6.2	6.3	6.5	6.6	6.7	6.9	7.0	7.1	7.2	7.4	2.07%
ANT1_40	17.7	0.974	1.25	10.1	10.5	10.8	11.2	11.7	12.1	12.6	13.1	13.5	14.0	14.6	15.1	15.6	16.2	16.7	17.3	17.9	18.4	19.0	19.5	20.0	3.46%
Total Feeder Load				20.0	20.5	21.1	21.7	22.4	23.1	23.8	24.5	25.3	26.0	26.8	27.6	28.4	29.2	30.1	30.9	31.7	32.6	33.3	34.1	34.8	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	
ANT2	14.0	0.960	0.74	6.4	6.5	6.7	6.9	7.1	7.4	7.6	7.8	8.0	8.3	8.5	8.8	9.1	9.3	9.6	9.8	10.1	10.4	10.6	10.9	11.1	2.82%
ANT2_130	21.6	0.960	1.00	6.4	6.5	6.7	6.9	7.1	7.4	7.6	7.8	8.0	8.3	8.5	8.8	9.1	9.3	9.6	9.8	10.1	10.4	10.6	10.9	11.1	2.82%
Total Feeder Load				6.4	6.5	6.7	6.9	7.1	7.4	7.6	7.8	8.0	8.3	8.5	8.8	9.1	9.3	9.6	9.8	10.1	10.4	10.6	10.9	11.1	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
AVERY RANCH Total				58.8	61.2	64.9	69.0	74.5	80.0	84.6	89.3	94.1	99.2	105.5	109.8	114.3	118.9	123.5	128.4	133.4	138.2	142.9	147.5	152.0	4.87%
ART1	37.3	0.978	1.12	27.9	29.0	31.3	33.7	37.4	41.0	43.7	46.3	49.1	51.9	55.9	57.9	59.8	61.9	63.9	66.1	68.3	70.4	72.5	74.5	76.5	5.17%
ART1_20	30.2	0.956	1.67	3.1	3.3	3.5	3.8	4.1	4.4	4.8	5.2	5.5	6.0	6.4	6.9	7.4	7.9	8.4	9.0	9.6	10.2	10.8	11.4	12.0	7.00%
ART1_30	30.2	0.980	1.00	17.7	18.4	19.2	20.1	21.1	22.1	24.1	26.2	28.3	30.4	33.6	34.8	36.1	37.3	38.6	40.0	41.3	42.6	43.9	45.1	46.3	4.93%
ART1_40	30.2	0.969	0.67	8.4	8.6	9.9	11.2	13.5	15.8	16.1	16.4	16.7	17.0	17.3	17.7	18.0	18.3	18.7	19.0	19.4	19.7	20.0	20.3	20.6	4.59%
Total Feeder Load				29.2	30.3	32.6	35.1	38.7	42.3	45.0	47.7	50.5	53.4	57.3	59.4	61.4	63.6	65.7	68.0	70.3	72.5	74.7	76.8	78.9	-----
Transformer Demand Growth Rate					3.9%	7.9%	7.8%	10.7%	9.8%	6.5%	6.1%	5.9%	5.8%	7.7%	3.5%	3.4%	3.4%	3.3%	3.4%	3.4%	3.1%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
ART2	37.3	0.967	1.21	30.8	32.1	33.6	35.3	37.1	39.0	41.0	43.0	45.0	47.2	49.6	52.0	54.5	57.0	59.6	62.3	65.1	67.8	70.4	72.9	75.5	4.58%
ART2_130	30.2	0.937	1.08	13.8	14.4	15.2	16.0	16.9	17.8	18.8	19.8	20.8	21.9	23.1	24.3	25.6	26.9	28.2	29.6	31.1	32.4	33.8	35.1	36.5	4.98%
ART2_140	30.2	0.974	0.92	18.4	19.2	20.0	20.9	21.9	23.0	24.1	25.2	26.3	27.5	28.8	30.1	31.4	32.7	34.1	35.6	37.1	38.5	39.8	41.2	42.6	4.27%
Total Feeder Load				32.2	33.6	35.2	36.9	38.8	40.8	42.9	45.0	47.1	49.4	51.9	54.4	57.0	59.6	62.3	65.2	68.1	70.9	73.6	76.3	79.0	-----
Transformer Demand Growth Rate					4.2%	4.6%	4.9%	5.2%	5.1%	5.0%	4.9%	4.8%	4.9%	4.9%	4.9%	4.7%	4.6%	4.5%	4.5%	4.5%	4.1%	3.8%	3.7%	3.5%	-----
Feeder / Transformer Diversity Factor				0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	

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PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	PEC Distribution System Demand Forecast (MWs)																				Compound Growth Rate
					LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	LL9	LL10	LL11	LL12	LL13	LL14	LL15	LL16	LL17	LL18	LL19	LL20	
					2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
BEE CREEK Total				15.2	15.6	16.1	16.6	17.1	17.6	18.2	18.7	19.3	19.9	20.5	21.1	21.7	22.3	22.9	23.6	24.2	24.9	25.4	26.0	26.6	2.82%
BCT1	22.4	0.968	0.74	8.1	8.3	8.5	8.8	9.1	9.4	9.7	10.0	10.3	10.6	10.9	11.2	11.5	11.9	12.2	12.5	12.9	13.2	13.5	13.8	14.1	2.82%
BCT1_20	9.3	0.000	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
BCT1_40	8.9	1.000	1.00	8.1	8.3	8.6	8.8	9.1	9.4	9.7	10.0	10.3	10.6	10.9	11.2	11.6	11.9	12.2	12.6	12.9	13.2	13.6	13.9	14.2	2.82%
Total Feeder Load				8.1	8.3	8.6	8.8	9.1	9.4	9.7	10.0	10.3	10.6	10.9	11.2	11.6	11.9	12.2	12.6	12.9	13.2	13.6	13.9	14.2	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
BCT2	22.4	0.970	0.74	7.1	7.3	7.5	7.8	8.0	8.3	8.5	8.8	9.0	9.3	9.6	9.9	10.2	10.5	10.7	11.0	11.4	11.6	11.9	12.2	12.5	2.82%
BCT2_130	8.9	0.971	1.00	6.2	6.4	6.5	6.7	7.0	7.2	7.4	7.6	7.8	8.1	8.3	8.6	8.8	9.1	9.3	9.6	9.9	10.1	10.4	10.6	10.8	2.82%
BCT2_140	8.9	0.955	1.00	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	1.9	2.82%
Total Feeder Load				7.3	7.5	7.7	7.9	8.2	8.5	8.7	9.0	9.3	9.5	9.8	10.1	10.4	10.7	11.0	11.3	11.6	11.9	12.2	12.5	12.8	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
BCT3	37.3	0.972	1.12	8.1	8.4	8.8	9.2	9.6	10.1	10.5	11.0	11.5	12.0	12.6	13.2	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18.0	18.6	4.23%
BCT3_250	8.9	0.961	1.00	3.7	3.9	4.0	4.2	4.4	4.6	4.8	5.0	5.3	5.5	5.8	6.0	6.3	6.5	6.8	7.1	7.4	7.7	8.0	8.2	8.5	4.23%
BCT3_260	8.9	0.956	1.00	4.5	4.7	4.9	5.1	5.3	5.6	5.9	6.1	6.4	6.7	7.0	7.3	7.6	7.9	8.3	8.6	9.0	9.3	9.6	10.0	10.3	4.23%
Total Feeder Load				8.2	8.5	8.9	9.3	9.7	10.2	10.7	11.2	11.7	12.2	12.7	13.3	13.9	14.5	15.1	15.7	16.4	17.0	17.6	18.2	18.8	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
BUDA Total				39.6	41.1	42.9	44.8	47.0	49.2	51.5	53.8	56.2	58.7	61.4	64.2	67.0	69.9	72.8	75.8	79.0	82.0	84.9	87.8	90.6	4.23%
BDT1	22.4	0.948	1.12	21.2	22.1	23.0	24.1	25.2	26.4	27.6	28.9	30.2	31.5	33.0	34.4	35.9	37.5	39.1	40.7	42.4	44.0	45.6	47.1	48.6	4.23%
BDT1_10	17.7	0.948	1.00	19.6	20.4	21.2	22.2	23.3	24.4	25.5	26.7	27.9	29.1	30.4	31.8	33.2	34.6	36.1	37.6	39.2	40.6	42.1	43.5	44.9	4.23%
BDT1_40	17.7	0.949	1.00	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.1	3.2	3.3	3.5	3.6	3.8	3.9	4.0	4.2	4.23%
Total Feeder Load				21.4	22.3	23.2	24.3	25.4	26.6	27.9	29.1	30.4	31.8	33.3	34.8	36.3	37.8	39.4	41.1	42.8	44.4	46.0	47.5	49.1	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
BDT3	22.4	0.976	1.12	18.3	19.1	19.9	20.8	21.8	22.8	23.9	24.9	26.0	27.2	28.5	29.7	31.0	32.4	33.7	35.1	36.6	38.0	39.3	40.7	42.0	4.23%
BDT3_110	17.7	0.000	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
BDT3_120	17.7	0.967	1.00	8.8	9.1	9.5	10.0	10.4	10.9	11.4	12.0	12.5	13.1	13.6	14.3	14.9	15.5	16.2	16.9	17.5	18.2	18.9	19.5	20.1	4.23%
BDT3_130	17.7	0.976	1.00	10.4	10.8	11.2	11.7	12.3	12.9	13.5	14.1	14.7	15.4	16.1	16.8	17.6	18.3	19.1	19.9	20.7	21.5	22.2	23.0	23.7	4.23%
Total Feeder Load				19.2	19.9	20.8	21.7	22.8	23.8	24.9	26.1	27.2	28.4	29.7	31.1	32.4	33.8	35.2	36.7	38.2	39.7	41.1	42.5	43.9	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
BERGHEIM Total				12.5	13.0	13.4	13.9	14.5	15.1	15.6	16.2	16.8	17.5	18.1	18.8	19.5	20.2	20.9	21.6	22.4	23.1	23.8	24.4	25.1	3.53%
BGT1	22.4	0.983	0.93	12.5	13.0	13.4	13.9	14.5	15.1	15.6	16.2	16.8	17.5	18.1	18.8	19.5	20.2	20.9	21.6	22.4	23.1	23.8	24.4	25.1	3.53%
BGT1_10	9.1	0.958	0.80	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.6	4.7	4.8	4.9	5.0	5.2	5.3	5.4	5.5	5.6	2.56%
BGT1_20	18.5	0.989	1.20	9.4	9.7	10.1	10.5	11.0	11.5	12.0	12.4	12.9	13.5	14.0	14.6	15.2	15.8	16.4	17.0	17.6	18.2	18.8	19.4	20.0	3.84%
Total Feeder Load				12.8	13.2	13.7	14.2	14.8	15.3	15.9	16.5	17.1	17.8	18.5	19.2	19.9	20.6	21.3	22.0	22.8	23.5	24.2	24.9	25.6	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	

PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	PEC Distribution System Demand Forecast (MWs) LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	LL9	LL10	LL11	LL12	LL13	LL14	LL15	LL16	LL17	LL18	LL19	LL20	Compound Growth Rate
					2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
BLOCKHOUSE Total				37.2	38.5	40.6	42.8	45.2	47.7	50.7	53.7	56.8	60.0	64.4	68.8	73.2	77.7	82.3	85.9	89.6	93.2	96.7	99.1	101.6	5.16%
BHT1	22.4	0.968	0.93	13.3	13.7	14.2	14.7	15.3	15.9	16.6	17.2	17.8	18.5	19.2	19.9	20.6	21.4	22.1	22.9	23.7	24.4	25.2	25.9	26.6	3.53%
BHT1_20	17.7	0.998	0.60	4.5	4.6	4.7	4.8	4.9	5.0	5.2	5.3	5.4	5.5	5.6	5.8	5.9	6.0	6.1	6.2	6.4	6.5	6.6	6.7	6.8	2.07%
BHT1_40	17.7	0.941	1.20	8.8	9.1	9.5	10.0	10.4	10.9	11.4	11.9	12.5	13.0	13.6	14.2	14.8	15.4	16.0	16.7	17.4	18.0	18.6	19.2	19.8	4.14%
Total Feeder Load				13.3	13.7	14.2	14.8	15.4	16.0	16.6	17.2	17.8	18.5	19.2	19.9	20.7	21.4	22.2	22.9	23.7	24.5	25.2	25.9	26.6	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
BHT2	37.3	0.950	1.12	23.9	24.8	26.4	28.1	29.9	31.7	34.1	36.5	39.0	41.5	45.2	48.9	52.6	56.4	60.2	63.0	65.9	68.8	71.5	73.3	75.0	5.89%
BHT2_130	17.7	0.966	1.00	11.7	12.2	13.2	14.3	15.4	16.6	18.2	19.9	21.6	23.4	26.2	29.0	31.8	34.7	37.5	39.4	41.4	43.3	45.1	46.0	46.8	7.18%
BHT2_140	25.9	0.936	1.00	12.5	13.0	13.6	14.2	14.9	15.6	16.3	17.1	17.8	18.6	19.5	20.4	21.2	22.2	23.1	24.1	25.1	26.0	26.9	27.8	28.7	4.23%
Total Feeder Load				24.3	25.2	26.8	28.5	30.3	32.2	34.6	37.0	39.5	42.0	45.6	49.3	53.1	56.8	60.6	63.5	66.4	69.3	72.0	73.8	75.6	-----
Transformer Demand Growth Rate					3.9%	6.3%	6.4%	6.5%	6.2%	7.5%	7.1%	6.7%	6.5%	8.8%	8.2%	7.6%	7.2%	6.7%	4.7%	4.6%	4.3%	4.0%	2.4%	2.4%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
BARKSDALE AEP DELIVERY PT Total				1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.41%
BARKSDALE AEP DELIVERY PT Total	0.0	0.968	0.37	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.41%
BARKSDALE AEP DELIVERY PT Total	0.0	0.968	1.00	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.41%
Total Feeder Load				1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.6	-----
Transformer Demand Growth Rate					1.3%	1.4%	1.5%	1.6%	1.6%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.4%	1.4%	1.4%	1.4%	1.3%	1.2%	1.1%	1.1%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
BALCONES Total				65.7	67.9	70.4	73.2	76.3	79.4	82.6	85.9	89.2	92.7	96.5	100.3	104.2	108.1	112.1	116.3	120.6	124.7	128.7	132.5	136.4	3.72%
BLT1	22.4	0.964	0.56	9.7	9.8	10.1	10.3	10.5	10.8	11.0	11.3	11.5	11.8	12.1	12.3	12.6	12.9	13.1	13.4	13.7	14.0	14.2	14.4	14.7	2.12%
BLT1_10	8.9	0.000	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
BLT1_20	8.9	0.939	1.00	6.9	7.0	7.1	7.3	7.4	7.6	7.8	7.9	8.1	8.2	8.4	8.6	8.7	8.9	9.1	9.3	9.4	9.6	9.7	9.9	10.0	1.92%
BLT1_30	8.9	0.939	1.33	2.9	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	2.56%
Total Feeder Load				9.7	9.9	10.1	10.4	10.6	10.9	11.1	11.4	11.6	11.9	12.2	12.4	12.7	13.0	13.3	13.5	13.8	14.1	14.3	14.6	14.8	-----
Transformer Demand Growth Rate					2.0%	2.1%	2.3%	2.4%	2.4%	2.3%	2.3%	2.2%	2.3%	2.3%	2.3%	2.2%	2.1%	2.1%	2.1%	2.1%	1.9%	1.8%	1.7%	1.6%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
BLT2	22.4	0.961	0.93	13.5	14.0	14.5	15.0	15.6	16.3	16.9	17.5	18.2	18.8	19.6	20.3	21.0	21.8	22.5	23.3	24.1	24.9	25.6	26.4	27.1	3.53%
BLT2_80	8.9	0.952	0.60	7.0	7.2	7.5	7.7	8.1	8.4	8.7	9.0	9.4	9.7	10.1	10.5	10.8	11.2	11.6	12.0	12.4	12.8	13.2	13.6	14.0	3.53%
BLT2_90	8.9	0.961	0.60	6.9	7.1	7.3	7.6	7.9	8.2	8.5	8.9	9.2	9.5	9.9	10.3	10.7	11.0	11.4	11.8	12.2	12.6	13.0	13.4	13.7	3.53%
BLT2_100	8.9	0.000	1.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
Total Feeder Load				13.8	14.3	14.8	15.4	16.0	16.6	17.2	17.9	18.6	19.3	20.0	20.7	21.5	22.3	23.0	23.8	24.7	25.4	26.2	26.9	27.7	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
BLT3	22.4	0.961	1.30	15.6	16.3	17.1	18.0	19.0	20.1	21.2	22.3	23.4	24.7	26.0	27.4	28.8	30.2	31.7	33.2	34.8	36.4	37.9	39.4	40.9	4.94%
BLT3_220	17.7	0.956	1.00	9.3	9.8	10.2	10.8	11.4	12.0	12.7	13.3	14.0	14.8	15.6	16.4	17.2	18.1	19.0	19.9	20.8	21.8	22.7	23.6	24.5	4.94%
BLT3_230	17.7	0.970	1.00	6.6	6.9	7.3	7.6	8.1	8.5	9.0	9.4	9.9	10.5	11.0	11.6	12.2	12.8	13.4	14.1	14.8	15.4	16.1	16.7	17.3	4.94%
Total Feeder Load				15.9	16.7	17.5	18.4	19.5	20.5	21.6	22.8	24.0	25.2	26.6	28.0	29.4	30.9	32.4	34.0	35.6	37.2	38.7	40.3	41.8	-----
Transformer Demand Growth Rate					4.6%	5.0%	5.3%	5.6%	5.5%	5.4%	5.3%	5.2%	5.3%	5.3%	5.3%	5.1%	5.0%	4.9%	4.9%	4.8%	4.4%	4.1%	3.9%	3.8%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	

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PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	Compound Growth Rate
					PEC Distribution System Demand Forecast (MWs)																				
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
BLT4	37.3	0.973	0.93	26.9	27.8	28.8	29.8	31.0	32.3	33.5	34.8	36.1	37.4	38.8	40.3	41.8	43.3	44.8	46.3	47.9	49.5	50.9	52.4	53.8	3.53%
BLT4_320	17.7	0.963	1.20	10.7	11.1	11.5	12.0	12.5	13.0	13.6	14.1	14.7	15.3	15.9	16.6	17.2	17.9	18.5	19.2	20.0	20.6	21.3	21.9	22.6	3.80%
BLT4_330	17.7	0.978	1.20	11.7	12.1	12.5	13.1	13.6	14.2	14.8	15.4	16.0	16.7	17.4	18.1	18.8	19.5	20.2	21.0	21.8	22.5	23.2	23.9	24.6	3.80%
BLT4_340	17.7	0.978	0.60	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	1.90%
Total Feeder Load				26.9	27.8	28.8	29.8	31.0	32.3	33.5	34.8	36.1	37.4	38.8	40.3	41.8	43.3	44.8	46.3	47.9	49.5	50.9	52.4	53.8	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
BLANCO Total				15.5	15.8	16.1	16.5	16.9	17.3	17.7	18.1	18.5	18.9	19.3	19.8	20.2	20.6	21.1	21.5	22.0	22.4	22.8	23.2	23.5	2.12%
BNT1	22.4	0.973	0.56	15.5	15.8	16.1	16.5	16.9	17.3	17.7	18.1	18.5	18.9	19.3	19.8	20.2	20.6	21.1	21.5	22.0	22.4	22.8	23.2	23.5	2.12%
BNT1_20	8.9	0.957	1.00	5.2	5.3	5.4	5.6	5.7	5.8	6.0	6.1	6.2	6.4	6.5	6.7	6.8	7.0	7.1	7.3	7.4	7.6	7.7	7.8	7.9	2.12%
BNT1_30	6.9	0.967	1.00	4.4	4.4	4.5	4.6	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.6	5.7	5.8	5.9	6.1	6.2	6.3	6.4	6.5	6.6	2.12%
BNT1_40	15.1	0.992	1.00	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.2	5.3	5.4	5.5	5.6	5.7	5.9	6.0	6.1	6.2	6.3	2.12%
BNT1_50	8.9	0.980	1.00	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.8	2.8	2.9	2.12%
Total Feeder Load				15.6	15.9	16.3	16.6	17.0	17.4	17.8	18.2	18.6	19.1	19.5	19.9	20.4	20.8	21.3	21.7	22.1	22.6	23.0	23.4	23.7	-----
Transformer Demand Growth Rate					2.0%	2.1%	2.3%	2.4%	2.4%	2.3%	2.3%	2.2%	2.3%	2.3%	2.3%	2.2%	2.1%	2.1%	2.1%	2.1%	1.9%	1.8%	1.7%	1.6%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
BUTTERCUP Total				49.9	51.8	53.9	56.3	58.9	61.5	64.2	67.0	69.9	72.9	76.1	79.3	82.7	86.1	89.5	93.1	96.8	100.3	103.8	107.1	110.5	4.05%
BRT1	37.3	0.993	0.93	13.5	13.9	14.4	15.0	15.6	16.2	16.8	17.5	18.1	18.8	19.5	20.2	21.0	21.7	22.5	23.3	24.1	24.8	25.6	26.3	27.0	3.53%
BRT1_10	17.7	0.991	1.20	8.0	8.4	8.8	9.2	9.6	10.1	10.6	11.1	11.6	12.1	12.7	13.3	13.9	14.5	15.1	15.8	16.4	17.0	17.6	18.2	18.8	4.34%
BRT1_20	17.7	0.996	0.60	5.9	6.0	6.2	6.3	6.5	6.6	6.8	7.0	7.1	7.3	7.5	7.6	7.8	8.0	8.1	8.3	8.5	8.7	8.8	9.0	9.1	2.17%
Total Feeder Load				14.0	14.4	14.9	15.5	16.1	16.8	17.4	18.1	18.7	19.4	20.2	20.9	21.7	22.5	23.3	24.1	24.9	25.7	26.4	27.2	27.9	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	
BRT2	37.3	0.979	1.12	17.3	18.0	18.8	19.6	20.6	21.5	22.5	23.6	24.6	25.7	26.9	28.1	29.3	30.6	31.9	33.2	34.6	35.9	37.2	38.4	39.7	4.23%
BRT2_210	17.7	0.971	1.00	13.4	14.0	14.5	15.2	15.9	16.7	17.5	18.3	19.1	19.9	20.8	21.8	22.7	23.7	24.7	25.7	26.8	27.8	28.8	29.8	30.8	4.23%
BRT2_220	17.7	0.997	1.00	3.8	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.3	5.6	5.8	6.1	6.4	6.6	6.9	7.2	7.5	7.8	8.1	8.3	8.6	4.23%
Total Feeder Load				17.2	17.9	18.6	19.5	20.4	21.4	22.4	23.4	24.4	25.5	26.7	27.9	29.1	30.4	31.6	32.9	34.3	35.6	36.9	38.1	39.4	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	
BRT3	22.4	0.959	1.12	19.1	19.9	20.7	21.7	22.7	23.8	24.9	26.0	27.1	28.4	29.7	31.0	32.4	33.8	35.2	36.6	38.2	39.6	41.0	42.4	43.8	4.23%
BRT3_330	25.9	0.958	1.00	19.1	19.9	20.7	21.7	22.7	23.8	24.9	26.0	27.2	28.4	29.7	31.0	32.4	33.8	35.2	36.7	38.2	39.7	41.1	42.5	43.8	4.23%
Total Feeder Load				19.1	19.9	20.7	21.7	22.7	23.8	24.9	26.0	27.2	28.4	29.7	31.0	32.4	33.8	35.2	36.7	38.2	39.7	41.1	42.5	43.8	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
BERTRAM Total				16.4	16.8	17.3	17.8	18.4	19.0	19.6	20.1	20.7	21.4	22.0	22.7	23.3	24.0	24.7	25.4	26.1	26.7	27.4	28.0	28.6	2.82%
BTT1	22.4	0.971	0.74	16.4	16.8	17.3	17.8	18.4	19.0	19.6	20.1	20.7	21.4	22.0	22.7	23.3	24.0	24.7	25.4	26.1	26.7	27.4	28.0	28.6	2.82%
BTT1_30	9.1	0.993	0.50	2.4	2.4	2.4	2.5	2.5	2.6	2.6	2.6	2.7	2.7	2.7	2.8	2.8	2.8	2.9	2.9	2.9	3.0	3.0	3.0	3.1	1.24%
BTT1_40	17.7	0.989	1.00	6.5	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.7	8.9	9.1	9.3	9.5	9.8	10.0	10.2	10.4	10.6	2.49%
BTT1_50	9.1	0.979	1.50	6.2	6.4	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.9	9.2	9.6	9.9	10.3	10.7	11.1	11.5	11.9	12.2	12.6	12.9	3.73%
BTT1_60	25.9	0.939	1.00	2.5	2.5	2.6	2.7	2.7	2.8	2.9	3.0	3.1	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.7	3.8	3.9	4.0	4.0	2.49%
Total Feeder Load				17.6	18.0	18.5	19.1	19.7	20.3	21.0	21.6	22.2	22.9	23.6	24.3	25.0	25.7	26.5	27.2	27.9	28.7	29.3	30.0	30.6	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	

2/6/2012
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PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	Compound Growth Rate
					PEC Distribution System Demand Forecast (MWs)																				
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
BURNET Total				10.8	11.1	11.4	11.8	12.2	12.5	12.9	13.3	13.7	14.1	14.6	15.0	15.4	15.9	16.3	16.8	17.2	17.7	18.1	18.5	18.9	2.82%
BUT1	22.4	0.993	0.74	10.8	11.1	11.4	11.8	12.2	12.5	12.9	13.3	13.7	14.1	14.6	15.0	15.4	15.9	16.3	16.8	17.2	17.7	18.1	18.5	18.9	2.82%
BUT1_30	4.5	0.979	0.75	3.5	3.6	3.7	3.8	3.9	4.0	4.2	4.3	4.4	4.5	4.6	4.8	4.9	5.0	5.1	5.3	5.4	5.5	5.6	5.8	5.9	2.57%
BUT1_50	4.5	0.995	1.00	3.2	3.3	3.5	3.6	3.7	3.9	4.0	4.2	4.3	4.5	4.6	4.8	5.0	5.2	5.3	5.5	5.7	5.9	6.0	6.2	6.4	3.43%
BUT1_70	4.1	0.959	0.75	3.0	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	2.57%
BUT1_80	15.1	0.920	0.75	2.1	2.2	2.3	2.3	2.4	2.4	2.5	2.6	2.7	2.7	2.8	2.9	3.0	3.0	3.1	3.2	3.3	3.3	3.4	3.5	3.6	2.57%
Total Feeder Load				11.9	12.2	12.5	12.9	13.3	13.7	14.2	14.6	15.0	15.5	15.9	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.8	20.3	20.7	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	
COPPERAS COVE Total				16.9	17.4	17.9	18.4	19.0	19.6	20.2	20.8	21.4	22.1	22.7	23.4	24.1	24.8	25.5	26.2	26.9	27.6	28.3	28.9	29.5	2.82%
CCT1	22.4	0.965	0.74	16.9	17.4	17.9	18.4	19.0	19.6	20.2	20.8	21.4	22.1	22.7	23.4	24.1	24.8	25.5	26.2	26.9	27.6	28.3	28.9	29.5	2.82%
CCT1_10	25.9	0.976	-	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	0.00%
CCT1_30	17.7	0.940	1.00	4.3	4.5	4.8	5.0	5.3	5.6	5.9	6.1	6.4	6.7	7.0	7.3	7.7	8.0	8.3	8.6	9.0	9.3	9.6	9.9	10.2	4.35%
CCT1_40	17.7	0.965	1.00	5.1	5.4	5.7	6.0	6.3	6.6	6.9	7.3	7.6	8.0	8.3	8.7	9.1	9.5	9.8	10.2	10.6	11.0	11.4	11.7	12.0	4.35%
Total Feeder Load				17.1	17.6	18.1	18.6	19.2	19.8	20.4	21.0	21.7	22.3	23.0	23.7	24.4	25.1	25.8	26.5	27.2	27.9	28.6	29.2	29.8	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
CAMP GARY Total				3.7	3.7	3.8	3.9	3.9	4.0	4.0	4.1	4.2	4.2	4.3	4.4	4.4	4.5	4.5	4.6	4.7	4.7	4.8	4.8	4.9	1.41%
CGT1	10.5	0.898	0.37	3.7	3.7	3.8	3.9	3.9	4.0	4.0	4.1	4.2	4.2	4.3	4.4	4.4	4.5	4.5	4.6	4.7	4.7	4.8	4.8	4.9	1.41%
CGT1_30	9.7	0.830	1.00	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.41%
CGT1_40	9.7	0.966	1.00	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.41%
CGT1_50	9.7	0.901	1.00	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.7	1.41%
Total Feeder Load				4.0	4.0	4.1	4.2	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.8	4.8	4.9	5.0	5.0	5.1	5.2	5.2	5.3	-----
Transformer Demand Growth Rate					1.3%	1.4%	1.5%	1.6%	1.6%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.4%	1.4%	1.4%	1.4%	1.3%	1.2%	1.1%	1.1%	-----
Feeder / Transformer Diversity Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	
CRANES MILL Total				22.7	23.3	23.9	24.6	25.4	26.2	27.0	27.9	28.7	29.5	30.4	31.4	32.3	33.2	34.1	35.1	36.0	37.0	37.8	38.7	39.5	2.82%
CMT1	33.3	0.989	0.74	12.9	13.3	13.6	14.1	14.5	15.0	15.4	15.9	16.4	16.9	17.4	17.9	18.4	18.9	19.5	20.0	20.6	21.1	21.6	22.1	22.5	2.82%
CMT1_10	8.9	0.984	1.00	6.7	6.9	7.1	7.3	7.5	7.8	8.0	8.3	8.5	8.8	9.0	9.3	9.6	9.8	10.1	10.4	10.7	11.0	11.2	11.5	11.7	2.82%
CMT1_20	9.3	0.998	1.00	3.4	3.5	3.6	3.7	3.8	4.0	4.1	4.2	4.3	4.4	4.6	4.7	4.9	5.0	5.1	5.3	5.4	5.6	5.7	5.8	6.0	2.82%
CMT1_30	0.0	0.000	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
CMT1_40	8.9	0.951	1.00	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	4.0	4.1	4.2	4.3	4.4	4.6	4.7	4.8	5.0	5.1	5.2	5.3	2.82%
Total Feeder Load				13.2	13.5	13.9	14.3	14.8	15.2	15.7	16.2	16.7	17.2	17.7	18.2	18.7	19.3	19.8	20.4	20.9	21.5	22.0	22.5	23.0	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
CMT2	37.3	0.942	0.74	9.7	10.0	10.3	10.6	10.9	11.3	11.6	12.0	12.3	12.7	13.1	13.5	13.9	14.3	14.7	15.1	15.5	15.9	16.3	16.6	17.0	2.82%
CMT2_110	0.0	0.000	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
CMT2_120	15.1	0.935	1.00	5.7	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.1	8.3	8.5	8.8	9.0	9.2	9.5	9.7	9.9	2.82%
CMT2_130	15.1	0.949	1.00	4.0	4.1	4.3	4.4	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.8	5.9	6.1	6.3	6.4	6.6	6.7	6.9	7.0	2.82%
Total Feeder Load				9.7	10.0	10.2	10.6	10.9	11.2	11.6	11.9	12.3	12.7	13.0	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.6	16.9	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

2/6/2012
3:40 PM

PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	Compound Growth Rate
					PEC Distribution System Demand Forecast (MWs)																				
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
CEDAR VALLEY Total				34.3	35.2	36.2	37.3	38.6	39.8	41.1	42.4	43.7	45.0	46.4	47.9	49.3	50.8	52.3	53.8	55.3	56.8	58.2	59.6	60.9	2.92%
CVT1	22.4	0.979	0.65	20.5	20.9	21.4	22.0	22.6	23.3	23.9	24.5	25.1	25.8	26.5	27.2	27.9	28.6	29.3	30.0	30.7	31.4	32.1	32.7	33.3	2.47%
CVT1_10	9.3	0.990	1.43	4.0	4.2	4.3	4.5	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.6	6.8	7.0	7.3	7.5	7.7	8.0	8.2	3.59%
CVT1_20	9.3	0.990	0.86	7.4	7.5	7.7	7.9	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.5	9.7	9.9	10.1	10.3	10.5	10.7	10.9	11.1	11.3	2.15%
CVT1_30	9.3	0.982	0.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
CVT1_40	9.3	0.000	0.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
CVT1_50	9.3	0.976	0.86	9.1	9.2	9.4	9.7	9.9	10.1	10.4	10.6	10.9	11.1	11.4	11.6	11.9	12.1	12.4	12.7	12.9	13.2	13.4	13.6	13.9	2.15%
CVT1_60	9.3	0.000	1.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
Total Feeder Load				20.5	20.9	21.4	22.0	22.6	23.3	23.9	24.5	25.1	25.8	26.5	27.2	27.9	28.6	29.3	30.0	30.7	31.4	32.1	32.7	33.3	-----
Transformer Demand Growth Rate					2.3%	2.5%	2.7%	2.8%	2.8%	2.7%	2.6%	2.6%	2.6%	2.7%	2.6%	2.6%	2.5%	2.4%	2.4%	2.4%	2.2%	2.1%	2.0%	1.9%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
CVT2	22.4	0.977	0.93	13.8	14.3	14.8	15.3	15.9	16.6	17.2	17.8	18.5	19.2	19.9	20.7	21.4	22.2	23.0	23.8	24.6	25.4	26.1	26.9	27.6	3.53%
CVT2_120	9.3	0.000	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
CVT2_140	9.3	0.979	1.00	5.6	5.8	6.0	6.2	6.4	6.7	7.0	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.3	10.6	10.9	11.2	3.53%
CVT2_160	9.3	0.967	1.00	8.5	8.7	9.0	9.4	9.8	10.1	10.5	10.9	11.3	11.8	12.2	12.7	13.1	13.6	14.1	14.6	15.1	15.6	16.0	16.5	16.9	3.53%
Total Feeder Load				14.0	14.5	15.0	15.6	16.2	16.8	17.5	18.1	18.8	19.5	20.3	21.0	21.8	22.6	23.4	24.2	25.0	25.8	26.6	27.3	28.1	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
DEVILS HILL Total				13.4	13.8	14.3	14.9	15.5	16.1	16.7	17.3	18.0	18.7	19.4	20.1	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.1	26.8	3.53%
DHT1	22.4	0.987	0.93	13.4	13.8	14.3	14.9	15.5	16.1	16.7	17.3	18.0	18.7	19.4	20.1	20.8	21.6	22.3	23.1	23.9	24.7	25.4	26.1	26.8	3.53%
DHT1_10	9.3	0.942	1.00	2.8	2.9	3.0	3.1	3.2	3.4	3.5	3.6	3.7	3.9	4.0	4.2	4.3	4.4	4.6	4.7	4.9	5.0	5.2	5.3	5.5	3.35%
DHT1_20	4.5	0.999	0.80	3.8	3.9	4.0	4.1	4.3	4.4	4.5	4.7	4.8	4.9	5.1	5.2	5.4	5.5	5.6	5.8	5.9	6.1	6.2	6.4	6.5	2.68%
DHT1_30	9.3	1.000	1.20	6.8	7.1	7.4	7.7	8.1	8.4	8.8	9.2	9.5	10.0	10.4	10.8	11.3	11.7	12.2	12.7	13.2	13.7	14.1	14.6	15.0	4.02%
Total Feeder Load				13.5	13.9	14.4	15.0	15.6	16.2	16.8	17.4	18.1	18.8	19.5	20.2	20.9	21.7	22.4	23.2	24.0	24.8	25.5	26.2	27.0	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
DOBYVILLE Total				1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.82%
DVT1	0.0	0.000	0.74	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.82%
DVT1_40	0.0	0.000	1.00	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.1	1.1	2.82%
DVT1_50	0.0	0.000	1.00	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.1	1.1	2.82%
Total Feeder Load				1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.1	2.2	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
DRIPPING SPRINGS Total				30.8	32.0	33.3	34.9	36.5	38.3	40.0	41.8	43.7	45.7	47.8	49.9	52.1	54.3	56.6	59.0	61.4	63.8	66.0	68.3	70.5	4.23%
DST1	22.4	0.988	1.12	17.0	17.7	18.4	19.3	20.2	21.1	22.1	23.1	24.1	25.2	26.4	27.6	28.8	30.0	31.3	32.6	33.9	35.2	36.5	37.7	38.9	4.23%
DST1_20	15.1	1.000	1.00	4.1	4.2	4.4	4.6	4.8	5.1	5.3	5.5	5.8	6.1	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.5	8.8	9.0	9.3	4.23%
DST1_30	9.3	0.994	1.00	8.2	8.6	8.9	9.3	9.8	10.2	10.7	11.2	11.7	12.2	12.8	13.4	13.9	14.5	15.1	15.8	16.4	17.1	17.7	18.3	18.9	4.23%
DST1_40	8.9	0.935	1.00	5.3	5.5	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.2	8.6	8.9	9.3	9.7	10.1	10.5	10.9	11.3	11.7	12.1	4.23%
Total Feeder Load				17.6	18.3	19.1	19.9	20.9	21.9	22.9	23.9	25.0	26.1	27.3	28.5	29.8	31.1	32.4	33.7	35.1	36.4	37.7	39.0	40.3	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	

PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

PEC Distribution System Demand Forecast (MWs)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	Compound Growth Rate
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
DST2	22.4	0.970	1.12	13.8	14.3	14.9	15.6	16.4	17.1	17.9	18.7	19.6	20.4	21.4	22.3	23.3	24.3	25.3	26.4	27.5	28.5	29.5	30.5	31.5	4.23%
DST2_120	8.9	0.000	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
DST2_130	8.9	0.973	1.00	8.0	8.3	8.7	9.2	9.7	10.2	10.7	11.2	11.8	12.4	13.0	13.6	14.3	15.0	15.7	16.4	17.1	17.8	18.5	19.2	19.9	4.68%
DST2_140	8.9	0.907	1.00	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.7	2.8	2.9	3.1	3.2	3.4	3.5	3.7	3.8	4.0	4.1	4.3	4.68%
DST2_150	8.9	0.941	0.67	4.5	4.6	4.7	4.9	5.1	5.3	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.5	7.7	7.9	8.1	8.2	3.12%
DST2_160	8.9	0.000	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
Total Feeder Load				14.2	14.7	15.3	16.0	16.8	17.6	18.4	19.2	20.1	21.0	22.0	23.0	24.0	25.0	26.0	27.1	28.3	29.3	30.4	31.4	32.4	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	
E. BABE SMITH Total				7.2	7.4	7.6	7.8	8.0	8.3	8.6	8.8	9.1	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.2	12.5	2.82%
EBT1	12.5	0.956	0.74	7.2	7.4	7.6	7.8	8.0	8.3	8.6	8.8	9.1	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.2	12.5	2.82%
EBT1_10	7.6	0.994	1.00	3.2	3.2	3.3	3.4	3.6	3.7	3.8	3.9	4.0	4.1	4.3	4.4	4.5	4.6	4.8	4.9	5.0	5.2	5.3	5.4	5.5	2.82%
EBT1_20	2.4	0.939	1.00	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	2.0	2.0	2.1	2.1	2.2	2.3	2.3	2.4	2.5	2.5	2.6	2.6	2.7	2.82%
EBT1_30	4.5	0.918	1.00	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	2.82%
Total Feeder Load				7.4	7.6	7.8	8.0	8.3	8.5	8.8	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.8	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	
ESCARPMENT Total				34.9	36.3	37.8	39.5	41.5	43.4	45.4	47.5	49.6	51.8	54.2	56.6	59.1	61.6	64.2	66.9	69.7	72.3	74.9	77.4	80.0	4.23%
EST1	37.3	0.960	1.12	12.9	13.4	14.0	14.6	15.3	16.0	16.8	17.5	18.3	19.1	20.0	20.9	21.8	22.8	23.7	24.7	25.7	26.7	27.7	28.6	29.5	4.23%
EST1_20	30.2	0.950	1.00	2.0	2.1	2.1	2.2	2.4	2.5	2.6	2.7	2.8	2.9	3.1	3.2	3.4	3.5	3.6	3.8	4.0	4.1	4.2	4.4	4.5	4.23%
EST1_40	30.2	0.964	1.00	10.5	11.0	11.4	11.9	12.5	13.1	13.7	14.3	15.0	15.6	16.4	17.1	17.8	18.6	19.4	20.2	21.0	21.8	22.6	23.4	24.1	4.23%
Total Feeder Load				12.5	13.0	13.6	14.2	14.9	15.6	16.3	17.0	17.8	18.6	19.4	20.3	21.2	22.1	23.0	24.0	25.0	25.9	26.9	27.8	28.7	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	
EST2	37.3	0.962	1.12	22.0	22.9	23.8	24.9	26.1	27.4	28.6	29.9	31.3	32.7	34.2	35.7	37.3	38.9	40.5	42.2	43.9	45.6	47.2	48.8	50.4	4.23%
EST2_130	30.2	0.979	1.00	10.4	10.8	11.2	11.7	12.3	12.9	13.5	14.1	14.7	15.4	16.1	16.8	17.6	18.3	19.1	19.9	20.7	21.5	22.2	23.0	23.7	4.23%
EST2_140	30.2	0.943	1.00	11.6	12.1	12.6	13.2	13.8	14.5	15.1	15.8	16.5	17.3	18.1	18.9	19.7	20.6	21.4	22.3	23.2	24.1	25.0	25.8	26.7	4.23%
Total Feeder Load				22.0	22.9	23.8	24.9	26.1	27.4	28.6	29.9	31.3	32.7	34.2	35.7	37.3	38.9	40.5	42.2	43.9	45.6	47.2	48.8	50.4	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
FISCHER Total				24.5	25.2	26.1	26.9	27.9	28.9	29.9	30.9	32.0	33.1	34.2	35.4	36.5	37.7	38.9	40.1	41.4	42.6	43.7	44.8	45.9	3.19%
FCT1	22.4	0.986	0.93	12.4	12.8	13.2	13.7	14.3	14.8	15.4	16.0	16.6	17.2	17.9	18.5	19.2	19.9	20.6	21.3	22.0	22.7	23.4	24.1	24.7	3.53%
FCT1_10	9.3	0.974	0.60	6.2	6.4	6.5	6.7	6.9	7.0	7.2	7.4	7.6	7.7	7.9	8.1	8.3	8.5	8.7	8.9	9.1	9.3	9.4	9.6	9.8	2.28%
FCT1_30	9.3	0.994	1.20	6.2	6.4	6.7	7.1	7.5	7.8	8.2	8.6	9.1	9.5	10.0	10.4	10.9	11.4	11.9	12.5	13.0	13.5	14.0	14.5	15.0	4.55%
FCT1_40	4.5	0.000	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
Total Feeder Load				12.4	12.8	13.3	13.8	14.3	14.9	15.4	16.0	16.6	17.2	17.9	18.6	19.2	19.9	20.6	21.4	22.1	22.8	23.5	24.1	24.8	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
FCT2	37.3	0.991	0.74	12.2	12.5	12.8	13.2	13.6	14.1	14.5	14.9	15.4	15.9	16.3	16.8	17.3	17.8	18.3	18.8	19.3	19.8	20.3	20.8	21.2	2.82%
FCT2_110	30.2	0.994	1.00	6.5	6.7	6.9	7.1	7.3	7.5	7.8	8.0	8.2	8.5	8.7	9.0	9.3	9.5	9.8	10.1	10.3	10.6	10.9	11.1	11.3	2.82%
FCT2_130	30.2	0.963	1.00	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.82%
FCT2_140	30.2	0.989	1.00	5.2	5.4	5.5	5.7	5.9	6.1	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.7	7.9	8.1	8.3	8.5	8.7	8.9	9.1	2.82%
Total Feeder Load				13.1	13.5	13.8	14.3	14.7	15.2	15.7	16.1	16.6	17.1	17.6	18.2	18.7	19.2	19.8	20.3	20.9	21.4	21.9	22.4	22.9	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	

2/6/2012
3:40 PM

PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	PEC Distribution System Demand Forecast (MWs)																				Compound Growth Rate
					LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
FRIESS RANCH Total				0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.41%
FET1	2.5	0.957	0.37	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.41%
FET1_6040	4.3	0.917	1.00	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.41%
FET1_6045	4.3	0.997	1.00	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.41%
Total Feeder Load				0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	-----
Transformer Demand Growth Rate					1.3%	1.4%	1.5%	1.6%	1.6%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.4%	1.4%	1.4%	1.4%	1.3%	1.2%	1.1%	1.1%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
FAIRLAND Total				22.7	23.5	24.4	25.4	26.6	27.7	28.8	30.0	31.2	32.5	33.9	35.3	36.7	38.1	39.5	41.0	42.6	44.1	45.5	46.9	48.3	3.84%
FLT1	22.4	0.875	1.12	9.8	10.2	10.6	11.1	11.6	12.2	12.8	13.3	13.9	14.6	15.2	15.9	16.6	17.3	18.0	18.8	19.6	20.3	21.0	21.8	22.5	4.23%
FLT1_10	8.9	0.000	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
FLT1_20	8.9	0.969	1.00	5.1	5.5	5.9	6.4	7.0	7.6	8.2	8.8	9.4	10.0	10.7	11.4	12.2	12.9	13.7	14.5	15.3	16.0	16.8	17.5	18.3	6.61%
FLT1_40	4.5	0.765	-	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	0.00%
Total Feeder Load				10.2	10.6	11.1	11.6	12.1	12.7	13.3	13.9	14.5	15.2	15.9	16.6	17.3	18.1	18.8	19.6	20.4	21.2	21.9	22.7	23.4	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
FLT2	37.3	0.974	0.93	12.9	13.3	13.8	14.3	14.9	15.5	16.1	16.7	17.3	18.0	18.6	19.3	20.1	20.8	21.5	22.2	23.0	23.7	24.4	25.1	25.8	3.53%
FLT2_130	15.1	0.925	0.80	4.5	4.6	4.7	4.9	5.0	5.2	5.3	5.5	5.6	5.8	5.9	6.1	6.3	6.4	6.6	6.8	6.9	7.1	7.3	7.4	7.6	2.62%
FLT2_140	15.1	0.997	1.20	5.7	5.9	6.2	6.4	6.7	7.0	7.3	7.6	7.9	8.3	8.6	9.0	9.4	9.7	10.1	10.5	10.9	11.3	11.6	12.0	12.4	3.93%
FLT2_150	15.1	0.974	1.20	3.4	3.5	3.6	3.8	3.9	4.1	4.3	4.5	4.7	4.8	5.1	5.3	5.5	5.7	5.9	6.1	6.4	6.6	6.8	7.0	7.2	3.93%
Total Feeder Load				13.6	14.0	14.5	15.1	15.7	16.3	16.9	17.6	18.2	18.9	19.6	20.4	21.1	21.9	22.6	23.4	24.2	25.0	25.7	26.4	27.2	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
FAIR OAKS Total				10.7	11.2	11.6	12.2	12.7	13.3	14.0	14.6	15.2	15.9	16.7	17.4	18.2	18.9	19.7	20.6	21.4	22.2	23.0	23.8	24.6	4.23%
FOT1	22.4	1.000	1.12	10.7	11.2	11.6	12.2	12.7	13.3	14.0	14.6	15.2	15.9	16.7	17.4	18.2	18.9	19.7	20.6	21.4	22.2	23.0	23.8	24.6	4.23%
FOT1_10	18.5	0.999	1.00	4.4	4.6	4.8	5.0	5.2	5.5	5.7	6.0	6.2	6.5	6.8	7.1	7.4	7.8	8.1	8.4	8.8	9.1	9.4	9.8	10.1	4.23%
FOT1_20	18.5	1.000	1.00	6.5	6.8	7.0	7.4	7.7	8.1	8.5	8.8	9.2	9.7	10.1	10.6	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.4	14.9	4.23%
FOT1_40	18.5	0.000	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
Total Feeder Load				10.9	11.3	11.8	12.4	13.0	13.6	14.2	14.8	15.5	16.2	16.9	17.7	18.5	19.3	20.1	20.9	21.8	22.6	23.4	24.2	25.0	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
FLATROCK Total				7.4	7.6	7.8	8.1	8.4	8.8	9.1	9.4	9.7	10.1	10.4	10.8	11.2	11.6	12.0	12.4	12.8	13.1	13.5	13.9	14.2	3.35%
FRT1	10.5	0.996	0.88	7.4	7.6	7.8	8.1	8.4	8.8	9.1	9.4	9.7	10.1	10.4	10.8	11.2	11.6	12.0	12.4	12.8	13.1	13.5	13.9	14.2	3.35%
FRT1_10	8.9	0.996	0.84	2.8	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.9	4.0	4.1	4.2	4.3	4.4	4.6	4.7	4.8	4.9	2.88%
FRT1_20	8.9	0.996	1.05	4.9	5.1	5.2	5.4	5.7	5.9	6.1	6.4	6.6	6.9	7.1	7.4	7.7	8.0	8.2	8.5	8.8	9.1	9.4	9.7	9.9	3.60%
Total Feeder Load				7.7	7.9	8.2	8.5	8.8	9.1	9.4	9.8	10.1	10.5	10.9	11.3	11.6	12.0	12.4	12.9	13.3	13.7	14.1	14.4	14.8	-----
Transformer Demand Growth Rate					3.1%	3.4%	3.6%	3.8%	3.7%	3.7%	3.6%	3.5%	3.6%	3.6%	3.6%	3.5%	3.4%	3.3%	3.3%	3.3%	3.0%	2.8%	2.7%	2.6%	-----
Feeder / Transformer Diversity Factor				0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
FRIENDSHIP Total				24.0	25.0	26.3	27.7	29.3	30.9	32.5	34.2	36.0	37.9	39.9	42.0	44.2	46.4	48.7	51.0	53.5	55.9	58.2	60.5	62.8	4.94%
FST1	22.4	0.984	1.30	8.0	8.4	8.8	9.2	9.8	10.3	10.9	11.4	12.0	12.7	13.3	14.0	14.7	15.5	16.2	17.0	17.9	18.6	19.4	20.2	20.9	4.94%
FST1_10	17.7	0.982	0.86	6.3	6.6	6.9	7.3	7.7	8.1	8.5	8.9	9.4	9.8	10.3	10.8	11.4	11.9	12.5	13.1	13.7	14.2	14.8	15.4	15.9	4.72%
FST1_20	17.7	1.000	1.00	2.3	2.4	2.5	2.7	2.9	3.0	3.2	3.4	3.6	3.8	4.0	4.3	4.5	4.8	5.0	5.3	5.6	5.9	6.1	6.4	6.7	5.50%
Total Feeder Load				8.6	9.0	9.5	10.0	10.5	11.1	11.7	12.3	13.0	13.6	14.4	15.1	15.9	16.7	17.5	18.4	19.3	20.1	20.9	21.8	22.6	-----
Transformer Demand Growth Rate					4.6%	5.0%	5.3%	5.6%	5.5%	5.4%	5.3%	5.2%	5.3%	5.3%	5.3%	5.1%	5.0%	4.9%	4.9%	4.8%	4.4%	4.1%	3.9%	3.8%	-----
Feeder / Transformer Diversity Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	

PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	PEC Distribution System Demand Forecast (MWs) LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	LL9	LL10	LL11	LL12	LL13	LL14	LL15	LL16	LL17	LL18	LL19	LL20	Compound Growth Rate
					2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
FST2	22.4	0.980	1.30	16.0	16.7	17.5	18.5	19.5	20.6	21.7	22.8	24.0	25.3	26.6	28.0	29.4	30.9	32.4	34.0	35.7	37.2	38.8	40.3	41.8	4.94%
FST2_30	0.0	0.000	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
FST2_120	18.5	0.984	1.00	13.4	14.0	14.7	15.5	16.4	17.3	18.2	19.1	20.1	21.2	22.3	23.5	24.7	25.9	27.2	28.5	29.9	31.2	32.5	33.8	35.1	4.94%
FST2_160	18.5	0.984	1.00	2.9	3.0	3.2	3.3	3.5	3.7	3.9	4.1	4.4	4.6	4.8	5.1	5.3	5.6	5.9	6.2	6.5	6.8	7.0	7.3	7.6	4.94%
Total Feeder Load				16.3	17.0	17.9	18.8	19.9	21.0	22.1	23.3	24.5	25.8	27.1	28.6	30.0	31.5	33.1	34.7	36.4	38.0	39.6	41.1	42.7	-----
Transformer Demand Growth Rate					4.6%	5.0%	5.3%	5.6%	5.5%	5.4%	5.3%	5.2%	5.3%	5.3%	5.3%	5.1%	5.0%	4.9%	4.9%	4.8%	4.4%	4.1%	3.9%	3.8%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
GABRIEL Total				12.4	12.8	13.3	13.8	14.4	14.9	15.5	16.1	16.7	17.3	18.0	18.6	19.3	20.0	20.7	21.4	22.2	22.9	23.6	24.2	24.9	3.53%
GBT4	22.4	0.977	0.93	12.4	12.8	13.3	13.8	14.4	14.9	15.5	16.1	16.7	17.3	18.0	18.6	19.3	20.0	20.7	21.4	22.2	22.9	23.6	24.2	24.9	3.53%
GBT4_120	4.7	0.835	0.60	2.9	2.9	3.0	3.0	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.7	3.8	3.9	3.9	4.0	4.1	4.2	4.3	4.3	4.4	2.21%
GBT4_130	17.7	0.996	1.00	8.6	8.9	9.3	9.6	10.0	10.4	10.9	11.3	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.8	16.3	16.8	17.3	17.8	3.69%
GBT4_140	17.7	0.959	1.20	2.0	2.0	2.1	2.2	2.4	2.5	2.6	2.7	2.8	3.0	3.1	3.3	3.4	3.6	3.7	3.9	4.1	4.2	4.4	4.5	4.7	4.42%
Total Feeder Load				13.4	13.9	14.4	14.9	15.5	16.1	16.7	17.4	18.0	18.7	19.4	20.1	20.9	21.6	22.4	23.2	24.0	24.7	25.4	26.2	26.9	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	
GOFORTH Total				40.6	42.2	43.9	46.0	48.2	50.4	52.8	55.2	57.6	60.2	63.0	65.8	68.7	71.6	74.6	77.8	81.0	84.1	87.0	90.0	92.9	4.23%
GFT1	22.4	0.979	1.12	13.4	13.9	14.5	15.1	15.9	16.6	17.4	18.2	19.0	19.8	20.8	21.7	22.6	23.6	24.6	25.6	26.7	27.7	28.7	29.7	30.6	4.23%
GFT1_10	25.9	0.997	1.00	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	4.23%
GFT1_20	25.9	0.978	1.00	13.1	13.6	14.2	14.8	15.5	16.3	17.0	17.8	18.6	19.4	20.3	21.2	22.2	23.1	24.1	25.1	26.1	27.1	28.1	29.0	30.0	4.23%
Total Feeder Load				13.4	13.9	14.5	15.1	15.9	16.6	17.4	18.2	19.0	19.8	20.8	21.7	22.6	23.6	24.6	25.6	26.7	27.7	28.7	29.7	30.6	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
GFT2	37.3	0.964	1.12	27.2	28.3	29.5	30.8	32.3	33.8	35.4	37.0	38.6	40.4	42.2	44.1	46.0	48.0	50.0	52.1	54.3	56.4	58.4	60.3	62.3	4.23%
GFT2_110	25.9	0.967	1.00	12.4	12.9	13.4	14.0	14.7	15.4	16.1	16.8	17.6	18.4	19.2	20.1	21.0	21.9	22.8	23.7	24.7	25.7	26.6	27.5	28.3	4.23%
GFT2_120	25.9	0.962	1.00	14.9	15.5	16.1	16.9	17.7	18.5	19.4	20.2	21.1	22.1	23.1	24.1	25.2	26.3	27.4	28.5	29.7	30.8	31.9	33.0	34.1	4.23%
Total Feeder Load				27.3	28.3	29.5	30.9	32.4	33.9	35.5	37.1	38.7	40.5	42.3	44.2	46.2	48.1	50.1	52.2	54.4	56.5	58.5	60.5	62.4	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
GLASSCOCK Total				21.3	22.2	23.1	24.2	25.3	26.5	27.7	29.0	30.3	31.7	33.1	34.6	36.1	37.7	39.2	40.9	42.6	44.2	45.8	47.3	48.9	4.23%
GLT1	33.3	0.968	1.12	21.3	22.2	23.1	24.2	25.3	26.5	27.7	29.0	30.3	31.7	33.1	34.6	36.1	37.7	39.2	40.9	42.6	44.2	45.8	47.3	48.9	4.23%
GLT1_10	25.9	0.993	1.00	4.5	4.6	4.8	5.1	5.3	5.6	5.8	6.1	6.3	6.6	6.9	7.2	7.6	7.9	8.2	8.6	8.9	9.3	9.6	9.9	10.2	4.23%
GLT1_20	25.9	0.961	1.00	11.3	11.7	12.2	12.8	13.4	14.0	14.7	15.3	16.0	16.7	17.5	18.3	19.1	19.9	20.7	21.6	22.5	23.4	24.2	25.0	25.8	4.23%
GLT1_40	17.7	0.904	1.00	6.9	7.2	7.5	7.8	8.2	8.6	9.0	9.4	9.8	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.3	14.8	15.3	15.8	4.23%
Total Feeder Load				22.6	23.5	24.5	25.6	26.9	28.1	29.4	30.8	32.1	33.6	35.1	36.7	38.3	40.0	41.6	43.4	45.2	46.9	48.6	50.2	51.8	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	
GRAPHITE MINE Total				7.1	7.3	7.4	7.6	7.8	8.0	8.2	8.3	8.5	8.7	8.9	9.1	9.3	9.5	9.7	9.9	10.1	10.3	10.5	10.7	10.9	2.12%
GMT1	12.5	0.998	0.56	7.1	7.3	7.4	7.6	7.8	8.0	8.2	8.3	8.5	8.7	8.9	9.1	9.3	9.5	9.7	9.9	10.1	10.3	10.5	10.7	10.9	2.12%
GMT1_10	8.9	0.994	1.00	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.2	2.2	2.3	2.4	2.4	2.5	2.5	2.6	2.7	2.7	2.8	2.74%
GMT1_20	8.9	0.957	-	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.00%
GMT1_50	13.0	0.997	1.00	3.0	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.7	4.8	4.9	5.0	5.1	2.74%
GMT1_70	4.5	0.981	1.00	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.74%
Total Feeder Load				7.9	8.1	8.3	8.5	8.7	8.9	9.1	9.3	9.5	9.7	9.9	10.1	10.4	10.6	10.8	11.0	11.3	11.5	11.7	11.9	12.1	-----
Transformer Demand Growth Rate					2.0%	2.1%	2.3%	2.4%	2.4%	2.3%	2.3%	2.2%	2.3%	2.3%	2.3%	2.2%	2.1%	2.1%	2.1%	2.1%	1.9%	1.8%	1.7%	1.6%	-----
Feeder / Transformer Diversity Factor				0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	

2/6/2012
3:40 PM

PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	PEC Distribution System Demand Forecast (MWs) LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	Compound Growth Rate
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
GRANITE MOUNTAIN Total				25.7	26.6	27.5	28.5	29.7	30.9	32.1	33.3	34.5	35.8	37.2	38.5	40.0	41.4	42.8	44.3	45.9	47.3	48.7	50.1	51.4	3.53%
GRT1	22.4	0.974	0.93	15.0	15.5	16.0	16.6	17.3	18.0	18.7	19.4	20.1	20.8	21.6	22.4	23.3	24.1	24.9	25.8	26.7	27.5	28.4	29.2	29.9	3.53%
GRT1_40	14.0	0.963	1.20	9.3	9.7	10.1	10.6	11.1	11.7	12.2	12.8	13.4	14.0	14.6	15.3	16.0	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	4.28%
GRT1_50	8.9	0.974	0.60	6.1	6.3	6.4	6.5	6.7	6.9	7.0	7.2	7.4	7.5	7.7	7.9	8.0	8.2	8.4	8.6	8.7	8.9	9.1	9.2	9.4	2.14%
Total Feeder Load				15.5	16.0	16.5	17.2	17.9	18.6	19.3	20.0	20.7	21.5	22.3	23.2	24.0	24.9	25.7	26.6	27.6	28.4	29.3	30.1	30.9	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	
GRT2	22.4	0.990	0.93	10.7	11.1	11.5	11.9	12.4	12.9	13.4	13.9	14.4	15.0	15.5	16.1	16.7	17.3	17.9	18.5	19.2	19.8	20.4	20.9	21.5	3.53%
GRT2_120	8.9	0.972	0.60	1.6	1.7	1.7	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.34%
GRT2_130	8.9	0.995	0.80	6.3	6.5	6.7	6.9	7.2	7.4	7.7	7.9	8.2	8.5	8.8	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	3.12%
GRT2_150	8.9	0.962	1.20	3.2	3.4	3.5	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.3	5.5	5.8	6.1	6.4	6.7	7.0	7.2	7.5	7.8	8.1	4.69%
Total Feeder Load				11.2	11.5	11.9	12.4	12.9	13.4	13.9	14.4	15.0	15.5	16.1	16.7	17.3	18.0	18.6	19.2	19.9	20.5	21.1	21.7	22.3	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
HENLY Total				12.3	12.7	13.0	13.4	13.9	14.3	14.7	15.2	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.5	2.82%
HNT1	37.3	0.955	0.74	12.3	12.7	13.0	13.4	13.9	14.3	14.7	15.2	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.5	2.82%
HNT1_20	8.9	0.983	1.00	2.8	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.3	4.4	4.5	4.6	4.7	4.8	2.82%
HNT1_30	8.9	0.951	1.00	7.1	7.3	7.5	7.7	7.9	8.2	8.4	8.7	9.0	9.2	9.5	9.8	10.1	10.4	10.7	10.9	11.3	11.5	11.8	12.1	12.3	2.82%
HNT1_40	8.9	0.932	1.00	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.1	4.2	4.3	4.4	4.6	4.7	4.8	4.9	5.0	5.2	5.3	2.82%
Total Feeder Load				12.9	13.2	13.6	14.0	14.4	14.9	15.3	15.8	16.3	16.8	17.3	17.8	18.3	18.8	19.4	19.9	20.4	21.0	21.5	21.9	22.4	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder/Transformer Diversity Factor				0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	-----
HORSESHOEBAY Total				19.2	19.8	20.5	21.3	22.2	23.0	23.9	24.8	25.7	26.7	27.7	28.8	29.8	30.9	32.0	33.1	34.2	35.3	36.3	37.4	38.4	3.53%
HST1	22.4	0.963	0.93	8.3	8.5	8.8	9.2	9.5	9.9	10.3	10.7	11.1	11.5	11.9	12.4	12.8	13.3	13.7	14.2	14.7	15.2	15.6	16.1	16.5	3.53%
HST1_20	15.1	0.978	1.00	3.4	3.5	3.7	3.8	4.0	4.1	4.3	4.4	4.6	4.8	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.5	6.7	6.8	3.53%
HST1_30	15.1	0.967	1.00	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.4	1.4	3.53%
HST1_40	15.1	0.978	1.00	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.4	6.6	6.8	7.1	7.4	7.6	7.9	8.2	8.5	8.7	9.0	9.2	9.5	3.53%
Total Feeder Load				8.9	9.2	9.5	9.9	10.3	10.7	11.1	11.5	11.9	12.4	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder/Transformer Diversity Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	-----
HST2	37.3	0.980	0.93	10.9	11.3	11.7	12.1	12.6	13.1	13.6	14.1	14.7	15.2	15.8	16.4	17.0	17.6	18.2	18.9	19.5	20.1	20.7	21.3	21.9	3.53%
HST2_120	8.9	0.972	1.00	6.6	6.8	7.1	7.3	7.6	7.9	8.3	8.6	8.9	9.2	9.6	9.9	10.3	10.7	11.0	11.4	11.8	12.2	12.5	12.9	13.2	3.53%
HST2_130	8.9	0.969	1.00	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.4	3.53%
HST2_140	8.9	0.993	1.00	3.7	3.9	4.0	4.1	4.3	4.5	4.7	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.7	6.9	7.1	7.3	7.5	3.53%
Total Feeder Load				11.1	11.4	11.8	12.3	12.8	13.3	13.8	14.3	14.9	15.4	16.0	16.6	17.2	17.8	18.4	19.1	19.8	20.4	21.0	21.6	22.2	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder/Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	-----

2/6/2012
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PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	Compound Growth Rate
					PEC Distribution System Demand Forecast (MWs)																				
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
HUNTER Total				14.2	14.5	14.8	15.2	15.5	15.9	16.3	16.6	17.0	17.4	17.8	18.2	18.6	19.0	19.4	19.8	20.2	20.6	20.9	21.3	21.6	2.12%
HTT1	22.4	0.984	0.56	14.2	14.5	14.8	15.2	15.5	15.9	16.3	16.6	17.0	17.4	17.8	18.2	18.6	19.0	19.4	19.8	20.2	20.6	20.9	21.3	21.6	2.12%
HTT1_20	8.9	0.896	1.00	2.1	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.8	2.8	2.9	2.9	3.0	3.0	3.1	3.1	2.12%
HTT1_40	8.9	0.958	1.00	6.6	6.7	6.8	7.0	7.2	7.3	7.5	7.7	7.8	8.0	8.2	8.4	8.6	8.7	8.9	9.1	9.3	9.5	9.7	9.8	10.0	2.12%
HTT1_50	8.9	0.999	1.00	5.8	5.9	6.0	6.1	6.3	6.4	6.6	6.7	6.9	7.0	7.2	7.4	7.5	7.7	7.8	8.0	8.2	8.3	8.5	8.6	8.8	2.12%
HTT1_60	13.0	0.707	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
Total Feeder Load				14.4	14.7	15.0	15.3	15.7	16.1	16.4	16.8	17.2	17.6	18.0	18.4	18.8	19.2	19.6	20.0	20.4	20.8	21.2	21.5	21.9	-----
Transformer Demand Growth Rate					2.0%	2.1%	2.3%	2.4%	2.4%	2.3%	2.3%	2.2%	2.3%	2.3%	2.3%	2.2%	2.1%	2.1%	2.1%	2.1%	1.9%	1.8%	1.7%	1.6%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
HIGHWAY Total				9.6	9.9	10.1	10.5	10.8	11.1	11.5	11.8	12.2	12.5	12.9	13.3	13.7	14.1	14.5	14.9	15.3	15.7	16.0	16.4	16.8	2.82%
HWT1	22.4	0.979	0.74	9.6	9.9	10.1	10.5	10.8	11.1	11.5	11.8	12.2	12.5	12.9	13.3	13.7	14.1	14.5	14.9	15.3	15.7	16.0	16.4	16.8	2.82%
HWT1_10	17.7	0.967	1.00	5.7	5.9	6.1	6.3	6.5	6.7	6.9	7.2	7.4	7.7	7.9	8.2	8.4	8.7	9.0	9.2	9.5	9.8	10.1	10.3	10.5	3.12%
HWT1_20	17.7	1.000	0.75	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.9	5.0	5.1	5.2	5.3	5.5	5.6	5.7	5.8	6.0	6.1	6.2	2.34%
Total Feeder Load				9.6	9.8	10.1	10.4	10.8	11.1	11.4	11.8	12.1	12.5	12.9	13.3	13.7	14.0	14.4	14.8	15.3	15.6	16.0	16.4	16.7	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
INKS Total				4.5	4.7	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.3	6.5	6.7	7.0	7.2	7.5	7.8	8.0	8.3	8.5	8.8	9.0	3.53%
INT3	5.6	0.988	0.93	4.5	4.7	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.3	6.5	6.7	7.0	7.2	7.5	7.8	8.0	8.3	8.5	8.8	9.0	3.53%
INT3_40	4.5	0.990	1.00	4.5	4.7	4.8	5.0	5.2	5.4	5.6	5.9	6.1	6.3	6.5	6.8	7.0	7.3	7.5	7.8	8.1	8.3	8.6	8.8	9.0	3.53%
Total Feeder Load				4.5	4.7	4.8	5.0	5.2	5.4	5.6	5.9	6.1	6.3	6.5	6.8	7.0	7.3	7.5	7.8	8.1	8.3	8.6	8.8	9.0	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
JOHNSON CITY Total				13.9	14.2	14.5	14.8	15.2	15.5	15.9	16.3	16.6	17.0	17.4	17.8	18.2	18.5	18.9	19.3	19.7	20.1	20.5	20.8	21.1	2.12%
JCT1	10.5	0.991	0.56	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8	10.1	10.3	10.5	10.7	11.0	11.2	11.4	11.7	11.9	12.1	12.3	12.5	2.12%
JCT1_10	9.3	0.998	1.00	3.3	3.4	3.5	3.6	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.5	4.6	4.7	4.8	4.9	5.0	5.1	2.12%
JCT1_20	9.3	0.962	1.00	5.0	5.1	5.2	5.3	5.5	5.6	5.7	5.8	6.0	6.1	6.2	6.4	6.5	6.7	6.8	7.0	7.1	7.2	7.4	7.5	7.6	2.12%
Total Feeder Load				8.3	8.5	8.7	8.9	9.1	9.3	9.5	9.7	10.0	10.2	10.4	10.7	10.9	11.1	11.4	11.6	11.8	12.1	12.3	12.5	12.7	-----
Transformer Demand Growth Rate					2.0%	2.1%	2.3%	2.4%	2.4%	2.3%	2.3%	2.2%	2.3%	2.3%	2.3%	2.2%	2.1%	2.1%	2.1%	2.1%	1.9%	1.8%	1.7%	1.6%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
JCT2	10.5	0.977	0.56	5.7	5.8	5.9	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.3	7.4	7.6	7.7	7.9	8.1	8.2	8.4	8.5	8.6	2.12%
JCT2_120	4.5	0.982	1.00	2.8	2.9	2.9	3.0	3.1	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.7	3.8	3.8	3.9	4.0	4.1	4.1	4.2	4.3	2.12%
JCT2_130	9.3	0.974	1.00	3.0	3.1	3.1	3.2	3.3	3.3	3.4	3.5	3.6	3.7	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.6	2.12%
Total Feeder Load				5.8	5.9	6.1	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.3	7.4	7.6	7.7	7.9	8.1	8.2	8.4	8.6	8.7	8.8	-----
Transformer Demand Growth Rate					2.0%	2.1%	2.3%	2.4%	2.4%	2.3%	2.3%	2.2%	2.3%	2.3%	2.3%	2.2%	2.1%	2.1%	2.1%	2.1%	1.9%	1.8%	1.7%	1.6%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
JUNCTION Total				6.3	6.4	6.5	6.7	6.9	7.0	7.2	7.3	7.5	7.7	7.8	8.0	8.2	8.4	8.6	8.7	8.9	9.1	9.2	9.4	9.6	2.12%
JNT1	3.8	0.992	0.56	6.3	6.4	6.5	6.7	6.9	7.0	7.2	7.3	7.5	7.7	7.8	8.0	8.2	8.4	8.6	8.7	8.9	9.1	9.2	9.4	9.6	2.12%
JNT1_20	9.1	0.924	0.67	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.40%
JNT1_30	9.1	0.982	1.00	1.7	1.7	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.6	2.10%
JNT1_40	9.1	0.967	1.33	2.5	2.6	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	2.80%
JNT1_50	4.7	0.949	0.67	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.40%
Total Feeder Load				6.9	7.1	7.2	7.4	7.6	7.7	7.9	8.1	8.3	8.5	8.6	8.8	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.5	-----
Transformer Demand Growth Rate					2.0%	2.1%	2.3%	2.4%	2.4%	2.3%	2.3%	2.2%	2.3%	2.3%	2.3%	2.2%	2.1%	2.1%	2.1%	2.1%	1.9%	1.8%	1.7%	1.6%	-----
Feeder / Transformer Diversity Factor				0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	

PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	PEC Distribution System Demand Forecast (MWs) LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	Compound Growth Rate
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
KENT STREET Total				10.2	10.6	11.0	11.5	12.1	12.7	13.2	13.8	14.4	15.1	15.8	16.5	17.2	18.0	18.7	19.5	20.3	21.1	21.8	22.6	23.3	4.23%
KST1	37.3	0.932	1.12	10.2	10.6	11.0	11.5	12.1	12.7	13.2	13.8	14.4	15.1	15.8	16.5	17.2	18.0	18.7	19.5	20.3	21.1	21.8	22.6	23.3	4.23%
KST1_20	30.2	0.927	1.00	7.4	7.7	8.0	8.4	8.8	9.2	9.6	10.0	10.5	10.9	11.4	12.0	12.5	13.0	13.6	14.1	14.7	15.3	15.8	16.4	16.9	4.23%
KST1_30	30.2	0.935	1.00	3.0	3.1	3.2	3.4	3.5	3.7	3.9	4.1	4.2	4.4	4.6	4.8	5.1	5.3	5.5	5.7	6.0	6.2	6.4	6.6	6.8	4.23%
Total Feeder Load				10.4	10.8	11.2	11.7	12.3	12.9	13.5	14.1	14.7	15.4	16.1	16.8	17.5	18.3	19.1	19.9	20.7	21.5	22.2	23.0	23.7	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
KYLE Total				19.4	20.2	21.0	22.0	23.0	24.1	25.2	26.4	27.6	28.8	30.1	31.5	32.9	34.3	35.7	37.2	38.7	40.2	41.6	43.0	44.4	4.23%
KYT1	22.4	0.991	1.12	19.4	20.2	21.0	22.0	23.0	24.1	25.2	26.4	27.6	28.8	30.1	31.5	32.9	34.3	35.7	37.2	38.7	40.2	41.6	43.0	44.4	4.23%
KYT1_20	8.9	0.990	1.00	8.0	8.3	8.6	9.0	9.5	9.9	10.4	10.9	11.3	11.8	12.4	12.9	13.5	14.1	14.7	15.3	15.9	16.5	17.1	17.7	18.3	4.23%
KYT1_30	4.5	0.979	1.00	5.4	5.6	5.8	6.1	6.4	6.7	7.0	7.3	7.7	8.0	8.4	8.8	9.1	9.5	9.9	10.3	10.8	11.2	11.6	12.0	12.4	4.23%
KYT1_40	8.9	0.000	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
KYT1_50	8.9	1.000	1.00	6.3	6.5	6.8	7.1	7.5	7.8	8.2	8.6	8.9	9.3	9.8	10.2	10.6	11.1	11.6	12.1	12.6	13.0	13.5	14.0	14.4	4.23%
Total Feeder Load				19.7	20.4	21.3	22.3	23.4	24.5	25.6	26.7	27.9	29.2	30.5	31.9	33.3	34.7	36.2	37.7	39.3	40.8	42.2	43.6	45.0	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
LEANDER Total				56.4	58.6	62.7	67.1	71.8	76.6	81.4	86.3	92.9	99.7	106.8	115.0	123.2	131.6	140.0	147.6	155.2	162.7	170.1	177.4	183.6	6.07%
LAT2	22.4	0.969	1.12	18.3	19.0	19.8	20.7	21.7	22.7	23.8	24.8	26.0	27.1	28.4	29.6	30.9	32.3	33.6	35.0	36.5	37.9	39.2	40.5	41.9	4.23%
LAT2_110	17.7	0.982	1.00	6.8	7.0	7.3	7.7	8.1	8.4	8.8	9.2	9.6	10.1	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.1	14.6	15.0	15.5	4.23%
LAT2_130	17.7	0.956	1.00	11.6	12.0	12.5	13.1	13.7	14.4	15.1	15.7	16.4	17.2	18.0	18.8	19.6	20.4	21.3	22.2	23.1	24.0	24.8	25.7	26.5	4.23%
Total Feeder Load				18.4	19.1	19.9	20.8	21.8	22.8	23.9	25.0	26.1	27.3	28.5	29.8	31.1	32.4	33.8	35.2	36.7	38.1	39.4	40.7	42.1	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
LAT3	22.4	0.979	1.12	11.7	12.1	12.6	13.2	13.9	14.5	15.2	15.9	16.6	17.3	18.1	18.9	19.7	20.6	21.5	22.4	23.3	24.2	25.0	25.9	26.7	4.23%
LAT3_10	17.7	0.982	1.00	11.6	12.0	12.5	13.1	13.7	14.4	15.1	15.7	16.4	17.2	18.0	18.8	19.6	20.4	21.3	22.2	23.1	24.0	24.8	25.7	26.5	4.23%
LAT3_30	17.7	0.000	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
Total Feeder Load				11.6	12.0	12.5	13.1	13.7	14.4	15.1	15.7	16.4	17.2	18.0	18.8	19.6	20.4	21.3	22.2	23.1	24.0	24.8	25.7	26.5	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	
LAT4	37.3	0.953	1.12	26.5	27.5	30.3	33.2	36.3	39.3	42.5	45.6	50.4	55.3	60.3	66.4	72.5	78.7	84.9	90.2	95.5	100.7	105.8	110.9	115.0	7.61%
LAT4_210	25.9	0.944	1.00	7.9	8.2	9.0	9.9	10.8	11.8	12.7	13.7	15.2	16.7	18.2	19.8	21.3	22.9	24.5	25.1	25.7	26.3	26.9	27.4	28.0	6.56%
LAT4_220	25.9	0.998	1.00	1.6	1.6	1.7	1.8	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2	3.3	3.4	3.6	4.23%
LAT4_230	25.9	0.954	1.00	5.9	6.1	6.9	7.7	8.5	9.3	10.2	11.0	12.4	13.8	15.2	17.6	20.0	22.4	24.8	27.3	29.8	32.2	34.7	37.1	39.5	9.98%
LAT4_250	25.9	0.945	1.00	12.9	13.4	14.5	15.6	16.8	18.0	19.3	20.5	22.3	24.1	26.0	27.9	29.8	31.8	33.7	35.7	37.7	39.7	41.7	43.6	44.5	6.39%
Total Feeder Load				28.2	29.3	32.1	35.0	38.0	41.1	44.2	47.4	52.1	56.9	61.8	67.8	73.8	79.8	85.9	91.1	96.3	101.5	106.5	111.6	115.6	-----
Transformer Demand Growth Rate					3.9%	10.1%	9.6%	9.2%	8.5%	7.9%	7.4%	10.5%	9.7%	9.0%	10.1%	9.2%	8.5%	7.9%	6.2%	5.9%	5.5%	5.1%	4.8%	3.6%	-----
Feeder / Transformer Diversity Factor				0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	

PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

PEC Distribution System Demand Forecast (MWs)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	Compound Growth Rate
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
LEHIGH Total				10.3	10.7	11.2	11.7	12.2	12.8	13.4	14.0	14.6	15.3	16.0	16.7	17.4	18.2	19.0	19.7	20.6	21.4	22.1	22.9	23.6	4.23%
LHT1	37.3	0.955	1.12	10.3	10.7	11.2	11.7	12.2	12.8	13.4	14.0	14.6	15.3	16.0	16.7	17.4	18.2	19.0	19.7	20.6	21.4	22.1	22.9	23.6	4.23%
LHT1_20	25.9	0.000	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.23%
LHT1_30	25.9	1.000	1.00	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.00%
LHT1_40	25.9	0.963	1.00	4.7	4.9	5.1	5.3	5.6	5.8	6.1	6.4	6.7	7.0	7.3	7.6	7.9	8.3	8.6	9.0	9.4	9.7	10.1	10.4	10.7	4.23%
LHT1_50	25.9	0.940	1.00	5.6	5.8	6.0	6.3	6.6	6.9	7.2	7.5	7.9	8.2	8.6	9.0	9.4	9.8	10.2	10.6	11.1	11.5	11.9	12.3	12.7	4.23%
Total Feeder Load				10.3	10.8	11.2	11.7	12.3	12.9	13.5	14.1	14.7	15.4	16.1	16.8	17.5	18.3	19.0	19.8	20.7	21.4	22.2	23.0	23.7	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
LAGO VISTA Total				30.6	31.6	32.7	33.9	35.3	36.7	38.1	39.5	41.0	42.6	44.2	45.8	47.5	49.2	50.9	52.7	54.5	56.3	57.9	59.5	61.2	3.53%
LVT1	22.4	0.996	0.93	18.3	18.9	19.6	20.3	21.1	22.0	22.8	23.7	24.5	25.5	26.4	27.4	28.4	29.4	30.5	31.5	32.6	33.7	34.7	35.6	36.6	3.53%
LVT1_20	8.9	0.986	1.20	6.8	7.0	7.3	7.6	8.0	8.3	8.7	9.1	9.4	9.8	10.3	10.7	11.1	11.6	12.1	12.5	13.0	13.5	13.9	14.4	14.8	3.99%
LVT1_30	15.1	0.992	0.80	6.8	6.9	7.1	7.3	7.6	7.8	8.0	8.2	8.5	8.7	9.0	9.2	9.5	9.7	10.0	10.2	10.5	10.7	11.0	11.2	11.4	2.66%
LVT1_40	8.9	0.991	1.20	4.5	4.7	4.9	5.1	5.3	5.6	5.8	6.0	6.3	6.6	6.8	7.1	7.4	7.7	8.0	8.3	8.7	9.0	9.3	9.6	9.9	3.99%
Total Feeder Load				18.0	18.6	19.3	20.0	20.8	21.7	22.5	23.3	24.2	25.1	26.1	27.0	28.0	29.0	30.0	31.1	32.2	33.2	34.2	35.1	36.1	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	
LVT2	22.4	0.997	0.93	12.3	12.7	13.1	13.6	14.2	14.7	15.3	15.9	16.5	17.1	17.7	18.4	19.1	19.8	20.4	21.2	21.9	22.6	23.2	23.9	24.6	3.53%
LVT2_110	4.5	0.993	1.00	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	3.53%
LVT2_120	8.9	0.960	1.00	5.3	5.5	5.7	5.9	6.2	6.4	6.7	6.9	7.2	7.4	7.7	8.0	8.3	8.6	8.9	9.2	9.5	9.8	10.1	10.4	10.7	3.53%
LVT2_130	8.9	0.997	1.00	6.7	6.9	7.1	7.4	7.7	8.0	8.3	8.6	8.9	9.3	9.6	10.0	10.3	10.7	11.1	11.5	11.9	12.2	12.6	13.0	13.3	3.53%
Total Feeder Load				12.2	12.6	13.0	13.5	14.1	14.6	15.2	15.7	16.3	16.9	17.6	18.2	18.9	19.6	20.3	21.0	21.7	22.4	23.1	23.7	24.3	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	
LAKEWAY Total				12.7	13.0	13.2	13.5	13.9	14.2	14.5	14.9	15.2	15.5	15.9	16.2	16.6	17.0	17.3	17.7	18.0	18.4	18.7	19.0	19.3	2.12%
LWT1	22.4	0.982	0.56	12.7	13.0	13.2	13.5	13.9	14.2	14.5	14.9	15.2	15.5	15.9	16.2	16.6	17.0	17.3	17.7	18.0	18.4	18.7	19.0	19.3	2.12%
LWT1_10	8.9	0.998	1.00	4.7	4.8	4.9	5.1	5.2	5.3	5.4	5.5	5.7	5.8	5.9	6.1	6.2	6.3	6.5	6.6	6.7	6.9	7.0	7.1	7.2	2.12%
LWT1_20	8.9	0.976	1.00	5.4	5.6	5.7	5.8	5.9	6.1	6.2	6.4	6.5	6.6	6.8	7.0	7.1	7.3	7.4	7.6	7.7	7.9	8.0	8.1	8.3	2.12%
LWT1_50	8.9	0.946	1.00	2.7	2.8	2.9	2.9	3.0	3.1	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.7	3.7	3.8	3.9	4.0	4.0	4.1	4.2	2.12%
Total Feeder Load				12.9	13.2	13.5	13.8	14.1	14.4	14.8	15.1	15.4	15.8	16.2	16.5	16.9	17.2	17.6	18.0	18.3	18.7	19.0	19.3	19.7	-----
Transformer Demand Growth Rate					2.0%	2.1%	2.3%	2.4%	2.4%	2.3%	2.3%	2.2%	2.3%	2.3%	2.3%	2.2%	2.1%	2.1%	2.1%	2.1%	1.9%	1.8%	1.7%	1.6%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
MANCHACA Total				28.7	29.6	30.5	31.5	32.6	33.8	34.9	36.1	37.3	38.5	39.8	41.1	42.5	43.8	45.2	46.6	48.0	49.4	50.7	52.0	53.2	3.13%
MCT1	22.4	0.960	0.74	16.6	17.0	17.5	18.1	18.6	19.2	19.8	20.4	21.0	21.7	22.3	23.0	23.7	24.3	25.0	25.7	26.4	27.1	27.7	28.4	29.0	2.82%
MCT1_40	9.1	0.980	0.50	3.4	3.4	3.4	3.5	3.5	3.6	3.6	3.6	3.7	3.7	3.8	3.8	3.9	3.9	3.9	4.0	4.0	4.1	4.1	4.1	4.2	1.06%
MCT1_50	17.7	0.952	1.50	13.3	13.7	14.2	14.7	15.2	15.8	16.3	16.9	17.4	18.0	18.7	19.3	19.9	20.6	21.2	21.9	22.5	23.2	23.8	24.4	25.0	3.19%
Total Feeder Load				16.7	17.1	17.6	18.2	18.7	19.3	19.9	20.5	21.1	21.8	22.4	23.1	23.8	24.5	25.1	25.8	26.6	27.2	27.9	28.5	29.1	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
MCT2	22.4	0.992	0.93	12.1	12.5	13.0	13.4	14.0	14.5	15.1	15.7	16.2	16.9	17.5	18.2	18.8	19.5	20.2	20.9	21.6	22.3	22.9	23.6	24.2	3.53%
MCT2_110	30.2	0.993	1.20	7.0	7.3	7.6	7.9	8.3	8.7	9.0	9.4	9.8	10.3	10.7	11.2	11.7	12.1	12.6	13.1	13.7	14.2	14.6	15.1	15.6	4.09%
MCT2_130	17.7	0.999	0.80	5.5	5.7	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.7	8.9	9.1	9.3	9.5	2.72%
Total Feeder Load				12.5	12.9	13.4	13.9	14.5	15.0	15.6	16.2	16.8	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23.0	23.7	24.4	25.1	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	

2/6/2012
3:40 PM

PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	Compound Growth Rate
					PEC Distribution System Demand Forecast (MWs)																				
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
NAMELESS Total				19.2	19.8	20.4	21.1	21.9	22.7	23.5	24.3	25.1	26.0	26.9	27.8	28.7	29.7	30.6	31.6	32.6	33.6	34.5	35.4	36.2	3.23%
NLT1	22.4	1.000	0.74	8.3	8.5	8.8	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.2	11.5	11.8	12.2	12.5	12.9	13.2	13.6	13.9	14.2	14.5	2.82%
NLT1_10	25.9	0.998	1.00	5.7	5.9	6.1	6.3	6.5	6.7	7.0	7.2	7.4	7.7	7.9	8.2	8.4	8.7	8.9	9.2	9.5	9.8	10.0	10.2	10.5	3.05%
NLT1_20	25.9	0.987	0.75	2.7	2.7	2.8	2.9	2.9	3.0	3.1	3.2	3.2	3.3	3.4	3.5	3.6	3.7	3.7	3.8	3.9	4.0	4.1	4.1	4.2	2.29%
Total Feeder Load				8.4	8.6	8.9	9.2	9.5	9.8	10.1	10.4	10.7	11.0	11.3	11.7	12.0	12.3	12.7	13.0	13.4	13.7	14.1	14.4	14.7	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
NLT2	22.4	0.972	0.93	10.9	11.2	11.6	12.1	12.6	13.0	13.5	14.1	14.6	15.1	15.7	16.3	16.9	17.5	18.1	18.7	19.4	20.0	20.6	21.2	21.7	3.53%
NLT2_120	17.7	0.949	1.00	7.3	7.5	7.8	8.1	8.4	8.7	9.0	9.4	9.7	10.1	10.5	10.9	11.3	11.7	12.1	12.5	12.9	13.3	13.7	14.1	14.5	3.53%
NLT2_130	17.7	0.998	1.00	3.7	3.8	3.9	4.1	4.2	4.4	4.6	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.5	6.8	7.0	7.1	7.3	3.53%
Total Feeder Load				10.9	11.3	11.7	12.1	12.6	13.1	13.6	14.1	14.7	15.2	15.8	16.4	17.0	17.6	18.2	18.8	19.5	20.1	20.7	21.3	21.9	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
PALEFACE Total				20.9	21.7	22.6	23.6	24.8	25.9	27.1	28.4	29.6	31.0	32.4	33.8	35.3	36.8	38.4	40.0	41.6	43.2	44.7	46.3	47.8	4.23%
PFT1	37.3	0.975	1.12	12.6	13.1	13.6	14.2	14.9	15.6	16.3	17.1	17.8	18.7	19.5	20.4	21.3	22.2	23.1	24.1	25.1	26.0	27.0	27.9	28.8	4.23%
PFT1_20	29.3	1.000	1.00	3.4	3.5	3.7	3.9	4.1	4.2	4.4	4.6	4.9	5.1	5.3	5.5	5.8	6.0	6.3	6.6	6.8	7.1	7.3	7.6	7.8	4.24%
PFT1_30	29.3	0.894	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
PFT1_40	13.8	0.950	1.00	9.2	9.5	9.9	10.4	10.9	11.4	12.0	12.5	13.1	13.6	14.3	14.9	15.6	16.2	16.9	17.6	18.4	19.1	19.7	20.4	21.1	4.24%
Total Feeder Load				12.6	13.1	13.7	14.3	15.0	15.7	16.4	17.2	17.9	18.8	19.6	20.5	21.4	22.3	23.2	24.2	25.2	26.2	27.1	28.0	28.9	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
PFT2	22.4	1.000	1.12	8.3	8.6	9.0	9.4	9.8	10.3	10.8	11.3	11.8	12.3	12.9	13.4	14.0	14.6	15.3	15.9	16.6	17.2	17.8	18.4	19.0	4.23%
PFT2_120	25.9	0.996	1.00	4.6	4.7	4.9	5.2	5.4	5.7	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8.0	8.4	8.7	9.1	9.4	9.8	10.1	10.4	4.23%
PFT2_140	17.7	0.976	1.00	3.7	3.9	4.0	4.2	4.4	4.6	4.9	5.1	5.3	5.5	5.8	6.1	6.3	6.6	6.9	7.2	7.5	7.7	8.0	8.3	8.6	4.23%
Total Feeder Load				8.3	8.6	9.0	9.4	9.8	10.3	10.8	11.3	11.8	12.3	12.9	13.4	14.0	14.6	15.3	15.9	16.6	17.2	17.8	18.4	19.0	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
ROHR Total				6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	0.00%
RHT1	22.4	0.766	-	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	0.00%
RHT1_20	20.7	0.688	1.00	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.00%
RHT1_30	17.7	0.922	1.00	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	0.00%
Total Feeder Load				6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	-----
Transformer Demand Growth Rate					0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-----
Feeder / Transformer Diversity Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
RIVER OAKS Total				14.3	15.0	15.7	16.6	17.5	18.5	19.5	20.5	21.5	22.7	23.9	25.1	26.4	27.8	29.1	30.5	32.0	33.4	34.8	36.2	37.6	4.94%
RKT1	22.4	0.990	1.30	14.3	15.0	15.7	16.6	17.5	18.5	19.5	20.5	21.5	22.7	23.9	25.1	26.4	27.8	29.1	30.5	32.0	33.4	34.8	36.2	37.6	4.94%
RKT1_10	9.3	0.943	0.29	4.2	4.3	4.3	4.4	4.5	4.5	4.6	4.7	4.7	4.8	4.9	5.0	5.0	5.1	5.2	5.2	5.3	5.3	5.4	5.5	5.5	1.35%
RKT1_20	9.3	1.000	1.43	6.6	7.1	7.6	8.2	8.8	9.5	10.3	11.0	11.8	12.7	13.6	14.5	15.5	16.6	17.6	18.7	19.9	21.0	22.1	23.3	24.4	6.74%
RKT1_40	13.0	0.990	0.86	3.7	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.7	5.9	6.2	6.4	6.6	6.9	7.2	7.4	7.6	7.9	8.1	4.05%
Total Feeder Load				14.5	15.1	15.9	16.7	17.7	18.7	19.7	20.7	21.8	22.9	24.1	25.4	26.7	28.0	29.4	30.9	32.4	33.8	35.2	36.6	38.0	-----
Transformer Demand Growth Rate					4.6%	5.0%	5.3%	5.6%	5.5%	5.4%	5.3%	5.2%	5.3%	5.3%	5.3%	5.1%	5.0%	4.9%	4.9%	4.8%	4.4%	4.1%	3.9%	3.8%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	

2/6/2012
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PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	Compound Growth Rate
					PEC Distribution System Demand Forecast (MWs)																				
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
ROCK SPRINGS Total				2.6	2.7	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	2.82%
RST1	3.8	0.993	0.74	2.6	2.7	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	2.82%
RST1_10	12.9	0.000	1.00	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	2.82%
RST1_20	12.9	0.000	1.00	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	2.82%
RST1_30	25.9	0.000	1.00	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	2.82%
Total Feeder Load				2.6	2.7	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
RUTHERFORD Total				33.1	34.4	35.9	37.5	39.3	41.2	43.1	45.0	47.0	49.2	51.4	53.7	56.1	58.5	60.9	63.5	66.1	68.6	71.1	73.5	75.9	4.23%
RUT1	37.3	0.979	1.12	33.1	34.4	35.9	37.5	39.3	41.2	43.1	45.0	47.0	49.2	51.4	53.7	56.1	58.5	60.9	63.5	66.1	68.6	71.1	73.5	75.9	4.23%
RUT1_20	25.9	0.980	1.00	6.6	6.9	7.2	7.5	7.8	8.2	8.6	9.0	9.4	9.8	10.3	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.1	4.23%
RUT1_30	25.9	0.963	1.00	15.8	16.5	17.2	17.9	18.8	19.7	20.6	21.5	22.5	23.5	24.6	25.7	26.8	28.0	29.1	30.3	31.6	32.8	34.0	35.1	36.3	4.23%
RUT1_40	25.9	0.996	1.00	10.8	11.2	11.7	12.2	12.8	13.4	14.0	14.6	15.3	16.0	16.7	17.4	18.2	19.0	19.8	20.6	21.5	22.3	23.1	23.9	24.6	4.23%
Total Feeder Load				33.2	34.5	36.0	37.6	39.4	41.3	43.2	45.1	47.2	49.3	51.5	53.8	56.2	58.6	61.1	63.6	66.3	68.8	71.2	73.6	76.0	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
SATTLER Total				13.6	14.0	14.5	15.0	15.5	16.0	16.6	17.2	17.7	18.3	19.0	19.6	20.3	20.9	21.6	22.2	22.9	23.6	24.2	24.8	25.4	3.17%
SAT2	22.4	0.995	0.84	13.6	14.0	14.5	15.0	15.5	16.0	16.6	17.2	17.7	18.3	19.0	19.6	20.3	20.9	21.6	22.2	22.9	23.6	24.2	24.8	25.4	3.17%
SAT2_10	9.3	0.994	1.11	3.8	3.9	4.0	4.2	4.3	4.5	4.7	4.9	5.1	5.2	5.4	5.6	5.9	6.1	6.3	6.5	6.7	6.9	7.1	7.3	7.5	3.56%
SAT2_20	9.3	0.942	0.67	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3.1	3.2	3.2	3.3	3.4	3.4	3.5	3.6	3.7	3.8	3.8	3.9	4.0	4.0	2.13%
SAT2_30	9.3	0.965	0.89	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.3	4.4	4.5	4.6	4.8	4.9	5.0	5.1	2.85%
SAT2_40	9.3	0.996	1.11	4.9	5.0	5.2	5.4	5.6	5.8	6.1	6.3	6.5	6.8	7.0	7.3	7.6	7.8	8.1	8.4	8.7	9.0	9.2	9.5	9.8	3.56%
Total Feeder Load				14.1	14.6	15.0	15.5	16.1	16.7	17.2	17.8	18.4	19.0	19.7	20.4	21.0	21.7	22.4	23.1	23.8	24.5	25.1	25.8	26.4	-----
Transformer Demand Growth Rate					2.9%	3.2%	3.4%	3.6%	3.5%	3.5%	3.4%	3.3%	3.4%	3.4%	3.4%	3.3%	3.2%	3.1%	3.1%	3.1%	2.9%	2.7%	2.5%	2.4%	-----
Feeder / Transformer Diversity Factor				0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	
SEGOVIA Total				3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.4	5.5	2.12%
SGT1	10.5	0.994	0.56	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.4	5.5	2.12%
SGT1_30	9.1	0.983	0.67	2.2	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.8	2.8	2.9	2.9	3.0	3.0	3.1	3.1	3.2	3.2	1.97%
SGT1_40	6.0	0.964	0.67	1.5	1.6	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.2	2.3	1.97%
SGT1_50	9.1	0.996	1.33	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	3.93%
Total Feeder Load				4.0	4.1	4.1	4.2	4.3	4.4	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.7	5.8	5.9	6.0	6.1	-----
Transformer Demand Growth Rate					2.0%	2.1%	2.3%	2.4%	2.4%	2.3%	2.3%	2.2%	2.3%	2.3%	2.3%	2.2%	2.1%	2.1%	2.1%	2.1%	1.9%	1.8%	1.7%	1.6%	-----
Feeder / Transformer Diversity Factor				0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	
SEWARD JUNCTION Total				15.7	16.3	17.0	17.7	18.6	19.5	20.4	21.3	22.2	23.2	24.3	25.4	26.5	27.6	28.8	30.0	31.3	32.4	33.6	34.7	35.9	4.23%
SJT1	22.4	0.999	1.12	13.7	14.2	14.8	15.5	16.3	17.0	17.8	18.6	19.4	20.3	21.2	22.2	23.2	24.2	25.2	26.2	27.3	28.4	29.4	30.4	31.4	4.23%
SJT1_20	25.9	1.000	1.00	7.0	7.2	7.6	7.9	8.3	8.7	9.1	9.5	9.9	10.4	10.8	11.3	11.8	12.3	12.8	13.4	13.9	14.5	15.0	15.5	16.0	4.23%
SJT1_30	25.9	0.937	1.00	6.9	7.2	7.5	7.8	8.2	8.6	9.0	9.4	9.8	10.3	10.7	11.2	11.7	12.2	12.7	13.2	13.8	14.3	14.8	15.3	15.8	4.23%
SJT1_40	25.9	0.000	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
Total Feeder Load				13.9	14.4	15.0	15.7	16.5	17.3	18.1	18.9	19.7	20.6	21.6	22.5	23.5	24.5	25.6	26.6	27.7	28.8	29.8	30.8	31.8	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	

2/6/2012
3:40 PM

PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	PEC Distribution System Demand Forecast (MWs)																				Compound Growth Rate
					LL1	LL2	LL3	LL4	LL5	LL6	LL7	LL8	LL9	LL10	LL11	LL12	LL13	LL14	LL15	LL16	LL17	LL18	LL19	LL20	
					2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
SJT2	22.4	0.994	1.12	2.0	2.0	2.1	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.1	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	4.5	4.23%
SJT2_140	25.9	0.581	1.00	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	4.23%
SJT2_150	25.9	0.951	1.00	1.5	1.6	1.7	1.8	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	3.0	3.1	3.2	3.3	3.4	3.5	4.23%
Total Feeder Load				1.8	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2	3.4	3.5	3.7	3.8	3.9	4.0	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	
STARCKE Total				5.1	5.2	5.5	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.2	8.6	8.9	9.3	9.7	10.1	10.5	10.8	11.2	11.6	4.23%
SKT1	37.3	0.978	1.12	5.1	5.2	5.5	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.2	8.6	8.9	9.3	9.7	10.1	10.5	10.8	11.2	11.6	4.23%
SKT1_30	0.0	0.998	0.67	1.8	1.8	1.9	1.9	2.0	2.1	2.1	2.2	2.3	2.4	2.4	2.5	2.6	2.7	2.8	2.9	2.9	3.0	3.1	3.2	3.3	3.13%
SKT1_40	15.1	0.974	1.00	3.6	3.8	4.0	4.2	4.4	4.6	4.9	5.1	5.4	5.6	5.9	6.2	6.5	6.8	7.1	7.5	7.8	8.1	8.4	8.8	9.1	4.69%
Total Feeder Load				5.4	5.6	5.8	6.1	6.4	6.7	7.0	7.3	7.6	8.0	8.4	8.7	9.1	9.5	9.9	10.3	10.7	11.2	11.5	11.9	12.3	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	
SHERWOOD SHORES Total				12.0	12.3	12.7	13.1	13.5	13.9	14.4	14.8	15.3	15.7	16.2	16.7	17.3	17.8	18.3	18.8	19.4	19.9	20.4	20.9	21.4	2.93%
SST1	10.5	0.973	0.56	5.4	5.5	5.6	5.8	5.9	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	7.5	7.7	7.8	8.0	8.1	8.2	2.12%
SST1_10	8.9	0.887	0.67	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.11%
SST1_30	8.9	0.977	1.33	5.0	5.1	5.2	5.4	5.5	5.6	5.8	5.9	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	7.5	7.6	7.8	2.22%
Total Feeder Load				5.6	5.7	5.8	5.9	6.1	6.2	6.4	6.5	6.7	6.8	7.0	7.1	7.3	7.4	7.6	7.7	7.9	8.1	8.2	8.3	8.5	-----
Transformer Demand Growth Rate					2.0%	2.1%	2.3%	2.4%	2.4%	2.3%	2.3%	2.2%	2.3%	2.3%	2.3%	2.2%	2.1%	2.1%	2.1%	2.1%	1.9%	1.8%	1.7%	1.6%	-----
Feeder / Transformer Diversity Factor				0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	
SST2	10.5	0.996	0.93	6.6	6.8	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.1	9.5	9.8	10.2	10.6	10.9	11.3	11.7	12.1	12.4	12.8	13.1	3.53%
SST2_220	8.9	0.995	1.00	6.6	6.8	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.2	9.5	9.9	10.2	10.6	11.0	11.3	11.7	12.1	12.5	12.8	13.2	3.53%
Total Feeder Load				6.6	6.8	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.2	9.5	9.9	10.2	10.6	11.0	11.3	11.7	12.1	12.5	12.8	13.2	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
SPICEWOOD Total				23.4	24.2	25.1	26.0	27.1	28.1	29.2	30.3	31.4	32.6	33.9	35.1	36.4	37.7	39.0	40.4	41.8	43.1	44.4	45.7	46.9	3.53%
SWT1	22.4	0.957	0.93	11.9	12.3	12.7	13.2	13.7	14.3	14.8	15.4	15.9	16.5	17.2	17.8	18.5	19.1	19.8	20.5	21.2	21.9	22.5	23.2	23.8	3.53%
SWT1_10	8.9	0.950	0.60	2.7	2.7	2.8	2.9	2.9	3.0	3.1	3.2	3.2	3.3	3.4	3.5	3.6	3.6	3.7	3.8	3.9	4.0	4.1	4.1	4.2	2.30%
SWT1_20	8.9	0.957	1.00	9.2	9.6	9.9	10.3	10.8	11.3	11.7	12.2	12.7	13.2	13.8	14.3	14.9	15.5	16.1	16.7	17.3	17.9	18.5	19.0	19.6	3.83%
Total Feeder Load				11.9	12.3	12.7	13.2	13.7	14.3	14.8	15.4	15.9	16.5	17.2	17.8	18.5	19.1	19.8	20.5	21.2	21.9	22.5	23.2	23.8	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
SWT2	22.4	0.976	0.93	11.6	11.9	12.4	12.8	13.3	13.9	14.4	14.9	15.5	16.1	16.7	17.3	17.9	18.6	19.2	19.9	20.6	21.3	21.9	22.5	23.1	3.53%
SWT2_110	8.9	0.993	1.00	6.2	6.4	6.7	7.0	7.3	7.6	7.9	8.2	8.6	8.9	9.3	9.7	10.1	10.5	10.9	11.3	11.7	12.1	12.5	12.9	13.3	3.87%
SWT2_120	8.9	0.944	0.80	5.3	5.5	5.6	5.8	6.0	6.3	6.5	6.7	6.9	7.1	7.4	7.6	7.8	8.1	8.3	8.6	8.9	9.1	9.3	9.6	9.8	3.10%
Total Feeder Load				11.5	11.9	12.3	12.8	13.3	13.9	14.4	14.9	15.5	16.1	16.7	17.3	17.9	18.6	19.2	19.9	20.6	21.2	21.9	22.5	23.1	-----
Transformer Demand Growth Rate					3.3%	3.5%	3.8%	4.0%	3.9%	3.8%	3.8%	3.7%	3.8%	3.8%	3.8%	3.7%	3.6%	3.5%	3.5%	3.5%	3.2%	2.9%	2.8%	2.7%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

2/6/2012
3:40 PM

ATTACHMENT 6
Page 100 of 204

PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	Compound Growth Rate
					PEC Distribution System Demand Forecast (MWs)																				
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
TURNERSVILLE Total				31.3	32.5	33.9	35.4	37.1	38.9	40.7	42.5	44.4	46.4	48.5	50.7	53.0	55.2	57.5	59.9	62.4	64.8	67.1	69.4	71.6	4.23%
TVT1	22.4	0.953	1.12	17.7	18.4	19.2	20.0	21.0	22.0	23.0	24.1	25.1	26.3	27.5	28.7	30.0	31.2	32.5	33.9	35.3	36.7	38.0	39.2	40.5	4.23%
TVT1_50	17.7	0.952	1.00	17.7	18.4	19.2	20.1	21.1	22.1	23.1	24.1	25.2	26.3	27.5	28.8	30.0	31.3	32.6	34.0	35.4	36.8	38.1	39.3	40.6	4.23%
TVT1_70	17.7	0.947	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00%
Total Feeder Load				17.7	18.4	19.2	20.1	21.1	22.1	23.1	24.1	25.2	26.3	27.5	28.8	30.0	31.3	32.6	34.0	35.4	36.8	38.1	39.3	40.6	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
TVT2	37.3	0.942	1.12	13.6	14.1	14.7	15.4	16.1	16.9	17.7	18.5	19.3	20.2	21.1	22.0	23.0	24.0	25.0	26.0	27.1	28.2	29.2	30.1	31.1	4.23%
TVT2_110	30.2	0.950	1.00	3.1	3.2	3.4	3.5	3.7	3.9	4.0	4.2	4.4	4.6	4.8	5.0	5.3	5.5	5.7	5.9	6.2	6.4	6.7	6.9	7.1	4.23%
TVT2_120	30.2	0.950	1.00	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.5	5.7	6.0	6.2	6.5	6.8	7.1	7.4	7.7	8.0	8.3	8.6	8.9	9.2	4.23%
TVT2_130	30.2	0.941	1.00	6.5	6.8	7.0	7.4	7.7	8.1	8.5	8.8	9.2	9.6	10.1	10.5	11.0	11.5	12.0	12.5	13.0	13.5	13.9	14.4	14.9	4.23%
Total Feeder Load				13.6	14.2	14.8	15.4	16.2	16.9	17.7	18.5	19.3	20.2	21.1	22.1	23.1	24.1	25.1	26.1	27.2	28.2	29.2	30.2	31.2	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
WIMBERLEY Total				28.9	29.7	30.5	31.4	32.4	33.5	34.5	35.5	36.6	37.7	38.8	40.0	41.2	42.3	43.5	44.7	46.0	47.1	48.3	49.3	50.4	2.82%
WCT1	37.3	1.000	0.74	7.2	7.4	7.6	7.8	8.0	8.3	8.6	8.8	9.1	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.2	12.5	2.82%
WCT1_50	17.7	1.000	1.00	3.7	3.8	3.9	4.0	4.1	4.3	4.4	4.5	4.6	4.8	4.9	5.1	5.2	5.4	5.5	5.7	5.8	6.0	6.1	6.3	6.4	2.82%
WCT1_60	17.7	1.000	1.00	3.7	3.7	3.9	4.0	4.1	4.2	4.4	4.5	4.6	4.8	4.9	5.1	5.2	5.4	5.5	5.7	5.8	6.0	6.1	6.2	6.4	2.82%
Total Feeder Load				7.3	7.5	7.7	8.0	8.2	8.5	8.7	9.0	9.3	9.6	9.8	10.1	10.4	10.7	11.0	11.3	11.7	11.9	12.2	12.5	12.8	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
WCT2	37.3	0.965	0.74	21.7	22.3	22.9	23.6	24.4	25.2	25.9	26.7	27.5	28.3	29.2	30.1	30.9	31.8	32.7	33.6	34.6	35.4	36.3	37.1	37.9	2.82%
WCT2_120	17.7	0.966	1.00	7.4	7.6	7.8	8.1	8.3	8.6	8.8	9.1	9.4	9.7	10.0	10.3	10.6	10.9	11.2	11.5	11.8	12.1	12.4	12.6	12.9	2.82%
WCT2_130	17.7	0.970	1.00	11.5	11.8	12.1	12.5	12.9	13.3	13.7	14.1	14.5	15.0	15.4	15.9	16.4	16.8	17.3	17.8	18.3	18.7	19.2	19.6	20.0	2.82%
WCT2_140	17.7	0.936	1.00	3.0	3.1	3.1	3.2	3.3	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.4	4.5	4.6	4.7	4.9	5.0	5.1	5.2	2.82%
Total Feeder Load				21.9	22.5	23.1	23.8	24.6	25.3	26.1	26.9	27.7	28.5	29.4	30.3	31.2	32.1	32.9	33.9	34.8	35.7	36.5	37.4	38.2	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
WHITESTONE Total				56.3	58.5	61.0	63.8	66.9	70.0	73.3	76.6	80.0	83.6	87.4	91.3	95.3	99.4	103.6	107.9	112.4	116.7	120.8	124.9	129.0	4.23%
WST1	37.3	0.975	1.12	34.3	35.6	37.2	38.9	40.7	42.7	44.6	46.6	48.7	50.9	53.2	55.6	58.1	60.6	63.1	65.7	68.5	71.1	73.6	76.1	78.6	4.23%
WST1_40	17.7	0.973	1.00	16.2	16.8	17.5	18.3	19.2	20.1	21.0	22.0	23.0	24.0	25.1	26.2	27.4	28.6	29.8	31.0	32.3	33.5	34.7	35.9	37.1	4.23%
WST1_50	25.9	0.963	1.00	8.0	8.3	8.7	9.1	9.5	10.0	10.5	10.9	11.4	11.9	12.5	13.0	13.6	14.2	14.8	15.4	16.0	16.7	17.2	17.8	18.4	4.23%
WST1_60	25.9	0.972	1.00	13.5	14.1	14.6	15.3	16.1	16.8	17.6	18.4	19.2	20.1	21.0	21.9	22.9	23.9	24.9	25.9	27.0	28.0	29.0	30.0	31.0	4.23%
Total Feeder Load				37.7	39.2	40.9	42.7	44.8	46.9	49.1	51.3	53.6	56.0	58.6	61.2	63.9	66.6	69.4	72.3	75.3	78.2	81.0	83.7	86.4	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	
WST2	37.3	0.965	1.12	22.0	22.9	23.8	24.9	26.1	27.4	28.6	29.9	31.3	32.7	34.2	35.7	37.3	38.9	40.5	42.2	43.9	45.6	47.2	48.8	50.4	4.23%
WST2_10	17.7	0.999	1.00	9.6	9.9	10.4	10.8	11.4	11.9	12.4	13.0	13.6	14.2	14.9	15.5	16.2	16.9	17.6	18.3	19.1	19.8	20.5	21.2	21.9	4.23%
WST2_20	17.7	0.961	1.00	10.0	10.4	10.8	11.3	11.9	12.4	13.0	13.6	14.2	14.8	15.5	16.2	16.9	17.7	18.4	19.2	20.0	20.7	21.5	22.2	22.9	4.23%
WST2_30	17.7	0.920	1.00	2.9	3.0	3.1	3.3	3.4	3.6	3.8	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.3	5.5	5.8	6.0	6.2	6.4	6.6	4.23%
Total Feeder Load				22.5	23.3	24.3	25.4	26.7	27.9	29.2	30.5	31.9	33.3	34.9	36.4	38.0	39.7	41.3	43.1	44.8	46.6	48.2	49.8	51.5	-----
Transformer Demand Growth Rate					3.9%	4.3%	4.6%	4.8%	4.7%	4.6%	4.5%	4.5%	4.5%	4.6%	4.5%	4.4%	4.3%	4.2%	4.2%	4.2%	3.8%	3.5%	3.4%	3.3%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	

2/6/2012
3:40 PM

PEC Subloads_v7 (Mid-range_Severe Weather)_v3.xlsm
Demand Totals (Summer)

SUBSTATION FEEDER NAME	Capacity (MVA)	Power Factor	Relative Growth Rate	2010Peak (MW)	PEC Distribution System Demand Forecast (MWs) LL1 2011	LL2 2012	LL3 2013	LL4 2014	LL5 2015	LL6 2016	LL7 2017	LL8 2018	LL9 2019	LL10 2020	LL11 2021	LL12 2022	LL13 2023	LL14 2024	LL15 2025	LL16 2026	LL17 2027	LL18 2028	LL19 2029	LL20 2030	Compound Growth Rate
PROJECTED SYSTEM COINCIDENT PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	3.89%
System Load Growth Factor					3.4%	3.9%	4.2%	4.5%	4.4%	4.2%	4.1%	4.2%	4.2%	4.3%	4.2%	4.1%	4.0%	3.9%	3.8%	3.8%	3.5%	3.2%	3.0%	2.9%	-----
WIRTZ Total				13.8	14.1	14.5	15.0	15.4	15.9	16.4	16.9	17.4	17.9	18.5	19.0	19.6	20.1	20.7	21.3	21.9	22.4	23.0	23.5	24.0	2.82%
WZT5	0.0	0.993	0.74	4.8	4.9	5.1	5.2	5.4	5.5	5.7	5.9	6.1	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	2.82%
WZT5_10	8.9	0.980	0.50	2.4	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.8	2.8	2.8	2.9	2.9	3.0	3.0	3.1	3.1	3.1	3.2	3.2	1.53%
WZT5_20	30.2	0.997	1.25	2.5	2.6	2.7	2.8	2.9	3.1	3.2	3.3	3.5	3.6	3.7	3.9	4.0	4.2	4.4	4.5	4.7	4.8	5.0	5.1	5.3	3.82%
Total Feeder Load				4.9	5.0	5.1	5.3	5.5	5.6	5.8	6.0	6.2	6.4	6.5	6.7	6.9	7.1	7.3	7.5	7.7	7.9	8.1	8.3	8.5	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	
WZT6	0.0	0.980	0.74	9.0	9.2	9.5	9.7	10.1	10.4	10.7	11.0	11.3	11.7	12.0	12.4	12.8	13.1	13.5	13.9	14.3	14.6	15.0	15.3	15.6	2.82%
WZT6_130	8.9	0.956	1.25	3.3	3.4	3.6	3.7	3.8	4.0	4.1	4.2	4.4	4.5	4.7	4.8	5.0	5.2	5.3	5.5	5.7	5.8	6.0	6.2	6.3	3.23%
WZT6_150	8.9	0.959	1.00	2.8	2.8	2.9	3.0	3.1	3.2	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	
WZT6_160	8.9	0.995	1.00	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.5	4.6	4.7	4.8	4.9	5.1	5.2	5.3	5.4	5.5	2.58%
Total Feeder Load				9.4	9.6	9.9	10.2	10.6	10.9	11.2	11.6	11.9	12.3	12.6	13.0	13.4	13.8	14.2	14.6	15.0	15.3	15.7	16.1	16.4	-----
Transformer Demand Growth Rate					2.6%	2.8%	3.0%	3.2%	3.1%	3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	2.9%	2.9%	2.8%	2.8%	2.8%	2.5%	2.4%	2.3%	2.2%	-----
Feeder / Transformer Diversity Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
ACTUAL/ FORECAST COINCIDENT SYSTEM PEAK				1,217.5	1,258.6	1,308.1	1,362.9	1,424.1	1,486.3	1,549.2	1,613.1	1,680.3	1,751.0	1,827.0	1,904.1	1,982.0	2,061.2	2,141.6	2,222.8	2,306.2	2,385.9	2,462.5	2,537.4	2,610.5	-----
CALCULATED NON-COINCIDENT SUB. PEAK	2,351.7			1,292.2	1,335.9	1,388.3	1,446.2	1,510.9	1,576.7	1,643.2	1,710.9	1,781.8	1,856.6	1,936.8	2,018.2	2,100.5	2,184.2	2,269.2	2,355.0	2,443.3	2,527.6	2,608.7	2,688.0	2,765.5	
SYSTEM COINCIDENCE FACTOR				0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	-----

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Exhibit 2
COST OF LOSSES

All information in BLUE text requires input data.

LOAD LOSS CALCULATION

ANNUAL COST OF LOSS PER kW:

Cost for Demand:	1kW*DR*DF	$0.00 /kW
Cost for Energy:	(.84(LF^2) + .16(LF))*1kW*(ER)*8760 hours	$148.40 /kW

DR = Existing Power Demand Rate (1)
= $0.00 /kW
LF = Three Year Average Annual Load Factor
= 45.12%
ER = Existing Power Energy Rate (1)
= $0.06966 /kWh
DF = Three Year Average Annual Demand Factor
= 8.49

ANNUAL COST FOR 1kW OF PEAK LOSSES: $148.40 /kW

CORE LOSS CALCULATION

ANNUAL COST OF LOSS PER kW:

Cost for Demand:	1kW*DR*12 months	$0.00 /kW
Cost for Energy	1kW*ER*8760 hours	$610.19 /kW

DR = Existing Power Demand Rate (1)
= $0.00 /kW
ER = Existing Power Energy Rate (1)
= $0.06966 /kWh

ANNUAL COST FOR 1kW OF PEAK LOSSES: $610.19 /kW

LOAD FACTOR CALCULATION (2)

Month	Peak Load (kW) 2008	2009	2010	Three Year Average	Percent of Peak	Percent of Peak Squared
January	1,024,997	943,637	1,329,572	1,099,402	95.02%	0.90
February	972,882	1,008,398	1,056,964	1,012,748	87.53%	0.77
March	855,326	796,966	963,803	872,032	75.37%	0.57
April	767,491	732,665	645,137	715,098	61.81%	0.38
May	1,002,438	919,477	868,609	930,175	80.40%	0.65
June	1,080,902	1,148,247	1,031,961	1,087,037	93.95%	0.88
July	1,068,172	1,180,159	1,085,520	1,111,284	96.05%	0.92
August	1,103,284	1,150,189	1,217,468	1,156,980	100.00%	1.00
September	1,027,410	1,101,808	1,099,226	1,076,148	93.01%	0.87
October	797,983	888,352	831,022	839,119	72.53%	0.53
November	633,878	660,406	748,734	681,006	58.86%	0.35
December	1,046,852	1,071,215	748,734	955,600	82.59%	0.68
System Peak	1,103,284	1,180,159	1,329,572	1,156,980	100.00%	8.49
Ann. MWh Purch.	4,687,027	4,611,548	4,921,570	4,740,048		
Ann. Load Factor	48.50%	44.61%	42.26%	45.12%		

Notes : (1) Based on the average annual energy purchases and power cost for 2008-2010.
(2) Ann. MWh Purch. and Peak Load (kW) for PEC w/o CENTEX.
(From compilation of data in 2011 Load Forecast)

Exhibit 3
PRESENT WORTH COST ASSUMPTIONS

Pedernales Electric Cooperative, Inc.

10/03/11

Economic Analysis Assumptions

All information in BLUE text requires input data.

PRESENT WORTH COST ASSUMPTIONS

Interest for Present Worth Analysis 6.51%

	TRANSMISSION	SUBSTATION	DISTRIBUTION
Annual Inflation on Investment	5.00%	5.00%	5.00%
Depreciation Life of Investment (Years)	40.00	50.00	33.30
Annual Depreciation (3-yr. Avg.)	2.50%	2.00%	3.00%
Nominal Interest Rate	6.51%	6.51%	6.51%
Capital Recovery Factor (Calculated)	7.08%	6.80%	7.42%
Percent O&M Expense of Installed Plant	2.13%	2.84%	3.56%
Annual Inflation of O&M Expenses	0.00%	0.00%	0.00%
Tax on Investment Book Value	0.50%	0.50%	0.50%
Annual Inflation of Tax Rate	0.00%	0.00%	0.00%
Percent Insurance Expense of Installed Plant	0.00%	0.00%	0.00%
Annual Inflation of Insurance Expense	0.00%	0.00%	0.00%

COST OF LOSSES	
Cost for 1kW of Peak Loss (Cu)	$148.40
Cost for 1kW of Peak Loss (Fe)	$610.19
Annual Inflation of Cost of Losses	5.00%

Exhibit 4
BASE CASE

Base Case
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost 2011 $
Substation Improvements		
3	Project 1 - Install new Kent St 46.7 MVA transformer (T2)	$3,080,000
1	Project 2 - Upgrade Kent St T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 4 - Upgrade Whitestone T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 5 - Upgrade Whitestone T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 3 - Upgrade Nameless T1 22.4 MVA transformer with a 37.3 MVA transformer	$2,400,000
3	Project 3 - Upgrade Nameless T2 22.4 MVA transformer with a 37.3 MVA transformer	$2,400,000
1	Project 7 - Upgrade Balcones T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 7 - Upgrade Balcones T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 8 - Upgrade Buttercup T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
4	Project 11 - Upgrade Buttercup T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
8	Project 12 - Upgrade Buttercup T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 17 - Upgrade Balcones T4 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
6	Project 19 - Upgrade Avery Ranch T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
9	Project 19 - Upgrade Avery Ranch T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 22 - Install new Avery Ranch 46.7 MVA transformer (T4)	$3,080,000
1	Project 20 - Install new Kent St 46.7 MVA transformer (T3)	$3,080,000
4	Project 28 - Upgrade Seward Junction T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
2	Project 29 - Upgrade Leander T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 29 - Upgrade Leander T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
4	Project 29 - Upgrade Leander T4 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
6	Project 30 - Install new Leander 46.7 MVA transformer (T5)	$3,080,000
2	Project 32 - Upgrade Seward Junction T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 41 - Upgrade Blockhouse T1 22.4 MVA transformer 46.7 MVA transformer	$2,480,000
3	Project 41 - Install new Blockhouse 46.7 MVA transformer (T3)	$3,080,000
1	Project 56 - Upgrade Manchaca T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 56 - Upgrade Manchaca T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
7	Project 58 - Upgrade Lehigh T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 57 - Install new Lehigh 46.7 MVA transformer (T2)	$3,080,000
1	Project 59 - Upgrade Buda T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 59 - Upgrade Buda T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 65 - Upgrade Turnersville T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 68 - Upgrade Goforth T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 68 - Upgrade Goforth T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 69 - Install new Canyon 37.3 MVA transformer (T1)	$3,000,000
3	Project 67 - Install new Lehigh 46.7 MVA transformer (T3)	$3,080,000
	SUBTOTAL SUBSTATION	**$91,360,000**
Distribution Improvements		
3	Project 1 - Construct new getaway 1000 AL (200 ft) for Kent St KS40	$25,800
2	Project 1 - Double circuit Kent St KS40 with Kent St KS30 1000 AL (10,300 ft)	$1,790,800
3	Project 1 - Install open switch on WS10	$15,000
1	Project 2 - Construct new getaway 1000 AL (200 ft) for Kent St KS50	$25,800
1	Project 2 - Construct (8,700 ft) of 1000 AL to relieve AR40	$1,120,500
4	Project 2 - Reconductor (4,000 ft) from 336 AAC to 795 AAC	$140,900
1	Project 3 - Construct (11,500 ft) of 1000 AL to relieve NL10	$1,481,100
1	Project 3 - Install open switch on WS30	$15,000
2	Project 6 - Double circuit with Whitestone WS60 1000 AL (4,000 ft)	$695,500
2	Project 9 - Install open switch on BR220	$15,000
1	Project 7 - Convert Balcones T1 and T2 to 24.9-kV (525,794 ft)	$1,792,500
1	Project 10 - Construct (500 ft) of 500 Cu to relieve BR20	$37,900
1	Project 10 - Double circuit Buttercup BR340 with Buttercup BR20 1000 AL (2,700 ft)	$469,400
1	Project 10 - Construct (1,100 ft) of 500 Cu to relieve BR20	$83,300
2	Project 13 - Double circuit Buttercup BR20 with Buttercup BR330 and BR340 (10,000 ft) 795 AAC	$526,200
1	Project 14 - Double circuit Buttercup BR210 with Buttercup BR330 (6,300 ft) 795 AAC	$331,500
6	Project 15 - Construct new getaway 1000 AL (1,000 ft) for BL10	$128,800
6	Project 15 - Double circuit Balcones BL10 with Balcones BL330 (5,000 ft) 795 AAC	$263,100
6	Project 15 - Construct (150 ft) of 1000 AL for BL10	$19,300
6	Project 15 - Double circuit and rebuild Balcones BL10 with Balcones BL330 (2,100 ft) 1000 AL	$365,100
1	Project 16 - Reconductor BL320 (10,600 ft) from 336 AAC to 795 AAC	$373,400

Base Case
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost
2	Project 21 - Construct new Kent St KS60 (4,300 ft) of 1000 AL to relieve AR240	$553,800
1	Project 21 - Extend AR240 (2,900 ft) 1000 AL to relieve KS60	$373,500
1	Project 21 - Install open switch on KS60	$15,000
3	Project 23 - Construct new Avery Ranch ARNEW1 (4,400 ft) 1000 AL	$566,700
2	Project 23 - Double circuit and rebuild ARNEW1 with AR30 (4,900 ft) 1000 AL	$851,900
3	Project 23 - Insall open switch on AR250	$15,000
5	Project 24 - Reconductor Avery Ranch AR30 (8,300 ft) from 336 AAC to 795 AAC	$292,400
2	Project 25 - Construct new Avery Ranch ARNEW2 (5,200 ft) of 1000 AL to relieve AR120	$669,700
1	Project 27 - Construct new Seward Junction SJ130 (5,300 ft) of 1000 AL to relieve LA10	$682,600
10	Project 31 - Install open switch on LA230	$15,000
4	Project 32 - Construct new Seward Junction SJ120 (4,500 ft) of 1000 AL	$579,500
4	Project 32 - Construct (8,400 ft) of 1000 AL for SJ120	$1,081,800
4	Project 32 - Construct (900 ft) of 1000 AL for SJ120 to relieve SJ20	$115,900
6	Project 33 - Extend LA250 (17,000 ft) 1000 AL	$2,189,400
2	Project 37 - Reconductor Leander LA10 (4,000 ft) from 336 AAC to 795 AAC	$140,900
2	Project 37 - Reconductor Leander LA10 (1,500 ft) from 336 AAC to 795 AAC	$52,800
1	Project 38 - Reconductor Leander LA10 (1,100 ft) from 336 AAC to 795 AAC	$38,800
1	Project 38 - Reconductor Leander LA10 (250 ft) from 336 AAC to 795 AAC	$8,800
8	Project 39 - Reconductor Leander LA210 (350 ft) from 336 AAC to 795 AAC	$12,300
9	Project 40 - Construct new Leander LANEW1 (1,900 ft) 1000 AL to relieve LA220	$244,700
1	Project 42 - Construct new Blockhouse BHNEW1 (1,350 ft) 1000 AL	$173,900
1	Project 42 - Double circuit Blockhouse BHNEW1 with Blockhouse BH140 (4,400 ft) 1000 AL	$765,000
6	Project 43 - Construct new Blockhouse BHNEW2 (5,800 ft) 1000 AL to relieve BH140	$747,000
6	Project 43 - Install open switch on BH130	$15,000
8	Project 43 - Reconductor Blockhouse BHNEW2 (10,000 ft) from 336 AAC and 1/0 to 795 AAC	$352,300
1	Project 44 - Reconductor Blockhouse BH130 (3,800 ft) from 336 AAC to 795 AAC	$133,900
5	Project 45 - Reconductor Blockhouse BH40 (800 ft) from 336 AAC to 795 AAC	$28,200
5	Project 46 - Reconductor Whitehouse WS60 (2,300 ft) from 336 AAC to 795 AAC	$81,000
1	Project 47 - Reconductor Buttercup BR210 (5,400 ft) from 1/0 to 795 AAC	$190,200
5	Project 48 - Reconductor Leander LA250 (5,000 ft) from 1/0 to 336 AAC	$109,900
9	Project 49 - Reconductor Seward Junction SJ120 (2,700 ft) from 1/0 to 336 AAC	$59,400
8	Project 50 - Reconductor Leander LA210 (4,000 ft) from 336 AAC to 795 AAC	$140,900
5	Project 51 - Install Voltage Regulator (LA250 - 400 Amps)	$60,000
5	Project 53 - Install Voltage Regulator (NL120 - 250 Amps)	$60,000
5	Project 52 - Install Voltage Regulator (LA230 - 400 Amps)	$60,000
6	Project 54 - Reconductor Balcones BL220 (250 ft) from 336 AAC to 795 AAC	$8,800
7	Project 55 - Reconductor Whitestone WS20 (1,800 ft) from 336 AAC to 795 AAC	$63,400
1	Project 56 - Install open switch on MC50	$15,000
3	Project 56 - Reconductor Manchaca MC50 (5,300 ft) from 336 AAC to 795 AAC	$186,700
1	Project 57 - Install open switch on BD10	$15,000
1	Project 57 - Extend LH20 (200 ft) 795 AAC	$7,800
2	Project 60 - Install open switch on BD130	$15,000
2	Project 60 - Install open switch on TV110	$15,000
2	Project 60 - Extend Turnersville TV90 (1,350 ft) 795 AAC to relieve BD130	$52,600
6	Project 61 - Reconductor Buda BD120 (2,200 ft) from 336 AAC to 795 AAC	$77,500
1	Project 62 - Construct Lehigh LHNEW1 (600 ft) 1000 AL	$77,300
1	Project 62 - Construct (10,200 ft) 795 AAC on LHNEW1 to relieve LH40	$397,500
1	Project 62 - Install open switch on TV50	$15,000
1	Project 62 - Reconductor Lehigh LHNEW1 (8,000 ft) from 1/0 to 795 AAC	$281,800
3	Project 62 - Reconductor Lehigh LHNEW1 (800 ft) from 1/0 to 795 AAC	$28,200
6	Project 63 - Reconductor Turnersville TV50 (8,000 ft) from 336 AAC to 795 AAC	$281,800
2	Project 64 - Reconductor Turnersville TV50 (2,200 ft) from 1/0 to 795 AAC	$77,500
3	Project 67 - Extend Lehigh LH30 (5,300 ft) 795 AAC	$206,600
3	Project 67 - Install open switch on GF120	$15,000
1	Project 68 - Install open switch on GF110	$15,000
1	Project 69 - Install open switch on KY50	$15,000
1	Project 69 - Construct new Canyon CN50 (250 ft) 795 AAC	$9,700
1	Project 69 - Intall open switch on KY30	$15,000
3	Project 67 - Install open switch on KY20	$15,000
7	Project 70 - Construct new Lehigh LH10 (125 ft) 1000 AL	$16,100
7	Project 70 - Construct (12,300 ft) 795 AAC on LH10	$479,400
6	Project 71 - Construct new Goforth GF30 (300 ft) 1000 AL	$38,600

Base Case
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost
6	Project 71 - Construct (6,400 ft) 795 AAC on GF30	$249,400
7	Project 72 - Install Voltage Regulator (LH30 - 52 Amps)	$60,000
7	Project 73 - Install Voltage Regulator (TV130 - 53 Amps)	$60,000
1	Project 74 - Install Voltage Regulator (TV130 - 110 Amps)	$60,000
1	Project 18 - Install open switch on BL30	$15,000
	SUBTOTAL DISTRIBUTION	**$24,078,800**
TOTAL CAPITAL COST		**$115,438,800**
Losses Summary		
0	Calculated Distribution Losses (kW)	6,317
10	Calculated Distribution Losses (kW)	8,274
Present Worth Cost		
20	20-Year Cumulative Present Worth Cost	**$146,774,400**

Exhibit 5
ALTERNATIVE 1

Alternative 1 - New Substation Southwest of Balcones
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost 2011 $
Substation Improvements		
3	Project 1 - Install new Kent St 46.7 MVA transformer (T2)	$3,080,000
1	Project 2 - Upgrade Kent St T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 4 - Upgrade Whitestone T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 5 - Upgrade Whitestone T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 3 - Upgrade Nameless T1 22.4 MVA transformer with a 37.3 MVA transformer	$2,400,000
3	Project 3 - Upgrade Nameless T2 22.4 MVA transformer with a 37.3 MVA transformer	$2,400,000
1	Porject 7 - Upgrade Balcones T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 7 - Upgrade Balcones T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 8 - Upgrade Buttercup T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
4	Project 11 - Upgrade Buttercup T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
8	Project 12 - Upgrade Buttercup T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
6	Project 19 - Upgrade Avery Ranch T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
9	Project 19 - Upgrade Avery Ranch T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 22 - Install new Avery Ranch 46.7 MVA transformer (T4)	$3,080,000
1	Project 20 - Install new Kent St 46.7 MVA transformer (T3)	$3,080,000
4	Project 28 - Upgrade Seward Junction T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
2	Project 29 - Upgrade Leander T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 29 - Upgrade Leander T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
4	Project 29 - Upgrade Leander T4 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
6	Project 30 - Install new Leander 46.7 MVA transformer (T5)	$3,080,000
2	Project 32 - Upgrade Seward Junction T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 41 - Upgrade Blockhouse T1 22.4 MVA transformer 46.7 MVA transformer	$2,480,000
3	Project 41 - Install new Blockhouse 46.7 MVA transformer (T3)	$3,080,000
1	Project 56 - Upgrade Manchaca T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 56 - Upgrade Manchaca T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
7	Project 58 - Upgrade Lehigh T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 57 - Install new Lehigh 46.7 MVA transformer (T2)	$3,080,000
1	Project 59 - Upgrade Buda T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 59 - Upgrade Buda T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 65 - Upgrade Turnersville T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 68 - Upgrade Goforth T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 68 - Upgrade Goforth T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 69 - Install new Canyon 37.3 MVA transformer (T1)	$3,000,000
3	Project 67 - Install new Lehigh 46.7 MVA transformer (T3)	$3,080,000
1	Alternative Project 1 - Install new Alternative 46.7 MVA transformer (T1)	$4,100,000
1	Alternative Project 1 - Land for new substation	$120,000
	SUBTOTAL SUBSTATION	**$93,100,000**
Distribution Improvements		
3	Project 1 - Construct new getaway 1000 AL (200 ft) for Kent St KS40	$25,800
2	Project 1 - Double circuit Kent St KS40 with Kent St KS30 1000 AL (10,300 ft)	$1,790,800
3	Project 1 - Install open switch on WS10	$15,000
1	Project 2 - Construct new getaway 1000 AL (200 ft) for Kent St KS50	$25,800
1	Project 2 - Construct (8,700 ft) of 1000 AL to relieve AR40	$1,120,500
4	Project 2 - Reconductor (4,000 ft) from 336 AAC to 795 AAC	$140,900
1	Project 3 - Construct (11,500 ft) of 1000 AL to relieve NL10	$1,481,100
1	Project 3 - Install open switch on WS30	$15,000
2	Project 6 - Double circuit with Whitestone WS60 1000 AL (4,000 ft)	$695,500
2	Project 9 - Install open switch on BR220	$15,000
1	Project 7 - Convert Balcones T1 and T2 to 24.9-kV (525,794 ft)	$1,792,500
1	Project 10 - Construct (500 ft) of 500 Cu to relieve BR20	$37,900
1	Project 10 - Double circuit Buttercup BR340 with Buttercup BR20 1000 AL (2,700 ft)	$469,400
1	Project 10 - Construct (1,100 ft) of 500 Cu to relieve BR20	$83,300
2	Project 13 - Double circuit Buttercup BR20 with Buttercup BR330 and BR340 (10,000 ft) 795 AAC	$526,200
1	Project 14 - Double circuit Buttercup BR210 with Buttercup BR330 (6,300 ft) 795 AAC	$331,500
6	Project 15 - Construct new getaway 1000 AL (1,000 ft) for BL10	$128,800
6	Project 15 - Double circuit Balcones BL10 with Balcones BL330 (5,000 ft) 795 AAC	$263,100
1	Project 16 - Reconductor BL320 (10,600 ft) from 336 AAC to 795 AAC	$373,400
2	Project 21 - Construct new Kent St KS60 (4,300 ft) of 1000 AL to relieve AR240	$553,800

Alternative 1 - New Substation Southwest of Balcones
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost
1	Project 21 - Extend AR240 (2,900 ft) 1000 AL to relieve KS60	$373,500
1	Project 21 - Install open switch on KS60	$15,000
3	Project 23 - Construct new Avery Ranch ARNEW1 (4,400 ft) 1000 AL	$566,700
2	Project 23 - Double circuit and rebuild ARNEW1 with AR30 (4,900 ft) 1000 AL	$851,900
3	Project 23 - Insall open switch on AR250	$15,000
5	Project 24 - Reconductor Avery Ranch AR30 (8,300 ft) from 336 AAC to 795 AAC	$292,400
2	Project 25 - Construct new Avery Ranch ARNEW2 (5,200 ft) of 1000 AL to relieve AR120	$669,700
1	Project 27 - Construct new Seward Junction SJ130 (5,300 ft) of 1000 AL to relieve LA10	$682,600
10	Project 31 - Install open switch on LA230	$15,000
4	Project 32 - Construct new Seward Junction SJ120 (4,500 ft) of 1000 AL	$579,500
4	Project 32 - Construct (8,400 ft) of 1000 AL for SJ120	$1,081,800
4	Project 32 - Construct (900 ft) of 1000 AL for SJ120 to relieve SJ20	$115,900
6	Project 33 - Extend LA250 (17,000 ft) 1000 AL	$2,189,400
2	Project 37 - Reconductor Leander LA10 (4,000 ft) from 336 AAC to 795 AAC	$140,900
2	Project 37 - Reconductor Leander LA10 (1,500 ft) from 336 AAC to 795 AAC	$52,800
1	Project 38 - Reconductor Leander LA10 (1,100 ft) from 336 AAC to 795 AAC	$38,800
1	Project 38 - Reconductor Leander LA10 (250 ft) from 336 AAC to 795 AAC	$8,800
8	Project 39 - Reconductor Leander LA210 (350 ft) from 336 AAC to 795 AAC	$12,300
9	Project 40 - Construct new Leander LANEW1 (1,900 ft) 1000 AL to relieve LA220	$244,700
1	Project 42 - Construct new Blockhouse BHNEW1 (1,350 ft) 1000 AL	$173,900
1	Project 42 - Double circuit Blockhouse BHNEW1 with Blockhouse BH140 (4,400 ft) 1000 AL	$765,000
6	Project 43 - Construct new Blockhouse BHNEW2 (5,800 ft) 1000 AL to relieve BH140	$747,000
6	Project 43 - Install open switch on BH130	$15,000
8	Project 43 - Reconductor Blockhouse BHNEW2 (10,000 ft) from 336 AAC and 1/0 to 795 AAC	$352,300
1	Project 44 - Reconductor Blockhouse BH130 (3,800 ft) from 336 AAC to 795 AAC	$133,900
5	Project 45 - Reconductor Blockhouse BH40 (800 ft) from 336 AAC to 795 AAC	$28,200
5	Project 46 - Reconductor Whitehouse WS60 (2,300 ft) from 336 AAC to 795 AAC	$81,000
1	Project 47 - Reconductor Buttercup BR210 (5,400 ft) from 1/0 to 795 AAC	$190,200
5	Project 48 - Reconductor Leander LA250 (5,000 ft) from 1/0 to 336 AAC	$109,900
9	Project 49 - Reconductor Seward Junction SJ120 (2,700 ft) from 1/0 to 336 AAC	$59,400
8	Project 50 - Reconductor Leander LA210 (4,000 ft) from 336 AAC to 795 AAC	$140,900
5	Project 51 - Install Voltage Regulator (LA250 - 400 Amps)	$60,000
5	Project 53 - Install Voltage Regulator (NL120 - 250 Amps)	$60,000
5	Project 52 - Install Voltage Regulator (LA230 - 400 Amps)	$60,000
7	Project 55 - Reconductor Whitestone WS20 (1,800 ft) from 336 AAC to 795 AAC	$63,400
1	Project 56 - Install open switch on MC50	$15,000
3	Project 56 - Reconductor Manchaca MC50 (5,300 ft) from 336 AAC to 795 AAC	$186,700
1	Project 57 - Install open switch on BD10	$15,000
1	Project 57 - Extend LH20 (200 ft) 795 AAC	$7,800
2	Project 60 - Install open switch on BD130	$15,000
2	Project 60 - Install open switch on TV110	$15,000
2	Project 60 - Extend Turnersville TV90 (1,350 ft) 795 AAC to relieve BD130	$52,600
6	Project 61 - Reconductor Buda BD120 (2,200 ft) from 336 AAC to 795 AAC	$77,500
1	Project 62 - Construct Lehigh LHNEW1 (600 ft) 1000 AL	$77,300
1	Project 62 - Construct (10,200 ft) 795 AAC on LHNEW1 to relieve LH40	$397,500
1	Project 62 - Install open switch on TV50	$15,000
1	Project 62 - Reconductor Lehigh LHNEW1 (8,000 ft) from 1/0 to 795 AAC	$281,800
3	Project 62 - Reconductor Lehigh LHNEW1 (800 ft) from 1/0 to 795 AAC	$28,200
6	Project 63 - Reconductor Turnersville TV50 (8,000 ft) from 336 AAC to 795 AAC	$281,800
2	Project 64 - Reconductor Turnersville TV50 (2,200 ft) from 1/0 to 795 AAC	$77,500
3	Project 67 - Extend Lehigh LH30 (5,300 ft) 795 AAC	$206,600
3	Project 67 - Install open switch on GF120	$15,000
1	Project 68 - Install open switch on GF110	$15,000
1	Project 69 - Install open switch on KY50	$15,000
1	Project 69 - Construct new Canyon CN50 (250 ft) 795 AAC	$9,700
1	Project 69 - Intall open switch on KY30	$15,000
3	Project 67 - Install open switch on KY20	$15,000
7	Project 70 - Construct new Lehigh LH10 (125 ft) 1000 AL	$16,100
7	Project 70 - Construct (12,300 ft) 795 AAC on LH10	$479,400
6	Project 71 - Construct new Goforth GF30 (300 ft) 1000 AL	$38,600
6	Project 71 - Construct (6,400 ft) 795 AAC on GF30	$249,400
7	Project 72 - Install Voltage Regulator (LH30 - 52 Amps)	$60,000

Alternative 1 - New Substation Southwest of Balcones
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost
7	Project 73 - Install Voltage Regulator (TV130 - 53 Amps)	$60,000
1	Project 74 - Install Voltage Regulator (TV130 - 110 Amps)	$60,000
1	Alternative Project 1 - Construct (100 ft) 795 AAC on ALT1NEW1	$3,900
1	Alternative Project 1 - Install open switch on BL330	$15,000
7	Alternative Project 2 - Reconductor ALT1NEW1 (7,000 ft) from 1/0 to 336 AAC	$153,900
1	Alternative Project 3 - Construct (100 ft) 795 AAC on ALT1NEW2	$3,900
6	Alternative Project 4 - Construct (100 ft) 795 AAC on ALT1NEW3	$3,900
6	Alternative Project 4 - Install open switch on BL220	$15,000
1	Project 18 - Install open switch on BL30	$15,000
	SUBTOTAL DISTRIBUTION	**$23,881,200**
TOTAL CAPITAL COST		**$116,981,200**

Losses Summary		
0	Calculated Distribution Losses (kW)	6,317
10	Calculated Distribution Losses (kW)	8,328

Present Worth Cost		
20	20-Year Cumulative Present Worth Cost	**$148,605,500**

Exhibit 6
ALTERNATIVE 2

Alternative 2 - New Substatino North of Avery Ranch
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost 2011 $
Substation Improvements		
3	Project 1 - Install new Kent St 46.7 MVA transformer (T2)	$3,080,000
1	Project 2 - Upgrade Kent St T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 4 - Upgrade Whitestone T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 5 - Upgrade Whitestone T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 3 - Upgrade Nameless T1 22.4 MVA transformer with a 37.3 MVA transformer	$2,400,000
3	Project 3 - Upgrade Nameless T2 22.4 MVA transformer with a 37.3 MVA transformer	$2,400,000
1	Porject 7 - Upgrade Balcones T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 7 - Upgrade Balcones T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 8 - Upgrade Buttercup T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
4	Project 11 - Upgrade Buttercup T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
8	Project 12 - Upgrade Buttercup T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 17 - Upgrade Balcones T4 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
4	Project 28 - Upgrade Seward Junction T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
2	Project 29 - Upgrade Leander T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 29 - Upgrade Leander T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
4	Project 29 - Upgrade Leander T4 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
6	Project 30 - Install new Leander 46.7 MVA transformer (T5)	$3,080,000
1	Project 41 - Upgrade Blockhouse T1 22.4 MVA transformer 46.7 MVA transformer	$2,480,000
3	Project 41 - Install new Blockhouse 46.7 MVA transformer (T3)	$3,080,000
1	Project 56 - Upgrade Manchaca T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 56 - Upgrade Manchaca T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
7	Project 58 - Upgrade Lehigh T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 57 - Install new Lehigh 46.7 MVA transformer (T2)	$3,080,000
1	Project 59 - Upgrade Buda T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 59 - Upgrade Buda T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 65 - Upgrade Turnersville T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 68 - Upgrade Goforth T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 68 - Upgrade Goforth T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 69 - Install new Canyon 37.3 MVA transformer (T1)	$3,000,000
3	Project 67 - Install new Lehigh 46.7 MVA transformer (T3)	$3,080,000
3	Alternative Project 1 - Install new Alternative 46.7 MVA transformer (T1)	$2,150,000
2	Alternative Project 1 - Land for new substation	$120,000
3	Alternative Project 1 - Install new Alternative 46.7 MVA transformer (T2)	$2,150,000
5	Alternative Project 1 - Install new Alternative 46.7 MVA transformer (T3)	$2,150,000
7	Alternative Project 1 - Install new Alternative 46.7 MVA transformer (T4)	$2,150,000
	SUBTOTAL SUBSTATION	**$86,480,000**
Distribution Improvements		
3	Project 1 - Construct new getaway 1000 AL (200 ft) for Kent St KS40	$25,800
2	Project 1 - Double circuit Kent St KS40 with Kent St KS30 1000 AL (10,300 ft)	$1,790,800
3	Project 1 - Install open switch on WS10	$15,000
1	Project 2 - Construct new getaway 1000 AL (200 ft) for Kent St KS50	$25,800
1	Project 2 - Construct (8,700 ft) of 1000 AL to relieve AR40	$1,120,500
4	Project 2 - Reconductor (4,000 ft) from 336 AAC to 795 AAC	$140,900
1	Project 3 - Construct (11,500 ft) of 1000 AL to relieve NL10	$1,481,100
1	Project 3 - Install open switch on WS30	$15,000
2	Project 6 - Double circuit with Whitestone WS60 1000 AL (4,000 ft)	$695,500
2	Project 9 - Install open switch on BR220	$15,000
1	Project 7 - Convert Balcones T1 and T2 to 24.9-kV (525,794 ft)	$1,792,500
1	Project 10 - Construct (500 ft) of 500 Cu to relieve BR20	$37,900
1	Project 10 - Double circuit Buttercup BR340 with Buttercup BR20 1000 AL (2,700 ft)	$469,400
1	Project 10 - Construct (1,100 ft) of 500 Cu to relieve BR20	$83,300
2	Project 13 - Double circuit Buttercup BR20 with Buttercup BR330 and BR340 (10,000 ft) 795 AAC	$526,200
1	Project 14 - Double circuit Buttercup BR210 with Buttercup BR330 (6,300 ft) 795 AAC	$331,500
6	Project 15 - Construct new getaway 1000 AL (1,000 ft) for BL10	$128,800
6	Project 15 - Double circuit Balcones BL10 with Balcones BL330 (5,000 ft) 795 AAC	$263,100
6	Project 15 - Construct (150 ft) of 1000 AL for BL10	$19,300
6	Project 15 - Double circuit and rebuild Balcones BL10 with Balcones BL330 (2,100 ft) 1000 AL	$365,100
1	Project 16 - Reconductor BL320 (10,600 ft) from 336 AAC to 795 AAC	$373,400

Alternative 2 - New Substatino North of Avery Ranch
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost
1	Project 27 - Construct new Seward Junction SJ130 (5,300 ft) of 1000 AL to relieve LA10	$682,600
2	Project 37 - Reconductor Leander LA10 (4,000 ft) from 336 AAC to 795 AAC	$140,900
2	Project 37 - Reconductor Leander LA10 (1,500 ft) from 336 AAC to 795 AAC	$52,800
1	Project 38 - Reconductor Leander LA10 (1,100 ft) from 336 AAC to 795 AAC	$38,800
1	Project 38 - Reconductor Leander LA10 (250 ft) from 336 AAC to 795 AAC	$8,800
8	Project 39 - Reconductor Leander LA210 (350 ft) from 336 AAC to 795 AAC	$12,300
9	Project 40 - Construct new Leander LANEW1 (1,900 ft) 1000 AL to relieve LA220	$244,700
1	Project 42 - Construct new Blockhouse BHNEW1 (1,350 ft) 1000 AL	$173,900
1	Project 42 - Double circuit Blockhouse BHNEW1 with Blockhouse BH140 (4,400 ft) 1000 AL	$765,000
6	Project 43 - Construct new Blockhouse BHNEW2 (5,800 ft) 1000 AL to relieve BH140	$747,000
6	Project 43 - Install open switch on BH130	$15,000
8	Project 43 - Reconductor Blockhouse BHNEW2 (10,000 ft) from 336 AAC and 1/0 to 795 AAC	$352,300
1	Project 44 - Reconductor Blockhouse BH130 (3,800 ft) from 336 AAC to 795 AAC	$133,900
5	Project 45 - Reconductor Blockhouse BH40 (800 ft) from 336 AAC to 795 AAC	$28,200
5	Project 46 - Reconductor Whitehouse WS60 (2,300 ft) from 336 AAC to 795 AAC	$81,000
1	Project 47 - Reconductor Buttercup BR210 (5,400 ft) from 1/0 to 795 AAC	$190,200
5	Project 48 - Reconductor Leander LA250 (5,000 ft) from 1/0 to 336 AAC	$109,900
9	Project 49 - Reconductor Seward Junction SJ120 (2,700 ft) from 1/0 to 336 AAC	$59,400
8	Project 50 - Reconductor Leander LA210 (4,000 ft) from 336 AAC to 795 AAC	$140,900
5	Project 51 - Install Voltage Regulator (LA250 - 400 Amps)	$60,000
5	Project 53 - Install Voltage Regulator (NL120 - 250 Amps)	$60,000
6	Project 54 - Reconductor Balcones BL220 (250 ft) from 336 AAC to 795 AAC	$8,800
7	Project 55 - Reconductor Whitestone WS20 (1,800 ft) from 336 AAC to 795 AAC	$63,400
1	Project 56 - Install open switch on MC50	$15,000
3	Project 56 - Reconductor Manchaca MC50 (5,300 ft) from 336 AAC to 795 AAC	$186,700
1	Project 57 - Install open switch on BD10	$15,000
1	Project 57 - Extend LH20 (200 ft) 795 AAC	$7,800
2	Project 60 - Install open switch on BD130	$15,000
2	Project 60 - Install open switch on TV110	$15,000
2	Project 60 - Extend Turnersville TV90 (1,350 ft) 795 AAC to relieve BD130	$52,600
6	Project 61 - Reconductor Buda BD120 (2,200 ft) from 336 AAC to 795 AAC	$77,500
1	Project 62 - Construct Lehigh LHNEW1 (600 ft) 1000 AL	$77,300
1	Project 62 - Construct (10,200 ft) 795 AAC on LHNEW1 to relieve LH40	$397,500
1	Project 62 - Install open switch on TV50	$15,000
1	Project 62 - Reconductor Lehigh LHNEW1 (8,000 ft) from 1/0 to 795 AAC	$281,800
3	Project 62 - Reconductor Lehigh LHNEW1 (800 ft) from 1/0 to 795 AAC	$28,200
6	Project 63 - Reconductor Turnersville TV50 (8,000 ft) from 336 AAC to 795 AAC	$281,800
2	Project 64 - Reconductor Turnersville TV50 (2,200 ft) from 1/0 to 795 AAC	$77,500
3	Project 67 - Extend Lehigh LH30 (5,300 ft) 795 AAC	$206,600
3	Project 67 - Install open switch on GF120	$15,000
1	Project 68 - Install open switch on GF110	$15,000
1	Project 69 - Install open switch on KY50	$15,000
1	Project 69 - Construct new Canyon CN50 (250 ft) 795 AAC	$9,700
1	Project 69 - Intall open switch on KY30	$15,000
3	Project 67 - Install open switch on KY20	$15,000
7	Project 70 - Construct new Lehigh LH10 (125 ft) 1000 AL	$16,100
7	Project 70 - Construct (12,300 ft) 795 AAC on LH10	$479,400
6	Project 71 - Construct new Goforth GF30 (300 ft) 1000 AL	$38,600
6	Project 71 - Construct (6,400 ft) 795 AAC on GF30	$249,400
7	Project 72 - Install Voltage Regulator (LH30 - 52 Amps)	$60,000
7	Project 73 - Install Voltage Regulator (TV130 - 53 Amps)	$60,000
1	Project 74 - Install Voltage Regulator (TV130 - 110 Amps)	$60,000
3	Alternative Project 1 - Construct (150 ft) of 795 AAC for AltNEW1	$5,800
10	Alternative Project 2 - Construct (150 ft) of 795 AAC for AltNEW2	$5,800
10	Alternative Project 2 - Install open switch on LA230	$15,000
10	Alternative Project 2 - Reconductor ALT2NEW2 (450 ft) from 1/0 to 795 AAC	$15,900
10	Alternative Project 2 - Install open switch on LA230	$15,000
3	Alternative Project 3 - Construct (150 ft) of 795 AAC for AltNEW3	$5,800
3	Alternative Project 3 - Install open switch on AR240	$15,000
3	Alternative Project 3 - Install open switch on AR240	$15,000
5	Alternative Project 4 - Construct (150 ft) of 795 AAC for AltNEW4	$5,800
5	Alternative Project 4 - Construct (1,900 ft) 795 AAC on AltNEW4	$74,100

Alternative 2 - New Substatino North of Avery Ranch
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost
5	Alternative Project 4 - Construct (200 ft) 795 AAC on AltNEW4	$7,800
5	Alternative Project 4 - Install open switch on LA250	$15,000
3	Alternative Project 5 - Construct (150 ft) of 795 AAC for AltNEW5	$5,800
3	Alternative Project 5 - Double Circuit and construct (1,500 ft) 795 AAC on AltNEW5	$78,900
3	Alternative Project 6 - Construct (150 ft) of 795 AAC for AltNEW6	$5,800
3	Alternative Project 6 - Construct (7,800 ft) 795 AAC on AltNEW6	$304,000
3	Alternative Project 6 - Install open switch on AR30	$15,000
7	Alternative Project 7 - Construct (150 ft) of 795 AAC for AltNEW7	$5,800
7	Alternative Project 7 - Construct (6,600 ft) 795 AAC on AltNEW7	$257,200
5	Alternative Project 8 - Construct (3,250 ft) of 795 AAC for AltNEW8	$126,700
5	Alternative Project 8 - Double Circuit and construct (3,200 ft) 795 AAC on AltNEW8	$168,400
2	Project 18 - Install open switch on BL30	$15,000
	SUBTOTAL DISTRIBUTION	**$17,862,800**

TOTAL CAPITAL COST	**$104,342,800**

Losses Summary

0	Calculated Distribution Losses (kW)	6,317
10	Calculated Distribution Losses (kW)	7,576

Present Worth Cost

20	20-Year Cumulative Present Worth Cost	**$133,472,800**

Exhibit 7
ALTERNATIVE 3

Alternative 3 - New Substation Southeast of Leander
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost 2011 $
Substation Improvements		
3	Project 1 - Install new Kent St 46.7 MVA transformer (T2)	$3,080,000
1	Project 2 - Upgrade Kent St T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 4 - Upgrade Whitestone T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 5 - Upgrade Whitestone T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 3 - Upgrade Nameless T1 22.4 MVA transformer with a 37.3 MVA transformer	$2,400,000
3	Project 3 - Upgrade Nameless T2 22.4 MVA transformer with a 37.3 MVA transformer	$2,400,000
1	Porject 7 - Upgrade Balcones T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 7 - Upgrade Balcones T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 8 - Upgrade Buttercup T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
4	Project 11 - Upgrade Buttercup T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
8	Project 12 - Upgrade Buttercup T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 17 - Upgrade Balcones T4 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
6	Project 19 - Upgrade Avery Ranch T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
9	Project 19 - Upgrade Avery Ranch T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 22 - Install new Avery Ranch 46.7 MVA transformer (T4)	$3,080,000
1	Project 20 - Install new Kent St 46.7 MVA transformer (T3)	$3,080,000
1	Project 41 - Upgrade Blockhouse T1 22.4 MVA transformer 46.7 MVA transformer	$2,480,000
3	Project 41 - Install new Blockhouse 46.7 MVA transformer (T3)	$3,080,000
1	Project 56 - Upgrade Manchaca T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 56 - Upgrade Manchaca T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
7	Project 58 - Upgrade Lehigh T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 57 - Install new Lehigh 46.7 MVA transformer (T2)	$3,080,000
1	Project 59 - Upgrade Buda T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 59 - Upgrade Buda T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 65 - Upgrade Turnersville T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 68 - Upgrade Goforth T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 68 - Upgrade Goforth T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 69 - Install new Canyon 37.3 MVA transformer (T1)	$3,000,000
3	Project 67 - Install new Lehigh 46.7 MVA transformer (T3)	$3,080,000
4	Alternative Project 1 - Install new Alternative 46.7 MVA transformer (T1)	$2,366,700
3	Alternative Project 1 - Land for new substation	$120,000
5	Alternative Project 1 - Install new Alternative 46.7 MVA transformer (T2)	$2,366,700
5	Alternative Project 1 - Install new Alternative 46.7 MVA transformer (T3)	$2,366,700
	SUBTOTAL SUBSTATION	**$83,100,100**
Distribution Improvements		
3	Project 1 - Construct new getaway 1000 AL (200 ft) for Kent St KS40	$25,800
2	Project 1 - Double circuit Kent St KS40 with Kent St KS30 1000 AL (10,300 ft)	$1,790,800
3	Project 1 - Install open switch on WS10	$15,000
1	Project 2 - Construct new getaway 1000 AL (200 ft) for Kent St KS50	$25,800
1	Project 2 - Construct (8,700 ft) of 1000 AL to relieve AR40	$1,120,500
4	Project 2 - Reconductor (4,000 ft) from 336 AAC to 795 AAC	$140,900
1	Project 3 - Construct (11,500 ft) of 1000 AL to relieve NL10	$1,481,100
1	Project 3 - Install open switch on WS30	$15,000
2	Project 6 - Double circuit with Whitestone WS60 1000 AL (4,000 ft)	$695,500
2	Project 9 - Install open switch on BR220	$15,000
1	Project 7 - Convert Balcones T1 and T2 to 24.9-kV (525,794 ft)	$1,792,500
1	Project 10 - Construct (500 ft) of 500 Cu to relieve BR20	$37,900
1	Project 10 - Double circuit Buttercup BR340 with Buttercup BR20 1000 AL (2,700 ft)	$469,400
1	Project 10 - Construct (1,100 ft) of 500 Cu to relieve BR20	$83,300
2	Project 13 - Double circuit Buttercup BR20 with Buttercup BR330 and BR340 (10,000 ft) 795 AAC	$526,200
1	Project 14 - Double circuit Buttercup BR210 with Buttercup BR330 (6,300 ft) 795 AAC	$331,500
6	Project 15 - Construct new getaway 1000 AL (1,000 ft) for BL10	$128,800
6	Project 15 - Double circuit Balcones BL10 with Balcones BL330 (5,000 ft) 795 AAC	$263,100
6	Project 15 - Construct (150 ft) of 1000 AL for BL10	$19,300
6	Project 15 - Double circuit and rebuild Balcones BL10 with Balcones BL330 (2,100 ft) 1000 AL	$365,100
1	Project 16 - Reconductor BL320 (10,600 ft) from 336 AAC to 795 AAC	$373,400
2	Project 21 - Construct new Kent St KS60 (4,300 ft) of 1000 AL to relieve AR240	$553,800
1	Project 21 - Extend AR240 (2,900 ft) 1000 AL to relieve KS60	$373,500

Alternative 3 - New Substation Southeast of Leander
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost
1	Project 21 - Install open switch on KS60	$15,000
3	Project 23 - Construct new Avery Ranch ARNEW1 (4,400 ft) 1000 AL	$566,700
2	Project 23 - Double circuit and rebuild ARNEW1 with AR30 (4,900 ft) 1000 AL	$851,900
3	Project 23 - Insall open switch on AR250	$15,000
5	Project 24 - Reconductor Avery Ranch AR30 (8,300 ft) from 336 AAC to 795 AAC	$292,400
2	Project 25 - Construct new Avery Ranch ARNEW2 (5,200 ft) of 1000 AL to relieve AR120	$669,700
1	Project 27 - Construct new Seward Junction SJ130 (5,300 ft) of 1000 AL to relieve LA10	$682,600
2	Project 37 - Reconductor Leander LA10 (1,500 ft) from 336 AAC to 795 AAC	$52,800
1	Project 42 - Construct new Blockhouse BHNEW1 (1,350 ft) 1000 AL	$173,900
1	Project 42 - Double circuit Blockhouse BHNEW1 with Blockhouse BH140 (4,400 ft) 1000 AL	$765,000
6	Project 43 - Construct new Blockhouse BHNEW2 (5,800 ft) 1000 AL to relieve BH140	$747,000
6	Project 43 - Install open switch on BH130	$15,000
8	Project 43 - Reconductor Blockhouse BHNEW2 (10,000 ft) from 336 AAC and 1/0 to 795 AAC	$352,300
1	Project 44 - Reconductor Blockhouse BH130 (3,800 ft) from 336 AAC to 795 AAC	$133,900
5	Project 45 - Reconductor Blockhouse BH40 (800 ft) from 336 AAC to 795 AAC	$28,200
5	Project 46 - Reconductor Whitehouse WS60 (2,300 ft) from 336 AAC to 795 AAC	$81,000
1	Project 47 - Reconductor Buttercup BR210 (5,400 ft) from 1/0 to 795 AAC	$190,200
5	Project 48 - Reconductor Leander LA250 (5,000 ft) from 1/0 to 336 AAC	$109,900
9	Project 49 - Reconductor Seward Junction SJ120 (2,700 ft) from 1/0 to 336 AAC	$59,400
5	Project 53 - Install Voltage Regulator (NL120 - 250 Amps)	$60,000
6	Project 54 - Reconductor Balcones BL220 (250 ft) from 336 AAC to 795 AAC	$8,800
7	Project 55 - Reconductor Whitestone WS20 (1,800 ft) from 336 AAC to 795 AAC	$63,400
1	Project 56 - Install open switch on MC50	$15,000
3	Project 56 - Reconductor Manchaca MC50 (5,300 ft) from 336 AAC to 795 AAC	$186,700
1	Project 57 - Install open switch on BD10	$15,000
1	Project 57 - Extend LH20 (200 ft) 795 AAC	$7,800
2	Project 60 - Install open switch on BD130	$15,000
2	Project 60 - Install open switch on TV110	$15,000
2	Project 60 - Extend Turnersville TV90 (1,350 ft) 795 AAC to relieve BD130	$52,600
6	Project 61 - Reconductor Buda BD120 (2,200 ft) from 336 AAC to 795 AAC	$77,500
1	Project 62 - Construct Lehigh LHNEW1 (600 ft) 1000 AL	$77,300
1	Project 62 - Construct (10,200 ft) 795 AAC on LHNEW1 to relieve LH40	$397,500
1	Project 62 - Install open switch on TV50	$15,000
1	Project 62 - Reconductor Lehigh LHNEW1 (8,000 ft) from 1/0 to 795 AAC	$281,800
3	Project 62 - Reconductor Lehigh LHNEW1 (800 ft) from 1/0 to 795 AAC	$28,200
6	Project 63 - Reconductor Turnersville TV50 (8,000 ft) from 336 AAC to 795 AAC	$281,800
2	Project 64 - Reconductor Turnersville TV50 (2,200 ft) from 1/0 to 795 AAC	$77,500
3	Project 67 - Extend Lehigh LH30 (5,300 ft) 795 AAC	$206,600
3	Project 67 - Install open switch on GF120	$15,000
1	Project 68 - Install open switch on GF110	$15,000
1	Project 69 - Install open switch on KY50	$15,000
1	Project 69 - Construct new Canyon CN50 (250 ft) 795 AAC	$9,700
1	Project 69 - Intall open switch on KY30	$15,000
3	Project 67 - Install open switch on KY20	$15,000
7	Project 70 - Construct new Lehigh LH10 (125 ft) 1000 AL	$16,100
7	Project 70 - Construct (12,300 ft) 795 AAC on LH10	$479,400
6	Project 71 - Construct new Goforth GF30 (300 ft) 1000 AL	$38,600
6	Project 71 - Construct (6,400 ft) 795 AAC on GF30	$249,400
7	Project 72 - Install Voltage Regulator (LH30 - 52 Amps)	$60,000
7	Project 73 - Install Voltage Regulator (TV130 - 53 Amps)	$60,000
1	Project 74 - Install Voltage Regulator (TV130 - 110 Amps)	$60,000
4	Alternative Project 2 - Construct (400 ft) of 795 AAC for AltNEW1	$15,600
4	Alternative Project 2 - Install open switch on LA230	$15,000
4	Alternative Project 2 - Double Circuit and construct (14,000 ft) 795 AAC on AltNEW1	$736,700
5	Alternative Project 3 - Construct (400 ft) of 795 AAC for AltNEW2	$15,600
8	Alternative Project 4 - Construct (400 ft) of 795 AAC for AltNEW3	$15,600
8	Alternative Project 4 - Construct (300 ft) 795 AAC on AltNEW4	$11,700
4	Alternative Project 6 - Install open switch on LA130	$15,000
4	Alternative Project 6 - Install open switch on LA10	$15,000
4	Alternative Project 5 - Construct (900 ft) of 795 AAC for AltNEW4	$35,100
4	Alternative Project 5 - Double Circuit and construct (9,400 ft) 795 AAC on AltNEW4	$494,600
4	Alternative Project 5 - Install open switch on LA110	$15,000

Alternative 3 - New Substation Southeast of Leander
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost
4	Alternative Project 7 - Construct (400 ft) of 795 AAC for AltNEW5	$15,600
4	Alternative Project 7 - Install open switch on LA250	$15,000
4	Alternative Project 7 - Install open switch on SJ20	$15,000
4	Alternative Project 7 - Construct (1000 ft) of 795 AAC for AltNEW6	$39,000
2	Project 18 - Install open switch on BL30	$15,000
	SUBTOTAL DISTRIBUTION	**$20,860,300**
TOTAL CAPITAL COST		**$103,960,400**
Losses Summary		
0	Calculated Distribution Losses (kW)	6,317
10	Calculated Distribution Losses (kW)	7,882
Present Worth Cost		
20	20-Year Cumulative Present Worth Cost	**$133,412,000**

Exhibit 8
ALTERNATIVE 4

Alternative 4 - New Substation West of Whitestone
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost 2011 $
Substation Improvements		
1	Project 2 - Upgrade Kent St T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 4 - Upgrade Whitestone T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 5 - Upgrade Whitestone T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Porject 7 - Upgrade Balcones T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 7 - Upgrade Balcones T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 8 - Upgrade Buttercup T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 17 - Upgrade Balcones T4 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
6	Project 19 - Upgrade Avery Ranch T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
9	Project 19 - Upgrade Avery Ranch T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 22 - Install new Avery Ranch 46.7 MVA transformer (T4)	$3,080,000
1	Project 20 - Install new Kent St 46.7 MVA transformer (T3)	$3,080,000
4	Project 28 - Upgrade Seward Junction T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
2	Project 29 - Upgrade Leander T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 29 - Upgrade Leander T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
4	Project 29 - Upgrade Leander T4 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
6	Project 30 - Install new Leander 46.7 MVA transformer (T5)	$3,080,000
2	Project 32 - Upgrade Seward Junction T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 41 - Upgrade Blockhouse T1 22.4 MVA transformer 46.7 MVA transformer	$2,480,000
3	Project 41 - Install new Blockhouse 46.7 MVA transformer (T3)	$3,080,000
1	Project 56 - Upgrade Manchaca T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 56 - Upgrade Manchaca T2 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
7	Project 58 - Upgrade Lehigh T1 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 57 - Install new Lehigh 46.7 MVA transformer (T2)	$3,080,000
1	Project 59 - Upgrade Buda T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 59 - Upgrade Buda T3 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
3	Project 65 - Upgrade Turnersville T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 68 - Upgrade Goforth T1 22.4 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 68 - Upgrade Goforth T2 37.3 MVA transformer with a 46.7 MVA transformer	$2,480,000
1	Project 69 - Install new Canyon 37.3 MVA transformer (T1)	$3,000,000
3	Project 67 - Install new Lehigh 46.7 MVA transformer (T3)	$3,080,000
3	Alternative Project 1 - Install new Alternative 46.7 MVA transformer (T1)	$2,366,700
3	Alternative Project 1 - Install new Alternative 46.7 MVA transformer (T2)	$2,366,700
2	Alternative Project 1 - Land for new substation	$120,000
7	Alternative Project 1 - Install new Alternative 46.7 MVA transformer (T3)	$2,366,700
	SUBTOTAL SUBSTATION	**$85,740,100**
Distribution Improvements		
1	Project 2 - Construct new getaway 1000 AL (200 ft) for Kent St KS50	$25,800
1	Project 2 - Construct (8,700 ft) of 1000 AL to relieve AR40	$1,120,500
4	Project 2 - Reconductor (4,000 ft) from 336 AAC to 795 AAC	$140,900
2	Project 9 - Install open switch on BR220	$15,000
1	Project 7 - Convert Balcones T1 and T2 to 24.9-kV (525,794 ft)	$1,792,500
1	Project 10 - Construct (500 ft) of 500 Cu to relieve BR20	$37,900
1	Project 10 - Double circuit Buttercup BR340 with Buttercup BR20 1000 AL (2,700 ft)	$469,400
1	Project 10 - Construct (1,100 ft) of 500 Cu to relieve BR20	$83,300
2	Project 13 - Double circuit Buttercup BR20 with Buttercup BR330 and BR340 (10,000 ft) 795 AAC	$526,200
1	Project 14 - Double circuit Buttercup BR210 with Buttercup BR330 (6,300 ft) 795 AAC	$331,500
6	Project 15 - Construct new getaway 1000 AL (1,000 ft) for BL10	$128,800
6	Project 15 - Double circuit Balcones BL10 with Balcones BL330 (5,000 ft) 795 AAC	$263,100
6	Project 15 - Construct (150 ft) of 1000 AL for BL10	$19,300
6	Project 15 - Double circuit and rebuild Balcones BL10 with Balcones BL330 (2,100 ft) 1000 AL	$365,100
1	Project 16 - Reconductor BL320 (10,600 ft) from 336 AAC to 795 AAC	$373,400
2	Project 21 - Construct new Kent St KS60 (4,300 ft) of 1000 AL to relieve AR240	$553,800
1	Project 21 - Extend AR240 (2,900 ft) 1000 AL to relieve KS60	$373,500
1	Project 21 - Install open switch on KS60	$15,000
3	Project 23 - Construct new Avery Ranch ARNEW1 (4,400 ft) 1000 AL	$566,700
2	Project 23 - Double circuit and rebuild ARNEW1 with AR30 (4,900 ft) 1000 AL	$851,900
3	Project 23 - Insall open switch on AR250	$15,000
5	Project 24 - Reconductor Avery Ranch AR30 (8,300 ft) from 336 AAC to 795 AAC	$292,400

Alternative 4 - New Substation West of Whitestone
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost
2	Project 25 - Construct new Avery Ranch ARNEW2 (5,200 ft) of 1000 AL to relieve AR120	$669,700
1	Project 27 - Construct new Seward Junction SJ130 (5,300 ft) of 1000 AL to relieve LA10	$682,600
10	Project 31 - Install open switch on LA230	$15,000
4	Project 32 - Construct new Seward Junction SJ120 (4,500 ft) of 1000 AL	$579,500
4	Project 32 - Construct (8,400 ft) of 1000 AL for SJ120	$1,081,800
4	Project 32 - Construct (900 ft) of 1000 AL for SJ120 to relieve SJ20	$115,900
6	Project 33 - Extend LA250 (17,000 ft) 1000 AL	$2,189,400
2	Project 37 - Reconductor Leander LA10 (4,000 ft) from 336 AAC to 795 AAC	$140,900
2	Project 37 - Reconductor Leander LA10 (1,500 ft) from 336 AAC to 795 AAC	$52,800
1	Project 38 - Reconductor Leander LA10 (1,100 ft) from 336 AAC to 795 AAC	$38,800
1	Project 38 - Reconductor Leander LA10 (250 ft) from 336 AAC to 795 AAC	$8,800
8	Project 39 - Reconductor Leander LA210 (350 ft) from 336 AAC to 795 AAC	$12,300
9	Project 40 - Construct new Leander LANEW1 (1,900 ft) 1000 AL to relieve LA220	$244,700
1	Project 42 - Construct new Blockhouse BHNEW1 (1,350 ft) 1000 AL	$173,900
1	Project 42 - Double circuit Blockhouse BHNEW1 with Blockhouse BH140 (4,400 ft) 1000 AL	$765,000
6	Project 43 - Construct new Blockhouse BHNEW2 (5,800 ft) 1000 AL to relieve BH140	$747,000
6	Project 43 - Install open switch on BH130	$15,000
8	Project 43 - Reconductor Blockhouse BHNEW2 (10,000 ft) from 336 AAC and 1/0 to 795 AAC	$352,300
1	Project 44 - Reconductor Blockhouse BH130 (3,800 ft) from 336 AAC to 795 AAC	$133,900
5	Project 45 - Reconductor Blockhouse BH40 (800 ft) from 336 AAC to 795 AAC	$28,200
5	Project 48 - Reconductor Leander LA250 (5,000 ft) from 1/0 to 336 AAC	$109,900
9	Project 49 - Reconductor Seward Junction SJ120 (2,700 ft) from 1/0 to 336 AAC	$59,400
8	Project 50 - Reconductor Leander LA210 (4,000 ft) from 336 AAC to 795 AAC	$140,900
5	Project 51 - Install Voltage Regulator (LA250 - 400 Amps)	$60,000
5	Project 53 - Install Voltage Regulator (NL120 - 250 Amps)	$60,000
5	Project 52 - Install Voltage Regulator (LA230 - 400 Amps)	$60,000
6	Project 54 - Reconductor Balcones BL220 (250 ft) from 336 AAC to 795 AAC	$8,800
1	Project 56 - Install open switch on MC50	$15,000
3	Project 56 - Reconductor Manchaca MC50 (5,300 ft) from 336 AAC to 795 AAC	$186,700
1	Project 57 - Install open switch on BD10	$15,000
1	Project 57 - Extend LH20 (200 ft) 795 AAC	$7,800
2	Project 60 - Install open switch on BD130	$15,000
2	Project 60 - Install open switch on TV110	$15,000
2	Project 60 - Extend Turnersville TV90 (1,350 ft) 795 AAC to relieve BD130	$52,600
6	Project 61 - Reconductor Buda BD120 (2,200 ft) from 336 AAC to 795 AAC	$77,500
1	Project 62 - Construct Lehigh LHNEW1 (600 ft) 1000 AL	$77,300
1	Project 62 - Construct (10,200 ft) 795 AAC on LHNEW1 to relieve LH40	$397,500
1	Project 62 - Install open switch on TV50	$15,000
1	Project 62 - Reconductor Lehigh LHNEW1 (8,000 ft) from 1/0 to 795 AAC	$281,800
3	Project 62 - Reconductor Lehigh LHNEW1 (800 ft) from 1/0 to 795 AAC	$28,200
6	Project 63 - Reconductor Turnersville TV50 (8,000 ft) from 336 AAC to 795 AAC	$281,800
2	Project 64 - Reconductor Turnersville TV50 (2,200 ft) from 1/0 to 795 AAC	$77,500
3	Project 67 - Extend Lehigh LH30 (5,300 ft) 795 AAC	$206,600
3	Project 67 - Install open switch on GF120	$15,000
1	Project 68 - Install open switch on GF110	$15,000
1	Project 69 - Install open switch on KY50	$15,000
1	Project 69 - Construct new Canyon CN50 (250 ft) 795 AAC	$9,700
1	Project 69 - Intall open switch on KY30	$15,000
3	Project 67 - Install open switch on KY20	$15,000
7	Project 70 - Construct new Lehigh LH10 (125 ft) 1000 AL	$16,100
7	Project 70 - Construct (12,300 ft) 795 AAC on LH10	$479,400
6	Project 71 - Construct new Goforth GF30 (300 ft) 1000 AL	$38,600
6	Project 71 - Construct (6,400 ft) 795 AAC on GF30	$249,400
7	Project 72 - Install Voltage Regulator (LH30 - 52 Amps)	$60,000
7	Project 73 - Install Voltage Regulator (TV130 - 53 Amps)	$60,000
1	Project 74 - Install Voltage Regulator (TV130 - 110 Amps)	$60,000
3	Alternative Project 2 - Construct (100 ft) of 795 AAC for AltNEW1	$3,900
3	Alternative Project 3 - Construct (100 ft) of 795 AAC for AltNEW2	$3,900
3	Alternative Project 3 - Install open switch on NL10	$15,000
3	Alternative Project 4 - Construct (100 ft) of 795 AAC for AltNEW3	$3,900
2	Alternative Project 4 - Double Circuit and construct (6,400 ft) 795 AAC on AltNEW3	$336,800
3	Alternative Project 4 - Install open switch on BR210	$15,000

Alternative 4 - New Substation West of Whitestone
Capital Improvements Summary (2011 $'s)

Load Level	Description	Estimated Cost
2	Alternative Project 4 - Reconductor (1,400 ft) from 4 ACSR to 795 AAC	$49,300
7	Alternative Project 5 - Construct (100 ft) of 795 AAC for AltNEW4	$3,900
7	Alternative Project 5 - Install open switch on WS20	$15,000
7	Alternative Project 5 - Reconductor (2,400 ft) from 336 AAC to 795 AAC	$84,500
6	Alternative Project 6 - Construct (100 ft) of 795 AAC for AltNEW5	$3,900
6	Alternative Project 6 - Double Circuit and construct (10,000 ft) 795 AAC on AltNEW5	$526,200
6	Alternative Project 6 - Reconductor (4,000 ft) from 336 AAC to 795 AAC	$140,900
2	Project 18 - Install open switch on BL30	$15,000
	SUBTOTAL DISTRIBUTION	**$20,923,200**
TOTAL CAPITAL COST		**$106,663,300**

Losses Summary		
0	Calculated Distribution Losses (kW)	6,317
10	Calculated Distribution Losses (kW)	8,379

Present Worth Cost		
20	20-Year Cumulative Present Worth Cost	**$137,080,300**

Exhibit 9
TEN-YEAR ELECTRIC SYSTEM PLAN MAP

Appendix A
2011 LOAD FORECAST

Load Forecast

Pedernales Electric Cooperative

August 2011

R·W·BECK
An SAIC Company

PEDERNALES ELECTRIC COOPERATIVE
2011 LOAD FORECAST

Table of Contents

TABLE OF CONTENTS

List of Tables

List of Figures

EXECUTIVE SUMMARY

R. W. Beck, an SAIC Company (R. W. Beck) was retained by Pedernales Electric Cooperative (PEC) to prepare a forecast of peak load and energy requirements of PEC (2011 Load Forecast). The 2011 Load Forecast was prepared by R. W. Beck to identify future loads upon which an additional distribution system assessment was based. R. W. Beck used an econometric approach to forecast retail electricity sales and overall system net energy for load (NEL) and peak demand for the PEC system. Load data for PEC's largest member, Texas Lehigh Cement Company (Centex), were separately analyzed but were ultimately excluded from the Forecast.

A load forecast is a critical input to many utility processes including, but not limited to, generation resource planning, fuel and purchased power budgeting, transmission planning, financial planning and budgeting, and staffing. A rigorous and detailed process that relies on recognized standards of practice, as well as a thorough review of results by various parties, is essential to PEC operations and long-term planning.

R. W. Beck performed an econometric analysis of PEC's electricity sales by major rate classification, generally over the period 1990-2010 (Study Period), resulting in regression equations that explain electricity sales as a function of various economic and demographic data for the economic area, prices of electricity and natural gas, weather, and other variables. Similar analyses of monthly distribution loss factors (combining both line and transformer losses and billing cycle differentials) and load factors were also performed to establish appropriate forecasting equations for these factors, driven primarily by weather conditions. Independent projections of the explanatory variables, including assumed normal weather conditions, were then combined with the regression equations to generate forecasts of electricity sales, distribution loss factors, and load factors. Forecast of NEL and peak demand were derived from the total sales forecast based on the forecasted distribution loss factors and load factors.

The 2011 Load Forecast results include a Base Case that reflects a mid-range economic scenario utilizing economic projections provided by IHS Global Insight, a widely utilized provider of such projections in the utility industry. The Base Case results reflect projected growth rates for system NEL of approximately 4.3 percent over 2011-2020 and 3.6 percent over 2021-2030. This compares to historical growth over 2001-2010 of approximately 4.8 percent. Similarly, the Base Case results reflect projected growth rates for summer and winter peak demand of approximately 4.2 percent over 2011-2020 and 3.6 percent over 2021-2030. This compares to historical growth over 2001-2010 of approximately 5.3 percent and 4.1 percent for summer and winter peak demand, respectively.

Figures ES-1 and ES-2 below depict the historical and projected system NEL and summer and winter peak demand, excluding Centex.

EXECUTIVE SUMMARY

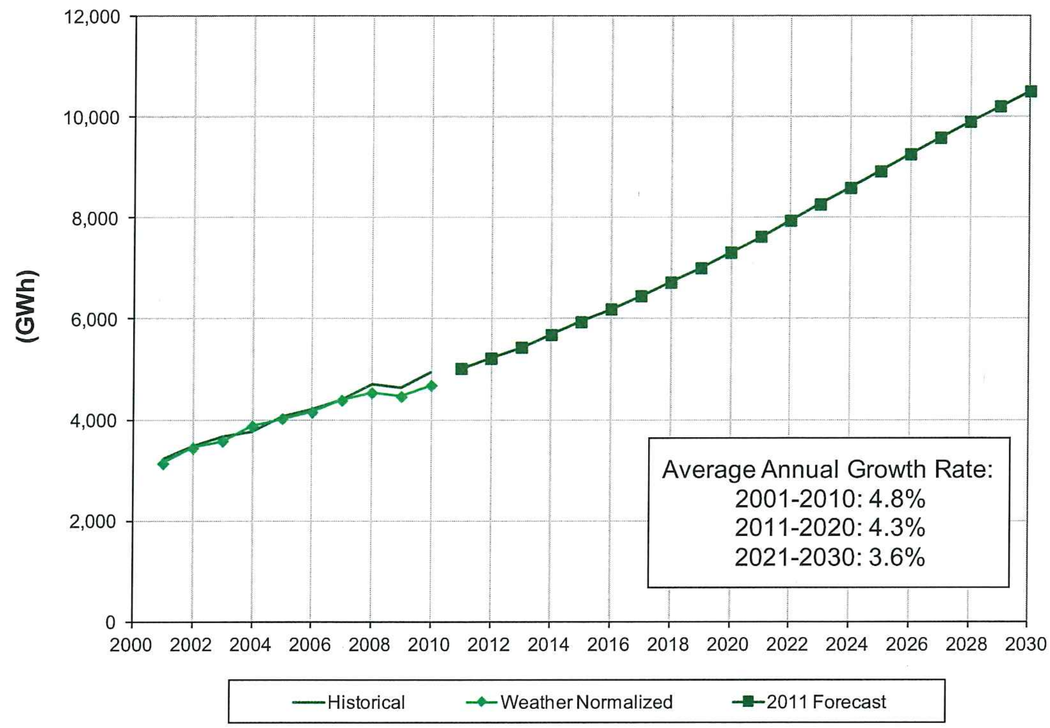

Figure ES-1: Historical and Projected System NEL

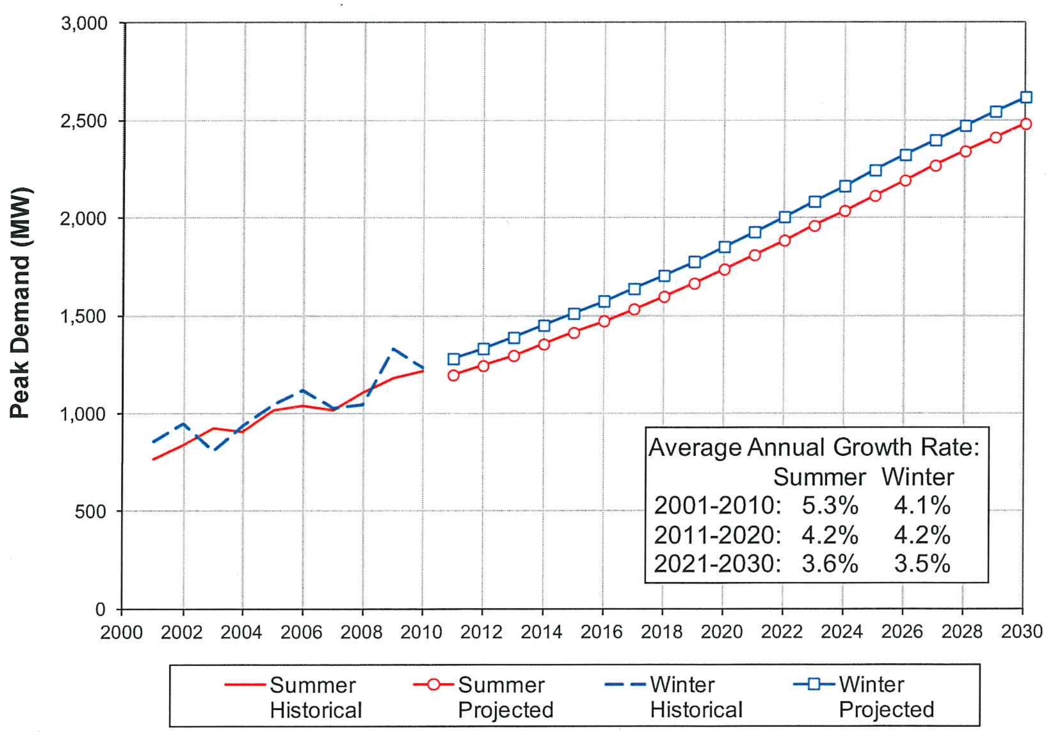

Figure ES-2: Historical and Projected Seasonal Peak Demand

The resulting residential member count and electricity sales forecasts are summarized in Table ES-1. The peak demand forecast was adjusted upward slightly during the distribution system planning effort to include additional load primarily in the Cedar Park area that was deemed to be not implicit in the organic system forecast resulting directly from the forecast equations. In order to capture this adjustment across the range of forecast determinants, an equivalent amount of electricity sales were added in a "Spot Loads" category, as the additional load was not specifically classified. As shown in Table ES-1, this additional load grows from approximately 1 percent of sales in 2015 to approximately 3 percent by 2030.

Table ES-1
Historical and Projected Member and Sales Data

	Residential Members	Retail Electricity Sales (GWh) Residential	Non-Residential	Spot Loads	Total
Historical					
2001	144,730	2,329	821	0	3,151
2004	170,047	2,595	981	0	3,576
2007	195,612	3,047	1,132	0	4,179
2010	211,541	3,455	1,325	0	4,780
Projected					
2011	215,968	3,406	1,360	0	4,765
2012	221,419	3,527	1,438	9	4,975
2013	227,346	3,644	1,520	21	5,185
2014	233,606	3,770	1,612	36	5,419
2015	240,053	3,900	1,708	53	5,660
2020	275,097	4,601	2,224	147	6,972
2025	314,824	5,405	2,837	263	8,505
2030	352,732	6,192	3,485	336	10,013

Table ES-2 below provides historical and projected system load data (NEL and peak demand as measured at PEC's delivery points) for selected years, excluding Centex. As shown below, summer peak demand is expected to grow from approximately 1,196 MW in 2011 to 1,737 MW in 2020, an increase of nearly 550 MW, or approximately 45 percent, over the initial 10-year period of the forecast horizon. Similarly, winter peak demand is expected to grow from approximately 1,280 MW in 2011 to 1,852 MW in 2020, an increase of approximately 570 MW, or 45 percent, over the initial 10-year period of the forecast horizon.

Table ES-2
Historical and Projected System Requirements Data

Year	NEL (GWh)	Peak Demand (MW) Summer	Winter
Historical			
2001	3,236	766.9	858.9
2004	3,767	907.9	935.5
2007	4,398	1,013.0	1,025.0
2010	4,935	1,217.5	1,232.3
Projected			
2011	5,024	1,196.4	1,279.8
2012	5,222	1,243.4	1,331.7
2013	5,443	1,295.6	1,388.2
2014	5,688	1,353.7	1,450.0
2015	5,942	1,412.9	1,511.2
2020	7,319	1,736.7	1,852.0
2025	8,928	2,112.9	2,244.6
2030	10,511	2,481.5	2,617.9

Exhibit A contains detailed tabular results across all forecast determinants.

In addition to the Base Case results discussed above, R. W. Beck also produced results for the following scenarios:

- High Economic Case
- Low Economic Case
- Severe Peak Weather Case

The High and Low Economic Cases correspond to higher and lower projections of population and economic activity growth in PEC's service area over the forecast horizon. For these scenarios, the entire set of forecast equations were simulated with alternative economic projections to result in a complete set of forecast determinants. The Severe Peak Weather Case reflects peak day weather conditions for the summer and winter peak that correspond to the 95th percentile of potential conditions (i.e., mid-point of the top tenth percentile), based on an analysis of historical peak day weather over 1992-2010. For this scenario, only the load factors in the months of January and August (the months determined to most often represent the seasonal peaks) were varied.

Table ES-3 below provides seasonal peak demands for the historical period and projected values over the forecast horizon, including results for the Base Case and the three alternative scenarios discussed above. Exhibit A provides further detailed results across the forecast determinants, although the Severe Weather Case encompasses variations related to annual seasonal peak demand only.

For purposes of the downstream System Planning Study and in consultation with R. W. Beck, PEC decided to utilize the seasonal peak projections reflected in the Severe Weather Case.

Table ES-3
Historical and Projected Peak Demand Data

	Summer Peak Demand				Winter Peak Demand			
Year	Base Case	High Economic Case	Low Economic Case	Severe Weather Case	Base Case	High Economic Case	Low Economic Case	Severe Weather Case
Historical								
2001	766.9				858.9			
2004	907.9				935.5			
2007	1,013.0				1,025.0			
2010	1,217.5				1,232.3			
Projected								
2011	1,196.4	1,225.2	1,167.6	1,258.6	1,279.8	1,326.0	1,233.4	1,438.5
2012	1,243.4	1,290.5	1,196.3	1,308.1	1,331.7	1,390.1	1,273.1	1,496.8
2013	1,295.6	1,354.6	1,236.3	1,362.9	1,388.2	1,459.0	1,317.3	1,560.4
2014	1,353.7	1,425.0	1,282.1	1,424.1	1,450.0	1,533.6	1,366.3	1,629.8
2015	1,412.9	1,496.8	1,328.7	1,486.3	1,511.2	1,607.8	1,414.2	1,698.5
2020	1,736.7	1,887.9	1,584.8	1,827.1	1,852.0	2,019.5	1,683.8	2,081.7
2025	2,112.9	2,344.7	1,879.3	2,222.8	2,244.6	2,497.5	1,989.9	2,522.9
2030	2,481.5	2,807.9	2,151.7	2,610.5	2,617.9	2,968.8	2,263.7	2,942.6

The following report and appendices detail the methodology, process, and results of the 2011 Load Forecast. The first section of the report provides some background on the project and an overview of the PEC system. The second section provides an overview of the underlying methodology, including a description of the econometric models and selected explanatory variables. This is followed by a description of the data sources that have been relied on for the various types of data needed for the Forecast. Next, a list of principal considerations and assumptions, which have been relied upon, are included to provide context for the results. Finally, the Base Case results across all forecast determinants are summarized, and the results of additional scenarios are discussed. Several appendices, containing detailed tabular results, the forecast equations, and economic data, accompany this report.

SECTION 1
BACKGROUND

1.1 Purpose of Report

R. W. Beck, an SAIC Company (R. W. Beck) was retained by Pedernales Electric Cooperative (PEC) to prepare a forecast of peak load and energy requirements of PEC (2011 Load Forecast). The 2011 Load Forecast was prepared by R. W. Beck to identify future loads upon which an additional distribution system assessment, also prepared by R. W. Beck, was based. R. W. Beck performed a similar system study in 2007 for which a similar load forecast was prepared (2007 Load Forecast). This report communicates the methodology, data sources, and resulting projections developed as part of the 2011 Load Forecast.

1.2 Overview of PEC System

PEC is a cooperative electric utility that delivers electricity to more than 237,000 active accounts throughout 8,100 square miles immediately west of Austin, Texas. PEC is the largest retail electric cooperative in the U.S., and is owned by its customer-members and directed by board members elected by its customer-members. PEC's headquarters is in Johnson City.

PEC's service area is organized into eight operating districts and extends into 24 counties in a predominantly rural region commonly referred to as the "Hill Country." PEC's service area has historically been rapidly growing because of its proximity to the Austin and San Antonio metropolitan areas.

PEC obtains wholesale all-requirements electric service from the Lower Colorado River Authority (LCRA) and recently renewed its agreement with LCRA for a period extending to 2041. However, PEC also purchases electricity from AEP Energy Partners (AEPEP) to supply the western portion of PEC's service area that is outside LCRA's territory. In addition, under the agreement with LCRA, PEC is allowed to make certain other purchases and has contracted with AEPEP for approximately 90 MW of renewable electricity from a wind farm operated by AEPEP.

1.3 Regional Economy

The U.S. economy recently experienced its worst recession since the Great Depression, beginning in December 2007 and ending during the third quarter of

SECTION 1

2009[1]. During this period, the U.S. economy suffered five out of six quarters of real gross domestic product (GDP) declines and an unemployment rate that quickly shot up from 5 percent during the latter part of 2007 to nearly 10 percent by the end of 2009 and has stubbornly remained close to that level to date. While as early as last year most economists expected a fairly robust recovery, it appears that some of the early momentum, driven primarily by federal stimulus and inventory restocking, has been lost. Second quarter 2011 GDP growth came in at only 1.3 percent, and revisions to previous quarters show a deeper recession and weaker recovery than previously expected[2]. While real GDP is above where it was before the financial crisis, payroll employment is still far below its previous peak.

Texas joined the country in recession in late 2008, but remained relatively resilient throughout the national downturn and is now well on its way to recovery. Payrolls began to rise in January 2010 and, by the end of the year, were up by 235,000 jobs or 2.3 percent. The expansion has continued in 2011, with payrolls increasing by 3.3 and 2.8 percent quarter-over-quarter (annualized) in the first and second quarters, respectively. Texas lost just over 430,000 jobs during the recession and has now recovered well above half of the jobs lost over the course of the recession. The unemployment rate has remained close to 8.2 percent since the last quarter of 2010.[3]

Austin was not able to avoid the national housing crisis and credit crunch completely, and, although it significantly outperformed the country during the recession, the metro's economy weakened significantly. Payrolls began to decline in the final months of 2008 and continued their descent through much of 2009. From their peak in August 2008 to their trough in September 2009, payrolls in Austin fell 3.3 percent. The Austin housing market also suffered, with home prices and housing starts dropping significantly. The Austin economy began to recover from the recession in the final months of 2009, when payrolls began trending slowly higher. Austin is one of the nation's top five metros, in terms of payroll growth during the last year, and the expansion has continued into 2011. Despite the moderate improvement in payrolls, the unemployment still ended the year at 7.1 percent, only slightly below the 7.4 percent rate recorded at the end of 2009.[4]

Figure ES-1 below depicts historical and projected data on the unemployment rate for the State of Texas and the Austin metropolitan statistical area (MSA), as reported by IHS Global Insight.

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[1] As reported by the Business Cycle Dating Committee of the NBER, the recognized authority for determining the start and end points of economic expansions and recessions.

[2] According to a July 2011 report by IHS Global Insight, real GDP growth in 2008 was revised down from 0.0% to -0.3% and in 2009 from -2.6% to -3.5%, resulting in a peak-to-trough recessionary decline of 5.1% instead of the previously reported 4.1%.

[3] Much of the information in the preceding paragraph is from IHS Global Insight's Regional Outlook Report for the State of Texas dated August 25, 2011.

[4] Information in the preceding paragraph was taken from IHS Global Insight's Regional Outlook Report for the Austin Metropolitan Statistical Area dated July 28, 2011.

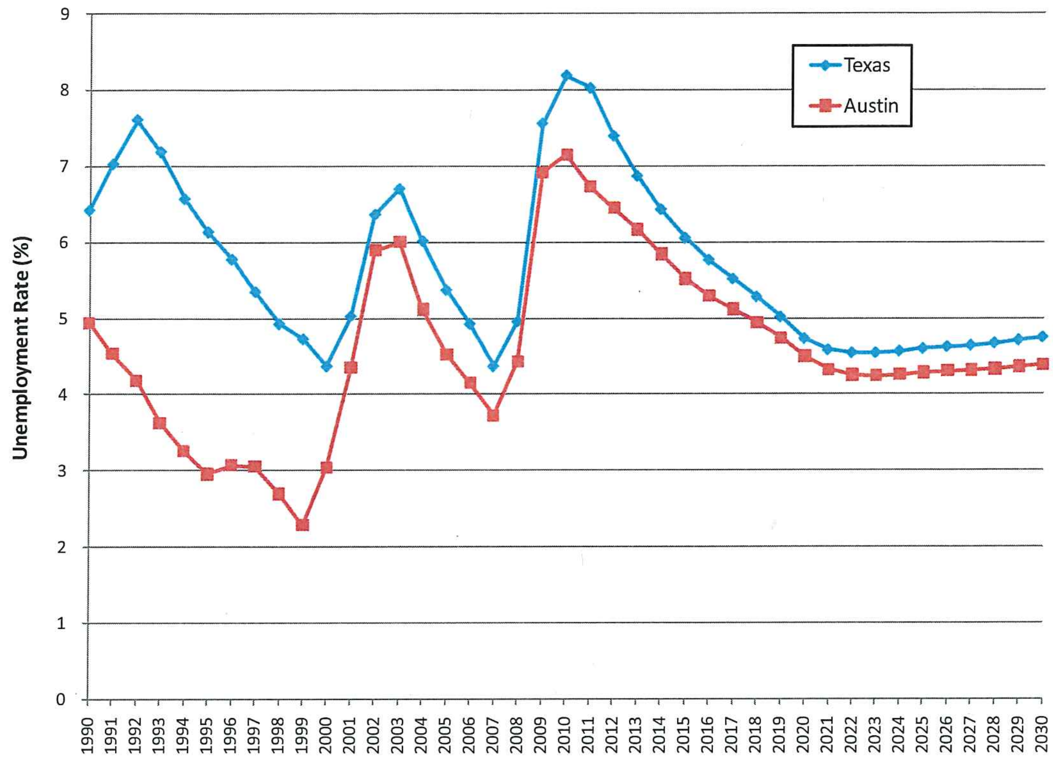

Figure 1-1: Texas and Austin Unemployment Rate

While updated census numbers for the Austin region were not yet available, from 1990 to the 2000 Census, the population of the five-county Austin-Round Rock-San Marcos MSA expanded at an annual rate of 4.0 percent. In the second half of the decade, out-of-state workers were drawn by the technology recovery. During the recent recession, Austin continued to significantly outperform the nation. The metro's population has grown at an average annual rate of 3.7 percent since 2006, reaching 1.7 million as of July 1, 2009. This ranks Austin among the top 10 fastest-growing metros in the United States. Forbes recently ranked Austin as the number one city in terms of growth prospects for the next decade. Austin joins three other Texas cities—Dallas, Houston, and San Antonio, in the top ten.[5]

The Austin MSA comprises Bastrop, Caldwell, Hays, Travis, and Williamson Counties. The last three of these comprise more than 60 percent of PEC's customer-members. As a result of its dominance of the periphery of Austin and proximity to San Antonio, PEC is well-positioned to grow significantly into the future.

[5] "The Next Big Boom Towns In The U.S." www.forbes.com, July 6, 2011.

SECTION 2
OVERVIEW OF METHODOLOGY

The 2011 Load Forecast prepared by R.W. Beck uses an econometric approach to forecast retail electricity sales and overall system net energy for load (NEL) and peak demand. Econometric forecasting makes use of regression to establish historical relationships between energy consumption and certain explanatory variables based on fundamental economic theory and experience. The validity and significance of historical relationships and the overall models are evaluated using various statistical measures. Models that, in the view of the analyst, best explain the historical variation of energy consumption are selected. These historical relationships are generally assumed to continue into the future, and the selected models are then simulated using projections of the explanatory variables, resulting in projections of energy usage and other modeled load concepts.

Econometric forecasting can be a more reliable technique for long-term forecasting than trend-based approaches and other techniques, because the approach results in an explanation of variations in electric consumption rather than simply an extrapolation of history. As a result of this approach, utilities are more likely to anticipate departures from historical trends in energy consumption, given accurate projections of the driving variables. In addition, understanding the underlying relationships that affect energy consumption allows utilities to perform scenario and risk analyses, thereby improving decisions.

2.1 Model Specification

Econometric models were used to forecast energy sales and member counts by major rate classification. The methodology utilized to forecast residential sales involves a separate analysis and forecast of the trend in residential member counts and the average energy use per residential member, which are then combined to produce a projection of residential sales. This treatment is common for homogeneous member types and useful for benchmarking to commonly-held beliefs and understanding of the energy-using characteristics of the typical household, as well as the expected growth in service area residents.

Non-residential sales were analyzed in total, rather than being separated into customer counts and average use for modeling, as the members in this class are generally not homogenous. An analysis of average usage of such a non-homogenous group of members does not yield the kind of useful information and results that can be cross-referenced to economic theory and intuition in the way that the residential analysis does. Non-residential sales were grouped together for modeling as the historical period exhibited significant reclassifications and class migration.

Residential and non-residential sales were then simply summed to represent total electricity sales.

The models developed for the forecast are of a functional form that is often referred to as "double-log" form, in which the dependent and major independent variables are natural logs of the variables being analyzed. The following is the general form of the equation:

$$\ln Y_t = \alpha + \beta_1 \ln X_{1t} + \beta_2 \ln X_{2t} + \ldots + B_n \ln X_{nt} + \epsilon_t$$

In this equation, Y_t is the dependent variable, such as average residential usage per member per year. X_{1t} through X_{nt} are independent, or explanatory, variables, such as average income, electricity price, and weather.

The Greek characters α, or alpha, and each β, or beta, are estimated by the statistics program. In this functional form, β represents the percentage change in Y that can be expected from a 1 percent change in the associated X term and is often referred to as "elasticity". The coefficient for the variable average income in a model of average residential usage would then represent the income elasticity of average annual residential sales.

The variable ϵ_t, or epsilon, is the amount of error in the equation's estimate of the natural log of the dependent variable and represents other impacts that are not significant enough to model or for which data cannot be easily obtained or simply natural volatility related to people's behavior.

Variables that can have the value of zero, such as weather variables or binary variables, cannot be logged, because the natural log of zero is undefined. These variables are in the equation in non-logged form and can be interpreted to represent the percentage change in Y that can be expected from a one *point* change in X, as opposed to a 1 percent change in X. While these coefficients are not actually elasticity measurements, they are still often referred to in that way for simplicity.

The models were estimated using ordinary least squares in the computer program Econometric Views™. The values for the forecast were computed directly in the statistics program and exported. An Excel™ spreadsheet was then used to perform further calculations which derive the remaining forecasted variables.

2.2 Derivation of NEL and Peak Demand

Forecasted monthly net energy for load was derived from the summation of sales across customer classifications and estimated loss factors for each month. Monthly distribution loss factors, which incorporate billing cycle differentials and true distribution system line and transformer losses, were projected based on a regression analysis of the historical loss factors over the study period. This regression analysis captures variations in distribution loss factors primarily as a function of current and lagged month average weather conditions, calendar days, and seasonal factors.

Similarly, forecast monthly peak demands were derived from monthly NEL based on a forecast of monthly load factors. Monthly load factors were modeled primarily as a function of average and peak day weather conditions. As these are assumed to be constant and based on normal weather conditions, load factors are stable over the forecast horizon. It is also common in load forecasting studies for load factor to be impacted by electricity prices, the mix of industrial load, and other variables. However, these were not found to have a significant impact on PEC's load factor. This may be a reflection of the fact that PEC does not have a large amount of industrial load outside of Centex.

2.3 Forecast Scenarios

In addition to the Base Case Forecast, R. W. Beck has also prepared high and low forecasts to capture the uncertainty in future trends of population and economic activity (High and Low Economic Cases). These forecast ranges are intended to encompass 80 percent of the uncertainty in the driving variables. These results are produced by simulating the forecast equations with higher and lower assumptions regarding future economic and demographic growth derived from information regarding the historical accuracy of such projections provided by a separate data provider, Woods and Poole Economic, Inc. Such data was obtained from Woods and Poole as Global Insight does not publish such data, and both providers utilize fairly similar methodologies for their projections. As the forecast of energy requirements is directly integrated with the peak demand forecast, the variations in the energy forecast produced for the forecast ranges also result in variations in the peak demand forecast.

In order to inform the downstream distribution system study, R. W. Beck also produced a Severe Weather Case impacting summer and winter peak demand. The Severe Weather Case was produced by varying the future values of peak day weather conditions, based on an analysis of historical peak weather conditions, as described further in Section 3. In addition, the Severe Weather Case focuses exclusively on peak demands of the summer and winter seasonal peak months only. Accordingly, NEL is not impacted and peak demands for the remaining months are not impacted by this scenario.

SECTION 3
DATA SOURCES

3.1 Historical System Data

Data regarding monthly numbers of member accounts, electric sales, and revenues by rate classification were provided by PEC staff for the period 1990-2010. The most recent portion of this data was obtained from PEC for purposes of this project, while other portions were obtained during prior projects. In each case, a significant overlap of data was obtained to assure continuity and consistency across time.

PEC staff also provided data regarding monthly net energy for load (NEL) and peak demand. The former corresponds to energy purchased under various power supply contracts, including purchases from the Lower Colorado River Authority (LCRA) and American Electric Power. The peak demand data reflects the maximum 15-minute integrated demand as measured at the delivery points of PEC. Monthly NEL and peak demand values reflect LCRA's billing cycle, which runs from the 25th of the prior month to the 24th of the current month.

NEL is typically greater than total retail sales by the amount of losses incurred over the members' distribution lines and related equipment (e.g., transformers) and unbilled sales, such as energy use at PEC's offices and system facilities. In addition, however, NEL differs from total retail sales on a monthly basis as a result of timing differences related to retail billing cycles. Loss factors computed for purposes of the Forecast represent a percentage adjustment to account for all of these differences between NEL and total sales.

3.2 Economic and Demographic Data

Data regarding the economy and population of the counties that encompass the PEC service area were obtained from IHS Global Insight (Global Insight), a widely used provider of such data in the utility industry. These data include county population, households, employment, personal income, retail sales, and gross regional product. Global Insight produces updated projections at least semi-annually (or when a change in conditions or outlook warrant).

Based on several econometric experiments, it was determined that the closest fit to the historical retail electric sales data resulted from using a simple summation of Comal, Hays, and Williamson Counties (Tri-County Area), which comprise more than 60 percent of the members of PEC and represent the majority of PEC growth. A table of selected historical and projected data reported by Global Insight for the Tri-County Area is shown in Exhibit B. Although all data was not necessarily utilized in each of the forecast equations, each was examined for its potential to explain changes in historical electric sales. Note that "personal income" refers to the total income earned by the population in a county rather than average personal income per capita, thereby combining population and income per capita concepts.

Supplemental economic and/or demographic data was gathered by R. W. Beck and PEC staff from certain other sources. Additional data regarding historical and projected population trends was gathered via estimated and projected data provided by the Texas State Data Center (TX SDC). However, this data was found to be outdated and actually had previously been gathered for purposes of the 2007 Forecast. PEC also provided R. W. Beck with alternative projections published by Esri, Inc.; however, this data was benchmarked to the similar data obtained from IHS Global Insight and found to reflect a similar outlook.

3.3 Weather Data

Historical weather data for the Austin-Camp Mabry weather station was provided by the National Climatic Data Center. The influence on electricity sales of weather has been represented through the use of two data series—heating and cooling degree days (HDD and CDD, respectively). Degree days are derived by comparing the average daily temperature and a base temperature, typically 65 degrees Fahrenheit, which was the base relied on herein. To the extent the average daily temperature exceeds 65 degrees Fahrenheit, the difference between that average temperature and the base is the number of CDD for the day in question. Conversely, HDD result from average daily temperatures which are below 65 degrees Fahrenheit. Heating and cooling degree days are then summed over the period of interest; for purposes of this forecast, degree days summed over a calendar month and over the LCRA billing cycle, as discussed above, were used.

Because predicting future long-term weather patterns is not practical, normal weather conditions have been assumed in the projected period. Thirty-year normal monthly HDD and CDD were provided by NOAA and are generally based on average weather conditions from 1971 through 2000[6].

Figure 3-1 shows a graphical comparison of historical and normal annual HDD and CDD for the Austin-Camp Mabry weather station. The data reflects that the PEC service territory experiences relatively greater amounts of warm than cold weather, although, given the limited penetration of natural gas in the region, electric loads in the winter are highly sensitive to the latter.

[6] Updated normal weather data reflecting the period 1981-2010 became available from the NOAA in July 2011. However, this was not sufficiently early in the project to be useful.

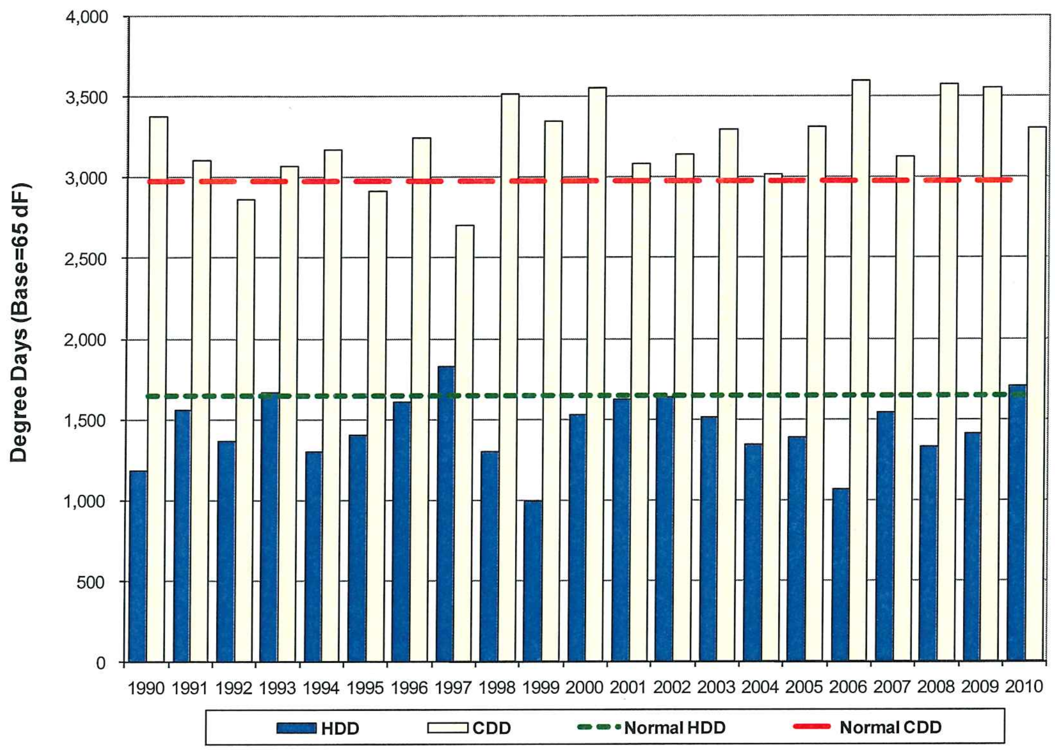

Figure 3-1: Actual v. Normal Weather Data – Austin Camp Mabry

The influence of weather on monthly peak load factor was represented and tested using several weather-related data series. In addition to the HDD and CDD series discussed above, several weather variables associated with the peak day weather were constructed. Daily weather statistics were compiled, including high and low "dry bulb" temperatures, average dew point, humidity, snowfall, and rainfall. Peak day weather determinants were then determined based on information regarding the timing of PEC's peak demand. In addition, high and low temperatures from the day prior to the peak day were similarly determined.

For the forecast period, average of peak weather conditions over 1992-2010 were assumed to reflect conditions that could be expected on PEC's peak days. For purposes of the Severe Case discussed later herein, a range of potential peak day conditions were developed based on the historical volatility in summer peak day conditions.

Figure 3-2 and 3-3 below depict the daily high temperature on the summer peak day and the daily low temperature on the winter peak day, respectively, over 1992-2010 compared to their average values over 1992-2010, which form the basis for the Base Case results, and similar values assumed for the Severe Case. The data shows a great deal of volatility in peak day temperatures (note however that the chart has a Y-axis that is restricted to the range of temperatures of interest). For the winter peak low temperatures in Figure 3-3, the 2010 value is highlighted to indicate that the value for this observation did not influence the analysis as it occurred in February 2011, after the end of the study period. Note that both the 2009 and 2010 values are somewhat below even the severe case.

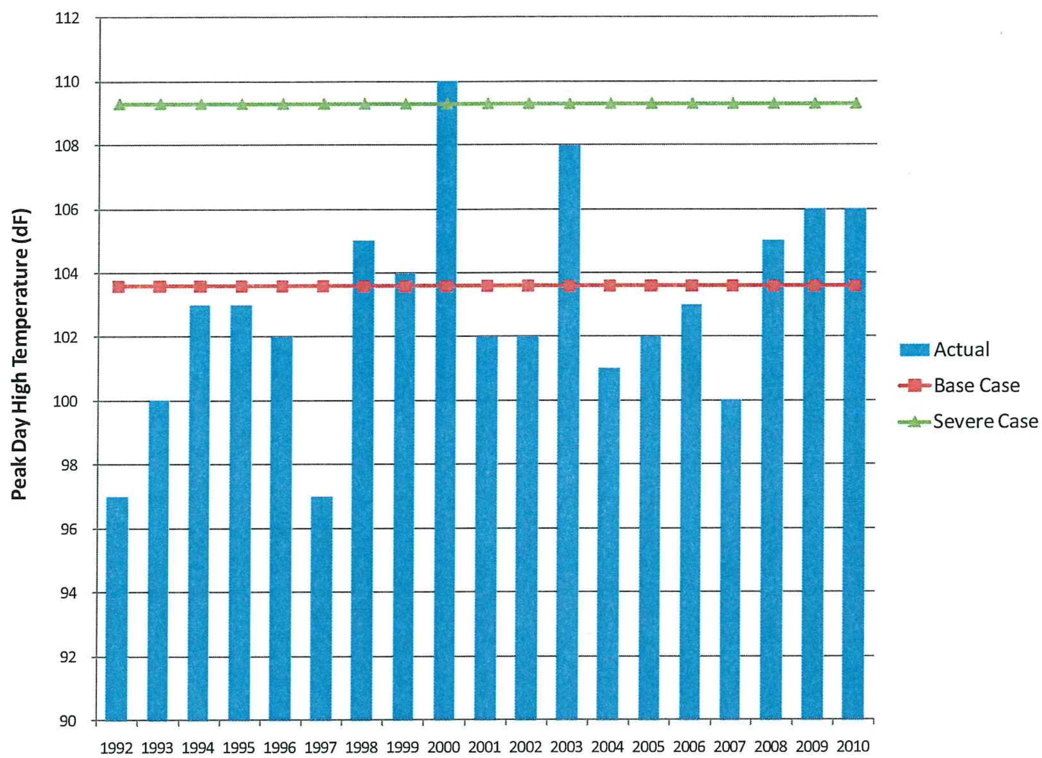

Figure 3-2: Range of Peak Summer High Temperature

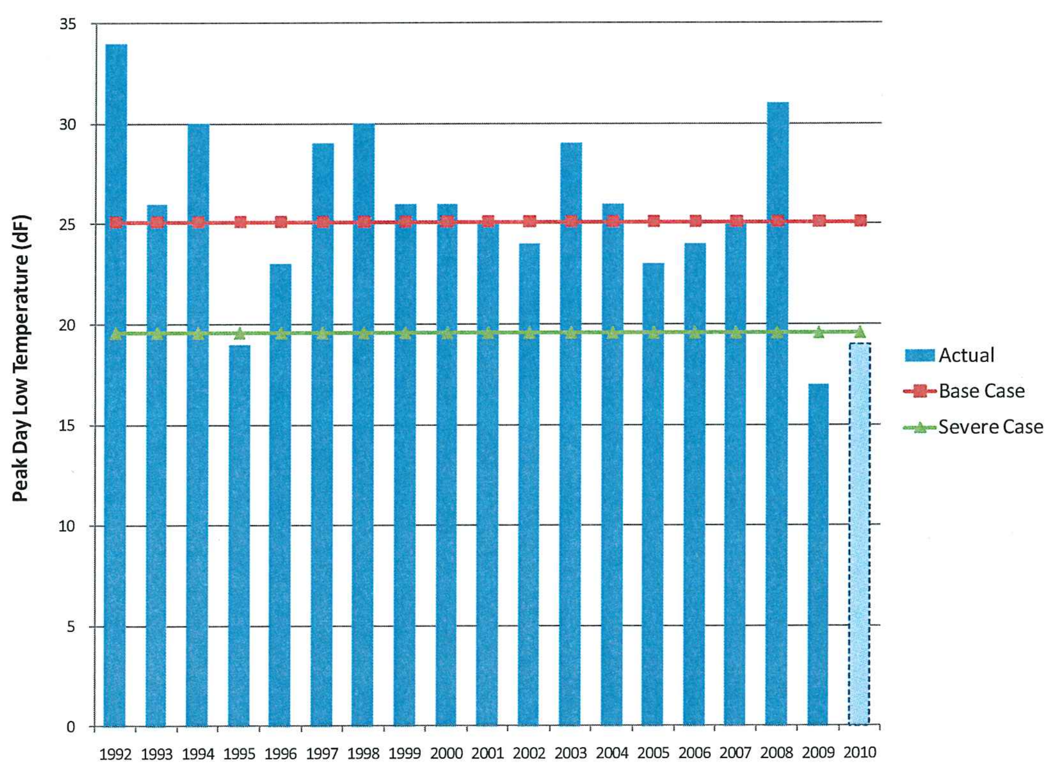

Figure 3-3: Range of Peak Winter Low Temperature

3.4 Real Electricity Price Data

The real price of electricity is represented by real average revenue, which is calculated by dividing retail electricity revenues by electricity sales and normalizing for inflation using the implicit price deflator for personal consumption expenditures (PCEd), as reported by the U. S. Bureau of Economic Analysis. The adjustment for inflation is accomplished by dividing each period's nominal average revenue by the PCEd value. Note that the PCEd, as well as the other components of the implicit gross domestic product deflator, are revised periodically, even several years after the fact, as more supporting data becomes available.

The forecast model for average residential usage includes a 12-month moving average of this price term to reflect that the demand response from price changes takes some time to be felt. However, it is important to recognize that this slightly lagged demand response may only capture discretionary use. Changes to electric consumption resulting from the replacement of the stock of electric appliances (which increase the average efficiency of appliances) take much longer to be felt and may be more significant. This longer lag between changes in electricity price and variations in load could be modeled instead of, or in addition to, this shorter lag. However, the lack of data of a sufficiently long history and the subtlety of the relationship, combined with the influence of more general technological change, prevented such an effort.

Projected electricity prices are assumed to increase at the rate of inflation. Consequently, the real price is projected to be essentially constant. Figure 3-4 depicts the historical and projected trend of the real average price of electricity for PEC's residential members as compared to the same for the average residential consumer in Texas. Note that the *real* price of electricity has fallen by about 20 percent over the last 3 years.

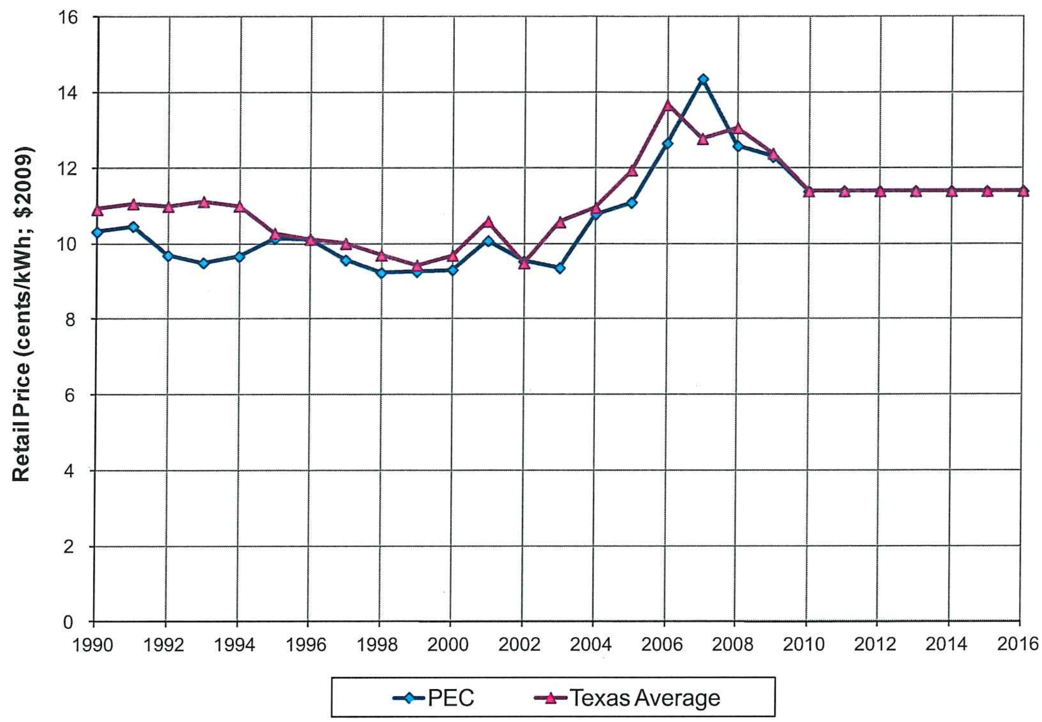

Figure 3-4: Real Average Price of Electricity to Residential Consumers

3.5 Real Natural Gas Price Data

The real price of natural gas for the state of Texas (on average) was obtained from the Energy Information Administration for the Study Period. Data reflective of actual end-user residential prices and city-gate prices were tested for their ability to explain variation in electric sales. Adjustment of nominal prices to represent constant dollars was performed as discussed above for electricity prices using the PCEd.

Theoretically, a rise in average natural gas prices should result in an increase in electric usage, as these commodities can be considered imperfect substitutes, particularly for home heating. This influence of natural gas prices can result from multiple behavioral changes, including the use of portable electric space heaters (gas or electric) and electric blankets (short-run response) as a substitute for a primary heating system (central or room, gas or electric), and the increased saturation of home appliances to the resource expected to be cheaper on average over time (long-run response).

Projected natural gas prices are assumed to increase at the rate of inflation. Consequently, the real price is projected to be essentially constant. Figure 3-5 below depicts the historical and projected trend of real residential natural gas prices for the state of Texas. Note that the *real* price of natural gas to consumers has fallen over 20 percent over the last 3 years.

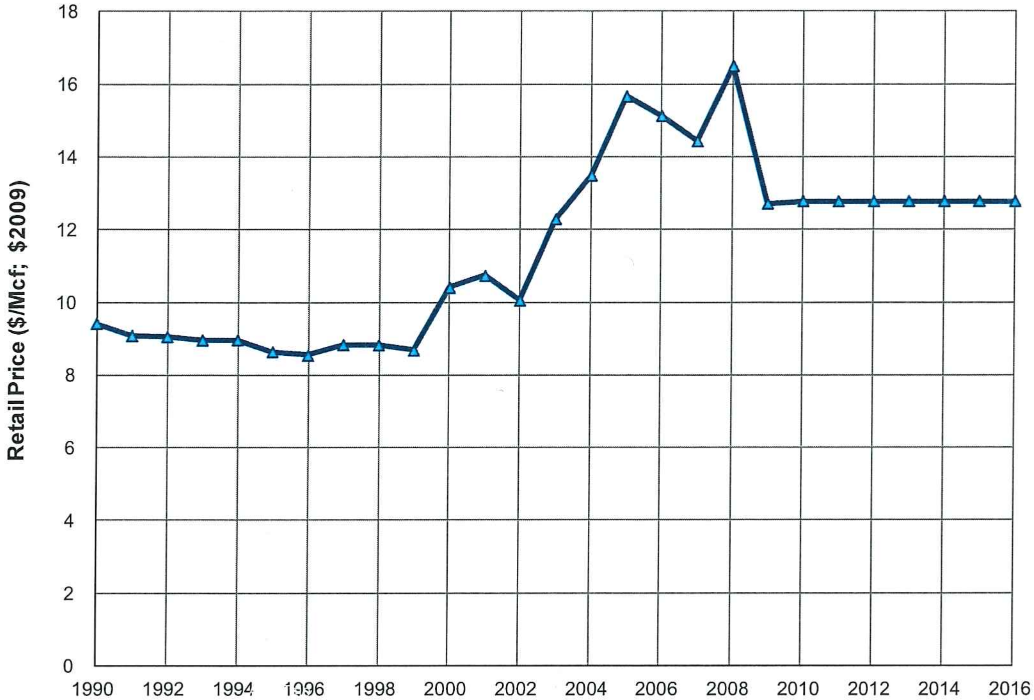

Figure 3-5: Real Average Price of Natural Gas to Texas Residential Consumers

SECTION 4
PRINCIPAL CONSIDERATIONS AND ASSUMPTIONS

In preparing the 2011 Load Forecast, as summarized in this report, R. W. Beck has made certain assumptions with respect to conditions that may occur in the future. While we believe these assumptions are reasonable for the purposes of the forecast, they are dependent on future events, and actual conditions may differ from those assumed. While we believe the sources of the information provided to us, or prepared by others, to be reliable and the use of such information to be reasonable for the purposes of the forecast, we offer no other assurances with respect thereto. For example, to the extent that economic, demographic, weather, or other conditions occur that are different from those assumed by us or from the information provided to us or prepared by others, the actual future PEC load can be expected to vary from the forecast.

It should be emphasized that the confidence associated with any forecast varies inversely with the length of the forecast horizon. The probability of other factors affecting forecasted values increases with uncertainty about future developments; this uncertainty increases with the length of the forecast horizon. With this in mind, the 2011 Load Forecast should be seen as providing reasonable estimates of PEC's future demand and energy requirements for the purposes for which the Forecast is intended. However, these estimates are subject to the future effects of factors that cannot be reasonably foreseen at this time.

The development of the 2011 Load Forecast was based upon the following principal consideration and assumptions:

- The data on which this Forecast is based, both external (economic, weather, etc.) and internal (energy sales, peak demands, etc.) are assumed to be accurate. While R. W. Beck has reviewed the data for major anomalies, R. W. Beck can give no assurances that the data are without error. In particular, recent historical economic data at the county level (generally for the period after 2009) actually represent projections by IHS Global Insight, as actual data are unavailable. Further, even "actual" economic and demographic data for the most recent several years is subject to substantial revision as more supporting data becomes available. Therefore, the relationships upon which the forecast is based may be somewhat in error, as the "true" data could show a different quantitative relationship. In particular, the 2010 Census was recently completed but has yet to be fully captured in the economic and demographic data obtained from IHS Global Insight.
- The future influence on energy sales of the economic, demographic, and weather factors, on which the econometric models are based, was assumed to be similar to the estimated influence of such factors generally over the Study Period. Similarly,

the estimated influence on distribution loss and load factors of weather conditions and seasonal factors during the Study Period was assumed to be representative of the future.

- Although the econometric models implicitly account for the historical relationships between energy usage and the following factors to the extent they have occurred in the past, the Forecast does not explicitly reflect extraordinary potential future effects of: (a) increases in appliance design efficiency or building insulation standards; (b) development of substitute energy sources; (c) members switching to traditional or new types of electrical appliances from other alternatives (e.g., electric vehicles); (d) members switching from electrical appliances to other alternatives; or (e) variations in load that might result from legal, legislative, regulatory, or policy actions.

SECTION 5
OVERVIEW OF RESULTS

The following discussion provides some detail regarding the results of the econometric analysis of retail electricity sales, the resulting forecasts of residential members and residential and non-residential sales, and the forecasts of system net energy for load (NEL) and seasonal peak demand. For the Base Case results for each forecast determinant, graphs are provided that depict both the current results and similar results from the 2007 Forecast, if applicable. The charts show several years of history and the forecast horizon, although the time period shown is shortened on both ends to limit the vertical scale and focus more on recent historical data. Additional numerical detail is provided in Exhibit A.

For further information regarding the regression equations used to produce these results, see Exhibit C.

5.1 Residential Class

For the residential class, the analysis of electric sales was separated into independent analyses of the number of member accounts and average consumption per account, the product of which is total residential sales. This approach is common for sufficiently homogenous customer classes and, as it results in projections of both customer counts and average usage, is not only directly useful in various planning analyses but also can be more easily benchmarked to intuition and knowledge of PEC staff with "boots on the ground" than a forecast of total sales only.

5.1.1 Residential Member Counts

The number of residential customers is typically projected on the basis of the historical relationship between residential customers and population or the number of households, either in the utility's service area or surrounding county. If such data were reported and accurate for a specific utility's service area, the data would be nearly perfectly correlated and, indeed, essentially analogous to residential members. However, utility forecasting typically must rely on demographic and economic data that represents a somewhat different geographic area than, or some amalgamation of reported geographic areas that does not correspond to, the exact service territory. In addition, competition can sometimes exist in various forms in some service areas. The typical econometric model of residential utility members then reflects the portion of the households in the total geographic area that are served by the utility. Alternately, the model may reflect how that proportion might be trending through time, as a result of differing growth rates or competitive dynamics.

The regression analysis indicated that residential customer counts can be best explained as a function of households in the Tri-County Area. The forecasting equation, shown in Exhibit C, reflects a "differenced" functional form, wherein the equation is explaining the percentage changes in customer counts rather than customer counts in absolute terms. The primary parameter on household counts, referred to as "elasticity," is 0.82, which implies growth of slightly less than one-for-one for residential customer counts.

The resulting projection of residential members, as compared to the results of the 2007 Forecast, is shown in Figure 5-1 below. The results reflect slower growth than the recent past but still sufficient to add over 63,000 members, or 30 percent, over the first 10 years of the forecast horizon.

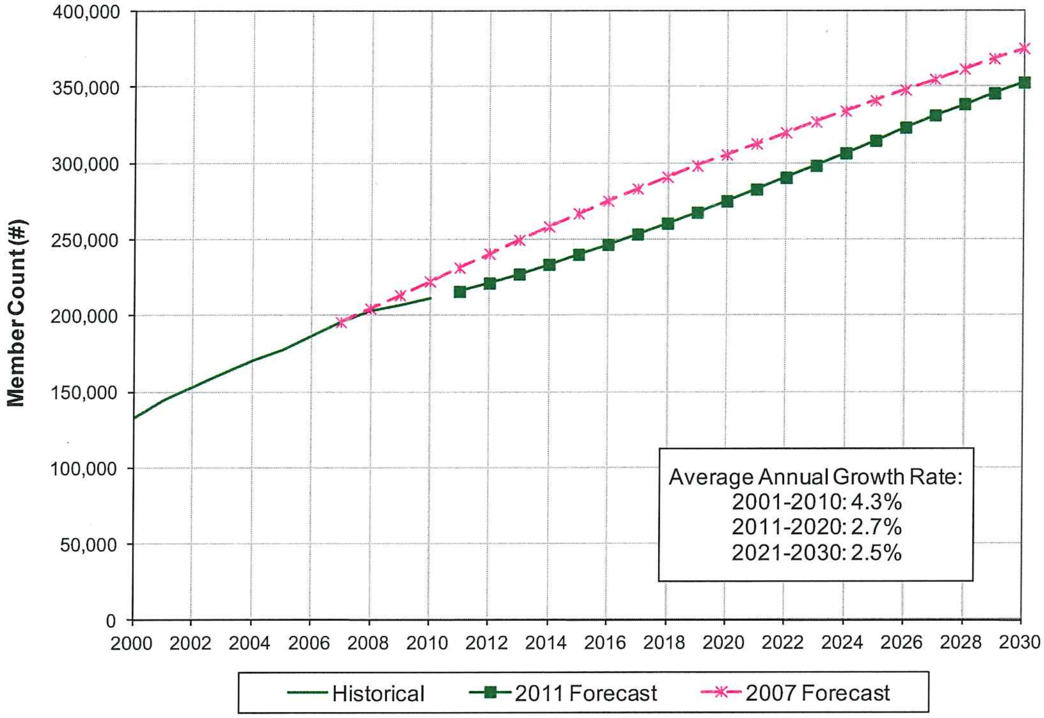

Figure 5-1: Historical and Projected Residential Members

The growth rates presented above can be compared to the growth rates assumed for household counts in the Tri-County Area, which are 4.5 percent over 2001-2010, 4.0 percent over 2011-2020, and 3.3 percent over 2021-2030. The results reflect that the number of residential members is expected to grow slightly slower than the number of households in the Tri-County Area. The larger differential between the county households and residential customer growth rates over the forecast horizon reflects that, relative to the Tri-County Area household count growth, PEC's member count growth has been slowing over the last several years.

5.1.2 Residential Average Consumption

The regression equation used to forecast average residential usage reflects that average residential usage is best explained by a combination of the following variables:

- Real average personal income per household
- Real electricity and natural gas prices
- Weather variables
- Seasonal factors

The elasticity of average usage with respect to average income, also referred to as the "income elasticity", is estimated in the residential average use model to be 0.23. This reflects that a 10 percent increase in average income in the Tri-County Area can be expected to result in a 2.3 percent increase in average residential use. Similarly, the elasticity with respect to real electricity prices is estimated to be -0.15, implying that a 10 percent increase in electricity prices will yield a 1.5 percent *decrease* in consumption, all else equal. The estimated elasticity with respect to natural gas prices is much smaller in absolute terms, at 0.03. These results dovetail with those of numerous similar studies in the utility industry over the years.

Income and the price variables are included in the model as a reflection of a considerable weight of economic theory suggesting that these variables affect consumers' purchasing habits. In the case of income, the effect is rather indirect. As average incomes rise, current residents and new residents will tend to build larger homes or add on to existing homes, upgrade other aspects of their homes resulting in greater electric use, and/or purchase new and/or larger electric appliances. In the case of price, the influence is more direct. When *real* electricity prices go up (particularly versus *real* natural gas prices), PEC's residential members will tend to conserve to some degree and/or use alternative appliances to avoid primary appliance use (e.g., portable heaters) and, in the longer term, will be encouraged to replace primary electric appliances with more efficient ones or alternative-fueled appliances.

The remaining variables capture average temperatures, in the form of heating and cooling degree days, and various adjustments to address anomalies in the data and persistent residual patterns. Weather variables include the one month lag of heating and cooling degree days to capture the effect of billing cycle differentials to the calendar-correct weather data. Note that the estimated influence of the lagged weather variables is considerably stronger than the current month variables. This suggests that the preponderance of billed sales in any particular month is heavily weighted toward usage in the prior month (i.e., the date ranges of most billing cycles are considerably later than actual usage). However, the model also reflects that beginning about 2001, billing cycle lags were reduced, in that this phenomenon became much less pronounced (i.e., prior month weather conditions began to be a less dominant indicator of billed sales). In addition, beginning about 2003, the month of December began to reflect considerably greater billed sales, perhaps reflecting more regular meter reading activity during the period leading up to the holidays.

Exhibit C contains the regression equation used to forecast residential average use, including both the full equation and a version that represents the more recent period of data and simplifies for the change in billing cycle weighting discussed above.

Figure 5-2 below depicts the historical actual and weather-normalized values and resulting projection of average use per residential member, as well as the projection reflected in the 2007 Forecast. The data reflect a considerable downward weather-normalization impact over the last few years as weather has been significantly more severe during the summer and, for 2010, more severe in both the summer and winter. The forecast reflects an increase in average usage, on a weather-normalized basis, resulting from both improved economic conditions and a significant reduction in electricity prices, driven primarily by a sharp reduction in the cost of natural gas-fired electric generation. While retail natural gas prices are also projected to decline significantly from the levels seen over the last several years, the influence on residential electric consumption is very limited in PEC's service area.

Exhibit C contains the forecasting equations and statistical output.

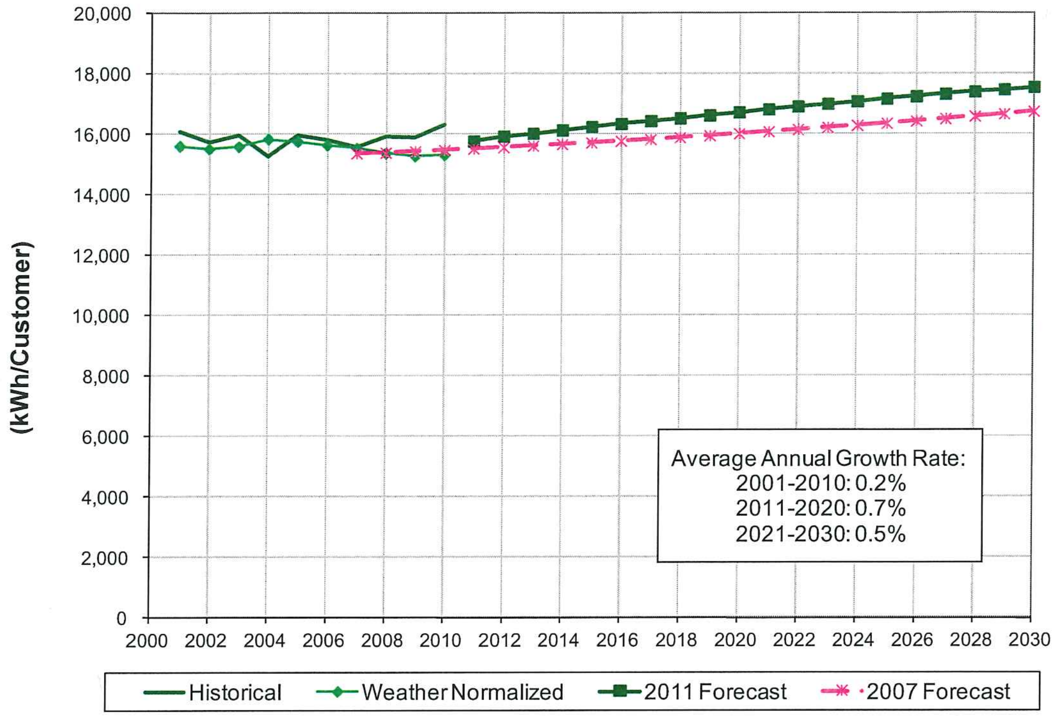

Figure 5-2: Historical and Projected Average Residential Usage

The historical trend and resulting projection of total residential electricity sales, reflecting the simple multiplication of the member count and average usage forecast discussed above, are depicted in Figure 5-3.

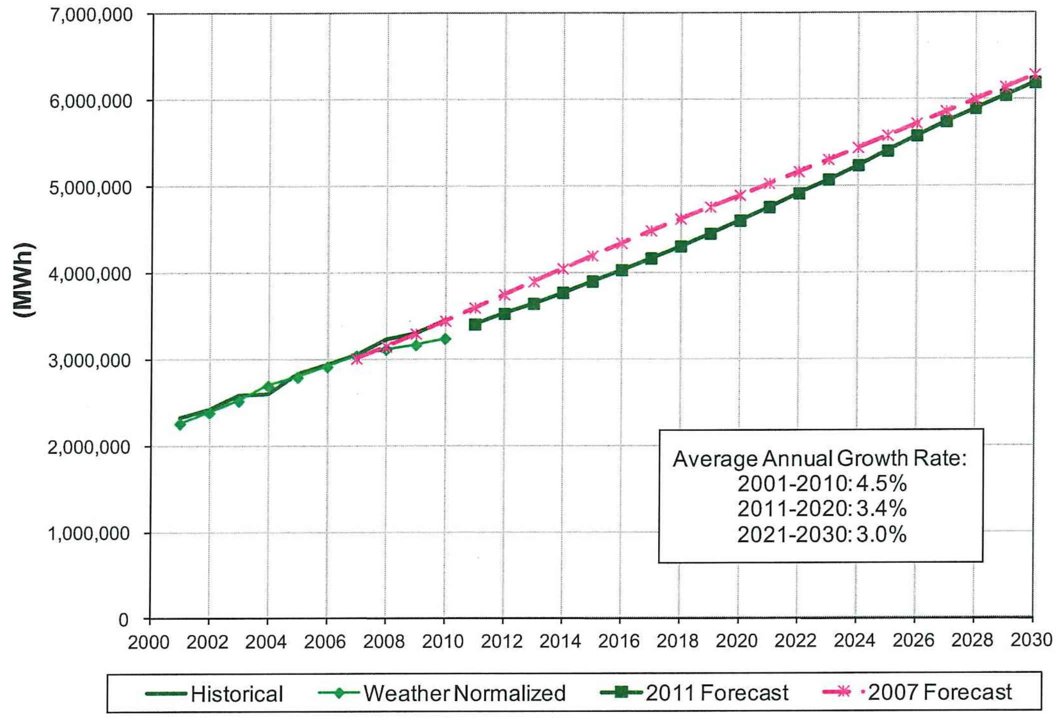

Figure 5-3: Historical and Projected Residential Electricity Sales

5.2 Non-residential Class

PEC has several non-residential customer classes; however, a significant redesign of these classes was completed in late 2004 causing considerable migration across classes and to new classes. Accordingly, all non-residential billing data (excluding Centex) was combined under a single umbrella for the forecast. In addition, the non-residential forecast methodology does not reflect the same separate forecast of member counts and usage that was utilized for the residential forecast. This reflects the fact that non-residential customers are not sufficiently homogenous to be conducive to this approach, and the ebb-and-flow of competitive dynamics, for which data are really not obtainable, has more of an impact on the average size of commercial businesses and industries than macroeconomic data. Therefore, the non-residential forecast simply entails a forecast of total sales to this group of members.

The non-residential sales equation reflects that commercial sales are best explained by total real personal income in the Tri-County Area and the intensity of weather. The non-residential sales equation also contains adjustments to capture the acquisition of the Kimble system. The inclusion of total personal income in the model captures the total earning and spending power of the region's residents. The elasticity on personal income is somewhat below 1.0, which implies that sales growth for this class will lag the growth in the earning and spending power of the regions residents. This is likely the result of both slightly lower electric sales growth for PEC's service area relative to the region and gradual improvements in the efficiency of the utilization of electricity.

The historical actual and weather-normalized sales data and resulting projection of non-residential sales are depicted in Figure 5-4, as well as the projection reflected in the 2007 Forecast. As shown in the figure, the influence of weather is considerably less for the non-residential class. The resulting projection starts somewhat lower than the 2007 Forecast but implies similar growth rates.

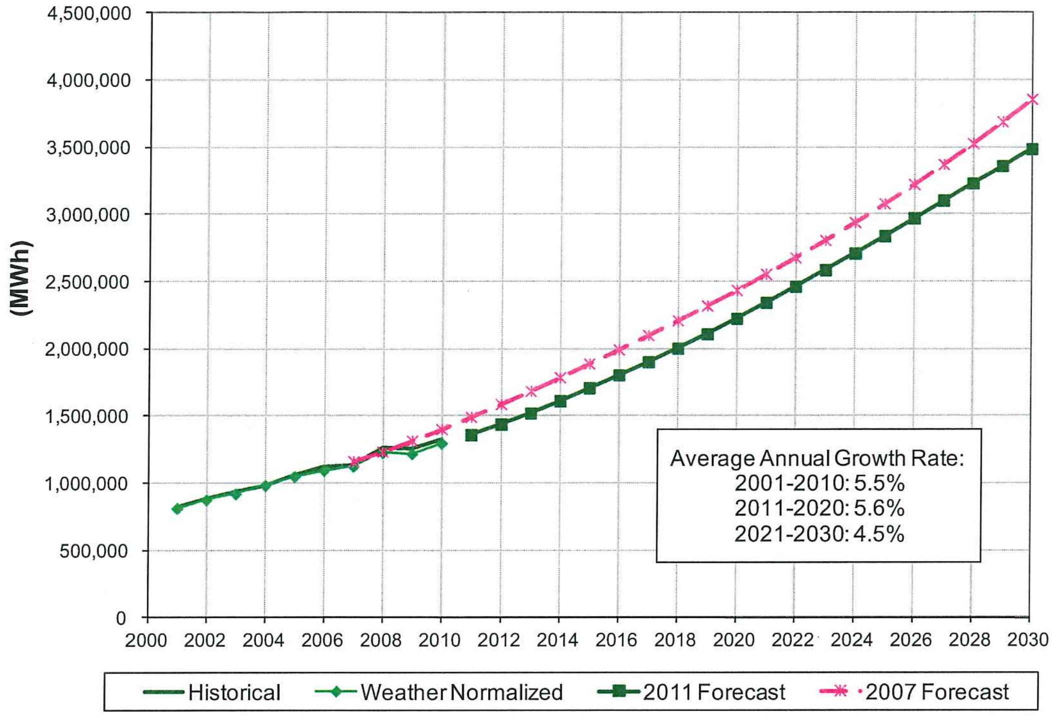

Figure 5-4: Historical and Projected Non-residential Electricity Sales

5.3 Total Electricity Sales Forecast

Based on a simple summation of the forecasts of residential and non-residential sales discussed above, a forecast of total electricity sales was initially produced for purposes of a preliminary draft forecast. However, during the downstream system planning effort, the peak demand forecast was adjusted upward slightly to include additional load primarily in the Cedar Park area that was deemed to be not implicit in the organic system forecast resulting directly from the forecast equations. In order to capture this adjustment across the range of forecast determinants, an equivalent amount of electricity sales were added in a "Spot Loads" category, as the additional load was not specifically classified. While the inclusion of this additional load was deemed important for the system planning study, the impact on the overall forecast is small, equivalent to approximately 1 percent of sales in 2015 and 3 percent by 2030.

Table 5-1 below provides a numerical summary of the retail electricity sales forecast for selected years.

Table 5-1
Historical and Projected Member and Sales Data

	Residential Members	Retail Electricity Sales (GWh) Residential	Non-Residential	Spot Loads	Total
Historical					
2001	144,730	2,329	821	0	3,151
2004	170,047	2,595	981	0	3,576
2007	195,612	3,047	1,132	0	4,179
2010	211,541	3,455	1,325	0	4,780
Projected					
2011	215,968	3,406	1,360	0	4,765
2012	221,419	3,527	1,438	9	4,975
2013	227,346	3,644	1,520	21	5,185
2014	233,606	3,770	1,612	36	5,419
2015	240,053	3,900	1,708	53	5,660
2020	275,097	4,601	2,224	147	6,972
2025	314,824	5,405	2,837	263	8,505
2030	352,732	6,192	3,485	336	10,013

The historical data and resulting projection of total electricity sales, reflecting the summation of the residential and non-residential sales forecasts and the Cedar Park spot loads discussed above, are depicted in Figure 5-6.

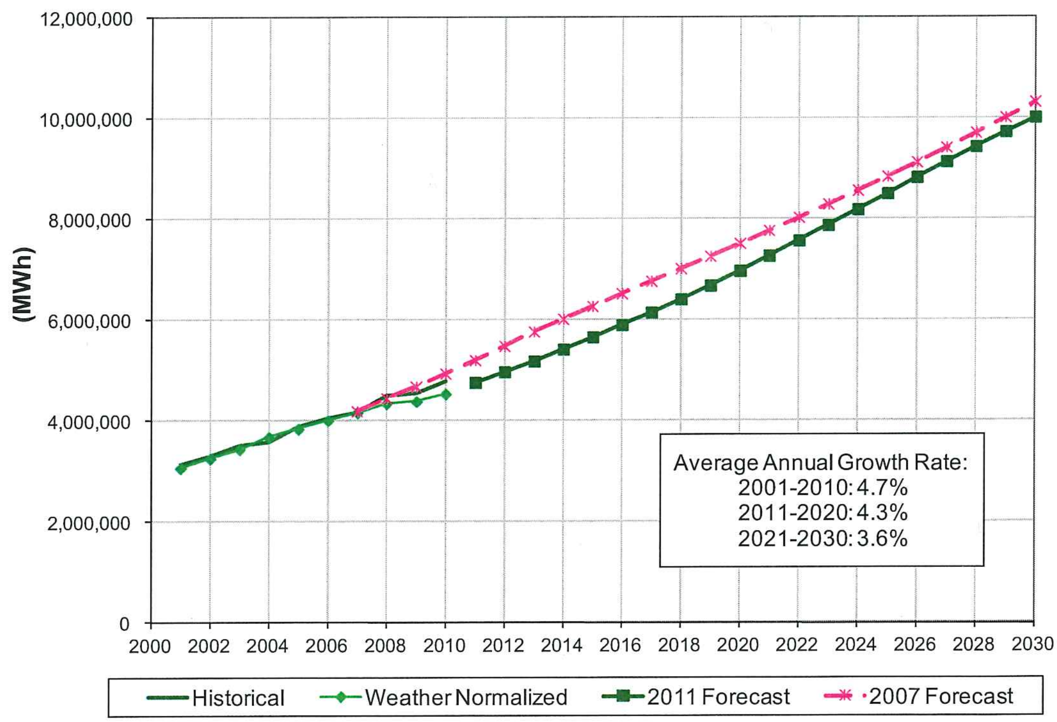

Figure 5-6: Historical and Projected Total Electricity Sales

5.4 Loss Factors

The forecast of total retail sales discussed above is translated into NEL, or net system energy requirements, by adding an estimate of distribution losses, derived from a regression analysis. The regression equation used to estimate distribution loss factors reflects that the majority of the variation in monthly loss factors is related to weather intensity, weather differentials among adjacent months, and other seasonal effects (number of days in each month versus typical billing cycle differences). The equation also includes an adjustment for some anomalous observations. For this purpose, daily weather data were utilized and summed on a monthly basis to reflect the LCRA billing cycle, which runs from the 25th of the prior month to the 24th of the current month. The resulting regression equation is included in Exhibit C.

5.5 Forecast of NEL

The forecast of net energy for load (NEL) is derived from forecasted total sales and monthly loss factors developed as discussed above. The resulting forecasted NEL generally follows the projected trend of total sales discussed above and is depicted in Figure 5-7 below.

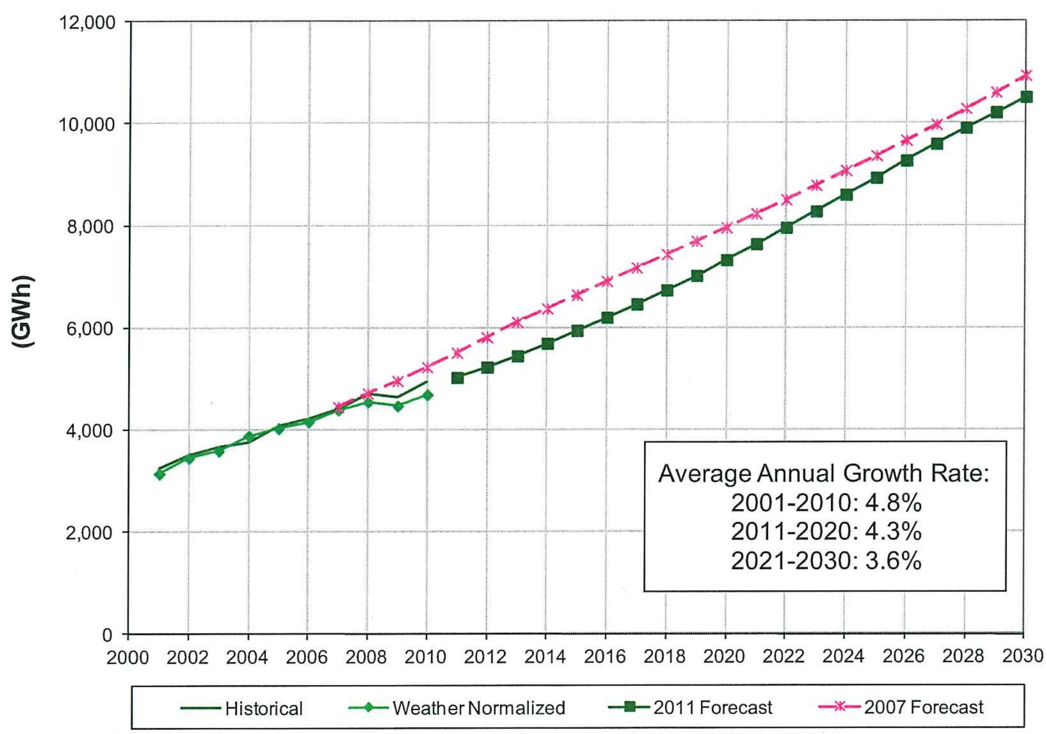

Figure 5-7: Historical and Projected Net Energy for Load

5.6 Forecast of Load Factor

In order to translate the forecast of NEL into peak demand, a forecast of load factor is required. A common assumption for this purpose is an average of recent historical load factors. However, this assumption is highly dependent on the weather conditions that were exhibited during this period. In addition, this process includes no effort to analyze or understand the influence of any factors on the relationship between energy consumption and peak demand. Accordingly, the 2011 Load Forecast included a regression analysis of monthly load factor. The resulting forecast equation is included in Exhibit C and reflects that variations in load factor are best explained by variations in temperatures for the month on average (on an LCRA billing basis) and for the peak day and day before the peak. There are also some seasonal effects beyond what is captured by the weather data. The regression analysis also revealed that afternoon peaks on a Friday typically resulted in lower peak demands (i.e., higher load factors) than would otherwise be expected. The equation also includes an adjustment for a further anomalous observation, in June 2009. For this purpose, daily weather data were utilized and summed on a monthly basis to reflect the LCRA billing cycle, which runs from the 25^{th} of the prior month to the 24^{th} of the current month.

5.7 Forecast of Peak Demand

Monthly peak demands are forecasted based on the combination of forecasted NEL and load factor as discussed above. Seasonal peaks are derived from the resulting monthly data. The summer period is defined as April through October, while the winter period is defined as November of the current year through March of the succeeding year. The months assumed to represent the seasonal peak conditions were January and August. In reality, of course, the surrounding months can also exhibit these peak conditions, but it is important that the seasonal peaks are reflected in the forecasted determinants on a Base Case basis. The seasonal peaks have historically occurred most often in the months of January and August.

Historical and projected summer and winter peak demand are depicted below in Figures 5-8 and 5-9, respectively, as compared to the projections reflected in the 2007 Forecast. Figure 5-10, which follows depicts both seasonal peak demands.

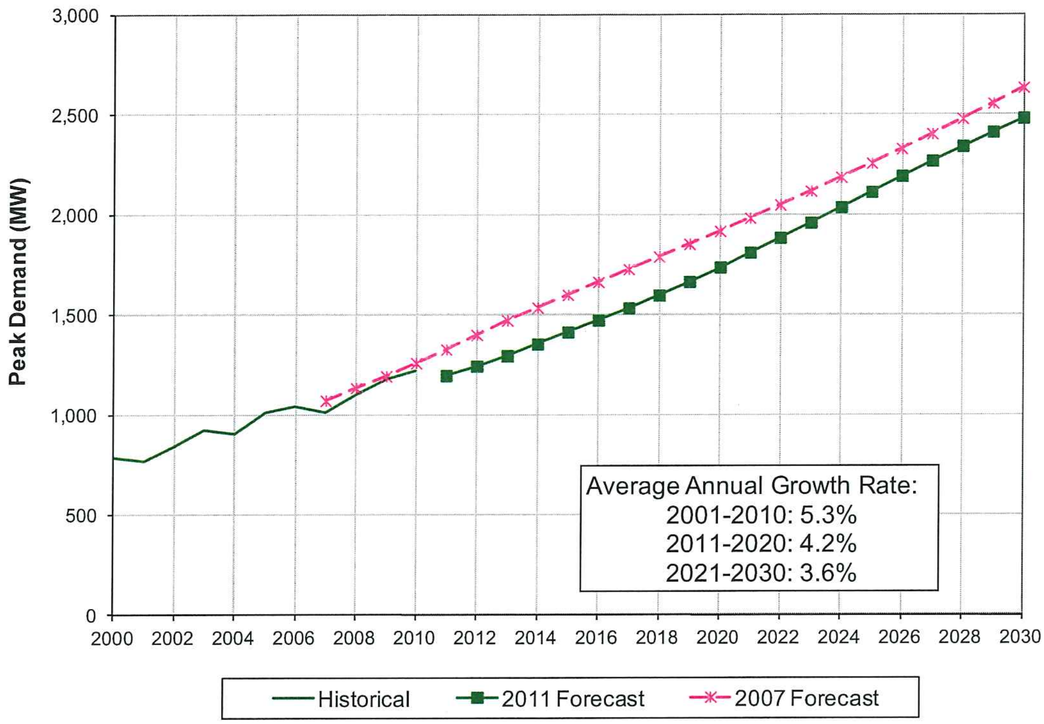

Figure 5-8: Historical and Projected Summer Peak Demand

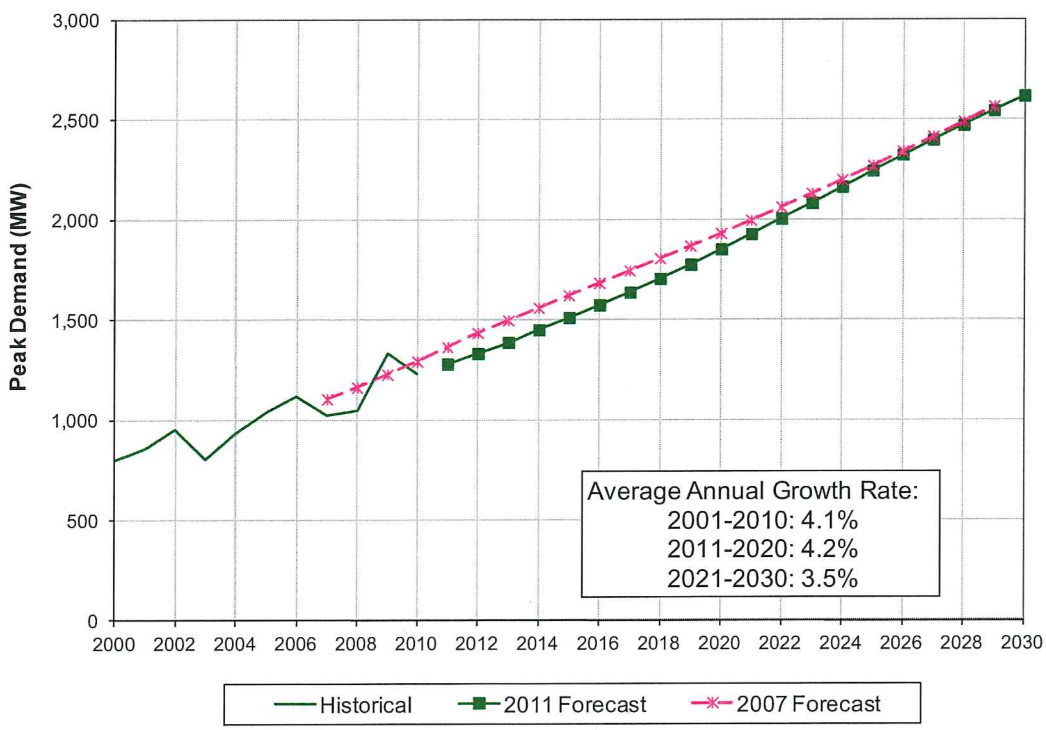

Figure 5-9: Historical and Projected Winter Peak Demand

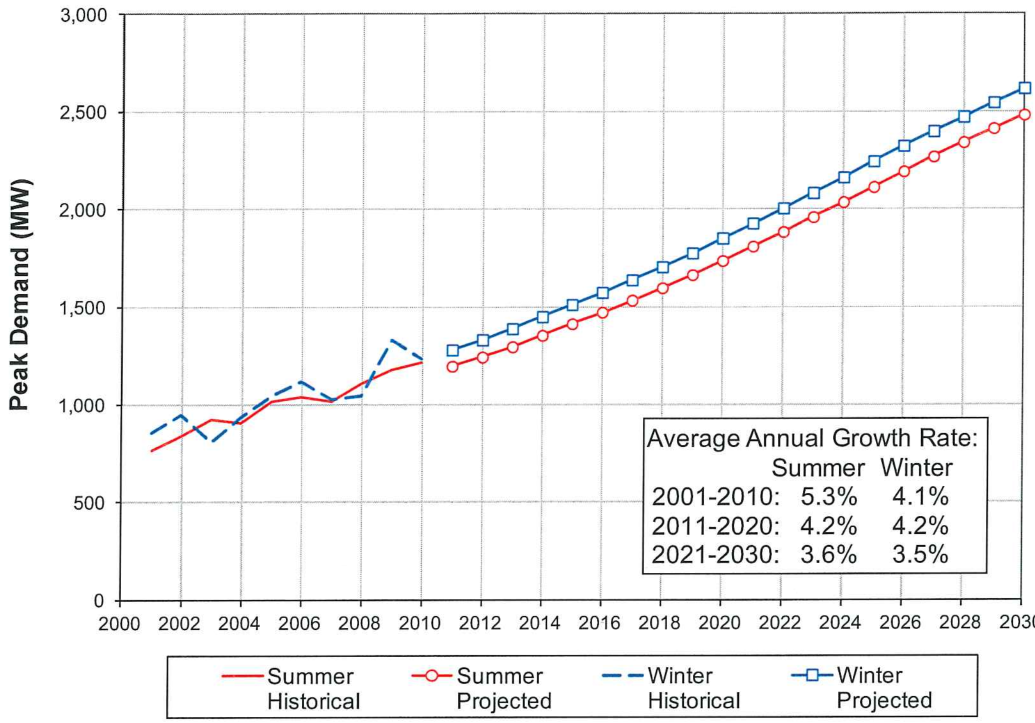

Figure 5-10: Historical and Projected Seasonal Peak Demand

Table 5-2 below provides historical and projected system load data (NEL and peak demand as measured at PEC's delivery points) for selected years, excluding Centex. As shown below, summer peak demand is expected to grow from approximately 1,196 MW in 2011 to 1,737 MW in 2020, an increase of nearly 550 MW, or 45 percent, over the initial 10-year period of the forecast horizon. Similarly, winter peak demand is expected to grow from approximately 1,280 MW in 2011 to 1,852 MW in 2020, an increase of approximately 570 MW, or 45 percent, over the same period.

Table 5-2
Historical and Projected Peak Demand Data

Year	NEL (GWh)	Peak Demand (MW) Summer	Peak Demand (MW) Winter
Historical			
2001	3,236	766.9	858.9
2004	3,767	907.9	935.5
2007	4,398	1,013.0	1,025.0
2010	4,935	1,217.5	1,232.3
Projected			
2011	5,024	1,196.4	1,279.8
2012	5,222	1,243.4	1,331.7
2013	5,443	1,295.6	1,388.2
2014	5,688	1,353.7	1,450.0
2015	5,942	1,412.9	1,511.2
2020	7,319	1,736.7	1,852.0
2025	8,928	2,112.9	2,244.6
2030	10,511	2,481.5	2,617.9

SECTION 6
FORECAST SCENARIOS

While a forecast that is derived from projections of the driving variables, obtained from reputable sources, provides a sound basis for planning, there is significant uncertainty in the future level of such variables. To the extent that economic, demographic, weather, or other conditions occur that are different from those assumed or provided, future load can be expected to vary from the forecast. For various purposes, it is important to understand the amount by which the forecast can be in error and the sources of error.

In order to provide an indication regarding the amount of uncertainty that exists in the forecast, we have produced alternative forecasts that reflect more and less aggressive projections of economic growth than assumed in the Base Case. In addition, in order to support the downstream system planning study, we have also produced peak demand forecasts assuming more severe weather conditions on the summer and winter peak days than assumed in the Base Case. These alternative forecasts are discussed further below.

6.1.1 Economic and Demographic Uncertainty

Alternative projections of population and economic growth were developed by examining the amount of error that can be expected in such projections. While Global Insight does not publish information regarding the potential error of their projections, we relied on such statistics published by another provider of economic projections in wide use in the utility industry and government, Woods and Poole Economics. These statistics reflect the average historical errors exhibited by Woods and Poole's projections at the state level over 1984 through approximately 2009 across the U.S.

While it is possible that the Global Insight projections will exhibit a different degree of error than those from Woods and Poole, both firms rely on a similar underlying data set and methodology, so it is reasonable to assume a similar degree of accuracy. It is also possible that the accuracy of economic and demographic projections in Texas will be different than those of other states, but data specific to Texas could not be easily obtained. Similarly, such data for the Austin metro area or the Tri-County Area could not be easily obtained.

Table 6-1 below provides the amount by which the economic projections were adjusted upward and downward from the Base Case assumptions to develop the High and Low Economic Growth Cases.

Table 6-1
Economic Scenarios – Assumed Variance from Base Case (+/-)

	Population	Employment	Income	Income Per Capita
2011	1.5%	2.7%	3.5%	3.5%
2012	2.3%	3.7%	4.3%	3.8%
2013	2.9%	4.4%	5.1%	4.0%
2014	3.4%	5.0%	5.9%	4.3%
2015	3.9%	5.6%	6.7%	4.5%
2016	4.4%	6.0%	7.5%	4.8%
2017	4.8%	6.5%	8.3%	5.0%
2018	5.2%	6.9%	8.8%	5.3%
2019	5.6%	7.3%	9.4%	5.5%
2020	6.0%	7.6%	9.9%	5.8%
2021	6.3%	7.9%	10.4%	6.0%
2022	6.7%	8.3%	11.0%	6.3%
2023	7.0%	8.6%	11.5%	6.5%
2024	7.3%	8.9%	12.0%	6.8%
2025	7.6%	9.1%	12.6%	7.0%
2026	7.9%	9.4%	13.1%	7.3%
2027	8.2%	9.7%	13.6%	7.5%
2028	8.5%	9.9%	14.2%	7.8%
2029	8.8%	10.2%	14.7%	8.0%
2030	9.1%	10.4%	15.2%	8.3%

These ranges are intended to capture approximately 80 percent of occurrences (i.e., 1.3 standard deviations), implying that there is only a 20 percent chance of loads falling outside of the resulting band as a result of economic variations. The 80 percent "confidence interval" is a range of forecast uncertainty in common use for planning in the utility industry.

Figure 6-1 depicts the resulting range of residential member counts.

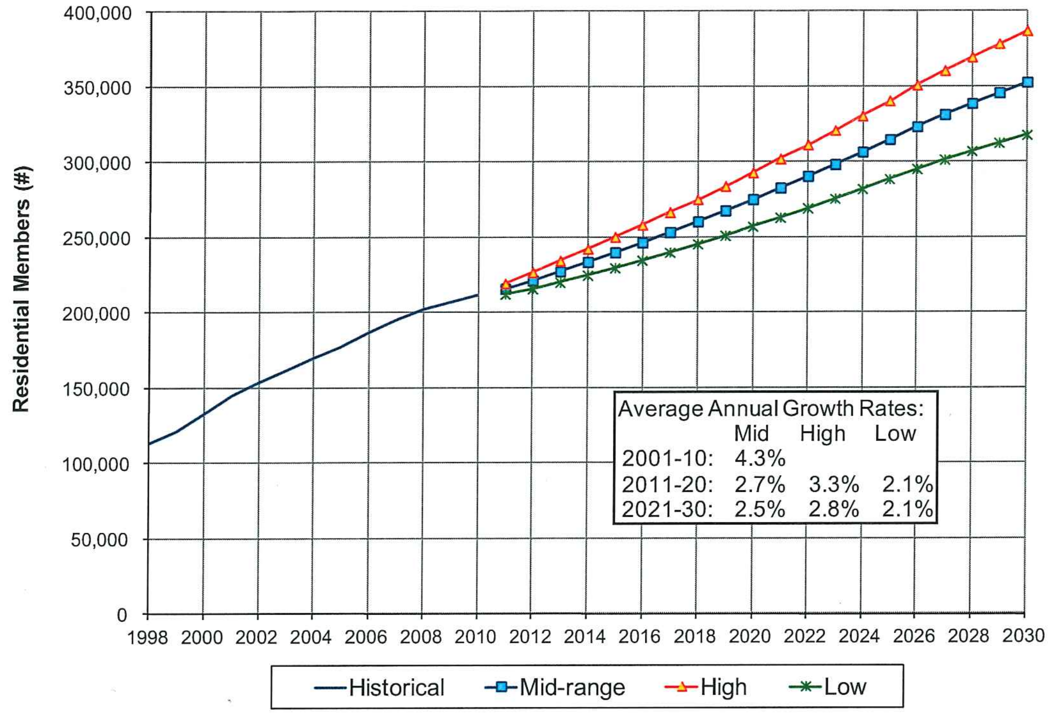

Figure 6-1: Range of Forecasted Residential Member Counts

Figure 6-2 depicts the resulting range of residential average use. The band is very tight as a result of the fairly low elasticity with respect to average incomes, which are themselves not as uncertain as the total size of the economy. From this figure, it is clear that weather is a more significant influence on usage than the economy.

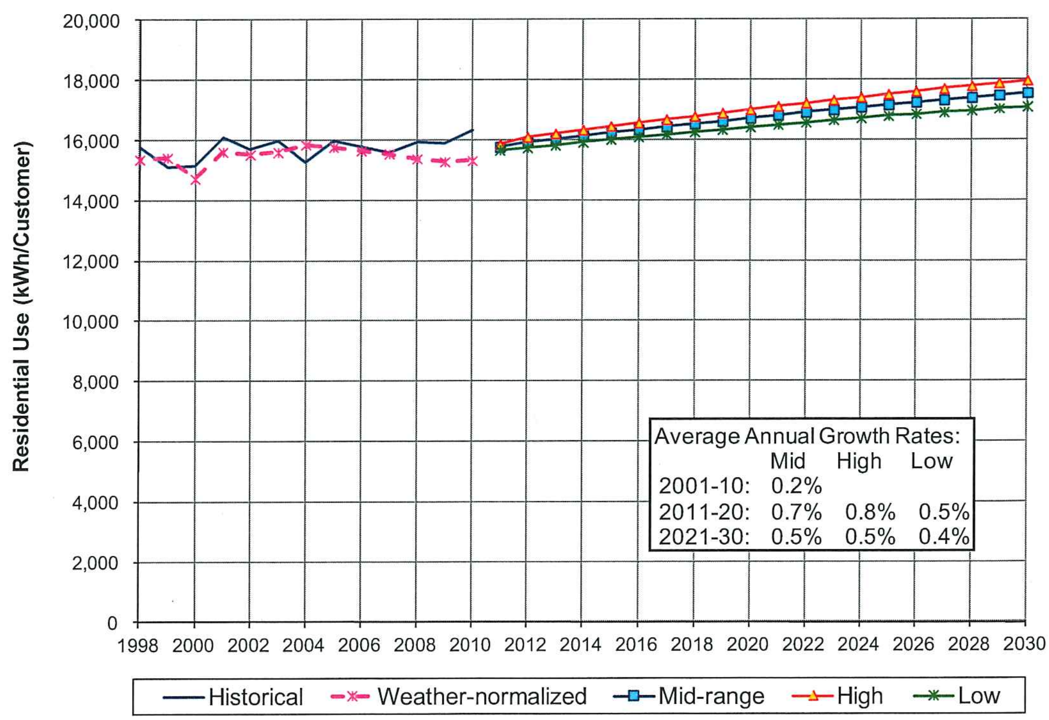

Figure 6-2: Range of Forecasted Residential Average Use

Figures 6-3 and 6-4 depict the resulting range of residential and non-residential sales.

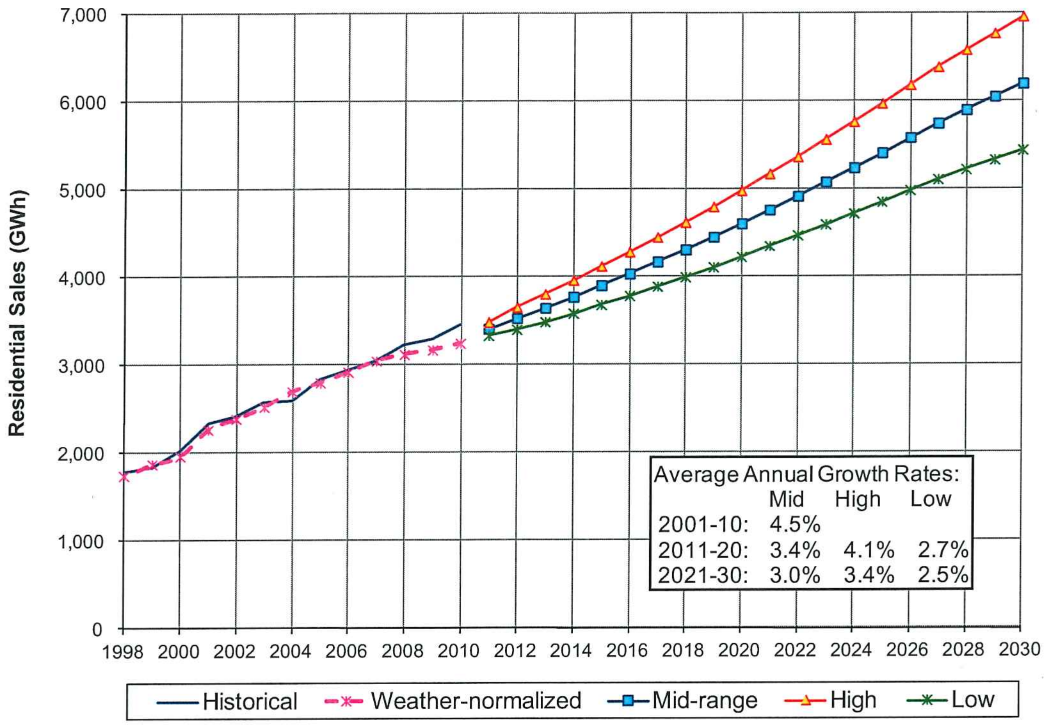

Figure 6-3: Range of Forecasted Residential Sales

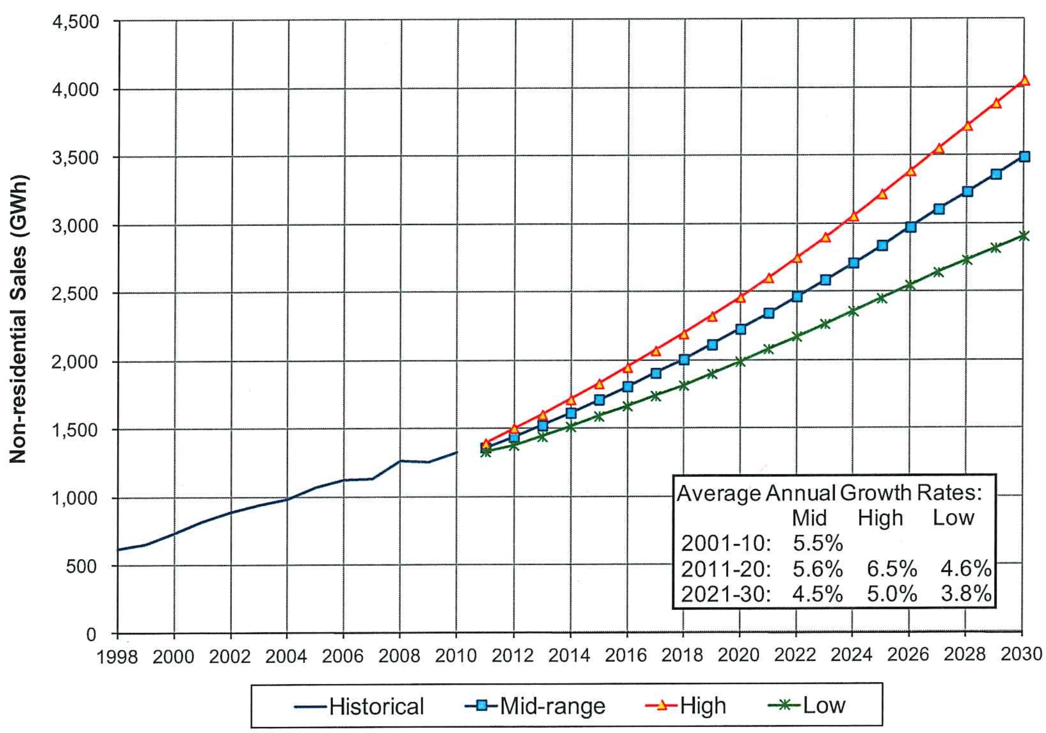

Figure 6-4: Range of Forecasted Non-residential Sales

Figures 6-5 and 6-6 depict the resulting ranges of total sales and NEL, which is merely derived from total sales on the basis of an estimate of distribution losses.

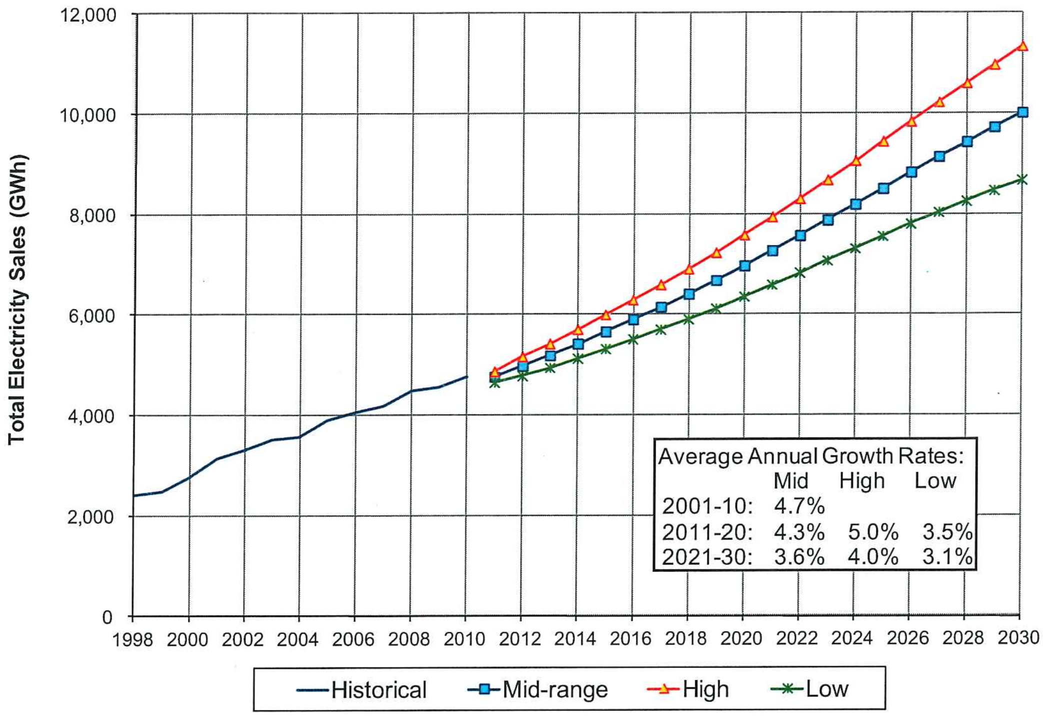

Figure 6-5: Range of Forecasted Total Sales

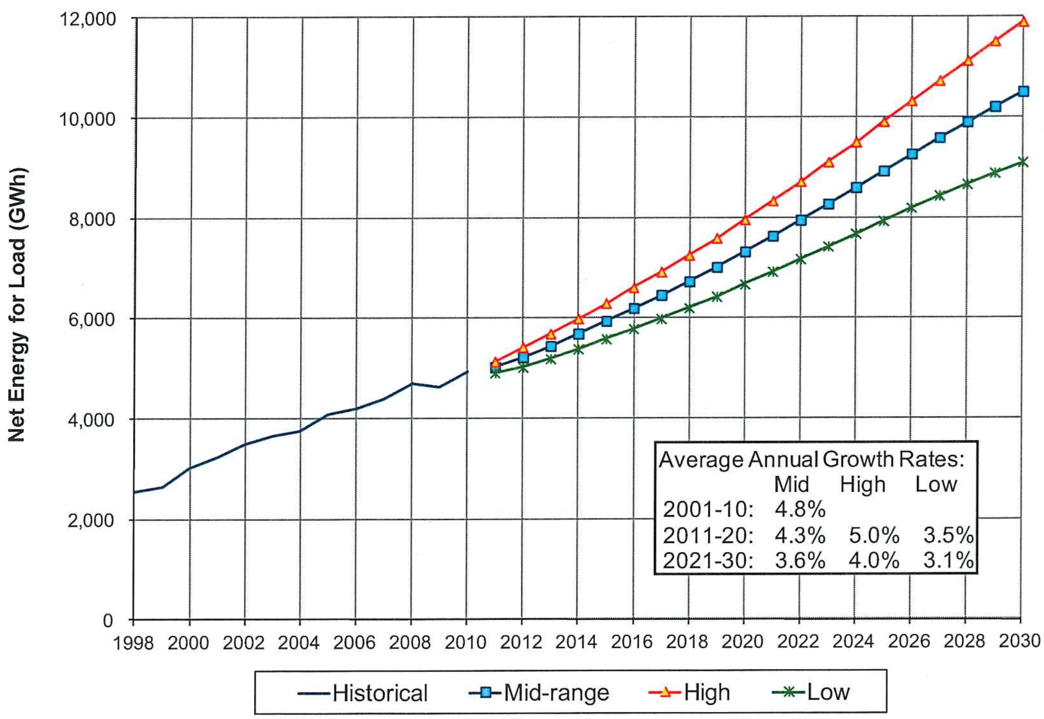

Figure 6-6: Range of Forecasted Net Energy for Load

Figures 6-7 and 6-8 depict the resulting ranges of summer and winter peak demand, which are derived from NEL on the basis of estimated load factors. However, these ranges do not reflect the impact of varying peak day weather conditions, which is discussed in the next sub-section.

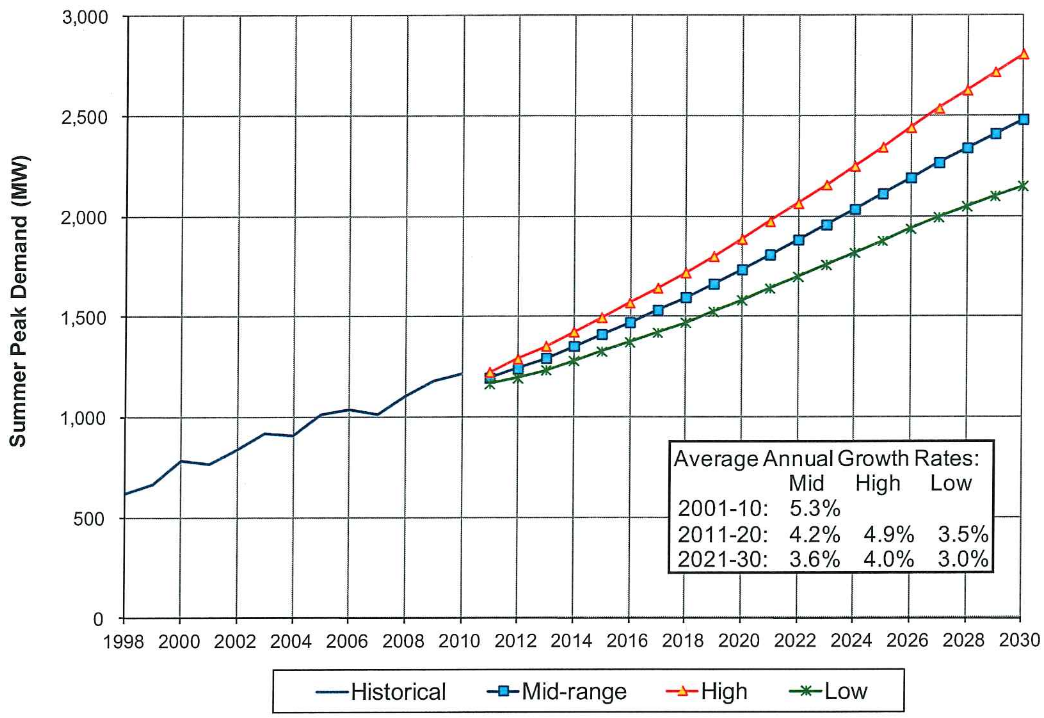

Figure 6-7: Range of Forecasted Summer Peak Demand

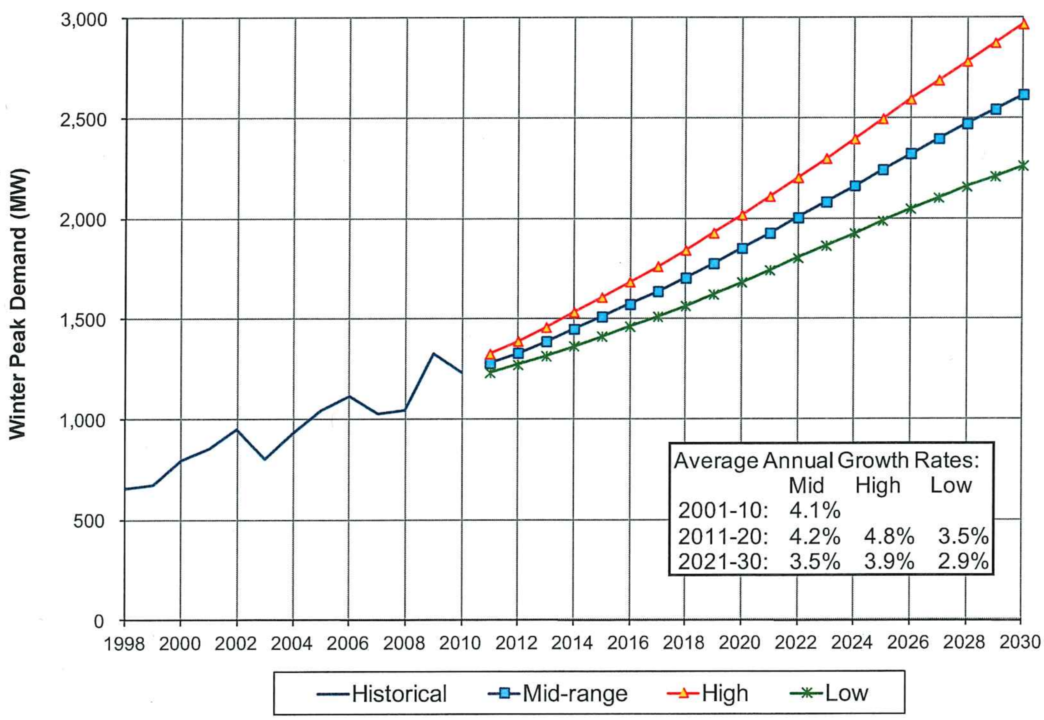

Figure 6-8: Range of Forecasted Winter Peak Demand

6.1.2 Weather Uncertainty

In order to inform the downstream distribution system study, R. W. Beck also produced a Severe Weather Case impacting summer and winter peak demand. The Severe Weather Case was produced by varying the future values of summer and winter peak day weather conditions, based on an analysis of peak weather conditions over 1992-2010. Similar analyses were performed on weather conditions for the day before the peak, although the range of temperature was reduced to reflect some non-collinearity with the peak day conditions. The peak day weather conditions in the Severe Weather Case are intended to represent the 95th percentile of potential weather conditions, implying that such severe conditions should be exhibited approximately only once in ten years.

The Severe Weather Case focuses exclusively on peak demands of the summer and winter seasonal peak months only. Accordingly, NEL is not impacted and peak demands for the remaining months are not impacted by this scenario.

Figures 6-9 and 6-10 below compare the Base Case forecast under normal weather to the Severe Case forecast of summer and winter CP demand. The impact of severe weather conditions, as depicted in the figures below and consistent with the 95th percentile of potential conditions, was approximately 5.2 percent and 12.4 percent, respectively, for summer and winter peak demand.

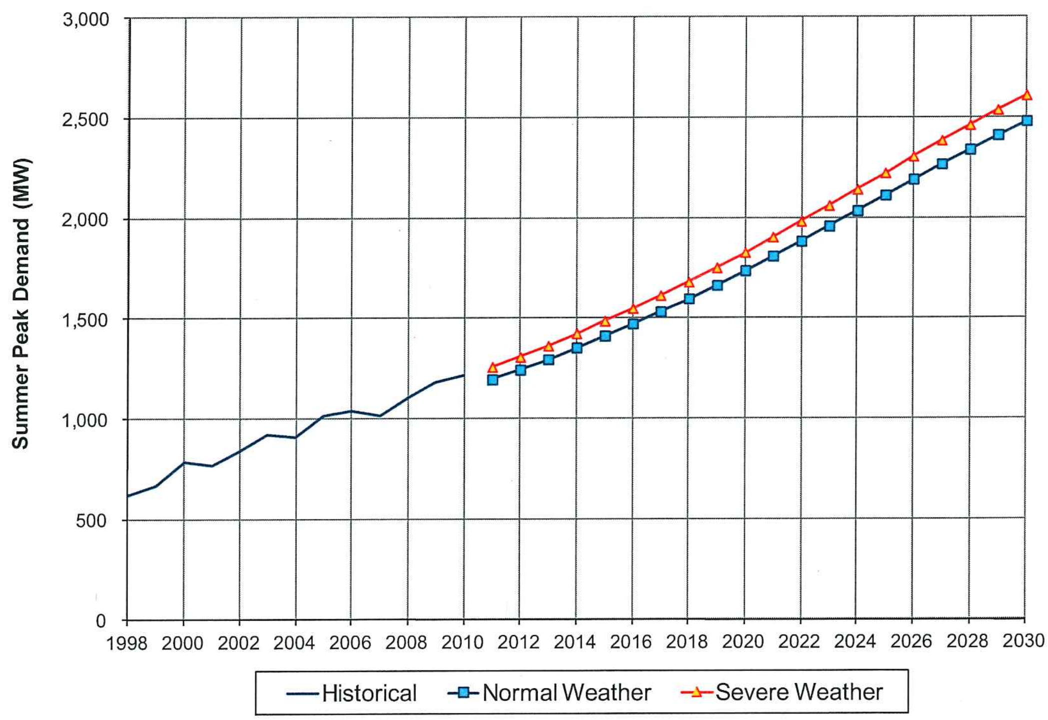

Figure 6-9: Normal v. Severe Summer Peak Demand

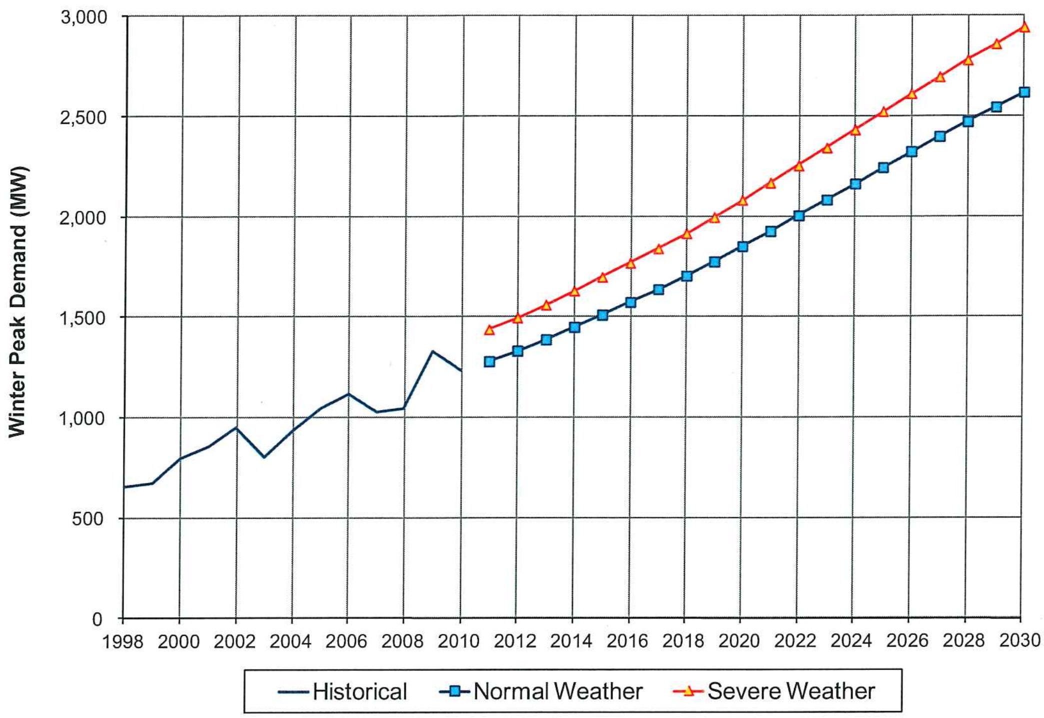

Figure 6-10: Normal v. Severe Winter Peak Demand

As the historical data shown in each figure correspond to a range of weather conditions from which assumptions for the Severe Weather Case were drawn, the historical variation can be seen to correlate closely to the differential between the Normal and Severe Weather forecasts. In particular, the historical winter peak demand data is significantly more volatile than the summer peak demands; this is consistent with the significantly larger differential between the Normal and Severe Weather forecast of winter peak demand than summer peak demand.

Table 6-2 below provides the historical and projected values for seasonal peak demand under the Base Case and the three scenarios discussed above—the High and Low Economic Growth Cases and the Severe Weather Case.

Table 6-2
Historical and Projected Peak Demand Data

	Summer Peak Demand				Winter Peak Demand			
Year	Base Case	High Economic Case	Low Economic Case	Severe Weather Case	Base Case	High Economic Case	Low Economic Case	Severe Weather Case
Historical								
2001	766.9				858.9			
2004	907.9				935.5			
2007	1,013.0				1,025.0			
2010	1,217.5				1,232.3			
Projected								
2011	1,196.4	1,225.2	1,167.6	1,258.6	1,279.8	1,326.0	1,233.4	1,438.5
2012	1,243.4	1,290.5	1,196.3	1,308.1	1,331.7	1,390.1	1,273.1	1,496.8
2013	1,295.6	1,354.6	1,236.3	1,362.9	1,388.2	1,459.0	1,317.3	1,560.4
2014	1,353.7	1,425.0	1,282.1	1,424.1	1,450.0	1,533.6	1,366.3	1,629.8
2015	1,412.9	1,496.8	1,328.7	1,486.3	1,511.2	1,607.8	1,414.2	1,698.5
2020	1,736.7	1,887.9	1,584.8	1,827.1	1,852.0	2,019.5	1,683.8	2,081.7
2025	2,112.9	2,344.7	1,879.3	2,222.8	2,244.6	2,497.5	1,989.9	2,522.9
2030	2,481.5	2,807.9	2,151.7	2,610.5	2,617.9	2,968.8	2,263.7	2,942.6

Exhibit A
DETAILED FORECAST RESULTS

Exhibit A-1

PEC 2011 Load Forecast - Base Case

Historical and Projected Energy Sales by Customer Class, NEL, and Demand - PEC w/o CENTEX

(Calendar Year 2001-2030)

		Residential						Non-residential		Spot Loads		TOTAL SALES		DISTRIB. LOSSES	TOTAL NEL		PEAK DEMAND			
	Calendar Year	Sales (MWh)	% Chg	Avg. Cust. (#)	% Chg	Sales/ Cust. (MWh)	% Chg	Sales (MWh)	% Chg	Sales (MWh)	% Chg	(MWh)	% Chg	(MW)	(MWh)	% Chg	Summer Peak (MW)	% Chg	Winter Peak[1] (MW)	% Chg
Historical	2001	2,329,326	-	144,730	-	16.1	-	821,357	-	0	-	3,150,683	-	85,641	3,236,324	-	766.9	-	858.9	-
	2002	2,415,447	3.7%	153,573	6.1%	15.7	-2.3%	884,625	7.7%	0	-	3,300,071	4.7%	192,348	3,492,419	7.9%	841.1	9.7%	950.6	10.7%
	2003	2,579,628	6.8%	161,553	5.2%	16.0	1.5%	936,744	5.9%	0	-	3,516,371	6.6%	153,025	3,669,396	5.1%	921.6	9.6%	805.9	-15.2%
	2004	2,594,570	0.6%	170,047	5.3%	15.3	-4.4%	981,067	4.7%	0	-	3,575,637	1.7%	191,073	3,766,710	2.7%	907.9	-1.5%	935.5	16.1%
	2005	2,829,912	9.1%	177,261	4.2%	16.0	4.6%	1,065,826	8.6%	0	-	3,895,738	9.0%	182,976	4,078,714	8.3%	1,013.9	11.7%	1,044.3	11.6%
	2006	2,943,517	4.0%	186,337	5.1%	15.8	-1.1%	1,123,369	5.4%	0	-	4,066,886	4.4%	146,184	4,213,070	3.3%	1,039.4	2.5%	1,118.3	7.1%
	2007	3,047,376	3.5%	195,612	5.0%	15.6	-1.4%	1,132,020	0.8%	0	-	4,179,397	2.8%	219,050	4,398,446	4.4%	1,013.0	-2.5%	1,025.0	-8.3%
	2008	3,227,419	5.9%	202,633	3.6%	15.9	2.2%	1,264,701	11.7%	0	-	4,492,121	7.5%	209,547	4,701,668	6.9%	1,103.3	8.9%	1,046.9	2.1%
	2009	3,295,203	2.1%	207,257	2.3%	15.9	-0.2%	1,252,916	-0.9%	0	-	4,548,119	1.2%	87,265	4,635,383	-1.4%	1,180.2	7.0%	1,329.6	27.0%
	2010	3,455,035	4.9%	211,541	2.1%	16.3	2.7%	1,324,870	5.7%	0	-	4,779,905	5.1%	155,295	4,935,200	6.5%	1,217.5	3.2%	1,232.3	-7.3%
Projected	2011	3,405,918	-1.4%	215,968	2.1%	15.8	-3.4%	1,359,513	2.6%	0	-	4,765,431	-0.3%	258,285	5,023,716	1.8%	1,196.4	-1.7%	1,279.8	3.9%
	2012	3,527,379	3.6%	221,419	2.5%	15.9	1.0%	1,438,153	5.8%	9,196	-	4,974,728	4.4%	247,392	5,222,120	3.9%	1,243.4	3.9%	1,331.7	4.1%
	2013	3,643,683	3.3%	227,346	2.7%	16.0	0.6%	1,520,033	5.7%	21,330	132.0%	5,185,046	4.2%	257,886	5,442,933	4.2%	1,295.6	4.2%	1,388.2	4.2%
	2014	3,769,984	3.5%	233,606	2.8%	16.1	0.7%	1,612,145	6.1%	36,495	71.1%	5,418,624	4.5%	269,615	5,688,239	4.5%	1,353.7	4.5%	1,450.0	4.5%
	2015	3,899,999	3.4%	240,053	2.8%	16.2	0.7%	1,707,599	5.9%	52,615	44.2%	5,660,213	4.5%	281,607	5,941,819	4.5%	1,412.9	4.4%	1,511.2	4.2%
	2016	4,031,746	3.4%	246,638	2.7%	16.3	0.6%	1,804,239	5.7%	67,358	28.0%	5,903,344	4.3%	293,667	6,197,010	4.3%	1,472.6	4.2%	1,574.1	4.2%
	2017	4,166,805	3.3%	253,429	2.8%	16.4	0.6%	1,902,582	5.5%	81,292	20.7%	6,150,679	4.2%	305,974	6,456,654	4.2%	1,533.4	4.1%	1,637.7	4.0%
	2018	4,305,665	3.3%	260,473	2.8%	16.5	0.5%	2,002,686	5.3%	100,069	23.1%	6,408,421	4.2%	318,895	6,727,316	4.2%	1,597.3	4.2%	1,704.8	4.1%
	2019	4,450,220	3.4%	267,692	2.8%	16.6	0.6%	2,109,802	5.3%	120,352	20.3%	6,680,374	4.2%	332,449	7,012,823	4.2%	1,664.5	4.2%	1,776.1	4.2%
	2020	4,600,941	3.4%	275,097	2.8%	16.7	0.6%	2,224,248	5.4%	147,014	22.2%	6,972,203	4.4%	347,060	7,319,263	4.4%	1,736.7	4.3%	1,852.0	4.3%
	2021	4,756,692	3.4%	282,769	2.8%	16.8	0.6%	2,342,219	5.3%	171,898	16.9%	7,270,810	4.3%	361,858	7,632,668	4.3%	1,810.0	4.2%	1,927.7	4.1%
	2022	4,913,585	3.3%	290,497	2.7%	16.9	0.6%	2,462,504	5.1%	196,251	14.2%	7,572,339	4.1%	376,843	7,949,182	4.1%	1,884.1	4.1%	2,004.9	4.0%
	2023	5,073,461	3.3%	298,392	2.7%	17.0	0.5%	2,584,754	5.0%	220,603	12.4%	7,878,818	4.0%	392,068	8,270,886	4.0%	1,959.3	4.0%	2,083.4	3.9%
	2024	5,236,655	3.2%	306,501	2.7%	17.1	0.5%	2,708,638	4.8%	245,629	11.3%	8,190,922	4.0%	407,514	8,598,437	4.0%	2,035.8	3.9%	2,163.3	3.8%
	2025	5,404,686	3.2%	314,824	2.7%	17.2	0.5%	2,837,324	4.8%	263,214	7.2%	8,505,224	3.8%	423,099	8,928,323	3.8%	2,112.9	3.8%	2,244.6	3.8%
	2026	5,577,690	3.2%	323,365	2.7%	17.2	0.5%	2,970,804	4.7%	279,511	6.2%	8,828,005	3.8%	439,171	9,267,176	3.8%	2,192.2	3.8%	2,323.5	3.5%
	2027	5,740,127	2.9%	331,312	2.5%	17.3	0.4%	3,102,012	4.4%	295,809	5.8%	9,137,948	3.5%	454,582	9,592,530	3.5%	2,268.0	3.5%	2,398.1	3.2%
	2028	5,893,070	2.7%	338,657	2.2%	17.4	0.4%	3,230,046	4.1%	312,999	5.8%	9,436,114	3.3%	469,358	9,905,472	3.3%	2,340.8	3.2%	2,472.2	3.1%
	2029	6,043,531	2.6%	345,773	2.1%	17.5	0.4%	3,357,713	4.0%	325,427	4.0%	9,726,672	3.1%	483,851	10,210,523	3.1%	2,412.0	3.0%	2,544.7	2.9%
	2030	6,191,825	2.5%	352,732	2.0%	17.6	0.4%	3,485,235	3.8%	335,632	3.1%	10,012,692	2.9%	498,013	10,510,705	2.9%	2,481.5	2.9%	2,617.9	2.9%
AAGR	2001-2010		4.5%		4.3%		0.2%		5.5%		-		4.7%			4.8%		5.3%		4.1%
	2011-2020		3.4%		2.7%		0.7%		5.6%		-		4.3%			4.3%		4.2%		4.2%
	2021-2030		3.0%		2.5%		0.5%		4.5%		7.7%		3.6%			3.6%		3.6%		3.5%

1 Winter peaks correspond to the period November of the current year to March of the succeeding year. The 2010 winter peak reflects a forecasted value, based on normal weather.

Exhibit A-1

PEC 2011 Load Forecast - High Growth Case

Historical and Projected Energy Sales by Customer Class, NEL, and Demand - PEC w/o CENTEX

(Calendar Year 2001-2030)

		Residential						Non-residential		Spot Loads		TOTAL SALES		DISTRIB. LOSSES	TOTAL NEL		PEAK DEMAND			
	Calendar Year	Sales (MWh)	% Chg	Avg. Cust. (#)	% Chg	Sales/ Cust. (MWh)	% Chg	Sales (MWh)	% Chg	Sales (MWh)	% Chg	(MWh)	% Chg	(MW)	(MWh)	% Chg	Summer Peak (MW)	% Chg	Winter Peak[1] (MW)	% Chg
Historical	2001	2,329,326	-	144,730	-	16.1	-	821,357	-	0	-	3,150,683	-	85,641	3,236,324	-	766.9	-	858.9	-
	2002	2,415,447	3.7%	153,573	6.1%	15.7	-2.3%	884,625	7.7%	0	-	3,300,071	4.7%	192,348	3,492,419	7.9%	841.1	9.7%	950.6	10.7%
	2003	2,579,628	6.8%	161,553	5.2%	16.0	1.5%	936,744	5.9%	0	-	3,516,371	6.6%	153,025	3,669,396	5.1%	921.6	9.6%	805.9	-15.2%
	2004	2,594,570	0.6%	170,047	5.3%	15.3	-4.4%	981,067	4.7%	0	-	3,575,637	1.7%	191,073	3,766,710	2.7%	907.9	-1.5%	935.5	16.1%
	2005	2,829,912	9.1%	177,261	4.2%	16.0	4.6%	1,065,826	8.6%	0	-	3,895,738	9.0%	182,976	4,078,714	8.3%	1,013.9	11.7%	1,044.3	11.6%
	2006	2,943,517	4.0%	186,337	5.1%	15.8	-1.1%	1,123,369	5.4%	0	-	4,066,886	4.4%	146,184	4,213,070	3.3%	1,039.4	2.5%	1,118.3	7.1%
	2007	3,047,376	3.5%	195,612	5.0%	15.6	-1.4%	1,132,020	0.8%	0	-	4,179,397	2.8%	219,050	4,398,446	4.4%	1,013.0	-2.5%	1,025.0	-8.3%
	2008	3,227,419	5.9%	202,633	3.6%	15.9	2.2%	1,264,701	11.7%	0	-	4,492,121	7.5%	209,547	4,701,668	6.9%	1,103.3	8.9%	1,046.9	2.1%
	2009	3,295,203	2.1%	207,257	2.3%	15.9	-0.2%	1,252,916	-0.9%	0	-	4,548,119	1.2%	87,265	4,635,383	-1.4%	1,180.2	7.0%	1,329.6	27.0%
	2010	3,455,035	4.9%	211,541	2.1%	16.3	2.7%	1,324,870	5.7%	0	-	4,779,905	5.1%	155,295	4,935,200	6.5%	1,217.5	3.2%	1,249.1	-6.1%
Projected	2011	3,480,998	0.8%	219,467	3.7%	15.9	-2.9%	1,388,878	4.8%	0	-	4,869,875	1.9%	264,039	5,133,914	4.0%	1,225.2	0.6%	1,326.0	6.2%
	2012	3,652,879	4.9%	226,851	3.4%	16.1	1.5%	1,499,970	8.0%	9,196	-	5,162,044	6.0%	256,761	5,418,805	5.5%	1,290.5	5.3%	1,390.1	4.8%
	2013	3,800,863	4.1%	234,454	3.4%	16.2	0.7%	1,598,554	6.6%	21,330	132.0%	5,420,747	5.0%	269,669	5,690,416	5.0%	1,354.6	5.0%	1,459.0	5.0%
	2014	3,957,824	4.1%	242,281	3.3%	16.3	0.8%	1,709,377	6.9%	36,495	71.1%	5,703,696	5.2%	283,865	5,987,561	5.2%	1,425.0	5.2%	1,533.6	5.1%
	2015	4,118,159	4.1%	250,239	3.3%	16.5	0.7%	1,825,295	6.8%	52,615	44.2%	5,996,069	5.1%	298,393	6,294,462	5.1%	1,496.8	5.0%	1,607.8	4.8%
	2016	4,280,258	3.9%	258,306	3.2%	16.6	0.7%	1,944,129	6.5%	67,358	28.0%	6,291,745	4.9%	313,083	6,604,828	4.9%	1,569.5	4.9%	1,684.5	4.8%
	2017	4,446,057	3.9%	266,574	3.2%	16.7	0.7%	2,066,447	6.3%	81,292	20.7%	6,593,795	4.8%	328,128	6,921,923	4.8%	1,643.8	4.7%	1,762.2	4.6%
	2018	4,616,273	3.8%	275,104	3.2%	16.8	0.6%	2,189,143	5.9%	100,069	23.1%	6,905,485	4.7%	343,732	7,249,217	4.7%	1,720.8	4.7%	1,842.8	4.6%
	2019	4,793,115	3.8%	283,824	3.2%	16.9	0.6%	2,318,313	5.9%	120,352	20.3%	7,231,779	4.7%	360,004	7,591,783	4.7%	1,801.5	4.7%	1,928.5	4.6%
	2020	4,977,204	3.8%	292,749	3.1%	17.0	0.7%	2,456,768	6.0%	147,014	22.2%	7,580,986	4.8%	377,485	7,958,471	4.8%	1,887.9	4.8%	2,019.5	4.7%
	2021	5,167,450	3.8%	301,973	3.2%	17.1	0.7%	2,600,433	5.8%	171,898	16.9%	7,939,781	4.7%	395,293	8,335,074	4.7%	1,975.9	4.7%	2,110.9	4.5%
	2022	5,359,692	3.7%	311,276	3.1%	17.2	0.6%	2,748,026	5.7%	196,251	14.2%	8,303,969	4.6%	413,412	8,717,381	4.6%	2,065.5	4.5%	2,204.4	4.4%
	2023	5,555,988	3.7%	320,777	3.1%	17.3	0.6%	2,899,162	5.5%	220,603	12.4%	8,675,753	4.5%	431,905	9,107,658	4.5%	2,156.8	4.4%	2,299.9	4.3%
	2024	5,756,757	3.6%	330,532	3.0%	17.4	0.6%	3,053,512	5.3%	245,629	11.3%	9,055,897	4.4%	450,756	9,506,653	4.4%	2,250.0	4.3%	2,397.5	4.2%
	2025	5,963,703	3.6%	340,541	3.0%	17.5	0.6%	3,214,730	5.3%	263,214	7.2%	9,441,647	4.3%	469,920	9,911,567	4.3%	2,344.7	4.2%	2,497.5	4.2%
	2026	6,177,063	3.6%	350,813	3.0%	17.6	0.5%	3,382,833	5.2%	279,511	6.2%	9,839,408	4.2%	489,747	10,329,155	4.2%	2,442.4	4.2%	2,595.5	3.9%
	2027	6,379,608	3.3%	360,468	2.8%	17.7	0.5%	3,549,803	4.9%	295,809	5.8%	10,225,220	3.9%	508,955	10,734,174	3.9%	2,536.7	3.9%	2,689.2	3.6%
	2028	6,572,415	3.0%	369,490	2.5%	17.8	0.5%	3,714,619	4.6%	312,999	5.8%	10,600,033	3.7%	527,571	11,127,604	3.7%	2,628.4	3.6%	2,782.7	3.5%
	2029	6,763,221	2.9%	378,282	2.4%	17.9	0.5%	3,880,458	4.5%	325,427	4.0%	10,969,106	3.5%	545,998	11,515,104	3.5%	2,718.7	3.4%	2,875.2	3.3%
	2030	6,952,350	2.8%	386,922	2.3%	18.0	0.5%	4,047,530	4.3%	335,632	3.1%	11,335,512	3.3%	564,189	11,899,701	3.3%	2,807.9	3.3%	2,968.8	3.3%
AAGR	2001-2010		4.5%		4.3%		0.2%		5.5%		-		4.7%			4.8%		5.3%		4.2%
	2011-2020		4.1%		3.3%		0.8%		6.5%		-		5.0%			5.0%		4.9%		4.8%
	2021-2030		3.4%		2.8%		0.5%		5.0%		7.7%		4.0%			4.0%		4.0%		3.9%

1 Winter peaks correspond to the period November of the current year to March of the succeeding year. The 2010 winter peak reflects a forecasted value, based on normal weather.

Exhibit A-1

PEC 2011 Load Forecast - Low Growth Case

Historical and Projected Energy Sales by Customer Class, NEL, and Demand - PEC w/o CENTEX

(Calendar Year 2001-2030)

	Calendar Year	Residential Sales (MWh)	% Chg	Residential Avg. Cust. (#)	% Chg	Residential Sales/ Cust. (MWh)	% Chg	Non-residential Sales (MWh)	% Chg	Spot Loads Sales (MWh)	% Chg	TOTAL SALES (MWh)	% Chg	DISTRIB. LOSSES (MW)	TOTAL NEL (MWh)	% Chg	PEAK DEMAND Summer Peak (MW)	% Chg	PEAK DEMAND Winter Peak[1] (MW)	% Chg
Historical	2001	2,329,326	-	144,730	-	16.1	-	821,357	-	0	-	3,150,683	-	85,641	3,236,324	-	766.9	-	858.9	-
	2002	2,415,447	3.7%	153,573	6.1%	15.7	-2.3%	884,625	7.7%	0	-	3,300,071	4.7%	192,348	3,492,419	7.9%	841.1	9.7%	950.6	10.7%
	2003	2,579,628	6.8%	161,553	5.2%	16.0	1.5%	936,744	5.9%	0	-	3,516,371	6.6%	153,025	3,669,396	5.1%	921.6	9.6%	805.9	-15.2%
	2004	2,594,570	0.6%	170,047	5.3%	15.3	-4.4%	981,067	4.7%	0	-	3,575,637	1.7%	191,073	3,766,710	2.7%	907.9	-1.5%	935.5	16.1%
	2005	2,829,912	9.1%	177,261	4.2%	16.0	4.6%	1,065,826	8.6%	0	-	3,895,738	9.0%	182,976	4,078,714	8.3%	1,013.9	11.7%	1,044.3	11.6%
	2006	2,943,517	4.0%	186,337	5.1%	15.8	-1.1%	1,123,369	5.4%	0	-	4,066,886	4.4%	146,184	4,213,070	3.3%	1,039.4	2.5%	1,118.3	7.1%
	2007	3,047,376	3.5%	195,612	5.0%	15.6	-1.4%	1,132,020	0.8%	0	-	4,179,397	2.8%	219,050	4,398,446	4.4%	1,013.0	-2.5%	1,025.0	-8.3%
	2008	3,227,419	5.9%	202,633	3.6%	15.9	2.2%	1,264,701	11.7%	0	-	4,492,121	7.5%	209,547	4,701,668	6.9%	1,103.3	8.9%	1,046.9	2.1%
	2009	3,295,203	2.1%	207,257	2.3%	15.9	-0.2%	1,252,916	-0.9%	0	-	4,548,119	1.2%	87,265	4,635,383	-1.4%	1,180.2	7.0%	1,329.6	27.0%
	2010	3,455,035	4.9%	211,541	2.1%	16.3	2.7%	1,324,870	5.7%	0	-	4,779,905	5.1%	155,295	4,935,200	6.5%	1,217.5	3.2%	1,215.5	-8.6%
Projected	2011	3,330,808	-3.6%	212,457	0.4%	15.7	-4.0%	1,329,976	0.4%	0	-	4,660,785	-2.5%	252,521	4,913,305	-0.4%	1,167.6	-4.1%	1,233.4	1.5%
	2012	3,401,893	2.1%	215,959	1.6%	15.8	0.5%	1,375,772	3.4%	9,196	-	4,786,860	2.7%	237,995	5,024,855	2.3%	1,196.3	2.5%	1,273.1	3.2%
	2013	3,486,729	2.5%	220,189	2.0%	15.8	0.5%	1,440,666	4.7%	21,330	132.0%	4,948,724	3.4%	246,071	5,194,795	3.4%	1,236.3	3.3%	1,317.3	3.5%
	2014	3,582,550	2.7%	224,862	2.1%	15.9	0.6%	1,513,683	5.1%	36,495	71.1%	5,132,728	3.7%	255,321	5,388,050	3.7%	1,282.1	3.7%	1,366.3	3.7%
	2015	3,682,403	2.8%	229,773	2.2%	16.0	0.6%	1,588,205	4.9%	52,615	44.2%	5,323,222	3.7%	264,759	5,587,982	3.7%	1,328.7	3.6%	1,414.2	3.5%
	2016	3,783,972	2.8%	234,849	2.2%	16.1	0.5%	1,662,080	4.7%	67,358	28.0%	5,513,410	3.6%	274,169	5,787,580	3.6%	1,375.4	3.5%	1,463.4	3.5%
	2017	3,888,466	2.8%	240,134	2.3%	16.2	0.5%	1,735,767	4.4%	81,292	20.7%	5,705,525	3.5%	283,713	5,989,237	3.5%	1,422.6	3.4%	1,512.8	3.4%
	2018	3,996,145	2.8%	245,662	2.3%	16.3	0.5%	1,812,614	4.4%	100,069	23.1%	5,908,828	3.6%	293,925	6,202,753	3.6%	1,473.2	3.6%	1,566.2	3.5%
	2019	4,108,613	2.8%	251,348	2.3%	16.3	0.5%	1,896,992	4.7%	120,352	20.3%	6,125,957	3.7%	304,735	6,430,692	3.7%	1,526.9	3.6%	1,623.1	3.6%
	2020	4,226,156	2.9%	257,196	2.3%	16.4	0.5%	1,986,626	4.7%	147,014	22.2%	6,359,797	3.8%	316,445	6,676,242	3.8%	1,584.8	3.8%	1,683.8	3.7%
	2021	4,347,635	2.9%	263,277	2.4%	16.5	0.5%	2,078,010	4.6%	171,898	16.9%	6,597,544	3.7%	328,198	6,925,742	3.7%	1,643.0	3.7%	1,743.6	3.6%
	2022	4,469,408	2.8%	269,392	2.3%	16.6	0.5%	2,170,024	4.4%	196,251	14.2%	6,835,683	3.6%	340,010	7,175,693	3.6%	1,701.5	3.6%	1,804.3	3.5%
	2023	4,593,104	2.8%	275,636	2.3%	16.7	0.4%	2,262,286	4.3%	220,603	12.4%	7,075,993	3.5%	351,923	7,427,916	3.5%	1,760.5	3.5%	1,865.6	3.4%
	2024	4,718,998	2.7%	282,055	2.3%	16.7	0.4%	2,354,463	4.1%	245,629	11.3%	7,319,090	3.4%	363,914	7,683,004	3.4%	1,820.1	3.4%	1,927.5	3.3%
	2025	4,848,379	2.7%	288,642	2.3%	16.8	0.4%	2,449,291	4.0%	263,214	7.2%	7,560,885	3.3%	375,864	7,936,749	3.3%	1,879.3	3.3%	1,989.9	3.2%
	2026	4,981,331	2.7%	295,400	2.3%	16.9	0.4%	2,546,672	4.0%	279,511	6.2%	7,807,514	3.3%	388,121	8,195,635	3.3%	1,940.0	3.2%	2,049.5	3.0%
	2027	5,103,982	2.5%	301,588	2.1%	16.9	0.4%	2,640,498	3.7%	295,809	5.8%	8,040,289	3.0%	399,667	8,439,956	3.0%	1,996.9	2.9%	2,104.7	2.7%
	2028	5,217,389	2.2%	307,202	1.9%	17.0	0.4%	2,730,015	3.4%	312,999	5.8%	8,260,403	2.7%	410,530	8,670,932	2.7%	2,050.6	2.7%	2,158.9	2.6%
	2029	5,327,852	2.1%	312,587	1.8%	17.0	0.4%	2,817,639	3.2%	325,427	4.0%	8,470,919	2.5%	421,009	8,891,928	2.5%	2,102.2	2.5%	2,211.0	2.4%
	2030	5,435,673	2.0%	317,807	1.7%	17.1	0.3%	2,903,592	3.1%	335,632	3.1%	8,674,897	2.4%	431,057	9,105,953	2.4%	2,151.7	2.4%	2,263.7	2.4%
AAGR	2001-2010		4.5%		4.3%		0.2%		5.5%		-		4.7%			4.8%		5.3%		3.9%
	2011-2020		2.7%		2.1%		0.5%		4.6%		-		3.5%			3.5%		3.5%		3.5%
	2021-2030		2.5%		2.1%		0.4%		3.8%		7.7%		3.1%			3.1%		3.0%		2.9%

1 Winter peaks correspond to the period November of the current year to March of the succeeding year. The 2010 winter peak reflects a forecasted value, based on normal weather.

Exhibit A-2

PEC 2011 Load Forecast

Historical and Projected System Peak Demand - Comparison of Scenarios

		Summer Peak (MW)							Winter Peak (MW) [1]						
	Year	Base	High Growth	Diff from Base	Low Growth	Diff from Base	Severe Weather	Diff from Base	Base	High Growth	Diff from Base	Low Growth	Diff from Base	Severe Weather	Diff from Base
Historical	2001	766.9							858.9						
	2002	841.1							950.6						
	2003	921.6							805.9						
	2004	907.9							935.5						
	2005	1,013.9							1,044.3						
	2006	1,039.4							1,118.3						
	2007	1,013.0							1,025.0						
	2008	1,103.3							1,046.9						
	2009	1,180.2							1,329.6						
	2010	1,217.5							1,232.3						
Projected	2011	1,196.4	1,225.2	2.4%	1,167.6	-2.4%	1,258.6	5.2%	1,279.8	1,326.0	3.6%	1,233.4	-3.6%	1,438.5	12.4%
	2012	1,243.4	1,290.5	3.8%	1,196.3	-3.8%	1,308.1	5.2%	1,331.7	1,390.1	4.4%	1,273.1	-4.4%	1,496.8	12.4%
	2013	1,295.6	1,354.6	4.6%	1,236.3	-4.6%	1,362.9	5.2%	1,388.2	1,459.0	5.1%	1,317.3	-5.1%	1,560.4	12.4%
	2014	1,353.7	1,425.0	5.3%	1,282.1	-5.3%	1,424.1	5.2%	1,450.0	1,533.6	5.8%	1,366.3	-5.8%	1,629.8	12.4%
	2015	1,412.9	1,496.8	5.9%	1,328.7	-6.0%	1,486.3	5.2%	1,511.2	1,607.8	6.4%	1,414.2	-6.4%	1,698.5	12.4%
	2016	1,472.6	1,569.5	6.6%	1,375.4	-6.6%	1,549.2	5.2%	1,574.1	1,684.5	7.0%	1,463.4	-7.0%	1,769.3	12.4%
	2017	1,533.4	1,643.8	7.2%	1,422.6	-7.2%	1,613.2	5.2%	1,637.7	1,762.2	7.6%	1,512.8	-7.6%	1,840.8	12.4%
	2018	1,597.3	1,720.8	7.7%	1,473.2	-7.8%	1,680.3	5.2%	1,704.8	1,842.8	8.1%	1,566.2	-8.1%	1,916.2	12.4%
	2019	1,664.5	1,801.5	8.2%	1,526.9	-8.3%	1,751.1	5.2%	1,776.1	1,928.5	8.6%	1,623.1	-8.6%	1,996.3	12.4%
	2020	1,736.7	1,887.9	8.7%	1,584.8	-8.7%	1,827.1	5.2%	1,852.0	2,019.5	9.0%	1,683.8	-9.1%	2,081.7	12.4%
	2021	1,810.0	1,975.9	9.2%	1,643.0	-9.2%	1,904.1	5.2%	1,927.7	2,110.9	9.5%	1,743.6	-9.5%	2,166.8	12.4%
	2022	1,884.1	2,065.5	9.6%	1,701.5	-9.7%	1,982.0	5.2%	2,004.9	2,204.4	9.9%	1,804.3	-10.0%	2,253.5	12.4%
	2023	1,959.3	2,156.8	10.1%	1,760.5	-10.1%	2,061.2	5.2%	2,083.4	2,299.9	10.4%	1,865.6	-10.5%	2,341.7	12.4%
	2024	2,035.8	2,250.0	10.5%	1,820.1	-10.6%	2,141.7	5.2%	2,163.3	2,397.5	10.8%	1,927.5	-10.9%	2,431.6	12.4%
	2025	2,112.9	2,344.7	11.0%	1,879.3	-11.1%	2,222.8	5.2%	2,244.6	2,497.5	11.3%	1,989.9	-11.3%	2,522.9	12.4%
	2026	2,192.2	2,442.4	11.4%	1,940.0	-11.5%	2,306.2	5.2%	2,323.5	2,595.5	11.7%	2,049.5	-11.8%	2,611.6	12.4%
	2027	2,268.0	2,536.7	11.8%	1,996.9	-12.0%	2,385.9	5.2%	2,398.1	2,689.2	12.1%	2,104.7	-12.2%	2,695.5	12.4%
	2028	2,340.8	2,628.4	12.3%	2,050.6	-12.4%	2,462.6	5.2%	2,472.2	2,782.7	12.6%	2,158.9	-12.7%	2,778.7	12.4%
	2029	2,412.0	2,718.7	12.7%	2,102.2	-12.8%	2,537.4	5.2%	2,544.7	2,875.2	13.0%	2,211.0	-13.1%	2,860.2	12.4%
	2030	2,481.5	2,807.9	13.2%	2,151.7	-13.3%	2,610.5	5.2%	2,617.9	2,968.8	13.4%	2,263.7	-13.5%	2,942.6	12.4%
AAGR	2001-2010	5.3%							4.1%						
	2011-2020	4.2%	4.9%		3.5%		4.2%		4.2%	4.8%		3.5%		4.2%	
	2021-2030	3.6%	4.0%		3.0%		3.6%		3.5%	3.9%		2.9%		3.5%	

[1] The winter peak correspond to the period November of the current year to March of the succeeding year. The 2010 winter peak reflects a forecasted value based on normal weather conditions. The actual 2010 winter peak of 1,386.7 MW occurred in February 2011, after the end of the study period.

Exhibit A-3
PEC 2011 Load Forecast - Base Case
Historical and Projected Load Determinants and Weather Conditions

	Retail Billing Data										System Net Requirements (Excluding Centex)					
	Customers			Retail Electricity Sales				Usage per Customer (kWh/Cust)			Energy Requirements				Peak Demand	
Month	Residential	Non-residential	Total	Residential	Non-residential	Spot Loads	Total	Residential	Non-residential	Total	Sales	Losses	Losses	Energy Requirements	Demand	Load Factor
	(#)	(#)	(#)	(MWh)	(MWh)	(MWh)	(MWh)	(kWh/Cust)	(kWh/Cust)	(kWh/Cust)	(MWh)	(MWh)	(%)	(MWh)	(MW)	(%)
Jan-00	125,908	12,762	138,670	168,862	52,214	-	221,076	1,341	4,091	1,594	221,076	(20,456)	-10.2%	200,619	648	41.6%
Feb-00	126,712	12,821	139,533	157,863	51,797	-	209,661	1,246	4,040	1,503	209,661	16,080	7.1%	225,740	674	48.1%
Mar-00	127,773	12,895	140,668	118,182	49,669	-	167,850	925	3,852	1,193	167,850	842	0.5%	168,692	406	55.9%
Apr-00	128,572	12,961	141,533	123,465	52,251	-	175,716	960	4,031	1,242	175,716	11,483	6.1%	187,199	460	56.5%
May-00	129,513	13,017	142,530	124,117	52,281	-	176,398	958	4,016	1,238	176,398	52,046	22.8%	228,444	615	49.9%
Jun-00	130,404	13,053	143,457	180,334	66,068	-	246,403	1,383	5,062	1,718	246,403	29,824	10.8%	276,227	590	65.0%
Jul-00	135,927	13,577	149,504	206,749	66,436	-	273,184	1,521	4,893	1,827	273,184	63,965	19.0%	337,149	732	61.9%
Aug-00	137,072	13,551	150,623	249,775	85,335	-	335,109	1,822	6,297	2,225	335,109	12,305	3.5%	347,414	730	64.0%
Sep-00	137,740	13,571	151,311	255,740	78,376	-	334,116	1,857	5,775	2,208	334,116	2,703	0.8%	336,819	786	59.5%
Oct-00	138,889	13,333	152,222	187,892	67,990	-	255,881	1,353	5,099	1,681	255,881	(48,851)	-23.6%	207,030	558	49.9%
Nov-00	139,441	13,288	152,729	77,174	55,604	-	132,778	553	4,184	869	132,778	104,798	44.1%	237,576	597	55.3%
Dec-00	140,020	13,285	153,305	168,599	56,828	-	225,427	1,204	4,278	1,470	225,427	53,887	19.3%	279,314	798	47.1%
Jan-01	140,871	13,062	153,933	240,292	63,973	-	304,264	1,706	4,898	1,977	304,264	28,521	8.6%	332,785	723	61.9%
Feb-01	141,024	13,948	154,972	218,632	65,394	-	284,025	1,550	4,688	1,833	284,025	(46,002)	-19.3%	238,023	632	56.0%
Mar-01	141,771	14,016	155,787	183,753	57,166	-	240,919	1,296	4,079	1,546	240,919	(37,540)	-18.5%	203,379	583	46.9%
Apr-01	143,254	13,253	156,507	154,686	55,318	-	210,004	1,080	4,174	1,342	210,004	6,518	3.0%	216,523	533	56.4%
May-01	143,716	13,421	157,137	147,319	58,185	-	205,504	1,025	4,335	1,308	205,504	21,688	9.5%	227,192	579	52.8%
Jun-01	144,090	14,228	158,318	177,541	73,934	-	251,474	1,232	5,196	1,588	251,474	56,434	18.3%	307,908	689	62.0%
Jul-01	145,109	14,321	159,430	217,176	76,527	-	293,703	1,497	5,344	1,842	293,703	56,042	16.0%	349,745	763	61.7%
Aug-01	146,266	14,418	160,684	265,888	80,647	-	346,534	1,818	5,593	2,157	346,534	38,663	10.0%	385,198	767	67.5%
Sep-01	146,733	14,487	161,220	249,444	86,239	-	335,682	1,700	5,953	2,082	335,682	(39,960)	-13.5%	295,723	740	55.5%
Oct-01	147,293	14,515	161,808	182,035	73,599	-	255,634	1,236	5,071	1,580	255,634	(46,123)	-22.0%	209,511	490	57.5%
Nov-01	148,017	14,593	162,610	139,476	70,123	-	209,599	942	4,805	1,289	209,599	(1,764)	-0.8%	207,835	454	63.6%
Dec-01	148,618	14,636	163,254	153,085	60,253	-	213,338	1,030	4,117	1,307	213,338	49,164	18.7%	262,502	765	46.1%
Jan-02	149,135	14,633	163,768	203,877	64,621	-	268,498	1,367	4,416	1,640	268,498	35,756	11.8%	304,254	819	49.9%
Feb-02	149,723	13,802	163,525	202,659	68,513	-	271,173	1,354	4,964	1,658	271,173	2,471	0.9%	273,644	715	56.9%
Mar-02	150,416	14,761	165,177	190,615	68,009	-	258,624	1,267	4,607	1,566	258,624	(17,067)	-7.1%	241,557	859	37.8%
Apr-02	151,931	14,947	166,878	157,379	65,638	-	223,016	1,036	4,391	1,336	223,016	12,972	5.5%	235,988	606	54.1%
May-02	151,953	14,952	166,905	169,007	67,164	-	236,171	1,112	4,492	1,415	236,171	43,883	15.7%	280,054	673	56.0%
Jun-02	153,858	14,992	168,850	204,455	83,605	-	288,060	1,329	5,577	1,706	288,060	52,890	15.5%	340,950	737	64.3%
Jul-02	154,080	15,016	169,096	230,562	79,348	-	309,911	1,496	5,284	1,833	309,911	6,270	2.0%	316,181	765	55.5%
Aug-02	154,774	15,099	169,873	249,042	86,014	-	335,056	1,609	5,697	1,972	335,056	52,258	13.5%	387,314	767	67.9%
Sep-02	155,566	15,142	170,708	270,042	88,208	-	358,249	1,736	5,825	2,099	358,249	(25,032)	-7.5%	333,217	841	55.0%
Oct-02	156,374	15,256	171,630	208,109	78,385	-	286,494	1,331	5,138	1,669	286,494	(32,299)	-12.7%	254,195	660	51.8%
Nov-02	157,158	15,377	172,535	160,303	72,450	-	232,754	1,020	4,712	1,349	232,754	2,467	1.0%	235,221	518	63.1%
Dec-02	157,912	15,465	173,377	169,396	62,669	-	232,065	1,073	4,052	1,339	232,065	57,780	19.9%	289,845	749	52.0%
Jan-03	158,047	15,549	173,596	214,479	66,464	-	280,944	1,357	4,274	1,618	280,944	40,999	12.7%	321,943	852	50.8%
Feb-03	158,769	15,786	174,555	231,555	71,533	-	303,088	1,458	4,531	1,736	303,088	(4,009)	-1.3%	299,079	907	49.1%
Mar-03	158,872	15,833	174,705	207,296	65,637	-	272,933	1,305	4,146	1,562	272,933	(24,219)	-9.7%	248,714	951	35.2%
Apr-03	159,451	15,917	175,368	160,080	66,850	-	226,930	1,004	4,200	1,294	226,930	9,842	4.2%	236,772	553	59.5%
May-03	160,310	16,011	176,321	169,865	79,842	-	249,707	1,060	4,987	1,416	249,707	51,407	17.1%	301,114	759	53.3%
Jun-03	160,980	16,032	177,012	223,147	78,819	-	301,965	1,386	4,916	1,706	301,965	42,991	12.5%	344,957	780	61.4%
Jul-03	161,370	16,099	177,469	239,605	84,760	-	324,365	1,485	5,265	1,828	324,365	41,345	11.3%	365,710	810	60.6%
Aug-03	163,472	16,201	179,673	290,640	94,071	-	384,711	1,778	5,806	2,141	384,711	17,481	4.3%	402,191	922	58.7%
Sep-03	163,075	16,207	179,282	271,017	90,207	-	361,223	1,662	5,566	2,015	361,223	(20,973)	-6.2%	340,251	816	57.9%
Oct-03	163,939	16,279	180,218	211,078	83,295	-	294,374	1,288	5,117	1,633	294,374	(36,835)	-14.3%	257,538	603	57.4%
Nov-03	165,014	16,344	181,358	174,196	79,930	-	254,126	1,056	4,890	1,401	254,126	2,792	1.1%	256,918	664	53.8%
Dec-03	165,332	16,383	181,715	186,671	75,336	-	262,007	1,129	4,598	1,442	262,007	32,204	10.9%	294,211	766	51.7%

Exhibit A-3
PEC 2011 Load Forecast - Base Case
Historical and Projected Load Determinants and Weather Conditions

Month	Retail Billing Data: Customers: Residential (#)	Customers: Non-residential (#)	Customers: Total (#)	Retail Electricity Sales: Residential (MWh)	Retail Electricity Sales: Non-residential (MWh)	Retail Electricity Sales: Spot Loads (MWh)	Retail Electricity Sales: Total (MWh)	Usage per Customer (kWh/Cust): Residential (kWh/Cust)	Usage per Customer: Non-residential (kWh/Cust)	Usage per Customer: Total (kWh/Cust)	System Net Requirements (Excluding Centex): Energy Requirements: Sales (MWh)	Energy Requirements: Losses (MWh)	Energy Requirements: Losses (%)	Energy Requirements: Energy Requirements (MWh)	Peak Demand: Demand (MW)	Peak Demand: Load Factor (%)
Jan-04	165,813	16,441	182,254	212,568	70,799	-	283,367	1,282	4,306	1,555	283,367	17,271	5.7%	300,637	806	50.1%
Feb-04	166,433	16,529	182,962	220,642	74,117	-	294,759	1,326	4,484	1,611	294,759	33,180	10.1%	327,938	803	58.7%
Mar-04	167,143	16,597	183,740	195,465	70,560	-	266,026	1,169	4,251	1,448	266,026	(34,171)	-14.7%	231,855	785	39.7%
Apr-04	167,549	16,621	184,170	154,133	74,967	-	229,100	920	4,510	1,244	229,100	10,341	4.3%	239,442	506	65.7%
May-04	168,787	16,699	185,486	161,674	73,200	-	234,874	958	4,383	1,266	234,874	30,660	11.5%	265,534	632	56.5%
Jun-04	170,232	16,772	187,004	221,392	82,514	-	303,906	1,301	4,920	1,625	303,906	65,716	17.8%	369,622	842	61.0%
Jul-04	170,725	16,865	187,590	257,210	92,864	-	350,074	1,507	5,506	1,866	350,074	24,924	6.6%	374,999	875	57.6%
Aug-04	171,008	16,899	187,907	293,358	98,769	-	392,127	1,715	5,845	2,087	392,127	5,902	1.5%	398,029	908	58.9%
Sep-04	172,721	17,046	189,767	265,496	97,362	-	362,857	1,537	5,712	1,912	362,857	9,728	2.6%	372,585	824	62.8%
Oct-04	172,907	17,060	189,967	232,327	94,083	-	326,411	1,344	5,515	1,718	326,411	(33,447)	-11.4%	292,964	691	57.0%
Nov-04	173,564	17,077	190,641	196,612	78,241	-	274,853	1,133	4,582	1,442	274,853	(3,792)	-1.4%	271,061	585	64.3%
Dec-04	173,684	17,054	190,738	183,694	73,589	-	257,283	1,058	4,315	1,349	257,283	64,761	20.1%	322,044	936	46.3%
Jan-05	174,121	17,092	191,213	247,571	83,278	-	330,849	1,422	4,872	1,730	330,849	(12,795)	-4.0%	318,054	866	49.3%
Feb-05	174,977	17,124	192,101	218,578	78,855	-	297,433	1,249	4,605	1,548	297,433	13,670	4.4%	311,103	734	63.1%
Mar-05	174,945	17,156	192,101	182,020	77,232	-	259,252	1,040	4,502	1,350	259,252	(15,089)	-6.2%	244,164	665	49.4%
Apr-05	175,034	17,199	192,233	166,913	79,710	-	246,623	954	4,635	1,283	246,623	6,934	2.7%	253,557	548	64.3%
May-05	176,449	17,318	193,767	167,469	81,029	-	248,498	949	4,679	1,282	248,498	39,272	13.6%	287,770	825	46.9%
Jun-05	176,737	17,383	194,120	241,689	97,808	-	339,497	1,368	5,627	1,749	339,497	62,627	15.6%	402,124	875	63.8%
Jul-05	176,741	17,371	194,112	313,546	100,412	-	413,957	1,774	5,780	2,133	413,957	20,432	4.7%	434,389	957	61.0%
Aug-05	178,602	17,514	196,116	311,433	101,430	-	412,864	1,744	5,791	2,105	412,864	22,787	5.2%	435,650	944	62.0%
Sep-05	178,901	17,583	196,484	305,827	109,280	-	415,108	1,709	6,215	2,113	415,108	23,936	5.5%	439,044	960	63.5%
Oct-05	179,447	17,632	197,079	273,254	93,342	-	366,596	1,523	5,294	1,860	366,596	(39,828)	-12.2%	326,768	1,014	43.3%
Nov-05	180,039	17,720	197,759	183,842	81,149	-	264,991	1,021	4,580	1,340	264,991	17,170	6.1%	282,161	690	56.8%
Dec-05	181,137	17,807	198,944	217,770	82,301	-	300,071	1,202	4,622	1,508	300,071	43,860	12.8%	343,931	1,044	44.3%
Jan-06	181,542	17,868	199,410	225,350	75,820	-	301,170	1,241	4,243	1,510	301,170	(13,698)	-4.8%	287,472	703	55.0%
Feb-06	182,048	17,921	199,969	197,283	78,849	-	276,133	1,084	4,400	1,381	276,133	45,938	14.3%	322,071	899	53.3%
Mar-06	183,712	18,017	201,729	199,791	83,004	-	282,795	1,088	4,607	1,402	282,795	(39,958)	-16.5%	242,837	740	44.1%
Apr-06	184,263	18,108	202,371	188,020	87,535	-	275,555	1,020	4,834	1,362	275,555	33,695	10.9%	309,250	852	50.4%
May-06	184,798	18,161	202,959	214,290	90,854	-	305,144	1,160	5,003	1,503	305,144	19,655	6.1%	324,799	831	52.5%
Jun-06	186,322	18,247	204,569	271,753	101,464	-	373,217	1,459	5,561	1,824	373,217	59,198	13.7%	432,415	980	61.3%
Jul-06	186,917	18,274	205,191	313,013	105,434	-	418,447	1,675	5,770	2,039	418,447	18,463	4.2%	436,911	1,011	58.1%
Aug-06	187,259	18,366	205,625	349,660	114,378	-	464,037	1,867	6,228	2,257	464,037	44,583	8.8%	508,620	1,039	65.8%
Sep-06	189,005	18,454	207,459	334,479	112,952	-	447,431	1,770	6,121	2,157	447,431	(34,250)	-8.3%	413,181	1,015	56.6%
Oct-06	189,215	18,561	207,776	246,202	97,799	-	344,001	1,301	5,269	1,656	344,001	(24,622)	-7.7%	319,380	790	54.3%
Nov-06	189,863	18,614	208,477	186,952	88,491	-	275,443	985	4,754	1,321	275,443	7,356	2.6%	282,799	654	60.0%
Dec-06	191,105	18,676	209,781	216,724	86,790	-	303,513	1,134	4,647	1,447	303,513	29,823	8.9%	333,336	919	48.7%
Jan-07	191,338	18,611	209,949	265,385	88,656	-	354,041	1,387	4,764	1,686	354,041	68,966	16.3%	423,006	1,058	53.7%
Feb-07	192,134	18,677	210,811	303,787	94,543	-	398,329	1,581	5,062	1,890	398,329	(16,257)	-4.3%	382,072	1,118	50.8%
Mar-07	193,054	18,752	211,806	210,195	85,919	-	296,114	1,089	4,582	1,398	296,114	(42,219)	-16.6%	253,895	813	42.0%
Apr-07	194,055	18,860	212,915	178,464	78,899	-	257,363	920	4,183	1,209	257,363	28,969	10.1%	286,332	770	51.6%
May-07	194,510	18,931	213,441	198,567	90,822	-	289,389	1,021	4,798	1,356	289,389	30,283	9.5%	319,672	760	56.5%
Jun-07	195,509	18,996	214,505	250,878	86,682	-	337,560	1,283	4,563	1,574	337,560	64,079	16.0%	401,639	929	60.1%
Jul-07	195,799	19,018	214,817	290,191	105,671	-	395,862	1,482	5,556	1,843	395,862	1,804	0.5%	397,667	914	58.5%
Aug-07	196,665	19,165	215,830	311,417	111,856	-	423,273	1,583	5,836	1,961	423,273	47,512	10.1%	470,786	1,013	62.5%
Sep-07	197,763	19,202	216,965	318,797	107,765	-	426,562	1,612	5,612	1,966	426,562	5,703	1.3%	432,266	951	63.1%
Oct-07	198,060	19,265	217,325	279,908	106,577	-	386,486	1,413	5,532	1,778	386,486	(11,702)	-3.1%	374,784	872	57.8%
Nov-07	199,010	19,361	218,371	208,924	88,325	-	297,249	1,050	4,562	1,361	297,249	5,065	1.7%	302,314	709	59.2%
Dec-07	199,448	19,414	218,862	230,863	86,305	-	317,168	1,158	4,445	1,449	317,168	36,846	10.4%	354,014	923	51.6%

Exhibit A-3

PEC 2011 Load Forecast - Base Case

Historical and Projected Load Determinants and Weather Conditions

Month	Retail Billing Data: Customers: Residential (#)	Customers: Non-residential (#)	Customers: Total (#)	Retail Electricity Sales: Residential (MWh)	Retail Electricity Sales: Non-residential (MWh)	Retail Electricity Sales: Spot Loads (MWh)	Retail Electricity Sales: Total (MWh)	Usage per Customer (kWh/Cust): Residential (kWh/Cust)	Usage per Customer: Non-residential (kWh/Cust)	Usage per Customer: Total (kWh/Cust)	System Net Requirements (Excluding Centex): Energy Requirements: Sales (MWh)	Energy Requirements: Losses (MWh)	Energy Requirements: Losses (%)	Energy Requirements: Energy Requirements (MWh)	Peak Demand: Demand (MW)	Peak Demand: Load Factor (%)
Jan-08	199,616	19,430	219,046	279,054	92,794	-	371,848	1,398	4,776	1,698	371,848	44,531	10.7%	416,379	1,025	54.6%
Feb-08	200,238	19,484	219,722	261,742	96,361	-	358,103	1,307	4,946	1,630	358,103	(19,511)	-5.8%	338,592	973	50.0%
Mar-08	200,880	19,556	220,436	212,353	91,707	-	304,059	1,057	4,689	1,379	304,059	(6,895)	-2.3%	297,164	855	46.7%
Apr-08	201,501	19,664	221,165	191,056	92,626	-	283,682	948	4,710	1,283	283,682	22,199	7.3%	305,881	767	55.4%
May-08	202,129	19,779	221,908	212,686	100,772	-	313,458	1,052	5,095	1,413	313,458	47,336	13.1%	360,794	1,002	48.4%
Jun-08	202,618	19,872	222,490	321,592	118,894	-	440,486	1,587	5,983	1,980	440,486	76,141	14.7%	516,627	1,081	66.4%
Jul-08	203,592	19,972	223,564	362,120	123,356	-	485,476	1,779	6,176	2,172	485,476	(918)	-0.2%	484,557	1,068	61.0%
Aug-08	203,456	20,053	223,509	365,551	122,619	-	488,170	1,797	6,115	2,184	488,170	26,454	5.1%	514,624	1,103	62.7%
Sep-08	203,808	20,128	223,936	331,308	121,775	-	453,083	1,626	6,050	2,023	453,083	(3,373)	-0.8%	449,710	1,027	60.8%
Oct-08	204,199	20,197	224,396	259,767	110,250	-	370,016	1,272	5,459	1,649	370,016	(34,337)	-10.2%	335,680	798	56.5%
Nov-08	204,543	20,244	224,787	199,150	99,566	-	298,716	974	4,918	1,329	298,716	5,698	1.9%	304,413	634	66.7%
Dec-08	205,017	20,292	225,309	231,041	93,981	-	325,022	1,127	4,631	1,443	325,022	52,222	13.8%	377,245	1,047	48.4%
Jan-09	205,211	20,301	225,512	272,673	91,785	-	364,458	1,329	4,521	1,616	364,458	1,340	0.4%	365,798	944	52.1%
Feb-09	205,464	20,310	225,774	250,047	94,798	-	344,845	1,217	4,668	1,527	344,845	(7,284)	-2.2%	337,561	1,008	49.8%
Mar-09	205,934	20,332	226,266	208,202	92,179	-	300,381	1,011	4,534	1,328	300,381	(7,790)	-2.7%	292,591	797	49.3%
Apr-09	206,230	20,404	226,634	192,915	90,050	-	282,965	935	4,413	1,249	282,965	15,171	5.1%	298,136	733	56.5%
May-09	206,586	20,473	227,059	227,418	103,829	-	331,247	1,101	5,072	1,459	331,247	33,129	9.1%	364,376	919	53.3%
Jun-09	207,002	20,517	227,519	300,128	113,161	-	413,290	1,450	5,515	1,817	413,290	(11,075)	-2.8%	402,215	1,148	48.7%
Jul-09	207,554	20,535	228,089	400,629	124,555	-	525,184	1,930	6,065	2,303	525,184	20,623	3.8%	545,807	1,180	62.2%
Aug-09	207,924	20,568	228,492	402,070	128,884	-	530,954	1,934	6,266	2,324	530,954	35,432	6.3%	566,386	1,150	66.2%
Sep-09	208,338	20,570	228,908	348,461	119,970	-	468,431	1,673	5,832	2,046	468,431	(41,874)	-9.8%	426,557	1,102	53.8%
Oct-09	208,532	20,576	229,108	238,525	104,041	-	342,567	1,144	5,056	1,495	342,567	(14,607)	-4.5%	327,960	888	49.6%
Nov-09	208,963	20,596	229,559	193,831	93,870	-	287,702	928	4,558	1,253	287,702	12,330	4.1%	300,032	660	63.1%
Dec-09	209,344	20,606	229,950	260,303	95,793	-	356,095	1,243	4,649	1,549	356,095	51,869	12.7%	407,965	1,071	51.2%
Jan-10	209,512	20,640	230,152	336,054	101,110	-	437,165	1,604	4,899	1,899	437,165	23,753	5.2%	460,918	1,330	46.6%
Feb-10	209,632	20,639	230,271	310,773	104,329	-	415,102	1,482	5,055	1,803	415,102	47,007	10.2%	462,109	1,057	65.1%
Mar-10	210,232	20,696	230,928	274,177	97,474	-	371,651	1,304	4,710	1,609	371,651	(67,822)	-22.3%	303,829	964	42.4%
Apr-10	210,712	20,753	231,465	195,146	96,298	-	291,444	926	4,640	1,259	291,444	6,191	2.1%	297,635	645	64.1%
May-10	211,097	20,775	231,872	209,833	104,596	-	314,429	994	5,035	1,356	314,429	39,860	11.3%	354,290	869	54.8%
Jun-10	211,392	20,819	232,211	308,411	120,405	-	428,816	1,459	5,783	1,847	428,816	59,756	12.2%	488,571	1,032	65.8%
Jul-10	212,432	20,816	233,248	353,915	123,202	-	477,117	1,666	5,919	2,046	477,117	14,650	3.0%	491,767	1,086	60.9%
Aug-10	212,212	20,841	233,053	385,606	132,120	-	517,726	1,817	6,339	2,221	517,726	52,019	9.1%	569,745	1,217	62.9%
Sep-10	212,500	20,856	233,356	374,129	130,590	-	504,719	1,761	6,262	2,163	504,719	(25,955)	-5.4%	478,763	1,099	60.5%
Oct-10	212,743	20,881	233,624	251,201	112,246	-	363,447	1,181	5,376	1,556	363,447	(25,126)	-7.4%	338,321	831	54.7%
Nov-10	212,910	20,908	233,818	208,208	103,348	-	311,556	978	4,943	1,332	311,556	12,107	3.7%	323,663	749	60.0%
Dec-10	213,123	20,901	234,024	247,581	99,152	-	346,732	1,162	4,744	1,482	346,732	18,856	5.2%	365,588	946	51.9%
Jan-11	213,896	18,730	232,626	297,342	101,795	-	399,137	1,390	5,435	1,716	399,137	41,223	9.4%	440,360	1,232	48.0%
Feb-11	214,019	18,787	232,806	309,244	105,959	-	415,203	1,445	5,640	1,783	415,203	(15,933)	-4.0%	399,270	1,189	50.0%
Mar-11	214,631	18,855	233,486	255,535	100,879	-	356,415	1,191	5,350	1,526	356,415	(28,669)	-8.7%	327,745	886	49.7%
Apr-11	215,121	18,923	234,044	215,310	100,729	-	316,040	1,001	5,323	1,350	316,040	8,508	2.6%	324,548	798	56.5%
May-11	215,514	18,992	234,506	214,519	105,672	-	320,190	995	5,564	1,365	320,190	48,000	13.0%	368,190	911	54.3%
Jun-11	215,816	19,061	234,877	273,648	116,769	-	390,417	1,268	6,126	1,662	390,417	93,998	19.4%	484,414	1,100	61.2%
Jul-11	216,877	19,130	236,008	342,599	128,343	-	470,942	1,580	6,709	1,995	470,942	48,896	9.4%	519,838	1,122	62.3%
Aug-11	216,653	19,200	235,853	375,885	134,977	-	510,862	1,735	7,030	2,166	510,862	39,990	7.3%	550,852	1,196	61.9%
Sep-11	216,947	19,269	236,216	349,455	131,748	-	481,203	1,611	6,837	2,037	481,203	(3,494)	-0.7%	477,709	1,141	58.2%
Oct-11	217,195	19,339	236,534	277,491	118,702	-	396,192	1,278	6,138	1,675	396,192	(41,589)	-11.7%	354,603	874	54.5%
Nov-11	217,365	19,409	236,774	225,380	107,608	-	332,988	1,037	5,544	1,406	332,988	15,580	4.5%	348,568	841	57.6%
Dec-11	217,583	19,478	237,061	269,511	106,331	-	375,842	1,239	5,459	1,585	375,842	51,776	12.1%	427,618	1,165	49.3%

Exhibit A-3

PEC 2011 Load Forecast - Base Case

Historical and Projected Load Determinants and Weather Conditions

Month	Retail Billing Data										System Net Requirements (Excluding Centex)					
	Customers			Retail Electricity Sales				Usage per Customer (kWh/Cust)			Energy Requirements				Peak Demand	
	Residential	Non-residential	Total	Residential	Non-residential	Spot Loads	Total	Residential	Non-residential	Total	Sales	Losses	Losses	Energy Requirements	Demand	Load Factor
	(#)	(#)	(#)	(MWh)	(MWh)	(MWh)	(MWh)	(kWh/Cust)	(kWh/Cust)	(kWh/Cust)	(MWh)	(MWh)	(%)	(MWh)	(MW)	(%)
Jan-12	219,295	19,548	238,843	326,448	109,037	-	435,485	1,489	5,578	1,823	435,485	21,850	4.8%	457,336	1,280	48.0%
Feb-12	219,421	19,619	239,039	318,600	112,365	-	430,966	1,452	5,727	1,803	430,966	(16,538)	-4.0%	414,428	1,192	50.0%
Mar-12	220,049	19,689	239,738	262,981	106,710	-	369,691	1,195	5,420	1,542	369,691	(29,737)	-8.7%	339,953	919	49.7%
Apr-12	220,551	19,759	240,310	221,237	106,577	801	328,614	1,003	5,394	1,367	328,614	8,847	2.6%	337,461	830	56.5%
May-12	220,954	19,830	240,784	220,211	111,718	820	332,749	997	5,634	1,382	332,749	49,883	13.0%	382,632	947	54.3%
Jun-12	221,263	19,900	241,163	281,121	123,416	1,009	405,546	1,271	6,202	1,682	405,546	97,640	19.4%	503,187	1,142	61.2%
Jul-12	222,351	19,970	242,322	352,344	135,595	1,231	489,170	1,585	6,790	2,019	489,170	50,788	9.4%	539,959	1,166	62.3%
Aug-12	222,121	20,041	242,162	387,107	142,562	1,279	530,948	1,743	7,114	2,193	530,948	41,562	7.3%	572,510	1,243	61.9%
Sep-12	222,422	20,111	242,533	360,508	139,110	1,252	500,870	1,621	6,917	2,065	500,870	(3,636)	-0.7%	497,234	1,188	58.2%
Oct-12	222,677	20,181	242,858	286,455	125,303	1,172	412,930	1,286	6,209	1,700	412,930	(43,346)	-11.7%	369,584	911	54.5%
Nov-12	222,852	20,252	243,103	232,495	113,565	778	346,839	1,043	5,608	1,427	346,839	16,228	4.5%	363,066	876	57.6%
Dec-12	223,075	20,322	243,397	277,871	112,194	854	390,919	1,246	5,521	1,606	390,919	53,853	12.1%	444,772	1,212	49.3%
Jan-13	225,165	20,393	245,558	337,097	115,077	962	453,135	1,497	5,643	1,845	453,135	22,736	4.8%	475,871	1,332	48.0%
Feb-13	225,294	20,464	245,757	329,014	118,619	1,009	448,642	1,460	5,797	1,826	448,642	(17,217)	-4.0%	431,425	1,285	50.0%
Mar-13	225,939	20,534	246,473	271,593	112,678	968	385,239	1,202	5,487	1,563	385,239	(30,988)	-8.7%	354,251	958	49.7%
Apr-13	226,454	20,605	247,060	228,496	112,566	1,601	342,664	1,009	5,463	1,387	342,664	9,225	2.6%	351,888	865	56.5%
May-13	226,868	20,676	247,544	227,451	118,027	1,640	347,118	1,003	5,708	1,402	347,118	52,037	13.0%	399,155	988	54.3%
Jun-13	227,185	20,747	247,932	290,382	130,420	2,017	422,819	1,278	6,286	1,705	422,819	101,799	19.4%	524,618	1,191	61.2%
Jul-13	228,303	20,818	249,121	363,973	143,327	2,463	509,763	1,594	6,885	2,046	509,763	52,926	9.4%	562,689	1,215	62.3%
Aug-13	228,066	20,889	248,955	399,908	150,731	2,558	553,197	1,753	7,216	2,222	553,197	43,303	7.3%	596,501	1,296	61.9%
Sep-13	228,376	20,960	249,336	372,451	147,121	2,504	522,076	1,631	7,019	2,094	522,076	(3,790)	-0.7%	518,286	1,238	58.2%
Oct-13	228,637	21,031	249,668	295,963	132,553	2,344	430,860	1,294	6,303	1,726	430,860	(45,228)	-11.7%	385,631	951	54.5%
Nov-13	228,817	21,101	249,918	240,227	120,167	1,556	361,950	1,050	5,695	1,448	361,950	16,935	4.5%	378,884	914	57.6%
Dec-13	229,046	21,172	250,218	287,129	118,746	1,709	407,583	1,254	5,609	1,629	407,583	56,149	12.1%	463,732	1,264	49.3%
Jan-14	231,365	21,244	252,609	348,620	121,837	1,923	472,380	1,507	5,735	1,870	472,380	23,701	4.8%	496,081	1,388	48.0%
Feb-14	231,498	21,316	252,814	340,289	125,628	2,018	467,935	1,470	5,894	1,851	467,935	(17,957)	-4.0%	449,978	1,340	50.0%
Mar-14	232,160	21,387	253,548	280,925	119,373	1,936	402,234	1,210	5,581	1,586	402,234	(32,355)	-8.7%	369,879	1,000	49.7%
Apr-14	232,690	21,459	254,150	236,367	119,292	2,667	358,327	1,016	5,559	1,410	358,327	9,646	2.6%	367,973	905	56.5%
May-14	233,116	21,531	254,647	235,306	125,119	2,732	363,156	1,009	5,811	1,426	363,156	54,441	13.0%	417,597	1,034	54.3%
Jun-14	233,441	21,603	255,044	300,435	138,299	3,361	442,094	1,287	6,402	1,733	442,094	106,440	19.4%	548,534	1,245	61.2%
Jul-14	234,590	21,674	256,264	376,605	152,031	4,102	532,739	1,605	7,014	2,079	532,739	55,312	9.4%	588,051	1,270	62.3%
Aug-14	234,347	21,746	256,093	413,822	159,933	4,262	578,017	1,766	7,355	2,257	578,017	45,246	7.3%	623,263	1,354	61.9%
Sep-14	234,665	21,818	256,483	385,442	156,148	4,172	545,762	1,643	7,157	2,128	545,762	(3,962)	-0.7%	541,799	1,294	58.2%
Oct-14	234,933	21,890	256,823	306,311	140,728	3,896	450,935	1,304	6,429	1,756	450,935	(47,336)	-11.7%	403,599	995	54.5%
Nov-14	235,118	21,961	257,079	248,646	127,615	2,586	378,848	1,058	5,811	1,474	378,848	17,725	4.5%	396,573	957	57.6%
Dec-14	235,353	22,033	257,386	297,216	126,142	2,840	426,199	1,263	5,725	1,656	426,199	58,713	12.1%	484,912	1,322	49.3%
Jan-15	237,750	22,106	259,856	360,850	129,367	3,197	493,414	1,518	5,852	1,899	493,414	24,757	4.8%	518,170	1,450	48.0%
Feb-15	237,887	22,179	260,065	352,190	133,332	3,355	488,877	1,480	6,012	1,880	488,877	(18,761)	-4.0%	470,116	1,400	50.0%
Mar-15	238,568	22,251	260,819	290,719	126,637	3,218	420,574	1,219	5,691	1,613	420,574	(33,830)	-8.7%	386,744	1,046	49.7%
Apr-15	239,112	22,324	261,437	244,582	126,496	3,733	374,812	1,023	5,666	1,434	374,812	10,090	2.6%	384,902	947	56.5%
May-15	239,549	22,397	261,946	243,458	132,617	3,824	379,899	1,016	5,921	1,450	379,899	56,951	13.0%	436,850	1,081	54.3%
Jun-15	239,884	22,470	262,354	310,812	146,524	4,704	462,040	1,296	6,521	1,761	462,040	111,242	19.4%	573,282	1,302	61.2%
Jul-15	241,064	22,543	263,607	389,573	161,005	5,742	556,320	1,616	7,142	2,110	556,320	57,760	9.4%	614,081	1,326	62.3%
Aug-15	240,814	22,616	263,430	428,027	169,302	5,965	603,294	1,777	7,486	2,290	603,294	47,225	7.3%	650,519	1,413	61.9%
Sep-15	241,141	22,688	263,830	398,632	165,228	5,839	569,698	1,653	7,282	2,159	569,698	(4,136)	-0.7%	565,562	1,351	58.2%
Oct-15	241,417	22,761	264,178	316,760	148,850	5,449	471,059	1,312	6,540	1,783	471,059	(49,448)	-11.7%	421,611	1,039	54.5%
Nov-15	241,606	22,834	264,441	257,103	134,926	3,616	395,645	1,064	5,909	1,496	395,645	18,511	4.5%	414,156	999	57.6%
Dec-15	241,848	22,907	264,755	307,293	133,315	3,972	444,580	1,271	5,820	1,679	444,580	61,245	12.1%	505,825	1,379	49.3%

Exhibit A-3
PEC 2011 Load Forecast - Base Case
Historical and Projected Load Determinants and Weather Conditions

Month	Retail Billing Data										System Net Requirements (Excluding Centex)					
	Customers			Retail Electricity Sales				Usage per Customer (kWh/Cust)			Energy Requirements				Peak Demand	
	Residential	Non-residential	Total	Residential	Non-residential	Spot Loads	Total	Residential	Non-residential	Total	Sales	Losses	Losses	Energy Requirements	Demand	Load Factor
	(#)	(#)	(#)	(MWh)	(MWh)	(MWh)	(MWh)	(kWh/Cust)	(kWh/Cust)	(kWh/Cust)	(MWh)	(MWh)	(%)	(MWh)	(MW)	(%)
Jan-16	244,272	22,979	267,251	373,026	136,717	4,470	514,214	1,527	5,950	1,924	514,214	25,800	4.8%	540,014	1,511	48.0%
Feb-16	244,412	23,051	267,463	364,077	140,902	4,859	509,838	1,490	6,113	1,906	509,838	(19,565)	-4.0%	490,273	1,410	50.0%
Mar-16	245,111	23,123	268,234	300,533	133,823	4,500	438,855	1,226	5,787	1,636	438,855	(35,301)	-8.7%	403,554	1,091	49.7%
Apr-16	245,671	23,195	268,866	252,840	133,668	4,663	391,172	1,029	5,763	1,455	391,172	10,531	2.6%	401,702	988	56.5%
May-16	246,120	23,267	269,387	251,680	140,131	4,776	396,587	1,023	6,023	1,472	396,587	59,453	13.0%	456,040	1,129	54.3%
Jun-16	246,464	23,339	269,802	321,310	154,820	5,876	482,006	1,304	6,634	1,787	482,006	116,049	19.4%	598,055	1,358	61.2%
Jul-16	247,676	23,411	271,087	402,734	170,115	7,172	580,021	1,626	7,267	2,140	580,021	60,221	9.4%	640,243	1,382	62.3%
Aug-16	247,420	23,483	270,902	442,490	178,875	7,451	628,816	1,788	7,617	2,321	628,816	49,223	7.3%	678,039	1,473	61.9%
Sep-16	247,756	23,554	271,310	412,105	174,563	7,293	593,961	1,663	7,411	2,189	593,961	(4,312)	-0.7%	589,649	1,408	58.2%
Oct-16	248,039	23,626	271,666	327,469	157,254	6,812	491,534	1,320	6,656	1,809	491,534	(51,597)	-11.7%	439,937	1,085	54.5%
Nov-16	248,234	23,698	271,932	265,796	142,539	4,521	412,856	1,071	6,015	1,518	412,856	19,317	4.5%	432,172	1,042	57.6%
Dec-16	248,482	23,770	272,253	317,686	140,833	4,965	463,484	1,279	5,925	1,702	463,484	63,849	12.1%	527,333	1,437	49.3%
Jan-17	250,998	23,841	274,839	385,656	144,386	5,589	535,631	1,536	6,056	1,949	535,631	26,875	4.8%	562,506	1,574	48.0%
Feb-17	251,142	23,912	275,054	376,380	148,765	5,865	531,010	1,499	6,221	1,931	531,010	(20,377)	-4.0%	510,632	1,521	50.0%
Mar-17	251,860	23,983	275,843	310,669	141,252	5,626	457,546	1,233	5,890	1,659	457,546	(36,804)	-8.7%	420,742	1,138	49.7%
Apr-17	252,435	24,053	276,489	261,351	141,051	5,593	407,995	1,035	5,864	1,476	407,995	10,984	2.6%	418,978	1,030	56.5%
May-17	252,897	24,124	277,021	260,135	147,831	5,729	413,694	1,029	6,128	1,493	413,694	62,017	13.0%	475,712	1,177	54.3%
Jun-17	253,250	24,195	277,445	332,084	163,284	7,047	502,415	1,311	6,749	1,811	502,415	120,963	19.4%	623,378	1,415	61.2%
Jul-17	254,496	24,266	278,762	416,212	179,368	8,602	604,183	1,635	7,392	2,167	604,183	62,730	9.4%	666,912	1,440	62.3%
Aug-17	254,233	24,337	278,569	457,270	188,556	8,936	654,762	1,799	7,748	2,350	654,762	51,254	7.3%	706,016	1,533	61.9%
Sep-17	254,578	24,407	278,985	425,844	183,964	8,747	618,554	1,673	7,537	2,217	618,554	(4,491)	-0.7%	614,064	1,467	58.2%
Oct-17	254,869	24,478	279,347	338,365	165,681	8,175	512,220	1,328	6,769	1,834	512,220	(53,769)	-11.7%	458,451	1,130	54.5%
Nov-17	255,069	24,549	279,618	274,623	150,140	5,426	430,188	1,077	6,116	1,538	430,188	20,127	4.5%	450,316	1,086	57.6%
Dec-17	255,324	24,620	279,944	328,216	148,305	5,959	482,480	1,285	6,024	1,723	482,480	66,466	12.1%	548,947	1,496	49.3%
Jan-18	257,974	24,688	282,663	398,536	152,038	6,707	557,280	1,545	6,158	1,972	557,280	27,961	4.8%	585,242	1,638	48.0%
Feb-18	258,122	24,757	282,879	388,944	156,638	7,039	552,621	1,507	6,327	1,954	552,621	(21,207)	-4.0%	531,414	1,583	50.0%
Mar-18	258,861	24,825	283,686	321,036	148,718	6,751	476,505	1,240	5,991	1,680	476,505	(38,329)	-8.7%	438,175	1,185	49.7%
Apr-18	259,452	24,893	284,346	270,069	148,496	6,928	425,494	1,041	5,965	1,496	425,494	11,455	2.6%	436,948	1,075	56.5%
May-18	259,926	24,962	284,888	268,809	155,624	7,096	431,530	1,034	6,234	1,515	431,530	64,691	13.0%	496,221	1,228	54.3%
Jun-18	260,289	25,030	285,320	343,153	171,882	8,730	523,764	1,318	6,867	1,836	523,764	126,103	19.4%	649,867	1,476	61.2%
Jul-18	261,570	25,099	286,669	430,080	188,801	10,656	629,537	1,644	7,522	2,196	629,537	65,362	9.4%	694,899	1,500	62.3%
Aug-18	261,299	25,167	286,466	472,500	198,459	11,070	682,030	1,808	7,886	2,381	682,030	53,388	7.3%	735,418	1,597	61.9%
Sep-18	261,654	25,236	286,889	440,021	193,614	10,836	644,471	1,682	7,672	2,246	644,471	(4,679)	-0.7%	639,792	1,528	58.2%
Oct-18	261,953	25,304	287,257	349,626	174,362	10,138	534,126	1,335	6,891	1,859	534,126	(56,068)	-11.7%	478,057	1,179	54.5%
Nov-18	262,158	25,373	287,531	283,759	157,997	6,729	448,485	1,082	6,227	1,560	448,485	20,984	4.5%	469,468	1,132	57.6%
Dec-18	262,421	25,441	287,862	339,131	156,057	7,390	502,579	1,292	6,134	1,746	502,579	69,235	12.1%	571,814	1,558	49.3%
Jan-19	265,124	25,508	290,632	411,782	160,014	8,318	580,113	1,553	6,273	1,996	580,113	29,107	4.8%	609,220	1,705	48.0%
Feb-19	265,276	25,575	290,851	401,896	164,885	8,729	575,510	1,515	6,447	1,979	575,510	(22,085)	-4.0%	553,425	1,649	50.0%
Mar-19	266,035	25,642	291,677	331,745	156,575	8,373	496,693	1,247	6,106	1,703	496,693	(39,953)	-8.7%	456,740	1,235	49.7%
Apr-19	266,643	25,709	292,352	279,095	156,369	8,263	443,728	1,047	6,082	1,518	443,728	11,946	2.6%	455,674	1,121	56.5%
May-19	267,130	25,776	292,906	277,810	163,903	8,464	450,177	1,040	6,359	1,537	450,177	67,486	13.0%	517,664	1,281	54.3%
Jun-19	267,503	25,843	293,346	354,663	181,057	10,413	546,132	1,326	7,006	1,862	546,132	131,488	19.4%	677,621	1,539	61.2%
Jul-19	268,819	25,910	294,729	444,533	198,913	12,710	656,155	1,654	7,677	2,226	656,155	68,126	9.4%	724,281	1,564	62.3%
Aug-19	268,541	25,977	294,518	488,407	209,124	13,204	710,734	1,819	8,050	2,413	710,734	55,635	7.3%	766,369	1,664	61.9%
Sep-19	268,905	26,044	294,949	454,861	204,052	12,924	671,837	1,692	7,835	2,278	671,837	(4,878)	-0.7%	666,959	1,593	58.2%
Oct-19	269,213	26,111	295,324	361,437	183,792	12,101	557,331	1,343	7,039	1,887	557,331	(58,504)	-11.7%	498,827	1,230	54.5%
Nov-19	269,424	26,178	295,602	293,363	166,569	8,032	467,963	1,089	6,363	1,583	467,963	21,895	4.5%	489,858	1,182	57.6%
Dec-19	269,694	26,245	295,939	350,629	164,551	8,821	524,000	1,300	6,270	1,771	524,000	72,186	12.1%	596,187	1,625	49.3%

Exhibit A-3
PEC 2011 Load Forecast - Base Case
Historical and Projected Load Determinants and Weather Conditions

Month	Retail Billing Data										System Net Requirements (Excluding Centex)					
	Customers			Retail Electricity Sales				Usage per Customer (kWh/Cust)			Energy Requirements				Peak Demand	
	Residential	Non-residential	Total	Residential	Non-residential	Spot Loads	Total	Residential	Non-residential	Total	Sales	Losses	Losses	Energy Requirements	Demand	Load Factor
	(#)	(#)	(#)	(MWh)	(MWh)	(MWh)	(MWh)	(kWh/Cust)	(kWh/Cust)	(kWh/Cust)	(MWh)	(MWh)	(%)	(MWh)	(MW)	(%)
Jan-20	272,458	26,309	298,767	425,721	168,718	9,928	604,367	1,563	6,413	2,023	604,367	30,324	4.8%	634,691	1,776	48.0%
Feb-20	272,614	26,374	298,988	415,502	173,849	10,792	600,142	1,524	6,592	2,007	600,142	(23,030)	-4.0%	577,112	1,660	50.0%
Mar-20	273,394	26,439	299,833	342,977	165,083	9,994	518,055	1,255	6,244	1,728	518,055	(41,672)	-8.7%	476,384	1,288	49.7%
Apr-20	274,018	26,503	300,521	288,546	164,862	10,123	463,531	1,053	6,220	1,542	463,531	12,479	2.6%	476,009	1,171	56.5%
May-20	274,519	26,568	301,087	287,217	172,801	10,369	470,387	1,046	6,504	1,562	470,387	70,516	13.0%	540,903	1,339	54.3%
Jun-20	274,903	26,632	301,535	366,675	190,881	12,755	570,311	1,334	7,167	1,891	570,311	137,309	19.4%	707,620	1,607	61.2%
Jul-20	276,255	26,697	302,952	459,589	209,701	15,570	684,859	1,664	7,855	2,261	684,859	71,106	9.4%	755,965	1,632	62.3%
Aug-20	275,969	26,761	302,730	504,950	220,460	16,174	741,585	1,830	8,238	2,450	741,585	58,050	7.3%	799,635	1,737	61.9%
Sep-20	276,343	26,826	303,169	470,269	215,108	15,832	701,210	1,702	8,019	2,313	701,210	(5,091)	-0.7%	696,119	1,662	58.2%
Oct-20	276,659	26,890	303,550	373,683	193,746	14,827	582,255	1,351	7,205	1,918	582,255	(61,120)	-11.7%	521,135	1,285	54.5%
Nov-20	276,877	26,955	303,832	303,302	175,585	9,841	488,729	1,095	6,514	1,609	488,729	22,866	4.5%	511,595	1,234	57.6%
Dec-20	277,154	27,020	304,173	362,510	173,454	10,808	546,772	1,308	6,420	1,798	546,772	75,323	12.1%	622,095	1,695	49.3%
Jan-21	280,056	27,082	307,138	440,227	177,818	12,165	630,210	1,572	6,566	2,052	630,210	31,620	4.8%	661,830	1,852	48.0%
Feb-21	280,216	27,144	307,360	429,642	183,198	12,767	625,606	1,533	6,749	2,035	625,606	(24,008)	-4.0%	601,599	1,792	50.0%
Mar-21	281,018	27,206	308,224	354,636	173,934	12,246	540,815	1,262	6,393	1,755	540,815	(43,502)	-8.7%	497,313	1,345	49.7%
Apr-21	281,660	27,268	308,928	298,342	173,674	11,721	483,738	1,059	6,369	1,566	483,738	13,023	2.6%	496,760	1,222	56.5%
May-21	282,175	27,330	309,505	296,957	182,010	12,006	490,973	1,052	6,660	1,586	490,973	73,602	13.0%	564,575	1,397	54.3%
Jun-21	282,569	27,393	309,961	379,094	201,023	14,770	594,887	1,342	7,339	1,919	594,887	143,226	19.4%	738,113	1,676	61.2%
Jul-21	283,959	27,455	311,414	475,137	220,809	18,029	713,975	1,673	8,043	2,293	713,975	74,129	9.4%	788,104	1,701	62.3%
Aug-21	283,665	27,517	311,182	522,014	232,105	18,729	772,847	1,840	8,435	2,484	772,847	60,497	7.3%	833,344	1,810	61.9%
Sep-21	284,050	27,579	311,629	486,142	226,437	18,332	730,912	1,711	8,210	2,345	730,912	(5,307)	-0.7%	725,605	1,733	58.2%
Oct-21	284,375	27,641	312,016	386,281	203,920	17,192	607,393	1,358	7,377	1,947	607,393	(63,759)	-11.7%	543,634	1,340	54.5%
Nov-21	284,598	27,703	312,301	313,516	184,780	11,411	509,707	1,102	6,670	1,632	509,707	23,848	4.5%	533,555	1,287	57.6%
Dec-21	284,883	27,766	312,648	374,703	182,511	12,532	569,746	1,315	6,573	1,822	569,746	78,488	12.1%	648,235	1,767	49.3%
Jan-22	287,711	27,825	315,535	454,782	187,080	14,105	655,967	1,581	6,723	2,079	655,967	32,913	4.8%	688,880	1,928	48.0%
Feb-22	287,875	27,884	315,760	443,841	192,715	14,803	651,359	1,542	6,911	2,063	651,359	(24,996)	-4.0%	626,363	1,866	50.0%
Mar-22	288,699	27,943	316,643	366,351	182,946	14,199	563,496	1,269	6,547	1,780	563,496	(45,327)	-8.7%	518,170	1,401	49.7%
Apr-22	289,358	28,003	317,361	308,193	182,651	13,320	504,164	1,065	6,523	1,589	504,164	13,573	2.6%	517,736	1,273	56.5%
May-22	289,887	28,062	317,949	306,759	191,394	13,643	511,796	1,058	6,820	1,610	511,796	76,724	13.0%	588,519	1,457	54.3%
Jun-22	290,292	28,121	318,414	391,601	211,361	16,784	619,746	1,349	7,516	1,946	619,746	149,211	19.4%	768,958	1,746	61.2%
Jul-22	291,720	28,181	319,901	490,806	232,138	20,487	743,431	1,682	8,237	2,324	743,431	77,187	9.4%	820,618	1,772	62.3%
Aug-22	291,418	28,240	319,658	539,220	243,983	21,283	804,486	1,850	8,640	2,517	804,486	62,974	7.3%	867,460	1,884	61.9%
Sep-22	291,814	28,299	320,113	502,160	237,998	20,832	760,990	1,721	8,410	2,377	760,990	(5,525)	-0.7%	755,465	1,804	58.2%
Oct-22	292,148	28,359	320,506	399,002	214,306	19,558	632,866	1,366	7,557	1,975	632,866	(66,433)	-11.7%	566,433	1,396	54.5%
Nov-22	292,377	28,418	320,795	323,837	194,169	12,981	530,986	1,108	6,833	1,655	530,986	24,844	4.5%	555,830	1,341	57.6%
Dec-22	292,669	28,477	321,147	387,033	191,763	14,256	593,052	1,322	6,734	1,847	593,052	81,699	12.1%	674,750	1,839	49.3%
Jan-23	295,529	28,535	324,064	469,660	196,532	16,046	682,237	1,589	6,887	2,105	682,237	34,231	4.8%	716,468	2,005	48.0%
Feb-23	295,698	28,592	324,290	458,346	202,421	16,840	677,607	1,550	7,080	2,090	677,607	(26,003)	-4.0%	651,604	1,941	50.0%
Mar-23	296,545	28,649	325,194	378,312	192,132	16,152	586,596	1,276	6,706	1,804	586,596	(47,185)	-8.7%	539,411	1,459	49.7%
Apr-23	297,222	28,707	325,928	318,246	191,792	14,918	524,956	1,071	6,681	1,611	524,956	14,132	2.6%	539,088	1,326	56.5%
May-23	297,765	28,764	326,529	316,754	200,943	15,281	532,978	1,064	6,986	1,632	532,978	79,899	13.0%	612,877	1,517	54.3%
Jun-23	298,181	28,821	327,002	404,349	221,873	18,798	645,021	1,356	7,698	1,973	645,021	155,297	19.4%	800,317	1,817	61.2%
Jul-23	299,648	28,878	328,526	506,768	243,648	22,946	773,361	1,691	8,437	2,354	773,361	80,295	9.4%	853,656	1,843	62.3%
Aug-23	299,337	28,936	328,273	556,740	256,044	23,837	836,620	1,860	8,849	2,549	836,620	65,489	7.3%	902,110	1,959	61.9%
Sep-23	299,744	28,993	328,737	518,459	249,726	23,332	791,518	1,730	8,613	2,408	791,518	(5,747)	-0.7%	785,771	1,877	58.2%
Oct-23	300,086	29,050	329,137	411,941	224,835	21,923	658,699	1,373	7,739	2,001	658,699	(69,145)	-11.7%	589,554	1,453	54.5%
Nov-23	300,322	29,108	329,430	334,328	203,680	14,550	552,558	1,113	6,997	1,677	552,558	25,853	4.5%	578,411	1,395	57.6%
Dec-23	300,622	29,165	329,788	399,559	201,128	15,980	616,667	1,329	6,896	1,870	616,667	84,952	12.1%	701,619	1,912	49.3%

Exhibit A-3
PEC 2011 Load Forecast - Base Case
Historical and Projected Load Determinants and Weather Conditions

Month	Retail Billing Data: Customers: Residential (#)	Customers: Non-residential (#)	Customers: Total (#)	Retail Electricity Sales: Residential (MWh)	Retail Electricity Sales: Non-residential (MWh)	Retail Electricity Sales: Spot Loads (MWh)	Retail Electricity Sales: Total (MWh)	Usage per Customer (kWh/Cust): Residential (kWh/Cust)	Usage per Customer: Non-residential (kWh/Cust)	Usage per Customer: Total (kWh/Cust)	System Net Requirements (Excluding Centex): Energy Requirements: Sales (MWh)	Energy Requirements: Losses (MWh)	Energy Requirements: Losses (%)	Energy Requirements: Energy Requirements (MWh)	Peak Demand: Demand (MW)	Peak Demand: Load Factor (%)
Jan-24	303,561	29,222	332,783	484,847	206,102	17,986	708,935	1,597	7,053	2,130	708,935	35,570	4.8%	744,506	2,083	48.0%
Feb-24	303,734	29,279	333,014	473,153	212,250	19,550	704,953	1,558	7,249	2,117	704,953	(27,052)	-4.0%	677,901	1,950	50.0%
Mar-24	304,604	29,336	333,940	390,522	201,434	18,106	610,061	1,282	6,866	1,827	610,061	(49,072)	-8.7%	560,989	1,517	49.7%
Apr-24	305,299	29,394	334,693	328,507	201,052	16,517	546,075	1,076	6,840	1,632	546,075	14,701	2.6%	560,776	1,379	56.5%
May-24	305,857	29,451	335,308	326,958	210,617	16,918	554,492	1,069	7,152	1,654	554,492	83,124	13.0%	637,617	1,578	54.3%
Jun-24	306,284	29,508	335,792	417,361	232,525	20,812	670,699	1,363	7,880	1,997	670,699	161,479	19.4%	832,178	1,889	61.2%
Jul-24	307,791	29,565	337,356	523,060	255,312	25,404	803,777	1,699	8,636	2,383	803,777	83,453	9.4%	887,230	1,915	62.3%
Aug-24	307,473	29,622	337,095	574,622	268,268	26,391	869,281	1,869	9,056	2,579	869,281	68,046	7.3%	937,327	2,036	61.9%
Sep-24	307,890	29,679	337,569	535,096	261,616	25,832	822,545	1,738	8,815	2,437	822,545	(5,972)	-0.7%	816,573	1,950	58.2%
Oct-24	308,242	29,736	337,978	425,147	235,511	24,288	684,946	1,379	7,920	2,027	684,946	(71,900)	-11.7%	613,046	1,511	54.5%
Nov-24	308,484	29,793	338,277	345,036	213,325	16,120	574,481	1,118	7,160	1,698	574,481	26,879	4.5%	601,360	1,451	57.6%
Dec-24	308,792	29,850	338,643	412,344	210,626	17,704	640,675	1,335	7,056	1,892	640,675	88,259	12.1%	728,934	1,987	49.3%
Jan-25	311,803	29,907	341,711	500,358	215,845	19,927	736,130	1,605	7,217	2,154	736,130	36,935	4.8%	773,065	2,163	48.0%
Feb-25	311,982	29,964	341,946	488,299	222,292	20,913	731,504	1,565	7,419	2,139	731,504	(28,071)	-4.0%	703,432	2,095	50.0%
Mar-25	312,875	30,021	342,896	403,029	210,973	20,059	634,061	1,288	7,028	1,849	634,061	(51,003)	-8.7%	583,058	1,577	49.7%
Apr-25	313,589	30,077	343,667	339,034	210,582	17,586	567,202	1,081	7,001	1,650	567,202	15,270	2.6%	582,471	1,432	56.5%
May-25	314,162	30,134	344,296	337,440	220,609	18,014	576,063	1,074	7,321	1,673	576,063	86,358	13.0%	662,421	1,639	54.3%
Jun-25	314,601	30,191	344,792	430,750	243,567	22,160	696,477	1,369	8,068	2,020	696,477	167,685	19.4%	864,162	1,962	61.2%
Jul-25	316,149	30,248	346,397	539,849	267,446	27,050	834,345	1,708	8,842	2,409	834,345	86,626	9.4%	920,971	1,988	62.3%
Aug-25	315,822	30,305	346,126	593,075	281,029	28,100	902,204	1,878	9,273	2,607	902,204	70,623	7.3%	972,827	2,113	61.9%
Sep-25	316,250	30,361	346,612	552,289	274,072	27,505	853,866	1,746	9,027	2,463	853,866	(6,199)	-0.7%	847,667	2,024	58.2%
Oct-25	316,612	30,418	347,030	438,815	246,733	25,871	711,418	1,386	8,111	2,050	711,418	(74,679)	-11.7%	636,739	1,570	54.5%
Nov-25	316,860	30,475	347,335	356,134	223,498	17,171	596,802	1,124	7,334	1,718	596,802	27,923	4.5%	624,725	1,507	57.6%
Dec-25	317,177	30,532	347,709	425,614	220,679	18,858	665,152	1,342	7,228	1,913	665,152	91,631	12.1%	756,783	2,063	49.3%
Jan-26	320,262	30,588	350,850	516,436	226,124	21,225	763,786	1,613	7,393	2,177	763,786	38,322	4.8%	802,108	2,245	48.0%
Feb-26	320,446	30,645	351,090	503,979	232,855	22,275	759,109	1,573	7,599	2,162	759,109	(29,131)	-4.0%	729,978	2,174	50.0%
Mar-26	321,363	30,701	352,064	415,961	220,976	21,367	658,304	1,294	7,198	1,870	658,304	(52,953)	-8.7%	605,351	1,637	49.7%
Apr-26	322,097	30,757	352,854	349,905	220,544	18,656	589,105	1,086	7,170	1,670	589,105	15,859	2.6%	604,964	1,488	56.5%
May-26	322,685	30,814	353,499	348,253	231,023	19,109	598,386	1,079	7,497	1,693	598,386	89,704	13.0%	688,090	1,703	54.3%
Jun-26	323,136	30,870	354,007	444,543	255,040	23,508	723,091	1,376	8,262	2,043	723,091	174,093	19.4%	897,184	2,037	61.2%
Jul-26	324,726	30,927	355,653	557,123	280,017	28,695	865,836	1,716	9,054	2,434	865,836	89,896	9.4%	955,732	2,063	62.3%
Aug-26	324,390	30,983	355,373	612,040	294,210	29,809	936,059	1,887	9,496	2,634	936,059	73,273	7.3%	1,009,332	2,192	61.9%
Sep-26	324,830	31,040	355,870	569,937	286,899	29,178	886,015	1,755	9,243	2,490	886,015	(6,433)	-0.7%	879,582	2,101	58.2%
Oct-26	325,201	31,096	356,298	452,827	258,257	27,454	738,538	1,392	8,305	2,073	738,538	(77,526)	-11.7%	661,012	1,630	54.5%
Nov-26	325,457	31,153	356,609	367,498	233,915	18,221	619,635	1,129	7,509	1,738	619,635	28,991	4.5%	648,626	1,565	57.6%
Dec-26	325,782	31,209	356,991	439,186	230,944	20,012	690,142	1,348	7,400	1,933	690,142	95,074	12.1%	785,216	2,140	49.3%
Jan-27	328,134	31,266	359,399	531,565	236,559	22,524	790,648	1,620	7,566	2,200	790,648	39,670	4.8%	830,319	2,324	48.0%
Feb-27	328,322	31,322	359,643	518,727	243,516	23,638	785,881	1,580	7,775	2,185	785,881	(30,158)	-4.0%	755,723	2,251	50.0%
Mar-27	329,261	31,378	360,639	428,121	231,014	22,674	681,809	1,300	7,362	1,891	681,809	(54,844)	-8.7%	626,965	1,696	49.7%
Apr-27	330,013	31,434	361,448	360,122	230,485	19,726	610,333	1,091	7,332	1,689	610,333	16,431	2.6%	626,763	1,541	56.5%
May-27	330,616	31,491	362,107	358,411	241,355	20,205	619,971	1,084	7,664	1,712	619,971	92,940	13.0%	712,911	1,764	54.3%
Jun-27	331,078	31,547	362,625	457,496	266,356	24,856	748,709	1,382	8,443	2,065	748,709	180,261	19.4%	928,969	2,109	61.2%
Jul-27	332,707	31,603	364,310	573,339	292,346	30,341	896,026	1,723	9,250	2,460	896,026	93,030	9.4%	989,056	2,135	62.3%
Aug-27	332,362	31,660	364,022	629,836	307,062	31,519	968,416	1,895	9,699	2,660	968,416	75,806	7.3%	1,044,223	2,268	61.9%
Sep-27	332,813	31,716	364,529	586,491	299,335	30,852	916,678	1,762	9,438	2,515	916,678	(6,655)	-0.7%	910,022	2,173	58.2%
Oct-27	333,194	31,772	364,966	465,966	269,364	29,037	764,367	1,398	8,478	2,094	764,367	(80,237)	-11.7%	684,130	1,687	54.5%
Nov-27	333,456	31,828	365,284	378,150	243,897	19,272	641,319	1,134	7,663	1,756	641,319	30,006	4.5%	671,325	1,619	57.6%
Dec-27	333,789	31,885	365,674	451,902	240,723	21,166	713,791	1,354	7,550	1,952	713,791	98,332	12.1%	812,123	2,213	49.3%

Exhibit A-3
PEC 2011 Load Forecast - Base Case
Historical and Projected Load Determinants and Weather Conditions

Month	Retail Billing Data										System Net Requirements (Excluding Centex)					
	Customers			Retail Electricity Sales				Usage per Customer (kWh/Cust)			Energy Requirements				Peak Demand	
	Residential	Non-residential	Total	Residential	Non-residential	Spot Loads	Total	Residential	Non-residential	Total	Sales	Losses	Losses	Energy Requirements	Demand	Load Factor
	(#)	(#)	(#)	(MWh)	(MWh)	(MWh)	(MWh)	(kWh/Cust)	(kWh/Cust)	(kWh/Cust)	(MWh)	(MWh)	(%)	(MWh)	(MW)	(%)
Jan-28	335,408	31,940	367,348	545,679	246,537	23,823	816,038	1,627	7,719	2,221	816,038	40,944	4.8%	856,983	2,398	48.0%
Feb-28	335,600	31,995	367,595	532,508	253,747	25,894	812,150	1,587	7,931	2,209	812,150	(31,166)	-4.0%	780,984	2,246	50.0%
Mar-28	336,561	32,051	368,611	439,502	240,682	23,981	704,166	1,306	7,509	1,910	704,166	(56,642)	-8.7%	647,524	1,751	49.7%
Apr-28	337,329	32,106	369,435	369,703	240,093	20,795	630,591	1,096	7,478	1,707	630,591	16,976	2.6%	647,567	1,592	56.5%
May-28	337,945	32,161	370,106	367,952	251,377	21,301	640,630	1,089	7,816	1,731	640,630	96,037	13.0%	736,668	1,823	54.3%
Jun-28	338,418	32,216	370,634	469,682	277,375	26,204	773,261	1,388	8,610	2,086	773,261	186,172	19.4%	959,433	2,178	61.2%
Jul-28	340,083	32,272	372,354	588,621	304,393	31,986	925,000	1,731	9,432	2,484	925,000	96,039	9.4%	1,021,038	2,204	62.3%
Aug-28	339,730	32,327	372,057	646,633	319,668	33,228	999,529	1,903	9,889	2,686	999,529	78,242	7.3%	1,077,771	2,341	61.9%
Sep-28	340,191	32,382	372,574	602,143	311,577	32,525	946,245	1,770	9,622	2,540	946,245	(6,870)	-0.7%	939,375	2,243	58.2%
Oct-28	340,580	32,438	373,018	478,409	280,339	30,620	789,367	1,405	8,642	2,116	789,367	(82,861)	-11.7%	706,506	1,742	54.5%
Nov-28	340,848	32,493	373,341	388,254	253,798	20,323	662,374	1,139	7,811	1,774	662,374	30,991	4.5%	693,365	1,672	57.6%
Dec-28	341,189	32,548	373,737	463,985	250,458	22,320	736,762	1,360	7,695	1,971	736,762	101,496	12.1%	838,259	2,285	49.3%
Jan-29	342,456	32,603	375,059	559,632	256,472	25,121	841,225	1,634	7,866	2,243	841,225	42,208	4.8%	883,433	2,472	48.0%
Feb-29	342,652	32,658	375,310	546,121	263,937	26,364	836,422	1,594	8,082	2,229	836,422	(32,098)	-4.0%	804,324	2,396	50.0%
Mar-29	343,633	32,713	376,346	450,734	250,314	25,288	726,337	1,312	7,652	1,930	726,337	(58,425)	-8.7%	667,911	1,806	49.7%
Apr-29	344,418	32,768	377,185	379,148	249,668	21,607	650,423	1,101	7,619	1,724	650,423	17,510	2.6%	667,933	1,643	56.5%
May-29	345,047	32,823	377,870	377,350	261,368	22,132	660,850	1,094	7,963	1,749	660,850	99,069	13.0%	759,919	1,881	54.3%
Jun-29	345,529	32,878	378,407	481,676	288,361	27,227	797,263	1,394	8,771	2,107	797,263	191,951	19.4%	989,214	2,246	61.2%
Jul-29	347,229	32,933	380,162	603,647	316,408	33,234	953,289	1,738	9,608	2,508	953,289	98,976	9.4%	1,052,265	2,272	62.3%
Aug-29	346,869	32,987	379,857	663,136	332,243	34,524	1,029,904	1,912	10,072	2,711	1,029,904	80,619	7.3%	1,110,523	2,412	61.9%
Sep-29	347,340	33,042	380,383	617,506	323,792	33,794	975,092	1,778	9,799	2,563	975,092	(7,079)	-0.7%	968,013	2,312	58.2%
Oct-29	347,737	33,097	380,835	490,612	291,292	31,821	813,725	1,411	8,801	2,137	813,725	(85,418)	-11.7%	728,307	1,796	54.5%
Nov-29	348,010	33,152	381,163	398,155	263,680	21,120	682,955	1,144	7,954	1,792	682,955	31,954	4.5%	714,909	1,724	57.6%
Dec-29	348,358	33,207	381,566	475,814	260,178	23,195	759,187	1,366	7,835	1,990	759,187	104,585	12.1%	863,773	2,354	49.3%
Jan-30	349,348	33,262	382,610	573,395	266,392	26,107	865,894	1,641	8,009	2,263	865,894	43,446	4.8%	909,339	2,545	48.0%
Feb-30	349,548	33,316	382,864	559,546	274,113	27,398	861,057	1,601	8,228	2,249	861,057	(33,043)	-4.0%	828,014	2,467	50.0%
Mar-30	350,549	33,370	383,919	461,810	259,933	26,280	748,023	1,317	7,789	1,948	748,023	(60,170)	-8.7%	687,853	1,860	49.7%
Apr-30	351,349	33,425	384,774	388,461	259,230	22,148	669,839	1,106	7,756	1,741	669,839	18,033	2.6%	687,872	1,692	56.5%
May-30	351,991	33,479	385,470	386,615	271,346	22,686	680,647	1,098	8,105	1,766	680,647	102,036	13.0%	782,683	1,937	54.3%
Jun-30	352,483	33,534	386,017	493,497	299,334	27,908	820,739	1,400	8,926	2,126	820,739	197,603	19.4%	1,018,342	2,312	61.2%
Jul-30	354,217	33,588	387,805	618,456	328,409	34,066	980,931	1,746	9,778	2,529	980,931	101,846	9.4%	1,082,777	2,338	62.3%
Aug-30	353,850	33,642	387,493	679,398	344,804	35,389	1,059,591	1,920	10,249	2,734	1,059,591	82,943	7.3%	1,142,535	2,482	61.9%
Sep-30	354,331	33,697	388,027	632,643	335,995	34,640	1,003,278	1,785	9,971	2,586	1,003,278	(7,284)	-0.7%	995,994	2,379	58.2%
Oct-30	354,736	33,751	388,487	502,634	302,235	33,022	837,890	1,417	8,955	2,157	837,890	(87,955)	-11.7%	749,935	1,849	54.5%
Nov-30	355,014	33,806	388,820	407,907	273,555	21,917	703,379	1,149	8,092	1,809	703,379	32,909	4.5%	736,288	1,776	57.6%
Dec-30	355,369	33,860	389,229	487,463	269,890	24,071	781,424	1,372	7,971	2,008	781,424	107,649	12.1%	889,073	2,423	49.3%

Exhibit A-3
PEC 2011 Load Forecast - Base Case
Historical and Projected Load Determinants and Weather Conditions

Month	Austin - Camp Mabry Weather Conditions									
	Calendar Month		LCRA Billing Month		PEC Peak Day Conditions					
	HDD	CDD	HDD	CDD	Peak Date	Peak Hour	Peak Day High	Peak Day Low	Prior Day High	Prior Day Low
	(#)	(#)	(#)	(#)			dF	dF	dF	dF
Jan-00	313	23	193	23	01/05/00	7	60	27	55	32
Feb-00	146	67	294	51	01/30/00	8	47	26	44	30
Mar-00	85	133	100	97	03/17/00	9	51	41	84	44
Apr-00	30	198	32	180	04/23/00	18	98	70	83	52
May-00	-	443	-	386	05/24/00	18	96	73	94	71
Jun-00	-	506	-	516	05/30/00	18	96	74	93	73
Jul-00	-	681	-	656	07/15/00	17	107	76	106	75
Aug-00	-	694	-	671	08/12/00	17	104	76	103	73
Sep-00	5	508	-	654	09/04/00	17	110	79	108	76
Oct-00	63	270	68	209	10/03/00	18	94	73	94	65
Nov-00	291	26	251	104	11/14/00	7	57	35	55	40
Dec-00	599	-	470	2	12/12/00	18	31	26	74	31
Jan-01	509	-	611	-	01/02/01	9	38	30	35	31
Feb-01	258	17	303	16	02/10/01	8	45	29	71	38
Mar-01	309	4	245	5	02/28/01	19	56	38	75	56
Apr-01	12	192	96	176	03/27/01	19	51	43	58	46
May-01	-	362	2	273	05/20/01	18	91	68	83	71
Jun-01	-	536	-	522	06/12/01	18	98	73	96	68
Jul-01	-	691	-	639	07/23/01	18	102	75	103	73
Aug-01	-	667	-	731	08/12/01	17	102	77	102	77
Sep-01	1	374	-	468	08/25/01	17	101	78	99	74
Oct-01	32	138	27	147	10/24/01	16	92	65	85	73
Nov-01	137	79	56	76	11/20/02	7	74	45	73	46
Dec-01	365	24	315	31	11/28/02	19	61	36	49	38
Jan-02	373	24	462	8	01/03/02	7	46	26	45	30
Feb-02	380	-	345	16	02/07/02	7	63	30	51	35
Mar-02	219	46	273	28	02/27/02	7	51	25	45	30
Apr-02	21	279	50	209	04/24/02	18	90	69	87	70
May-02	-	411	-	398	04/29/02	18	93	70	93	74
Jun-02	-	538	-	545	06/13/02	18	96	73	97	76
Jul-02	-	547	-	497	07/24/02	18	96	74	95	74
Aug-02	-	637	-	630	08/23/02	17	96	76	97	77
Sep-02	-	451	-	519	08/26/02	18	102	75	100	76
Oct-02	36	183	12	264	10/06/02	17	94	73	91	72
Nov-02	241	15	172	17	11/04/02	19	54	48	59	53
Dec-02	368	8	372	8	12/06/02	7	56	34	50	37
Jan-03	477	5	466	5	01/24/03	7	46	26	42	30
Feb-03	386	6	378	6	02/24/03	19	40	26	78	40
Mar-03	170	26	241	22	02/25/03	9	30	24	40	26
Apr-03	22	202	59	148	04/24/03	18	96	65	80	64
May-03	-	475	-	427	05/16/03	18	99	76	95	75
Jun-03	-	519	-	504	06/23/03	18	97	79	96	77
Jul-03	-	621	-	588	07/14/03	18	97	75	99	72
Aug-03	-	658	-	659	08/07/03	18	108	77	103	75
Sep-03	-	411	-	498	08/27/03	17	100	75	98	75
Oct-03	11	247	-	269	09/27/03	17	92	67	80	68
Nov-03	143	111	98	155	11/24/03	7	54	33	73	41
Dec-03	308	11	299	5	12/17/03	7	68	35	58	41

Exhibit A-3

PEC 2011 Load Forecast - Base Case

Historical and Projected Load Determinants and Weather Conditions

	Austin - Camp Mabry Weather Conditions									
	Calendar Month		LCRA Billing Month		PEC Peak Day Conditions					
Month	HDD	CDD	HDD	CDD	Peak Date	Peak Hour	Peak Day High	Peak Day Low	Prior Day High	Prior Day Low
	(#)	(#)	(#)	(#)			dF	dF	dF	dF
Jan-04	340	18	305	24	01/06/04	7	38	29	48	36
Feb-04	379	1	412	1	02/13/04	7	37	33	47	37
Mar-04	30	83	97	45	02/26/04	7	62	35	49	39
Apr-04	38	145	38	151	04/13/04	7	67	44	65	46
May-04	2	367	2	270	05/19/04	18	88	73	88	74
Jun-04	-	447	-	499	05/31/04	17	100	78	91	77
Jul-04	-	563	-	517	07/17/04	17	98	73	93	73
Aug-04	-	571	-	557	08/05/04	17	101	76	99	77
Sep-04	-	458	-	521	08/25/04	18	96	77	95	77
Oct-04	4	348	4	327	10/19/04	17	92	76	89	76
Nov-04	164	13	111	108	10/29/04	17	86	72	86	71
Dec-04	387	6	369	-	12/24/04	9	34	26	43	24
Jan-05	359	39	335	45	12/25/04	8	51	25	34	26
Feb-05	270	19	315	19	02/04/05	7	56	38	55	36
Mar-05	164	39	184	19	03/17/05	7	65	37	55	42
Apr-05	29	116	53	104	04/22/05	17	88	66	80	67
May-05	5	309	11	250	05/22/05	17	96	72	97	67
Jun-05	-	562	-	535	06/17/05	18	97	73	97	73
Jul-05	-	631	-	617	07/03/05	17	101	77	102	76
Aug-05	-	648	-	625	08/23/05	18	101	76	101	75
Sep-05	-	590	-	618	08/27/05	17	102	77	101	77
Oct-05	36	223	21	342	09/25/05	17	107	70	99	79
Nov-05	127	127	98	125	11/17/05	7	60	31	58	39
Dec-05	397	6	408	15	12/08/05	9	36	23	51	25
Jan-06	202	12	190	13	01/18/06	7	73	36	59	37
Feb-06	302	16	326	12	02/19/06	9	37	28	39	28
Mar-06	91	120	92	100	03/24/06	7	63	34	57	40
Apr-06	-	304	20	295	04/17/06	18	99	72	95	67
May-06	-	389	-	307	05/09/06	17	93	74	84	61
Jun-06	-	536	-	554	06/13/06	18	101	75	98	74
Jul-06	-	662	-	605	07/18/06	18	103	77	102	77
Aug-06	-	739	-	736	08/17/06	18	103	76	104	76
Sep-06	-	463	-	548	08/25/06	17	103	78	104	76
Oct-06	26	242	25	283	09/30/06	16	93	71	90	65
Nov-06	113	89	102	86	11/21/06	7	70	37	66	41
Dec-06	332	24	262	58	12/04/06	7	54	29	53	37
Jan-07	538	4	504	4	01/16/07	11	31	29	36	29
Feb-07	308	20	418	4	02/16/07	7	56	24	45	29
Mar-07	86	107	92	82	03/05/07	7	72	34	63	35
Apr-07	85	113	85	114	04/07/07	20	50	34	69	50
May-07	-	331	-	292	05/14/07	18	90	65	91	67
Jun-07	-	483	-	465	06/19/07	18	94	78	92	76
Jul-07	-	503	-	488	07/12/07	18	94	76	93	77
Aug-07	-	632	-	612	08/12/07	17	100	78	97	76
Sep-07	-	497	-	525	09/09/07	17	94	77	94	77
Oct-07	23	307	6	407	09/27/07	16	95	74	93	75
Nov-07	159	104	101	108	11/24/07	18	47	40	48	40
Dec-07	342	29	313	29	12/17/07	7	58	30	55	30

Exhibit A-3
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Historical and Projected Load Determinants and Weather Conditions

	Austin - Camp Mabry Weather Conditions									
	Calendar Month		LCRA Billing Month		PEC Peak Day Conditions					
Month	HDD	CDD	HDD	CDD	Peak Date	Peak Hour	Peak Day High	Peak Day Low	Prior Day High	Prior Day Low
	(#)	(#)	(#)	(#)			dF	dF	dF	dF
Jan-08	458	14	476	14	01/20/08	8	56	25	50	30
Feb-08	192	39	246	27	02/01/08	7	63	28	61	40
Mar-08	132	87	163	58	03/06/08	19	61	38	79	41
Apr-08	25	173	22	191	04/22/08	18	92	72	86	70
May-08	-	463	4	341	05/23/08	17	100	78	95	75
Jun-08	-	681	-	693	06/19/08	18	101	75	103	74
Jul-08	-	676	-	644	07/21/08	18	102	78	101	75
Aug-08	-	665	-	683	08/03/08	17	105	75	102	78
Sep-08	-	475	-	544	09/02/08	18	101	75	97	74
Oct-08	29	223	9	281	10/03/08	17	93	67	92	60
Nov-08	118	58	104	77	11/17/08	7	76	38	68	36
Dec-08	373	21	349	12	12/15/08	19	67	31	79	60
Jan-09	365	18	317	28	01/14/09	19	64	30	56	37
Feb-09	155	51	249	20	01/29/09	7	58	28	52	28
Mar-09	142	113	130	138	03/02/09	7	69	33	63	34
Apr-09	35	164	59	107	04/22/09	18	94	64	93	61
May-09	-	423	-	375	05/08/09	18	97	74	91	75
Jun-09	-	654	-	613	06/24/09	18	105	77	103	75
Jul-09	-	766	-	744	07/08/09	18	106	78	101	79
Aug-09	-	755	-	779	08/23/09	16	105	78	103	76
Sep-09	5	411	5	491	08/26/09	16	104	75	103	76
Oct-09	43	168	25	226	09/27/09	17	93	68	92	65
Nov-09	133	26	95	38	11/18/09	8	72	40	66	40
Dec-09	535	-	452	-	12/05/09	8	50	25	41	29
Jan-10	500	2	532	2	01/09/10	8	42	17	35	21
Feb-10	489	-	538	-	02/16/10	7	59	30	55	32
Mar-10	190	10	225	2	02/25/10	7	64	32	54	32
Apr-10	18	137	41	106	04/23/10	18	88	62	73	64
May-10	-	431	-	351	05/07/10	17	96	71	92	64
Jun-10	-	581	-	577	06/23/10	18	96	75	95	75
Jul-10	-	612	-	599	07/17/10	17	98	75	97	76
Aug-10	-	743	-	727	08/23/10	18	106	77	103	78
Sep-10	-	481	-	575	09/01/10	18	100	79	101	79
Oct-10	11	212	-	233	09/25/10	14	92	73	91	74
Nov-10	156	81	109	111	10/25/10	19	88	70	87	67
Dec-10	339	9	311	15	12/13/10	7	62	30	56	37
Jan-11	475	7	400	13			40	25	40	27
Feb-11	319	18	328	19			55	30	53	34
Mar-11	163	59	171	49			59	35	54	37
Apr-11	44	147	57	142			90	66	84	63
May-11	2	323	4	316			93	71	90	70
Jun-11	-	495	-	527			98	75	96	74
Jul-11	-	605	-	599			100	76	99	75
Aug-11	-	610	-	659			104	78	101	77
Sep-11	2	439	1	537			100	76	99	75
Oct-11	32	207	16	266			94	71	91	70
Nov-11	205	51	131	83			61	38	62	43
Dec-11	406	13	340	20			53	29	52	34

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Historical and Projected Load Determinants and Weather Conditions

	Austin - Camp Mabry Weather Conditions									
	Calendar Month		LCRA Billing Month		PEC Peak Day Conditions					
Month	HDD	CDD	HDD	CDD	Peak Date	Peak Hour	Peak Day High	Peak Day Low	Prior Day High	Prior Day Low
	(#)	(#)	(#)	(#)			dF	dF	dF	dF
Jan-12	475	7	400	13			40	25	40	27
Feb-12	319	18	328	19			55	30	53	34
Mar-12	163	59	171	49			59	35	54	37
Apr-12	44	147	57	142			90	66	84	63
May-12	2	323	4	316			93	71	90	70
Jun-12	-	495	-	527			98	75	96	74
Jul-12	-	605	-	599			100	76	99	75
Aug-12	-	610	-	659			104	78	101	77
Sep-12	2	439	1	537			100	76	99	75
Oct-12	32	207	16	266			94	71	91	70
Nov-12	205	51	131	83			61	38	62	43
Dec-12	406	13	340	20			53	29	52	34
Jan-13	475	7	400	13			40	25	40	27
Feb-13	319	18	328	19			55	30	53	34
Mar-13	163	59	171	49			59	35	54	37
Apr-13	44	147	57	142			90	66	84	63
May-13	2	323	4	316			93	71	90	70
Jun-13	-	495	-	527			98	75	96	74
Jul-13	-	605	-	599			100	76	99	75
Aug-13	-	610	-	659			104	78	101	77
Sep-13	2	439	1	537			100	76	99	75
Oct-13	32	207	16	266			94	71	91	70
Nov-13	205	51	131	83			61	38	62	43
Dec-13	406	13	340	20			53	29	52	34
Jan-14	475	7	400	13			40	25	40	27
Feb-14	319	18	328	19			55	30	53	34
Mar-14	163	59	171	49			59	35	54	37
Apr-14	44	147	57	142			90	66	84	63
May-14	2	323	4	316			93	71	90	70
Jun-14	-	495	-	527			98	75	96	74
Jul-14	-	605	-	599			100	76	99	75
Aug-14	-	610	-	659			104	78	101	77
Sep-14	2	439	1	537			100	76	99	75
Oct-14	32	207	16	266			94	71	91	70
Nov-14	205	51	131	83			61	38	62	43
Dec-14	406	13	340	20			53	29	52	34
Jan-15	475	7	400	13			40	25	40	27
Feb-15	319	18	328	19			55	30	53	34
Mar-15	163	59	171	49			59	35	54	37
Apr-15	44	147	57	142			90	66	84	63
May-15	2	323	4	316			93	71	90	70
Jun-15	-	495	-	527			98	75	96	74
Jul-15	-	605	-	599			100	76	99	75
Aug-15	-	610	-	659			104	78	101	77
Sep-15	2	439	1	537			100	76	99	75
Oct-15	32	207	16	266			94	71	91	70
Nov-15	205	51	131	83			61	38	62	43
Dec-15	406	13	340	20			53	29	52	34

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Historical and Projected Load Determinants and Weather Conditions

	Austin - Camp Mabry Weather Conditions									
	Calendar Month		LCRA Billing Month		PEC Peak Day Conditions					
Month	HDD	CDD	HDD	CDD	Peak Date	Peak Hour	Peak Day High	Peak Day Low	Prior Day High	Prior Day Low
	(#)	(#)	(#)	(#)			dF	dF	dF	dF
Jan-16	475	7	400	13			40	25	40	27
Feb-16	319	18	328	19			55	30	53	34
Mar-16	163	59	171	49			59	35	54	37
Apr-16	44	147	57	142			90	66	84	63
May-16	2	323	4	316			93	71	90	70
Jun-16	-	495	-	527			98	75	96	74
Jul-16	-	605	-	599			100	76	99	75
Aug-16	-	610	-	659			104	78	101	77
Sep-16	2	439	1	537			100	76	99	75
Oct-16	32	207	16	266			94	71	91	70
Nov-16	205	51	131	83			61	38	62	43
Dec-16	406	13	340	20			53	29	52	34
Jan-17	475	7	400	13			40	25	40	27
Feb-17	319	18	328	19			55	30	53	34
Mar-17	163	59	171	49			59	35	54	37
Apr-17	44	147	57	142			90	66	84	63
May-17	2	323	4	316			93	71	90	70
Jun-17	-	495	-	527			98	75	96	74
Jul-17	-	605	-	599			100	76	99	75
Aug-17	-	610	-	659			104	78	101	77
Sep-17	2	439	1	537			100	76	99	75
Oct-17	32	207	16	266			94	71	91	70
Nov-17	205	51	131	83			61	38	62	43
Dec-17	406	13	340	20			53	29	52	34
Jan-18	475	7	400	13			40	25	40	27
Feb-18	319	18	328	19			55	30	53	34
Mar-18	163	59	171	49			59	35	54	37
Apr-18	44	147	57	142			90	66	84	63
May-18	2	323	4	316			93	71	90	70
Jun-18	-	495	-	527			98	75	96	74
Jul-18	-	605	-	599			100	76	99	75
Aug-18	-	610	-	659			104	78	101	77
Sep-18	2	439	1	537			100	76	99	75
Oct-18	32	207	16	266			94	71	91	70
Nov-18	205	51	131	83			61	38	62	43
Dec-18	406	13	340	20			53	29	52	34
Jan-19	475	7	400	13			40	25	40	27
Feb-19	319	18	328	19			55	30	53	34
Mar-19	163	59	171	49			59	35	54	37
Apr-19	44	147	57	142			90	66	84	63
May-19	2	323	4	316			93	71	90	70
Jun-19	-	495	-	527			98	75	96	74
Jul-19	-	605	-	599			100	76	99	75
Aug-19	-	610	-	659			104	78	101	77
Sep-19	2	439	1	537			100	76	99	75
Oct-19	32	207	16	266			94	71	91	70
Nov-19	205	51	131	83			61	38	62	43
Dec-19	406	13	340	20			53	29	52	34

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Historical and Projected Load Determinants and Weather Conditions

	Austin - Camp Mabry Weather Conditions									
	Calendar Month		LCRA Billing Month		PEC Peak Day Conditions					
Month	HDD	CDD	HDD	CDD	Peak Date	Peak Hour	Peak Day High	Peak Day Low	Prior Day High	Prior Day Low
	(#)	(#)	(#)	(#)			dF	dF	dF	dF
Jan-20	475	7	400	13			40	25	40	27
Feb-20	319	18	328	19			55	30	53	34
Mar-20	163	59	171	49			59	35	54	37
Apr-20	44	147	57	142			90	66	84	63
May-20	2	323	4	316			93	71	90	70
Jun-20	-	495	-	527			98	75	96	74
Jul-20	-	605	-	599			100	76	99	75
Aug-20	-	610	-	659			104	78	101	77
Sep-20	2	439	1	537			100	76	99	75
Oct-20	32	207	16	266			94	71	91	70
Nov-20	205	51	131	83			61	38	62	43
Dec-20	406	13	340	20			53	29	52	34
Jan-21	475	7	400	13			40	25	40	27
Feb-21	319	18	328	19			55	30	53	34
Mar-21	163	59	171	49			59	35	54	37
Apr-21	44	147	57	142			90	66	84	63
May-21	2	323	4	316			93	71	90	70
Jun-21	-	495	-	527			98	75	96	74
Jul-21	-	605	-	599			100	76	99	75
Aug-21	-	610	-	659			104	78	101	77
Sep-21	2	439	1	537			100	76	99	75
Oct-21	32	207	16	266			94	71	91	70
Nov-21	205	51	131	83			61	38	62	43
Dec-21	406	13	340	20			53	29	52	34
Jan-22	475	7	400	13			40	25	40	27
Feb-22	319	18	328	19			55	30	53	34
Mar-22	163	59	171	49			59	35	54	37
Apr-22	44	147	57	142			90	66	84	63
May-22	2	323	4	316			93	71	90	70
Jun-22	-	495	-	527			98	75	96	74
Jul-22	-	605	-	599			100	76	99	75
Aug-22	-	610	-	659			104	78	101	77
Sep-22	2	439	1	537			100	76	99	75
Oct-22	32	207	16	266			94	71	91	70
Nov-22	205	51	131	83			61	38	62	43
Dec-22	406	13	340	20			53	29	52	34
Jan-23	475	7	400	13			40	25	40	27
Feb-23	319	18	328	19			55	30	53	34
Mar-23	163	59	171	49			59	35	54	37
Apr-23	44	147	57	142			90	66	84	63
May-23	2	323	4	316			93	71	90	70
Jun-23	-	495	-	527			98	75	96	74
Jul-23	-	605	-	599			100	76	99	75
Aug-23	-	610	-	659			104	78	101	77
Sep-23	2	439	1	537			100	76	99	75
Oct-23	32	207	16	266			94	71	91	70
Nov-23	205	51	131	83			61	38	62	43
Dec-23	406	13	340	20			53	29	52	34

Exhibit A-3
PEC 2011 Load Forecast - Base Case
Historical and Projected Load Determinants and Weather Conditions

	Austin - Camp Mabry Weather Conditions									
	Calendar Month		LCRA Billing Month		PEC Peak Day Conditions					
Month	HDD	CDD	HDD	CDD	Peak Date	Peak Hour	Peak Day High	Peak Day Low	Prior Day High	Prior Day Low
	(#)	(#)	(#)	(#)			dF	dF	dF	dF
Jan-24	475	7	400	13			40	25	40	27
Feb-24	319	18	328	19			55	30	53	34
Mar-24	163	59	171	49			59	35	54	37
Apr-24	44	147	57	142			90	66	84	63
May-24	2	323	4	316			93	71	90	70
Jun-24	-	495	-	527			98	75	96	74
Jul-24	-	605	-	599			100	76	99	75
Aug-24	-	610	-	659			104	78	101	77
Sep-24	2	439	1	537			100	76	99	75
Oct-24	32	207	16	266			94	71	91	70
Nov-24	205	51	131	83			61	38	62	43
Dec-24	406	13	340	20			53	29	52	34
Jan-25	475	7	400	13			40	25	40	27
Feb-25	319	18	328	19			55	30	53	34
Mar-25	163	59	171	49			59	35	54	37
Apr-25	44	147	57	142			90	66	84	63
May-25	2	323	4	316			93	71	90	70
Jun-25	-	495	-	527			98	75	96	74
Jul-25	-	605	-	599			100	76	99	75
Aug-25	-	610	-	659			104	78	101	77
Sep-25	2	439	1	537			100	76	99	75
Oct-25	32	207	16	266			94	71	91	70
Nov-25	205	51	131	83			61	38	62	43
Dec-25	406	13	340	20			53	29	52	34
Jan-26	475	7	400	13			40	25	40	27
Feb-26	319	18	328	19			55	30	53	34
Mar-26	163	59	171	49			59	35	54	37
Apr-26	44	147	57	142			90	66	84	63
May-26	2	323	4	316			93	71	90	70
Jun-26	-	495	-	527			98	75	96	74
Jul-26	-	605	-	599			100	76	99	75
Aug-26	-	610	-	659			104	78	101	77
Sep-26	2	439	1	537			100	76	99	75
Oct-26	32	207	16	266			94	71	91	70
Nov-26	205	51	131	83			61	38	62	43
Dec-26	406	13	340	20			53	29	52	34
Jan-27	475	7	400	13			40	25	40	27
Feb-27	319	18	328	19			55	30	53	34
Mar-27	163	59	171	49			59	35	54	37
Apr-27	44	147	57	142			90	66	84	63
May-27	2	323	4	316			93	71	90	70
Jun-27	-	495	-	527			98	75	96	74
Jul-27	-	605	-	599			100	76	99	75
Aug-27	-	610	-	659			104	78	101	77
Sep-27	2	439	1	537			100	76	99	75
Oct-27	32	207	16	266			94	71	91	70
Nov-27	205	51	131	83			61	38	62	43
Dec-27	406	13	340	20			53	29	52	34

Exhibit A-3
PEC 2011 Load Forecast - Base Case
Historical and Projected Load Determinants and Weather Conditions

Month	Austin - Camp Mabry Weather Conditions									
	Calendar Month		LCRA Billing Month		PEC Peak Day Conditions					
	HDD	CDD	HDD	CDD	Peak Date	Peak Hour	Peak Day High	Peak Day Low	Prior Day High	Prior Day Low
	(#)	(#)	(#)	(#)			dF	dF	dF	dF
Jan-28	475	7	400	13			40	25	40	27
Feb-28	319	18	328	19			55	30	53	34
Mar-28	163	59	171	49			59	35	54	37
Apr-28	44	147	57	142			90	66	84	63
May-28	2	323	4	316			93	71	90	70
Jun-28	-	495	-	527			98	75	96	74
Jul-28	-	605	-	599			100	76	99	75
Aug-28	-	610	-	659			104	78	101	77
Sep-28	2	439	1	537			100	76	99	75
Oct-28	32	207	16	266			94	71	91	70
Nov-28	205	51	131	83			61	38	62	43
Dec-28	406	13	340	20			53	29	52	34
Jan-29	475	7	400	13			40	25	40	27
Feb-29	319	18	328	19			55	30	53	34
Mar-29	163	59	171	49			59	35	54	37
Apr-29	44	147	57	142			90	66	84	63
May-29	2	323	4	316			93	71	90	70
Jun-29	-	495	-	527			98	75	96	74
Jul-29	-	605	-	599			100	76	99	75
Aug-29	-	610	-	659			104	78	101	77
Sep-29	2	439	1	537			100	76	99	75
Oct-29	32	207	16	266			94	71	91	70
Nov-29	205	51	131	83			61	38	62	43
Dec-29	406	13	340	20			53	29	52	34
Jan-30	475	7	400	13			40	25	40	27
Feb-30	319	18	328	19			55	30	53	34
Mar-30	163	59	171	49			59	35	54	37
Apr-30	44	147	57	142			90	66	84	63
May-30	2	323	4	316			93	71	90	70
Jun-30	-	495	-	527			98	75	96	74
Jul-30	-	605	-	599			100	76	99	75
Aug-30	-	610	-	659			104	78	101	77
Sep-30	2	439	1	537			100	76	99	75
Oct-30	32	207	16	266			94	71	91	70
Nov-30	205	51	131	83			61	38	62	43
Dec-30	406	13	340	20			53	29	52	34

Exhibit B
ECONOMIC DATA

Exhibit B-1

Historical and Projected Economic Trends in the PEC Tri-County Region [1]

Mid-range Economic Growth Case

	Population (Ths)		Households (Ths)		Non-farm Employment		Gross Domestic Product ($2005; $M)		Personal Income ($2005; $M)		Personal Income per Household ($2005)	
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg
1992	277.8	-	97.2	-	72.1	-	5,002	-	6,403	-	65,891	-
1993	290.9	4.7%	101.6	4.6%	77.5	7.5%	5,469	9.3%	7,034	9.9%	69,221	5.1%
1994	308.3	6.0%	107.3	5.6%	84.5	9.0%	6,037	10.4%	7,621	8.3%	71,019	2.6%
1995	325.5	5.6%	114.0	6.3%	92.7	9.7%	6,730	11.5%	8,530	11.9%	74,795	5.3%
1996	346.1	6.3%	121.9	6.9%	101.1	9.0%	7,487	11.2%	9,324	9.3%	76,466	2.2%
1997	365.1	5.5%	129.0	5.8%	107.3	6.1%	8,370	11.8%	10,322	10.7%	80,011	4.6%
1998	385.3	5.5%	136.4	5.8%	114.9	7.1%	9,556	14.2%	11,747	13.8%	86,110	7.6%
1999	408.5	6.0%	143.2	5.0%	132.3	15.2%	11,685	22.3%	13,055	11.1%	91,181	5.9%
2000	434.9	6.5%	150.5	5.1%	141.9	7.2%	12,622	8.0%	14,213	8.9%	94,435	3.6%
2001	463.6	6.6%	160.2	6.4%	146.0	2.9%	12,855	1.8%	14,460	1.7%	90,287	-4.4%
2002	487.3	5.1%	168.1	5.0%	147.9	1.3%	12,949	0.7%	14,110	-2.4%	83,927	-7.0%
2003	507.5	4.2%	174.8	4.0%	152.0	2.7%	13,817	6.7%	14,606	3.5%	83,536	-0.5%
2004	529.6	4.4%	182.1	4.2%	157.9	3.9%	14,995	8.5%	15,573	6.6%	85,497	2.3%
2005	556.4	5.1%	190.6	4.6%	176.6	11.9%	17,026	13.5%	17,223	10.6%	90,367	5.7%
2006	588.2	5.7%	200.8	5.3%	188.8	6.9%	18,520	8.8%	18,708	8.6%	93,183	3.1%
2007	623.0	5.9%	212.5	5.8%	203.7	7.9%	20,019	8.1%	20,485	9.5%	96,419	3.5%
2008	656.9	5.4%	222.8	4.9%	209.9	3.0%	20,799	3.9%	21,979	7.3%	98,649	2.3%
2009	683.2	4.0%	229.0	2.8%	209.8	-0.1%	20,971	0.8%	22,179	0.9%	96,841	-1.8%
2010	712.6	4.3%	237.6	3.7%	215.6	2.8%	22,249	6.1%	23,309	5.1%	98,106	1.3%
2011	742.0	4.1%	246.3	3.6%	225.2	4.4%	23,364	5.0%	24,917	6.9%	101,185	3.1%
2012	771.8	4.0%	256.3	4.1%	236.3	5.0%	24,716	5.8%	26,573	6.6%	103,696	2.5%
2013	802.3	3.9%	266.9	4.1%	247.7	4.8%	26,160	5.8%	28,454	7.1%	106,611	2.8%
2014	833.4	3.9%	278.0	4.2%	259.1	4.6%	27,682	5.8%	30,602	7.6%	110,090	3.3%
2015	865.4	3.8%	289.3	4.1%	269.9	4.2%	29,197	5.5%	32,711	6.9%	113,066	2.7%
2016	898.2	3.8%	300.8	4.0%	280.7	4.0%	30,814	5.5%	34,946	6.8%	116,164	2.7%
2017	931.8	3.7%	312.7	3.9%	291.4	3.8%	32,465	5.4%	37,192	6.4%	118,956	2.4%
2018	966.4	3.7%	324.9	3.9%	302.3	3.7%	34,209	5.4%	39,547	6.3%	121,736	2.3%
2019	1,001.8	3.7%	337.3	3.8%	313.4	3.7%	36,055	5.4%	42,155	6.6%	124,964	2.7%
2020	1,037.9	3.6%	350.1	3.8%	324.8	3.6%	37,971	5.3%	44,918	6.6%	128,298	2.7%
2021	1,074.7	3.6%	363.3	3.8%	336.4	3.6%	40,007	5.4%	47,759	6.3%	131,456	2.5%
2022	1,112.4	3.5%	376.6	3.7%	348.2	3.5%	42,160	5.4%	50,691	6.1%	134,593	2.4%
2023	1,150.7	3.4%	390.2	3.6%	360.2	3.4%	44,371	5.2%	53,689	5.9%	137,584	2.2%
2024	1,190.1	3.4%	404.2	3.6%	372.6	3.4%	46,687	5.2%	56,758	5.7%	140,422	2.1%
2025	1,230.4	3.4%	418.6	3.6%	385.5	3.5%	49,163	5.3%	60,038	5.8%	143,443	2.2%
2026	1,271.7	3.4%	433.3	3.5%	398.8	3.5%	51,685	5.1%	63,419	5.6%	146,364	2.0%
2027	1,310.2	3.0%	447.1	3.2%	411.1	3.1%	54,103	4.7%	66,669	5.1%	149,109	1.9%
2028	1,347.3	2.8%	460.0	2.9%	423.0	2.9%	56,467	4.4%	69,930	4.9%	152,036	2.0%
2029	1,383.3	2.7%	472.4	2.7%	434.5	2.7%	58,822	4.2%	73,214	4.7%	154,967	1.9%
2030	1,419.0	2.6%	484.7	2.6%	446.0	2.6%	61,277	4.2%	76,519	4.5%	157,874	1.9%
Average Percent Change												
2001-2010		4.4%		4.0%		4.0%		5.6%		4.9%		0.8%
2011-2020		3.8%		4.0%		4.2%		5.5%		6.8%		2.7%
2021-2030		3.1%		3.3%		3.2%		4.9%		5.4%		2.1%

[1] The Tri-County Region comprises Comal, Hays, and Williamson Counties.

Source: IHS Global Insight, December 2010 Forecast; High and Low Cases developed by SAIC

Exhibit B-2

Historical and Projected Economic Trends in the PEC Tri-County Region [1]

High Economic Growth Case

	Population (Ths)		Households (Ths)		Non-farm Employment		Gross Domestic Product ($2005; $M)		Personal Income ($2005; $M)		Personal Income per Household ($2005)	
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg
1992	277.8	-	97.2	-	72.1	-	5,002	-	6,403	-	65,891	-
1993	290.9	4.7%	101.6	4.6%	77.5	7.5%	5,469	9.3%	7,034	9.9%	69,221	5.1%
1994	308.3	6.0%	107.3	5.6%	84.5	9.0%	6,037	10.4%	7,621	8.3%	71,019	2.6%
1995	325.5	5.6%	114.0	6.3%	92.7	9.7%	6,730	11.5%	8,530	11.9%	74,795	5.3%
1996	346.1	6.3%	121.9	6.9%	101.1	9.0%	7,487	11.2%	9,324	9.3%	76,466	2.2%
1997	365.1	5.5%	129.0	5.8%	107.3	6.1%	8,370	11.8%	10,322	10.7%	80,011	4.6%
1998	385.3	5.5%	136.4	5.8%	114.9	7.1%	9,556	14.2%	11,747	13.8%	86,110	7.6%
1999	408.5	6.0%	143.2	5.0%	132.3	15.2%	11,685	22.3%	13,055	11.1%	91,181	5.9%
2000	434.9	6.5%	150.5	5.1%	141.9	7.2%	12,622	8.0%	14,213	8.9%	94,435	3.6%
2001	463.6	6.6%	160.2	6.4%	146.0	2.9%	12,855	1.8%	14,460	1.7%	90,287	-4.4%
2002	487.3	5.1%	168.1	5.0%	147.9	1.3%	12,949	0.7%	14,110	-2.4%	83,927	-7.0%
2003	507.5	4.2%	174.8	4.0%	152.0	2.7%	13,817	6.7%	14,606	3.5%	83,536	-0.5%
2004	529.6	4.4%	182.1	4.2%	157.9	3.9%	14,995	8.5%	15,573	6.6%	85,497	2.3%
2005	556.4	5.1%	190.6	4.6%	176.6	11.9%	17,026	13.5%	17,223	10.6%	90,367	5.7%
2006	588.2	5.7%	200.8	5.3%	188.8	6.9%	18,520	8.8%	18,708	8.6%	93,183	3.1%
2007	623.0	5.9%	212.5	5.8%	203.7	7.9%	20,019	8.1%	20,485	9.5%	96,419	3.5%
2008	656.9	5.4%	222.8	4.9%	209.9	3.0%	20,799	3.9%	21,979	7.3%	98,649	2.3%
2009	683.2	4.0%	229.0	2.8%	209.8	-0.1%	20,971	0.8%	22,179	0.9%	96,841	-1.8%
2010	712.6	4.3%	237.6	3.7%	215.6	2.8%	22,249	6.1%	23,309	5.1%	98,106	1.3%
2011	756.6	6.2%	251.1	5.7%	233.2	8.1%	24,441	9.8%	26,065	11.8%	105,847	7.9%
2012	794.9	5.1%	263.9	5.1%	247.8	6.3%	26,115	6.9%	28,077	7.7%	108,815	2.8%
2013	832.9	4.8%	277.1	5.0%	262.1	5.8%	27,916	6.9%	30,364	8.1%	112,224	3.1%
2014	871.2	4.6%	290.6	4.9%	276.3	5.4%	29,832	6.9%	32,979	8.6%	116,249	3.6%
2015	910.3	4.5%	304.3	4.7%	289.7	4.9%	31,772	6.5%	35,596	7.9%	119,763	3.0%
2016	950.1	4.4%	318.2	4.6%	303.0	4.6%	33,856	6.6%	38,396	7.9%	123,428	3.1%
2017	991.0	4.3%	332.5	4.5%	316.2	4.4%	36,012	6.4%	41,256	7.4%	126,785	2.7%
2018	1,032.8	4.2%	347.2	4.4%	329.6	4.2%	38,187	6.0%	44,146	7.0%	130,149	2.7%
2019	1,075.8	4.2%	362.2	4.3%	343.3	4.2%	40,501	6.1%	47,353	7.3%	134,011	3.0%
2020	1,119.5	4.1%	377.6	4.3%	357.3	4.1%	42,920	6.0%	50,772	7.2%	138,009	3.0%
2021	1,164.2	4.0%	393.5	4.2%	371.6	4.0%	45,502	6.0%	54,319	7.0%	141,838	2.8%
2022	1,209.9	3.9%	409.7	4.1%	386.0	3.9%	48,247	6.0%	58,010	6.8%	145,666	2.7%
2023	1,256.6	3.9%	426.1	4.0%	400.8	3.8%	51,089	5.9%	61,817	6.6%	149,356	2.5%
2024	1,304.5	3.8%	443.1	4.0%	416.0	3.8%	54,084	5.9%	65,750	6.4%	152,899	2.4%
2025	1,353.7	3.8%	460.5	3.9%	431.9	3.8%	57,297	5.9%	69,972	6.4%	156,661	2.5%
2026	1,404.2	3.7%	478.5	3.9%	448.2	3.8%	60,599	5.8%	74,357	6.3%	160,332	2.3%
2027	1,451.8	3.4%	495.4	3.5%	463.4	3.4%	63,814	5.3%	78,635	5.8%	163,830	2.2%
2028	1,498.0	3.2%	511.4	3.2%	478.2	3.2%	66,999	5.0%	82,974	5.5%	167,546	2.3%
2029	1,543.2	3.0%	527.0	3.1%	492.6	3.0%	70,206	4.8%	87,384	5.3%	171,286	2.2%
2030	1,588.1	2.9%	542.4	2.9%	507.0	2.9%	73,567	4.8%	91,866	5.1%	175,019	2.2%
Average Percent Change												
2001-2010		4.4%		4.0%		4.0%		5.6%		4.9%		0.8%
2011-2020		4.4%		4.6%		4.9%		6.5%		7.7%		3.0%
2021-2030		3.5%		3.6%		3.5%		5.5%		6.0%		2.4%

[1] The Tri-County Region comprises Comal, Hays, and Williamson Counties.

Source: IHS Global Insight, December 2010 Forecast; High and Low Cases developed by SAIC

Exhibit B-3

Historical and Projected Economic Trends in the PEC Tri-County Region [1]

Low Economic Growth Case

	Population (Ths)		Households (Ths)		Non-farm Employment		Gross Domestic Product ($2005; $M)		Personal Income ($2005; $M)		Personal Income per Household ($2005)	
	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg	Value	% Chg
1992	277.8	-	97.2	-	72.1	-	5,002	-	6,403	-	65,891	-
1993	290.9	4.7%	101.6	4.6%	77.5	7.5%	5,469	9.3%	7,034	9.9%	69,221	5.1%
1994	308.3	6.0%	107.3	5.6%	84.5	9.0%	6,037	10.4%	7,621	8.3%	71,019	2.6%
1995	325.5	5.6%	114.0	6.3%	92.7	9.7%	6,730	11.5%	8,530	11.9%	74,795	5.3%
1996	346.1	6.3%	121.9	6.9%	101.1	9.0%	7,487	11.2%	9,324	9.3%	76,466	2.2%
1997	365.1	5.5%	129.0	5.8%	107.3	6.1%	8,370	11.8%	10,322	10.7%	80,011	4.6%
1998	385.3	5.5%	136.4	5.8%	114.9	7.1%	9,556	14.2%	11,747	13.8%	86,110	7.6%
1999	408.5	6.0%	143.2	5.0%	132.3	15.2%	11,685	22.3%	13,055	11.1%	91,181	5.9%
2000	434.9	6.5%	150.5	5.1%	141.9	7.2%	12,622	8.0%	14,213	8.9%	94,435	3.6%
2001	463.6	6.6%	160.2	6.4%	146.0	2.9%	12,855	1.8%	14,460	1.7%	90,287	-4.4%
2002	487.3	5.1%	168.1	5.0%	147.9	1.3%	12,949	0.7%	14,110	-2.4%	83,927	-7.0%
2003	507.5	4.2%	174.8	4.0%	152.0	2.7%	13,817	6.7%	14,606	3.5%	83,536	-0.5%
2004	529.6	4.4%	182.1	4.2%	157.9	3.9%	14,995	8.5%	15,573	6.6%	85,497	2.3%
2005	556.4	5.1%	190.6	4.6%	176.6	11.9%	17,026	13.5%	17,223	10.6%	90,367	5.7%
2006	588.2	5.7%	200.8	5.3%	188.8	6.9%	18,520	8.8%	18,708	8.6%	93,183	3.1%
2007	623.0	5.9%	212.5	5.8%	203.7	7.9%	20,019	8.1%	20,485	9.5%	96,419	3.5%
2008	656.9	5.4%	222.8	4.9%	209.9	3.0%	20,799	3.9%	21,979	7.3%	98,649	2.3%
2009	683.2	4.0%	229.0	2.8%	209.8	-0.1%	20,971	0.8%	22,179	0.9%	96,841	-1.8%
2010	712.6	4.3%	237.6	3.7%	215.6	2.8%	22,249	6.1%	23,309	5.1%	98,106	1.3%
2011	727.3	2.1%	241.4	1.6%	217.2	0.7%	22,288	0.2%	23,769	2.0%	96,523	-1.6%
2012	748.7	2.9%	248.6	3.0%	224.9	3.5%	23,317	4.6%	25,069	5.5%	98,577	2.1%
2013	771.7	3.1%	256.7	3.3%	233.3	3.7%	24,404	4.7%	26,543	5.9%	100,997	2.5%
2014	795.6	3.1%	265.4	3.4%	241.9	3.7%	25,532	4.6%	28,225	6.3%	103,931	2.9%
2015	820.5	3.1%	274.3	3.4%	250.1	3.4%	26,622	4.3%	29,826	5.7%	106,368	2.3%
2016	846.2	3.1%	283.4	3.3%	258.3	3.3%	27,772	4.3%	31,496	5.6%	108,901	2.4%
2017	872.7	3.1%	292.8	3.3%	266.5	3.2%	28,918	4.1%	33,129	5.2%	111,127	2.0%
2018	899.9	3.1%	302.5	3.3%	274.9	3.1%	30,231	4.5%	34,949	5.5%	113,323	2.0%
2019	927.9	3.1%	312.4	3.3%	283.5	3.1%	31,609	4.6%	36,957	5.7%	115,917	2.3%
2020	956.3	3.1%	322.6	3.2%	292.2	3.1%	33,023	4.5%	39,064	5.7%	118,587	2.3%
2021	985.3	3.0%	333.1	3.3%	301.2	3.1%	34,512	4.5%	41,199	5.5%	121,073	2.1%
2022	1,014.8	3.0%	343.6	3.2%	310.3	3.0%	36,073	4.5%	43,373	5.3%	123,520	2.0%
2023	1,044.9	3.0%	354.3	3.1%	319.6	3.0%	37,653	4.4%	45,560	5.0%	125,812	1.9%
2024	1,075.6	2.9%	365.3	3.1%	329.2	3.0%	39,291	4.3%	47,766	4.8%	127,945	1.7%
2025	1,107.0	2.9%	376.6	3.1%	339.2	3.0%	41,029	4.4%	50,105	4.9%	130,226	1.8%
2026	1,139.1	2.9%	388.1	3.1%	349.5	3.0%	42,771	4.2%	52,481	4.7%	132,396	1.7%
2027	1,168.6	2.6%	398.8	2.7%	358.8	2.7%	44,392	3.8%	54,702	4.2%	134,388	1.5%
2028	1,196.6	2.4%	408.5	2.4%	367.8	2.5%	45,935	3.5%	56,887	4.0%	136,526	1.6%
2029	1,223.5	2.2%	417.9	2.3%	376.4	2.3%	47,437	3.3%	59,043	3.8%	138,648	1.6%
2030	1,249.9	2.2%	426.9	2.2%	385.0	2.3%	48,987	3.3%	61,172	3.6%	140,729	1.5%
Average Percent Change												
2001-2010		4.4%		4.0%		4.0%		5.6%		4.9%		0.8%
2011-2020		3.1%		3.3%		3.4%		4.5%		5.7%		2.3%
2021-2030		2.7%		2.8%		2.8%		4.0%		4.5%		1.7%

[1] The Tri-County Region comprises Comal, Hays, and Williamson Counties.

Source: IHS Global Insight, December 2010 Forecast; High and Low Cases developed by SAIC

Exhibit C
FORECAST EQUATION OUTPUT

Table C - 1

Forecast Equation Variable Index

VARIABLE NAME	DESCRIPTION
Economic Variables	
Average Income	Average Income per Household in the Tri-County Area ($2009)
Households	Household Counts in the Tri-County Area
Personal Income	Total Personal Income in the Tri-County Area ($2009)
PR_ELRES	Real Average Residential Price of Electricity
PR_NGRES	Real Average Residential Price of Natural Gas
Weather Variables	
ACMBCCDD	Cooling Degree Days: Base=65 dF (LCRA Billing Cycle Basis)
ACMBCHDD	Heating Degree Days: Base=65 dF (LCRA Billing Cycle Basis)
ACMCDD	Cooling Degree Days: Base=65 dF (Calendar)
ACMHDD	Heating Degree Days: Base=65 dF (Calendar)
PKCDD70	Peak Day Cooling Degree Days: Base=70 dF
PRCDD70	Prior Day to Peak Cooling Degree Days: Base=70 dF
PKMINH50	Positive Difference Between 50 dF and Peak Day Minimum
WPRHDD60	Weighted Average Heating Degree Days (70% peak day, 20% prior day, 10% 2 days prior)
Other Variables	
A_NRACF	Non-residential Sales Adjustment/Correction Factor:
	May-99 = 1.0; Jun-99 = -1.0
A_LACF	Losses Adjustment/Correction Factor:
	Nov-00 = 1.0; Feb-01, Mar-01 = -0.5
AR	Autoregressive Residual Term (of given lag)
C	Constant Term
DLOG	First-differenced Natural Log
LOG	Natural Log
MA	Moving Average (of given period)

Table C - 2

Forecast Equation Output - Residential Customers

Dependent Variable: DLOG(CUST_RES)
Method: Least Squares
Sample (adjusted): 1991 2010
Included observations: 20 after adjustments
Convergence achieved after 12 iterations

Variable	Coefficient	Std. Error	t-Statistic	Prob.
DLOG(Households)	0.8219	0.2070	3.971	0.001
Binary: Year=2000	0.0220	0.0061	3.584	0.002
AR(1)	0.8964	0.1271	7.052	0.000

R-squared	0.8368	Mean dependent var	0.0526
Adjusted R-squared	0.8175	S.D. dependent var	0.0190
S.E. of regression	0.0081	Akaike info criterion	(6.655)
Sum squared resid	0.0011	Schwarz criterion	(6.506)
Log likelihood	69.552	Hannan-Quinn criter.	(6.626)
Durbin-Watson stat	1.814		

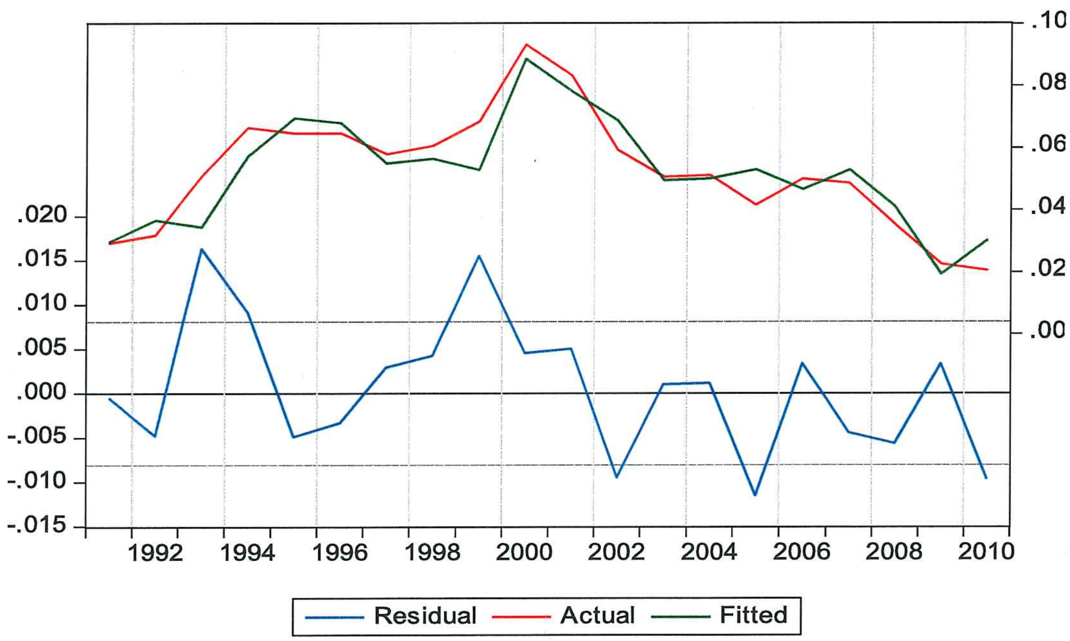


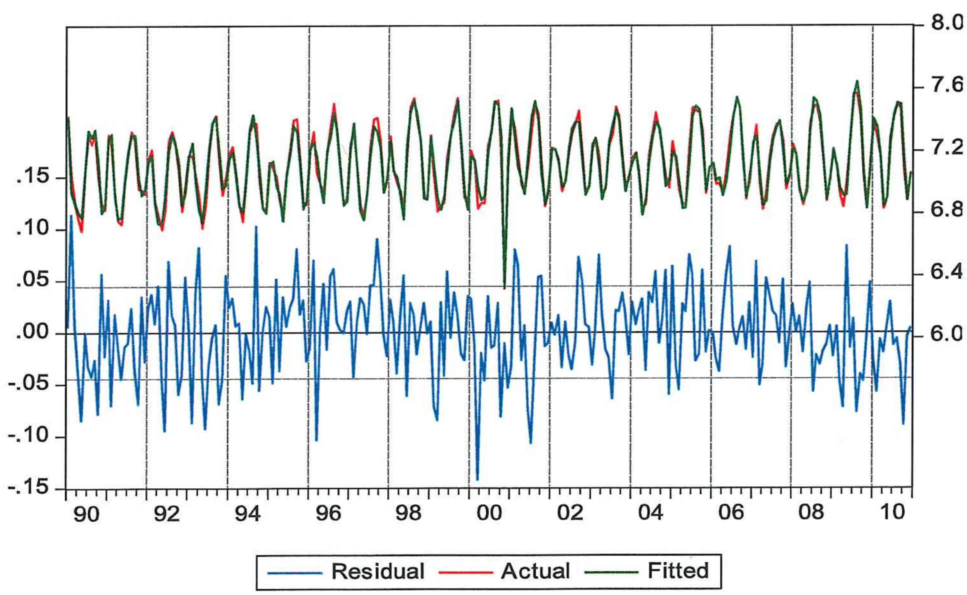
Table C - 3

Forecast Equation Output - Residential Average Use (Simplified)

Dependent Variable: LOG(USE_RES)
Method: Least Squares
Sample (adjusted): 1990M01 2010M12
Included observations: 252 after adjustments
Convergence achieved after 6 iterations

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	4.306	0.385	11.194	0.000
LOG(Average Income)	0.229	0.034	6.713	0.000
LOG(@MOVAV(PR_ELRES,12))	(0.146)	0.050	(2.917)	0.004
LOG(@MOVAV(PR_NGRES,12))	0.032	0.039	0.825	0.410
W_ACMCDD [1]	0.00046			
W_ACMCDD(-1) [1]	0.00084			
W_ACMHDD [1]	0.00055			
W_ACMHDD(-1) [1]	0.00088			
Binary: Apr	(0.048)	0.013	(3.554)	0.001
Binary: May	(0.081)	0.015	(5.258)	0.000
Binary: Jun	(0.027)	0.012	(2.217)	0.028
Binary: Nov	(0.065)	0.013	(4.871)	0.000
Binary: Dec	(0.109)	0.016	(6.967)	0.000
Binary: Date=Nov-00	(0.731)	0.046	(16.003)	0.000
Binary: Dec (2003 & Beyond)	0.106	0.023	4.562	0.000
AR(1)	0.198	0.067	2.963	0.003

R-squared	0.920	Mean dependent var	7.124
Adjusted R-squared	0.917	S.D. dependent var	0.223
S.E. of regression	0.064	Akaike info criterion	(2.611)
Sum squared resid	1.001	Schwarz criterion	(2.471)
Log likelihood	338.992	Hannan-Quinn criter.	(2.555)
F-statistic	309.292	Durbin-Watson stat	1.939
Prob(F-statistic)	0.000		



[1] Parameters correspond to the period beyond 2000. See following page for further information.

Table C - 4

Forecast Equation Output - Residential Average Use (Full Equation)

Dependent Variable: LOG(USE_RES)
Method: Least Squares
Sample (adjusted): 1990M01 2010M12
Included observations: 252 after adjustments
Convergence achieved after 6 iterations

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	4.306	0.385	11.194	0.000
LOG(Average Income)	0.229	0.034	6.713	0.000
LOG(MA(PR_ELRES,12))	(0.146)	0.050	(2.917)	0.004
LOG(MA(PR_NGRES,12))	0.032	0.039	0.825	0.410
W_ACMCDD	0.00020	0.00004	4.979	0.000
W_ACMCDD(-1)	0.00104	0.00004	23.996	0.000
W_ACMHDD	0.00033	0.00005	6.656	0.000
W_ACMHDD(-1)	0.00122	0.00005	23.429	0.000
W_ACMCDD*(Binary: Year>2000)	0.00026	0.00005	5.383	0.000
W_ACMCDD(-1)*(Binary: Year>2000)	(0.00020)	0.00005	(4.137)	0.000
W_ACMHDD*(Binary: Year>2000)	0.00022	0.00006	3.419	0.001
W_ACMHDD(-1)*(Binary: Year>2000)	(0.00034)	0.00006	(5.620)	0.000
Binary: Apr	(0.048)	0.013	(3.554)	0.001
Binary: May	(0.081)	0.015	(5.258)	0.000
Binary: Jun	(0.027)	0.012	(2.217)	0.028
Binary: Nov	(0.065)	0.013	(4.871)	0.000
Binary: Dec	(0.109)	0.016	(6.967)	0.000
Binary: Date=Nov-00	(0.731)	0.046	(16.003)	0.000
Binary: Dec (2003 & Beyond)	0.106	0.023	4.562	0.000
AR(1)	0.198	0.067	2.963	0.003

R-squared	0.920	Mean dependent var	7.124
Adjusted R-squared	0.917	S.D. dependent var	0.223
S.E. of regression	0.064	Akaike info criterion	(2.611)
Sum squared resid	1.001	Schwarz criterion	(2.471)
Log likelihood	338.992	Hannan-Quinn criter.	(2.555)
F-statistic	309.292	Durbin-Watson stat	1.939
Prob(F-statistic)	0.000		

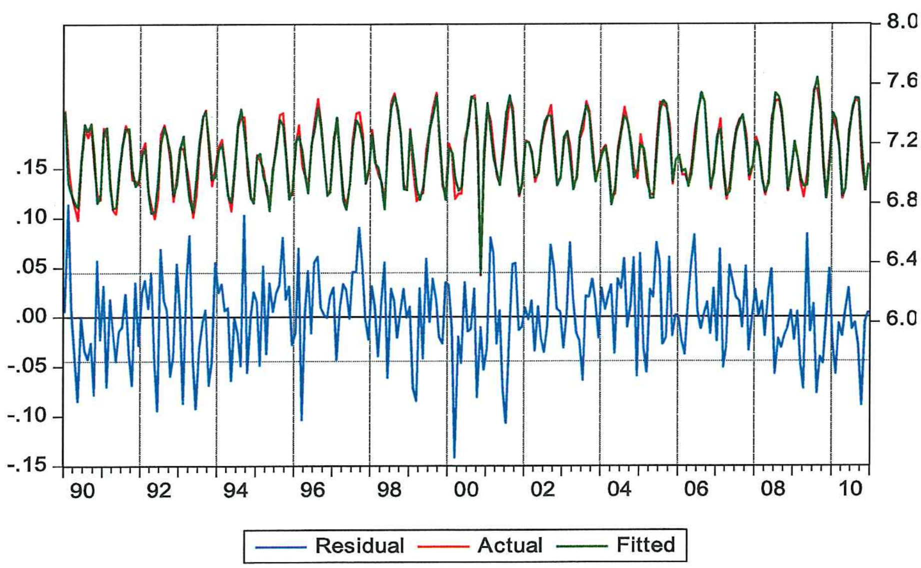


Table C - 5

Forecast Equation Output - Non-Residential Sales

Dependent Variable: LOG(Non-Residential Sales)
Method: Least Squares
Date: 05/10/11 Time: 10:04
Sample (adjusted): 1997M03 2010M12
Included observations: 166 after adjustments
Convergence achieved after 9 iterations

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	2.913	0.675	4.318	0.000
LOG(Personal Income)	0.830	0.071	11.652	0.000
W_ACMCDD	0.00018	0.00003	5.779	0.000
W_ACMCDD(-1)	0.00041	0.00003	12.070	0.000
W_ACMHDD*(Binary: Year>2000)	0.00008	0.00004	1.890	0.061
W_ACMHDD(-1)	0.00018	0.00004	4.409	0.000
Binary: Date>Jul-00	0.159	0.034	4.624	0.000
Binary: Feb	0.027	0.014	1.958	0.052
Binary: Dec	(0.068)	0.019	(3.654)	0.000
Binary: Dec (2003 and Beyond)	0.073	0.025	2.897	0.004
A_NRACF	0.168	0.028	5.934	0.000
AR(1)	0.391	0.076	5.134	0.000
AR(2)	0.332	0.077	4.336	0.000

R-squared	0.975	Mean dependent var	11.247
Adjusted R-squared	0.973	S.D. dependent var	0.299
S.E. of regression	0.049	Akaike info criterion	(3.123)
Sum squared resid	0.366	Schwarz criterion	(2.880)
Log likelihood	272.229	Hannan-Quinn criter.	(3.024)
F-statistic	502.208	Durbin-Watson stat	2.044
Prob(F-statistic)	0.000		

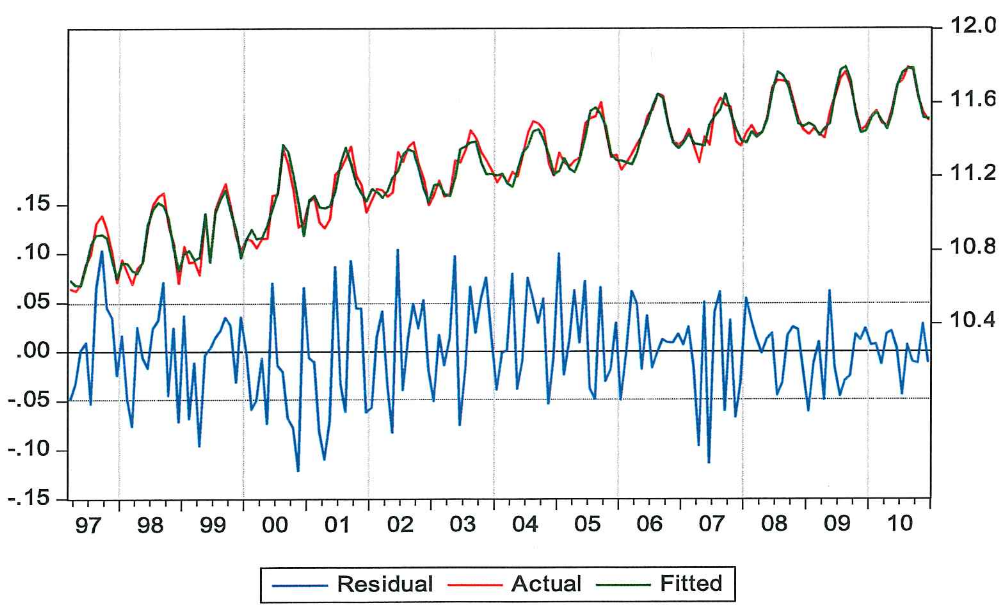


Table C - 6

Forecast Equation Output - Distribution Losses

Dependent Variable: LOSSFACT
Method: Least Squares
Date: 06/22/11 Time: 16:45
Sample (adjusted): 1997M01 2010M12
Included observations: 168 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.034	0.011	3.171	0.002
W_ACMBCCDD	0.00064	0.00004	15.980	0.000
W_ACMCDD(-1)	(0.00054)	0.00004	(12.514)	0.000
W_ACMBCHDD	0.00069	0.00004	15.580	0.000
W_ACMHDD(-1)	(0.00065)	0.00005	(14.309)	0.000
Binary: Mar, Jul, Aug, Sep	(0.054)	0.010	(5.139)	0.000
Binary: Oct	(0.093)	0.017	(5.497)	0.000
A_LACF	0.328	0.036	9.060	0.000

R-squared	0.856	Mean dependent var	0.040
Adjusted R-squared	0.850	S.D. dependent var	0.111
S.E. of regression	0.043	Akaike info criterion	(3.398)
Sum squared resid	0.299	Schwarz criterion	(3.250)
Log likelihood	293.473	Hannan-Quinn criter.	(3.338)
F-statistic	135.844	Durbin-Watson stat	1.788
Prob(F-statistic)	0.000		

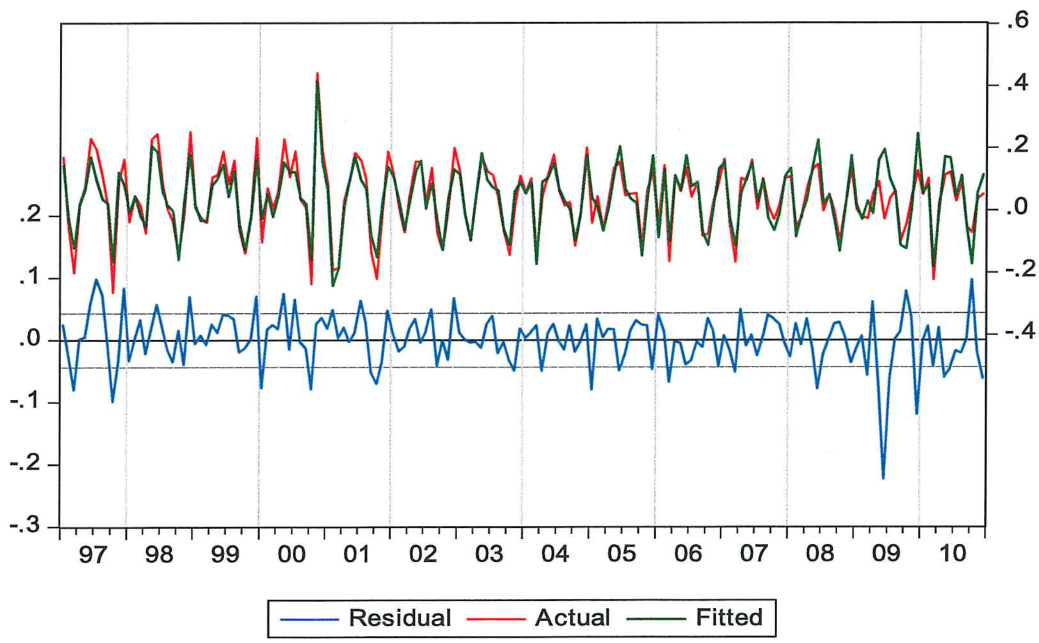


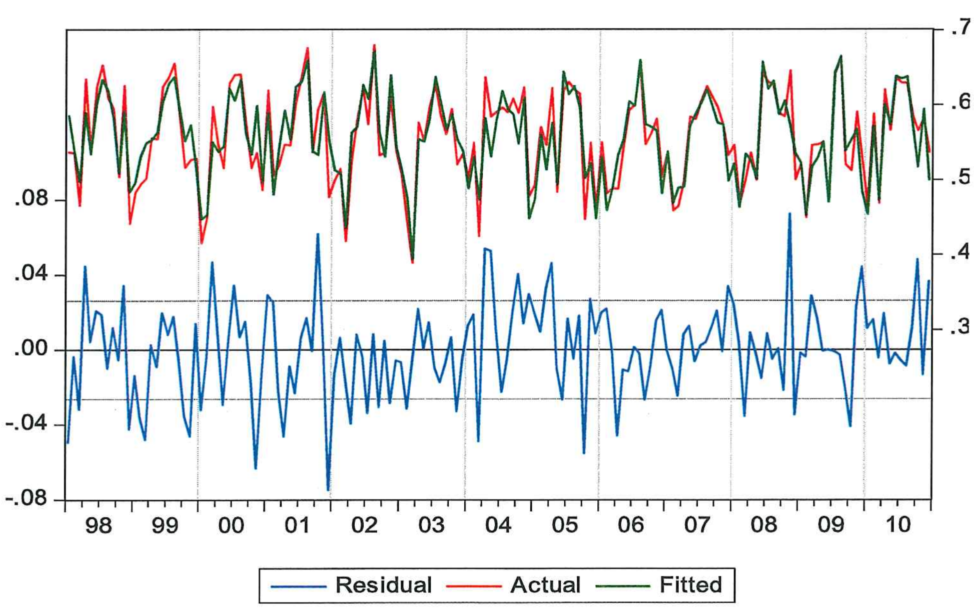
Table C - 7

Forecast Equation Output - Load Factor

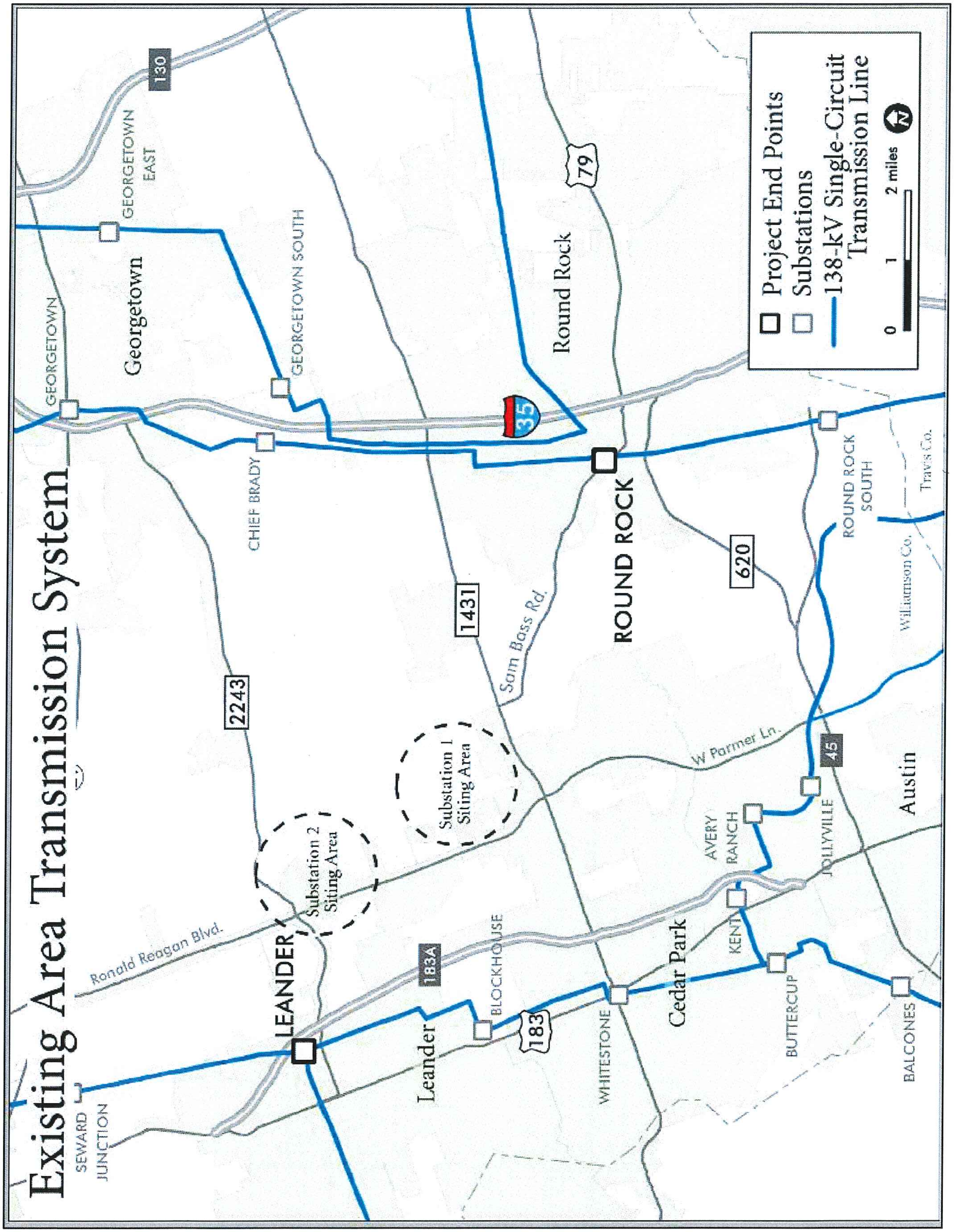
Dependent Variable: LOAD FACTOR
Method: Least Squares
Date: 06/22/11 Time: 17:07
Sample (adjusted): 1998M01 2010M12
Included observations: 156 after adjustments
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 5.0000)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.557	0.011	48.938	0.000
W_ACMBCCDD	0.00045	0.00004	11.758	0.000
W_ACMBCHDD	0.00037	0.00004	8.997	0.000
W_PKCDD70	(0.00799)	0.00111	(7.177)	0.000
W_PRCDD70	(0.00356)	0.00122	(2.918)	0.004
W_PKMINH50	(0.00753)	0.00090	(8.416)	0.000
W_WPRHDD60	(0.00230)	0.00065	(3.525)	0.001
Binary: Jan	0.016	0.008	2.104	0.037
Binary: May	(0.025)	0.007	(3.284)	0.001
Binary: Sep	(0.014)	0.006	(2.300)	0.023
Binary: Nov	0.044	0.012	3.617	0.000
Binary: Fri Morning	0.021	0.006	3.649	0.000
Binary: Date=Jun-09	(0.125)	0.004	(30.973)	0.000

R-squared	0.832	Mean dependent var	0.557
Adjusted R-squared	0.818	S.D. dependent var	0.062
S.E. of regression	0.026	Akaike info criterion	(4.353)
Sum squared resid	0.099	Schwarz criterion	(4.099)
Log likelihood	352.568	Hannan-Quinn criter.	(4.250)
F-statistic	59.140	Durbin-Watson stat	1.840
Prob(F-statistic)	0.000		



ATTACHMENT 7



ATTACHMENT 8
17 Maps

LOCATION OF DIRECTLY AFFECTED PROPERTIES

(MAPS)

(LOOSE)

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
A-001; A-002; G-006; H-009; U4-002; V4-003; V4-011; V4-017; V4-026	3	A; B; B6; C; G; H; H6; U4; V4		Leander City Of			PO Box 319			Leander	TX	78646-0319	R031277; R108637; R505880; R513725; R515433; R517894; R521163; R521164; R542628
A-003		A; D		House	Franklin R		1659 Kc 450			Junction	TX	76849	R031325
A-004	1; 2	A; D; E; F		First Baptist Church			PO Box 187			Leander	TX	78646-0187	R031254
A-005		A; D; E; F		Pedernales Electric Cooperative Inc			Attn: Prop Tax Dept	PO Box 1		Johnson City	TX	78636-0001	R031338
A1-001; A1-002; A1-003; A1-006; A1-007; A1-008; A1-010; A1-011; I5-045	1227; 1228	A1; I5; J5		A C Weir Properties Ltd			303 Ridge Run Dr			Georgetown	TX	78628-8264	R040828; R040829; R091315; R307086; R337203; R472552; R523502; R543988; R543989
A1-004; A1-005; A1-009; A1-012; A1-013; B1-009; I5-047; J5-001; K5-001; K5-003; K5-006; K5-007; K5-011; M5-001; V2-001; X2-005		A1; A3; A3a; B1; B3; E6; I5; J5; K5; M5; N5; O5; P5; Q5; T2; U2; U5; V2; W2; W2a; X2; Y2; Z; Z2		Texas Crushed Stone			PO Box 1000			Georgetown	TX	78627-1000	R039298; R040297; R040298; R040819; R040826; R051324; R307083; R307084; R311269; R314360; R450119; R472558; R473754; R473755; R473912; R473948
A1-014		A1		Barton Grady & Rose Real Estate Lp & Carrie A Barton-Smith			401 Cr 111			Georgetown	TX	78626	R472556
A1-015; S-001; S-002; Z-004	1221	A1; B1; S; Y; Z		Laredo Wo Ltd			C/O Galo Properties	1175 W Bitters Rd	Ste 100	San Antonio	TX	78216-7606	R472557; R489462; R500984; R502431
A2-001	158	A2; D2; V5		Crossley	C H & Patsy		PO Box 1117			Round Rock	TX	78680-1117	R037964
A2-002	157	A2		Day	Ellen M		6725 Outer Ave			Leander	TX	78641-9387	R037963
A2-003		A2		Crossley	Cleveland H Jr & Francis E		3420 Cr 175			Leander	TX	78641	R509038
A2-004		A2		Perkins	Joseph & Carolyn		6600 Acacia Dr			Leander	TX	78641-9307	R037962
A2-005		A2; V5		Powell	Kathleen S & Kenneth		6724 Outer Ave			Leander	TX	78641-9384	R037966
A2-006	154	A2		Kau	Gary K & Sally P		6820 Acacia Dr			Leander	TX	78641-9300	R037967
A2-007		A2		Hohnstreiter	Shawn P & Amy		6601 Acacia Dr			Leander	TX	78641	R037946
A2-008	156	A2		Hogle	Christopher R & Aranya		6701 Acacia Dr			Leander	TX	78641-9369	R037945
A2-009		A2		Williams	David M		6900 Acacia Dr			Leander	TX	78641	R037968
A2-010	155	A2		Williams	Jeremiah D & Leslie A		6875 Acacia Dr			Leander	TX	78641-9369	R037944
A2-011		A2; Z1		Lynch	Cherry Ann		7215 Acacia Dr			Leander	TX	78641	R037942
A2-012		A2; Z1		Young	Raymond Joseph & Dale R		7225 Acacia Dr			Leander	TX	78641	R037941
A3-001	739	A3		Ellison	Willis W		2957 Desert Candle Dr			Round Rock	TX	78681	R501691
A3-002; A3-049; A3-050; O3-002; O3-013; O3-057		A3; A3a; F3; O3; U3		Behrens Ranch Master Assoc			Attn: Pamco	PO Box 200145		Austin	TX	78720-0145	R327629; R405425; R414225; R418709; R426021; R501690
A3-003	738	A3		Pratt	Jeffrey M & Amy C		2961 Desert Candle Dr			Round Rock	TX	78681	R501689
A3-004	737	A3		Dickerson	Jennifer Panther & Brant		3077 Portulaca Dr			Round Rock	TX	78681-2451	R501688
A3-005; A4-007; A4-056; A4-070; F1-001; F3-001; G3-104; G3-115; G3-133; H3-097; H3-098; I3-205; I3-221; I3-226; I3-232; I3-233; T2-113; T2-306; W2-045; Y2-182		A3; A3a; A4; B4; B4a; D1; D3; D3a; E3; F1; F3; G1; G3; H3; I3; N3; O3; R5; T2; U2; U3; U5; W2; W2a; Y2		City Of Round Rock			221 Main St			Round Rock	TX	78664-5299	R055113; R055180; R061942; R084213; R084233; R092147; R343490; R361342; R366078; R374074; R374075; R432037; R441141; R452394; R475070; R478485; R501700; R505548; R514713; R523593
A3-006	736	A3		Hernandez	Indalecio M & Rachel A		3073 Portulaca Dr			Round Rock	TX	78681	R501687
A3-007		A3		Ko	Sung Hoon & Gina J Lee		3072 Portulaca Dr			Round Rock	TX	78681	R501719

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
A3-008	735	A3		Shaban	Ashraf Abu & Hayat A		3069 Portulaca Dr			Round Rock	TX	78681	R501686
A3-009		A3		Schell	Susan & Frank		3068 Portulaca Dr			Round Rock	TX	78681	R501718
A3-010	734	A3		Bartelson	Richard T & Randi L		3065 Portulaca Dr			Round Rock	TX	78681	R501685
A3-011		A3		Crownover	Spencer F		3064 Portulaca Dr			Round Rock	TX	78681	R501717
A3-012	733	A3		Fondren	Bill D & Barbara J		3061 Portulaca Dr			Round Rock	TX	78681	R501684
A3-013		A3		Orourke	Kristin		3060 Portulaca Dr			Round Rock	TX	78681	R501716
A3-014	732	A3		Nieto	John & Amy		3057 Portulaca Dr			Round Rock	TX	78681	R501683
A3-015		A3		Chinnam	Chandra & Satyavathi Yerukala		3056 Portulaca Dr			Round Rock	TX	78681	R501715
A3-016	731	A3		Porterfield	John & Vicky		3053 Portulaca Dr			Round Rock	TX	78681	R501682
A3-017		A3		Veeramasuneni	Surendra & Sridevi		3052 Portulaca Dr			Round Rock	TX	78681	R501714
A3-018	730	A3		Short	Billy R Jr		3049 Portulaca Dr			Round Rock	TX	78681	R501681
A3-019		A3		Sadasivuni	Krishna		3048 Porulaca Dr			Round Rock	TX	78681	R501713
A3-020	729	A3		Prater	Nilon & Jennifer		3045 Portulaca Dr			Round Rock	TX	78681	R501680
A3-021		A3		Thalluri	Murali		3044 Portulaca Dr			Round Rock	TX	78681	R501712
A3-022	728	A3		Brandon	Aaron W & Jessica A		3041 Portulaca Dr			Round Rock	TX	78681	R501679
A3-023		A3		Logue	Morgan A & Andrea L		3040 Portulaca Dr			Round Rock	TX	78681	R501711
A3-024	727	A3		Gay	Jason D		3037 Portulaca Dr			Round Rock	TX	78681	R501678
A3-025		A3		Dequeiroga	Marcos V & Ana P		3036 Portulaca Dr			Round Rock	TX	78681	R501710
A3-026	726	A3		Scott	Shawn L & Marnie M		3033 Portulaca Dr			Round Rock	TX	78681	R501677
A3-027		A3		Paidimarri	Kishore & Krishna S Konkimalla		3032 Portulaca Dr			Round Rock	TX	78681-2451	R501709
A3-028	725	A3		Gray	William S & Heather J		3029 Portulaca Dr			Round Rock	TX	78681	R501676
A3-029		A3		Kalavapalli	Ramprasad R		3028 Portulaca Dr			Round Rock	TX	78681	R501708
A3-030	724	A3		Mullen	Sean M & Molly A		3025 Portulaca Dr			Round Rock	TX	78681	R501675
A3-031		A3		Hurtado	Juan F & Michelle E		3024 Portulaca Dr			Round Rock	TX	78681	R483886
A3-032	723	A3		Brown	Harold E & Debra K		3021 Portulaca Dr			Round Rock	TX	78681	R483834
A3-033	722	A3		James	David Alan Jr & Leigh Ann		3017 Portulaca Dr			Round Rock	TX	78681	R483833
A3-034	721	A3		Siddavatam Prasad & Sailaja Chadaram Trustees Of Siddavatam & Chadaram Liv Tr			3013 Portulaca Dr			Round Rock	TX	78681	R483832
A3-035		A3		Nandula	Vithal & Srilatha Vangala		3009 Portulaca Dr			Round Rock	TX	78681-2451	R483831
A3-036; I3-225; O3-112; W2-030	541; 716; 717; 718; 719; 720	A3; A3a; I3; O3; W2; W2a		Round Rock Isd			1311 Round Rock Ave			Round Rock	TX	78681-4999	R312429; R414066; R462687; R502459
A3-037	715	A3		Ward	Ryan P & Erin E		2601 Covington Pl			Round Rock	TX	78681	R418708
A3-038	714	A3; A3a		Polak	Tab		2603 Covington Pl			Round Rock	TX	78681-2285	R418707
A3-039	713	A3; A3a		Moser	Robert G & Linda N		2604 Covington Pl			Round Rock	TX	78681-2285	R418706
A3-040	712	A3; A3a		Stewart	Robert D		2602 Covington Pl			Round Rock	TX	78681	R418705
A3-041	711	A3		Overton	Kerry L & Anita R		2600 Covington Pl			Round Rock	TX	78681-2285	R418704
A3-042	709	A3		Fohl	Steve & Lourdes		2701 Covington Pl			Round Rock	TX	78681	R418703
A3-043	710	A3		Shanklin	Elizabeth Denise & Brian Farris		2703 Covington Pl			Round Rock	TX	78681-2286	R418702
A3-044	708	A3; A3a		Allen	Shawn R		2705 Covington Pl			Round Rock	TX	78681	R418701
A3-045	707	A3; A3a		Haney	Juan T & Sharon D		2706 Covington Pl			Round Rock	TX	78681	R418700
A3-046	705	A3		Messing	Jeffrey Paul		2704 Covington Pl			Round Rock	TX	78681	R418699
A3-047	706	A3		Caldwell	Thomas Howard & Robin Elizabeth		2702 Covington Pl			Round Rock	TX	78681	R418698
A3-048		A3		Blankenship	Thomas & Lauren		2700 Covington Pl			Round Rock	TX	78681	R418697
A3-051		A3		Self	Jeffery J & Carol G		3333 Goldenoak Cir			Round Rock	TX	78681-2292	R429385
A3-052	704	A3		Savage	Jason C & Jennifer R		3329 Goldenoak Cir			Round Rock	TX	78681-2292	R429386
A3-053		A3		Beech	Laura A & Luther M		3002 Pointe Pl			Round Rock	TX	78681	R429449
A3-054	703	A3		Leon	Rafael I & Blythe S		3325 Goldenoak Cir			Round Rock	TX	78681	R429387
A3-055	700	A3		Davis	John A & Glenda L		3001 Briar Oak Ln			Round Rock	TX	78681	R429435
A3-056	702	A3		Brooks	Louis C	Jr	3321 Goldenoak Cir			Round Rock	TX	78681-2292	R429388
A3-057	701	A3		Moriarty	Don & Nancy		3317 Goldenoak Cir			Round Rock	TX	78681-2292	R429389
A3-058	699	A3		Bridges	Jeffrey M & Angela D		3313 Goldenoak Cir			Round Rock	TX	78681	R429390
A3-059	698	A3		Lee	Leon Z & Ngocdung T Nguyen		3002 Briar Oak Ln			Round Rock	TX	78681-2294	R429460
A3-060	697	A3; A3a		Smith	Christopher C		3309 Goldenoak Cir			Round Rock	TX	78681	R429391
A3-061	695	A3		Cordon	Marco A Jr & Mary B		3262 Goldenoak Cir			Round Rock	TX	78681-2291	R429450
A3-062	696	A3; A3a		Herrneckar	Franklin Scott & Lisa D		3305 Goldenoak Cir			Round Rock	TX	78681-2292	R429392
A3-063	694	A3; A3a		Davalt	James E & Anna		3301 Goldenoak Cir			Round Rock	TX	78681-2292	R429393
A3-064	693	A3; A3a		Partridge	John Michael & Heather H		3269 Goldenoak Cir			Round Rock	TX	78681	R429394
A3-065	692	A3		Perram	Phillip & Sandra		3265 Goldenoak Cir			Round Rock	TX	78681	R429395
A3-066		A3		Grey	John E & Kristin A		3261 Goldenoak Cir			Round Rock	TX	78681-2291	R429396

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
A3-067; A3-070; A3-081; A3-084; A3-090; A3-091; A3-092; A3-093; A3-094; A3-099; N3-190; N3-201; N3-202; N3-203; N3-204; N3-205; N3-206; N3-207; N3-208; N3-211; N3-212; N3-213; N3-214; N3-215; N3-216; N3-229; Y2-055	669; 673; 674; 675; 676; 677; 681; 689; 690; 925; 926; 929; 930	A3; A3a; N3		Standard Pacific Of Texas Inc			Attn: John Bohnen	11001 Lakeline Blvd	Bldg I, Ste 100	Austin	TX	78717	R345071; R511317; R520582; R520587; R520588; R520589; R520590; R520591; R520595; R520642; R520653; R520656; R529911; R532977; R532978; R532979; R532982; R532983; R532984; R532985; R532986; R532987; R532988; R532995; R533003; R533004; R533005
A3-068	688	A3		Kumar	Rajiv		107 Alondra Way			Round Rock	TX	78681	R520655
A3-069	691	A3		Nikam	Kunal & Amruta Salekar		111 Alondra Way			Round Rock	TX	78681	R520654
A3-071		A3		Kankanala	Vikram & Swathi Vemula		117 Alondra Way			Round Rock	TX	78681	R520652
A3-072; Y2-005; Y2-053; Y2-081; Y2-103; Y2-105; Y2-109; Y2-113; Y2-126		A3; A3a; O5; P5; W2; Y2; Z2		Sendero Springs Homeowners Association			C/O Realmanage	9601 Amberglen	Ste 150	Austin	TX	78729	R415852; R415853; R415905; R415906; R415907; R462224; R511276; R511303; R520601
A3-073; A3-120; A3-131; A3-135; A3-146; A4-004; E4-009; E4-011; N3-043; N3-044; N3-123; O3-062; O3-113; Y2-072; Y2-129		A3; A3a; A4; B3; D4; E4; N3; O3; O5; P5; Q5; W2; Y2; Z2		Brushy Creek Mud			16318 S Great Oaks Dr			Round Rock	TX	78681-5685	R055107; R055142; R055351; R063709; R327255; R429654; R432304; R451319; R461972; R473384; R501461; R511287; R520564; R520567; R520602
A3-074	687	A3; A3a		Perry	Mark R & Monica		739 Cascada Ln			Round Rock	TX	78681	R520600
A3-075	686	A3		Mopuri	Srinivas & Vijaya		114 Alondra Way			Round Rock	TX	78681	R520644
A3-076		A3		Ullrich	Chris		118 Alondra Way			Round Rock	TX	78681	R520645
A3-077	685	A3; A3a		Velagapudi	Krishnamurthy & Bharathi		735 Cascada Ln			Round Rock	TX	78681	R520599
A3-078	684	A3; A3a		Surapuraju	Raghavendra Prasad & Deepa Nunapalli		731 Cascada Ln			Round Rock	TX	78681	R520598
A3-079		A3		Salgado	Gary & Carol		3086 Blazing Star Dr			Thousand Oaks	CA	91362	R520643
A3-080	683	A3; A3a		Muthuvelu	Bharathkumar		729 Cascada Ln			Round Rock	TX	78681	R520597
A3-082	682	A3; A3a		Chacko	Binoj & Sherly		725 Cascada Ln			Round Rock	TX	78681	R520596
A3-083		A3		Kam	Yoo Hong & Mi-Kyung		720 Cascade Ln			Round Rock	TX	78681	R520641
A3-085		A3		Bommanaboina	Srinivas & Mamatha Jangti		716 Cascada Ln			Round Rock	TX	78681	R520640
A3-086	680	A3; A3a		Valappil	Sivaprasad Pattanmaru		717 Cascada Ln			Round Rock	TX	78681	R520594
A3-087		A3		Padhi	Prasanta & Subrata Panda		712 Cascada Ln			Round Rock	TX	78681	R520639
A3-088	679	A3; A3a		Kalro	Ravinder & Soujanya Masna		713 Cascada Ln			Round Rock	TX	78681	R520593
A3-089	678	A3		Boddu	Karunakar Reddy & Haritha R		104 Farola Cv			Round Rock	TX	78681	R520592
A3-095		A3		Yadav	Abhishek & Nutan Kumari		103 Farola Cv			Round Rock	TX	78681	R520586
A3-096; N3-192; N3-193; N3-194; N3-195; N3-196; N3-197; N3-198; N3-199; N3-200	672; 931	A3; A3a; N3		Standard Pacific Homes Inc			11001-I Lakeline Blvd #100			Austin	TX	78717	R520585; R536853; R536854; R536855; R536856; R536857; R536858; R536859; R536860; R536869
A3-097	671	A3; A3a		Mohan	Manoj & Sreevidhya Ajayan		565 Cascade Ln			Round Rock	TX	78681	R520584
A3-098	670	A3; A3a		Sathy	Manoj Soman & Anu Manoj		561 Cascada Ln			Round Rock	TX	78681	R520583
A3-100	668	A3; A3a		Kaza	Venkata Priyatham & Esha Rao Lingamaneni		553 Cascada Ln			Round Rock	TX	78681	R520581

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
A3-101		A3		Senapati	Biswa & Leepika Jena		549 Cascada Ln			Round Rock	TX	78681	R520580
A3-102		A3		Bheem Reddy	Abhilash R & Prathiba		521 Cascada Ln			Round Rock	TX	78681	R520579
A3-103	667	A3; A3a		Nicolet	Scott		517 Cascada Ln			Round Rock	TX	78681	R520578
A3-104	666	A3; A3a		Ravichandran	Sai Vikram		513 Cascada Ln			Round Rock	TX	78681	R520577
A3-105	665	A3; A3a		Garg	Arvind Kumar		509 Cascada Ln			Round Rock	TX	78681	R520576
A3-106	664	A3; A3a		Lu	Jerry Xun & Daphne Yulan Tan		505 Cascada Ln			Round Rock	TX	78681-1785	R520575
A3-107	663	A3; A3a		Sasimohanan	Shyju		501 Cascada Ln			Round Rock	TX	78681	R520574
A3-108	662	A3; A3a		Deshmukh	Dushyant		455 Cascada Ln			Round Rock	TX	78681	R520573
A3-109	661	A3; A3a		Sridhar	Raghu Raman Thennalur		449 Cascada Ln			Round Rock	TX	78681	R520572
A3-110	660	A3; A3a		Papudippu	Sreedhar R & Swathi R Cherukumulinti		445 Cascada Ln			Round Rock	TX	78681	R520571
A3-111	659	A3; A3a		Virmani	Vikram		441 Cascada Ln			Round Rock	TX	78681	R520570
A3-112	658	A3; A3a		Kanakasabapathy	Rathineswaran		439 Cascada Ln			Round Rock	TX	78681	R520569
A3-113	657	A3; A3a		Abraham	Tinku & Lowlyn Jacob		433 Cascada Ln			Round Rock	TX	78681	R520568
A3-114		A3		Contractor	Shaik S A		414 Cascada Ln			Round Rock	TX	78681	R520607
A3-115		A3		Duvva	Manoj		410 Cascada Ln			Round Rock	TX	78681	R520606
A3-116		A3		Pillai	Praveen S & Sruthi P		406 Cascada Ln			Round Rock	TX	78681	R520605
A3-117		A3		Gokhale	Bhushan		402 Cascada Ln			Round Rock	TX	78681	R520604
A3-118	656	A3; A3a		Kalaria	Kalpit Khimjibhai & Karmistha M Gothi		405 Cascada Ln			Round Rock	TX	78681	R520566
A3-119	655	A3; A3a		Eyler James James Edward & Jacqueline Dale Trustees Of Living Trust			401 Cascada Ln			Round Rock	TX	78681	R520565
A3-121	654	A3; A3a		Cavazos	Odilon III & Jennifer L		339 Cascada Ln			Round Rock	TX	78681	R520563
A3-122	653	A3; A3a		Chodisetti	Suresh Kumar & Saritha Devi Nunna		335 Cascada Ln			Round Rock	TX	78681	R520562
A3-123	652	A3; A3a		Block	Adam		329 Cascada Ln			Round Rock	TX	78681	R520561
A3-124	651	A3; A3a		Clack	Marva Renee		325 Cascada Ln			Round Rock	TX	78681	R520560
A3-125	650	A3; A3a		Ghate	Sucharit M & Niharika Nidhi		321 Cascada Ln			Round Rock	TX	78681	R520559
A3-126	649	A3; A3a		Ince	Warren L & Kristi M		317 Casada Ln			Round Rock	TX	78681	R520558
A3-127	648	A3; A3a		Olson	Stephen Jon	Jr	313 Cascada Ln			Round Rock	TX	78681	R520557
A3-128	647	A3; A3a		Raj	Renju		309 Cascada Ln			Round Rock	TX	78681	R520556
A3-129	646	A3; A3a		Griffith	Brandon E & Vilma A		305 Cascada Ln			Round Rock	TX	78681	R520555
A3-130	645	A3; A3a		Madinedi	Kiran Kumar		301 Cascada Ln			Round Rock	TX	78681	R520554
A3-132	643	A3; A3a		Mclaughlin	Michael		1009 Cascada Ct			Round Rock	TX	78681	R520553
A3-133	642	A3		Pham	Hien		1005 Cascada Ct			Round Rock	TX	78681	R520552
A3-134	644	A3		Joubert	Josef		1001 Cascada Ct			Round Rock	TX	78681	R520551
A3-136		A3		Siegfried	Soi Yu Chan & Daniel		113 Brisa Bend Way			Round Rock	TX	78681	R511297
A3-137				Jeon	Seon Kyu		109 Brisa Bend Way			Round Rock	TX	78681	R511296
A3-138				Gupta	Saurabh		105 Brisa Bend Way			Round Rock	TX	78681	R511295
A3-139				Fulks	Jonathan		200 E Adelanta Pl			Round Rock	TX	78681-1730	R511294
A3-140				Mcdonald	Amy K		204 E Adelanta Pl			Round Rock	TX	78681	R511293
A3-141				Hallman	Holly M		208 E Adelanta Pl			Round Rock	TX	78681-1730	R511292
A3-142		A3		Dautremont	Matthias & Kristine		212 E Adelanta Pl			Round Rock	TX	78681	R511291
A3-143	641	A3		Akbar	Shadab & Afshan R		216 E Adelanta Pl			Round Rock	TX	78681-1730	R511290
A3-144	640	A3; P5; Z2		Badri	Sreenivas		220 E Adelanta Pl			Round Rock	TX	78681	R511289
A3-145	639	A3; O5; P5; W2; Y2; Z2		Louis	Alande & Jennifer		224 E Adelanta Pl			Round Rock	TX	78681	R511288
A4-001	1195	A4; D4; E4		Graner	Wallace H		3006 Bee Caves Rd	Ste B-160		Austin	TX	78746	R064969
A4-002	1196	A4; D4; E4		Garcia	Pablo		1908 Hermitage Dr			Round Rock	TX	78681	R064970
A4-003		A4; D4; E4		Lovelidge	Greg		1906 Hermitage Dr			Round Rock	TX	78681-1951	R064971
A4-005; N3-093; Y2-087	959	A4; N3		Brushy Creek Mud			Attn Goodwin Mgmt Inc	PO Box 203310		Austin	TX	78720-3310	R055105; R059027; R415911
A4-006		A4		Speary	Kirk R & Deborah K		2009 Cedar Bend Dr			Round Rock	TX	78681-2127	R335583
A4-008		A4		Gill	Jeffery R		2015 Sam Bass Rd			Round Rock	TX	78681-1905	R055179
A4-009		A4		Gill	Rose V Fulkes		2101 Sam Bass Rd			Round Rock	TX	78681-1821	R055178
A4-010	1185	A4		Foltz	Karen L Tamplin & Alva R		2105 Sam Bass Rd			Round Rock	TX	78681-1821	R055242
A4-011		A4		Rooholamini	M Reza		345 E Wacker Dr Unit 4001			Chicago	TX	60601-5274	R092149
A4-012	1190	A4		Evans	Troy D & Yvonne Lynn		1810 Woods Blvd			Round Rock	TX	78681-2152	R092150
A4-013; A4-015; A4-016	1191	A4		Woods Homeowners Assoc The			115 Wild Basin Rd	Ste 308		Austin	TX	78746	R092151; R092170; R092171
A4-014		A4		Allen	Leslie M & Linda J		1801 White Oak Loop			Round Rock	TX	78681-2117	R092172
A4-017	1189	A4		Scronce	Timothy E & Brenda A		1056 W Kent Rd			Winston Salem	NC	27104-1130	R092169
A4-018	1188	A4		Hunt	John & Elizabeth F		1723 White Oak Loop			Round Rock	TX	78681	R092168
A4-019	1187	A4		Aguilar	Moises C Jr & Jeanette		1721 White Oak Loop			Round Rock	TX	78681-2115	R092167
A4-020		A4		Russell	Dina		1719 White Oak Loop			Round Rock	TX	78681-2115	R092166

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Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
A4-021		A4		Urbanski	Stephen Henry	Jr	1717 White Oak Loop			Round Rock	TX	78681-2115	R092165
A4-022		A4		Preece	Lynette C		1715 White Oak Loop			Round Rock	TX	78681-2115	R092164
A4-023	1175; 1176	A4		Boardwalk At Sam Bass Inc			1920 Darden Hill Rd			Driftwood	TX	78619-9701	R061943
A4-024	1184; 1186	A4		One Way Baptist Church Inc			2107 Hairy Man Rd			Round Rock	TX	78681-1880	R055174
A4-025	1183	A4		Boles	Jim & Monti		2201 Hairy Man Rd			Round Rock	TX	78681	R055175
A4-026		A4		Raumaker	Randall & Leah		2525 Outlook Ridge Loop			Leander	TX	78641-4964	R061918
A4-027	1174	A4		Murphy	Patrick Michael		PO Box 2243			Round Rock	TX	78680-2243	R061919
A4-028	1173	A4		Graham	Lucas & Jennifer		10021 Lexington Ave Ne			Albuquerque	NM	87112-1506	R061920
A4-029	1172	A4		Christ	Michael J & Jason Peebles		5610 Mt Bonnel Dr			Austin	TX	78731	R061921
A4-030	1171	A4		Gilmer	J Davis & Mary S		5114 Balcones Woods Dr Ste 307-139			Austin	TX	78759	R061922
A4-031	1170	A4		Curl	Margarita L		7603 Blue Jay Ct			Georgetown	TX	78628	R061923
A4-032; A4-038	1167; 1169	A4		Menefee	Randy L		1717 Horseshoe Cir			Round Rock	TX	78681-1877	R061924; R061926
A4-033		A4		Luk	Michael P		30026 Woodthrush Pl			Hayward	CA	94544	R061964
A4-034		A4		Huerta	Sigifredo H & Maria C		907 Pepperell Ct			Austin	TX	78753	R061965
A4-035		A4		Dowe	Michael A Jr & Sarah L		188 Lemens Ave			Hutto	TX	78634-3435	R061966
A4-036	1182	A4		Myers	Carolyn Kay		2203 Hairy Man Rd			Round Rock	TX	78681-1835	R055176
A4-037	1168	A4		Winter	Wesley E		PO Box 356			Round Rock	TX	78680-0356	R061925
A4-039	1166	A4		Ricker	Christine & John C		PO Box 1986			Round Rock	TX	78680-1986	R061927
A4-040		A4		Scott	Eirik		205 Morar Dr			Briarcliff	TX	78669-2043	R061928
A4-041		A4		Mafi	Sam		Mmp Associates	2900 Anderson Ln C-200 # 235		Austin	TX	78757	R061929
A4-042	1164	A4		Pisoni	Sean		650 Nw 54Th St			Seattle	WA	98107	R061930
A4-043	1165	A4		Prideaux Limited Parnership			5710 Standing Rock Dr			Austin	TX	78730-2859	R061931
A4-044	1163	A4		Cagle	Joel S	III	2300 Whitlow Cv 2302			Round Rock	TX	78681-1847	R061932
A4-045	1180; 1181	A4		Smith	Christopher E Jr & Sandra Kay		2309 Hairy Man Rd			Round Rock	TX	78681	R056322
A4-046	1161	A4		Thate	Agueda		8505 Ocelot Cv			Round Rock	TX	78681-3753	R061935
A4-047	1160	A4		Landi	Robert C		133 30Th Ave			San Mateo	CA	94403-2712	R061934
A4-048	1162	A4		Antov	Tzvetan L & Antonia N		PO Box 81216			Austin	TX	78708-1216	R061933
A4-049	1158	A4		Brown	Jeannine F		PO Box 7805			Horseshoe Bay	TX	78657	R061936
A4-050	1159	A4		Pickerill Laurie Trustee Of Barbara Jean Swenson Management Trust			244 Cambridge Dr			New Braunfels	TX	78132	R061937
A4-051	1157	A4		I2Properties Llc Series A			117 Tallstar Dr			Lakeway	TX	78734	R061938
A4-052	1156	A4		Pineda	Zacharia P & Lisa M		129 Costa Rica Ave			Burlingame	CA	94010-5211	R061939
A4-053	1155	A4		Reynaga	Marcos I		16238 Ranch Road 620 N			Austin	TX	78717-5212	R061940
A4-054	1154	A4		Hartmann	Gabriel & Phillip Madison & Mary Madison		38711 Jonquil Dr			Newark	CA	94560	R108802
A4-055	1178; 1179	A4		Gonzalez	Jorge I		2211 Hairy Man Rd			Round Rock	TX	78681	R056321
A4-057		A4		Hubert	Chris & Natalie		2400 Creek Bend Dr			Round Rock	TX	78681	R061989
A4-058	1153	A4		Harris	William P & Francine L		2403 Creek Bend Cir			Round Rock	TX	78681-1831	R061945
A4-059		A4		Lewis	Corri & Nelson		2405 Creek Bend Cir			Round Rock	TX	78681	R061946
A4-060		A4		Jackson	James David		2501 Creek Bend Cir			Round Rock	TX	78681-1853	R061947
A4-061		A4		Mcmaster	Steven & Dorothy		2503 Creek Bend Cir			Round Rock	TX	78681	R061948
A4-062		A4		Smith	Sheila I & Roy Brenton		2505 Creek Bend Cir			Round Rock	TX	78681	R061949
A4-063		A4		Lincoln	Thomas J & Vickie		2507 Creek Bend Cir			Round Rock	TX	78681	R061950
A4-064		A4		Dockery	Bryan & Pamela		2509 Creek Bend Cir			Round Rock	TX	78681-1853	R061951
A4-065		A4		Scott	Michael R & Lori C		2511 Creek Bend Cir			Round Rock	TX	78681-1853	R061952
A4-066		A4		Casper	Aimee & Gary C		2601 Creek Bend Cir			Round Rock	TX	78681-1844	R054108
A4-067		A4		Bruno	Margaret D		2603 Creek Bend Cir			Round Rock	TX	78681-1844	R061954
A4-068		A4		Wadsworth	Wm & Cheryl Trustees W&C Wadsworth Livin		2605 Creek Bend Cir			Round Rock	TX	78681-1844	R061955
A4-069		A4		Morgan	Lawrence D		2607 Creek Bend Cir			Round Rock	TX	78681-1844	R096742
A4-071		A4; B4; B4a; N3; U3		Smith Vera Mae Trustee			2511 Sam Bass Rd			Round Rock	TX	78681-1807	R055221
A4-071		A4; B4; B4a; N3; U3		The James Carson and Vera Mae Smith Trust, dated May 15, 1995			C/O Ms Vera Mae Smith, Surviving Trustor	2511 Sam Bass Rd		Round Rock	TX	78681-1807	R055221; R055222
A4-071		A4; B4; B4a; N3; U3		The James Carson Smith "Trust B" Bypass Trust			C/O Ms Vera Mae Smith, Surviving Trustor and Trustee	2511 Sam Bass Rd		Round Rock	TX	78681-1807	R055221; R055222
A4-072; A4-073; U3-001; U3-002	1018; 1019	A4; B4; B4a; N3; U3		Hunt	Mark W & Kathy S		3005 Cajuiles Dr			Pflugerville	TX	78660-5094	R051359; R055236; R310504; R485152
A5-001	104	A5; B5; L1		Hogge Robert C & Alexie C Co-Trs Of Hogge Family Trust			101 Creek Meadow Cv			Leander	TX	78641	R424912
A5-002; A5-003; A5-020; C5-001	105	A5; B5; C5; D5; D6; E5; F5; K1; L1; M1		Borho	Curtis C		2151 County Road 175			Leander	TX	78641-1605	R031535; R031536; R031542; R032270
A5-004				Reid	Justin Derek & Lindsey		PO Box 145			Cedar Park	TX	78630	R493041
A5-005				Putman	Donald Lloyd & Rosemary		201 Fort Mabry Loop			Georgetown	TX	78628	R493042
A5-006				Sanchez	Neil James & Karen Marie		205 Fort Mabry Loop			Georgetown	TX	78628-7200	R493043

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
A5-007				Lindberg	Eldon D & Judy L		209 Fort Mabry Loop			Georgetown	TX	78628-7200	R493044
A5-008				Ruschhaupt	Grady K & Jennifer R		213 Fort Mabry Loop			Georgetown	TX	78628-7200	R493045
A5-009				Morris	Joshua N & Delisa L		217 Fort Mabry Loop			Georgetown	TX	78628-7200	R493046
A5-010				Mcfarland	Brian & Robin		231 Fort Mabry Loop			Georgetown	TX	78628-7200	R493047
A5-011				Rye	James D		235 Fort Mabry Loop			Georgetown	TX	78628	R493048
A5-012				Contreras	Sonny & Heather Nelson		239 Fort Mabry Loop			Georgetown	TX	78628	R493049
A5-013				Warren	Jeremy & Laura A		517 Purtis Creek Ln			Georgetown	TX	78628	R493055
A5-014	103	A5		Thompson	Craig A & Karon K		100 Creek Meadow Cv			Leander	TX	78641-1663	R424906
A5-015		A5		Akers	Jeremy K		110 Creek Meadow Cv			Leander	TX	78641	R424907
A5-016	102	A5		Bookmyer	Kelsey & Stephen		1920 County Road 175			Leander	TX	78641-1672	R424903
A5-017; O3-149; O3-150		A5; J1; O3; Y4		Speck	John W III & Glenda N		2409 Deer Trail Cir			Round Rock	TX	78681-1501	R032039; R032040; R424902
A5-018		A5		Williams	Skyler E		1955 Cr 175			Leander	TX	78641	R424905
A5-019		A5		Fisher	Larry J & Anna		1875 Cr 175			Leander	TX	78641-1674	R424904
A5-021				Lincoln	Elaine C		2100 County Road 176			Georgetown	TX	78628-7132	R408259
A6-001; L-001; L-006		A6; C6; F6; L; M; N; P		Mahendru	Devidass & Swaran		9708 Oxaus Ln			Austin	TX	78759-7766	R054292; R442210; R473653
A6-002; A6-006; A6-008; A6-011; C6-002; C6-003; K-007; X5-003; Z5-001	34	A6; B6; C6; E; J; K; L4; S4; X5; Z5		Mahendru	Vivek	MD	7109 Villa Maria Ln			Austin	TX	78759-7776	R031279; R031280; R031286; R031298; R031317; R031318; R031347; R319481; R462377
A6-003; K-008; L-010	23	A6; K; L		Mahendru	Vivek & Lisa K		7109 Villa Maria Ln			Austin	TX	78759-7776	R031297; R031398; R473651
A6-004; L-015		A6; L		Subramanian Ltd			17502 Whippoorwill Trl			Lago Vista	TX	78645-9735	R031339; R473650
A6-005; L-016		A6; L		Green	Michael D & Sandra L		3709 Goodnight Trl			Leander	TX	78641-3648	R031350; R473649
A6-007; L-022	33	A6; L		Presidential Rv & Boat Storage Llc			2905 Bryco Cv			Round Rock	TX	78681-2254	R031348; R433130
A6-009; L-025; L-026; Q2-004	245	A6; I2; J2; L; Q2		Cedar Park Vfw #10427 Post			8760 Fm 2243			Leander	TX	78641	R031314; R375914; R433126; R433127
A6-010; K-019; K-020		A6; K		Slg Properties Llc			3709 Goodnight Trl			Leander	TX	78641	R031316; R086402; R525765
A6-012	31; 32	A6		Easley Harry S & Nella R Family Trust			14300 Ronald W Reagan Blvd			Leander	TX	78641-2541	R375860
B-001	5; 6	A; B; C; G; I; Y5	Ms.	Barton	Mercy Stack		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Ms.	Budrich	Kathy Sherman		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Ms.	DeCuir	Betty Jo Sherman		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Ms.	Denham	Mary Martha Lowrance		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Ms.	Hoisager	Molly Stack		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Ms.	Jess	Christie Sherman		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Mr.	Lowrance	John B		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Ms.	Munn	Sheryl		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Ms.	Robertson	Laminda "Mindy" Stack		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Ms.	Ross	Diane Stack		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Mr.	Sherman	Robert "Ron" F	Jr	PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Mr.	Stack	Charles S		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Mr.	Stack	John Elbert	III	PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Mr.	Stack	Marcus		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Mr.	Stack	Marshall		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Ms.	Stack	Mary		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Mr.	Stack	Michael		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Mr.	Stack	Mitchell		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Mr.	Stack	Robert Don "Skipper"		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Ms.	Tekell	Jan		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Ms.	Trader	Sandra Sherman Berry		PO Box 200995			Austin	TX	78729-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5		Wade	Agnes Stack Stevens Estate		PO Box 200995			Austin	TX	78720-0995	R051592
B-001	5; 6	A; B; C; G; I; Y5	Mr.	Wade	Michael L		Executor of the Estate of Agnes Stack Stevens Wade, deceased	PO BOX 200995		Austin	TX	78729-0995	R051592
B1-001	1226	B1		Smith	Jerry E		443 Doe Run			Georgetown	TX	78628-9642	R048277
B1-002		B1		Asklund	Travis J & Calley Callahan		440 Doe Run			Georgetown	TX	78628	R048276
B1-003	1225	B1		Cardenas	Pierre & Adriana		350 Fawnridge St			Georgetown	TX	78628	R048263
B1-004	1224	B1		Van Hyfte	Jerold B		353 Fawnridge St			Georgetown	TX	78628-9694	R352870
B1-005		B1		Kestler	Lisa C & David & Cheryl Ann Larson		290 Buck Bnd			Georgetown	TX	78628	R048244
B1-006	1223	B1		Richey	Robert D Jr & Alisa L		294 Buck Bnd			Georgetown	TX	78628-9696	R099048
B1-007	1222	B1	Ms.	Ellison	Kitty H Graeber		299 Buck Bend RD			Georgetown	TX	78628	R048243

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B1-007	1222	B1		Graeber Kitty H & Stephen P Ellison Estate			299 Buck Bend Rd			Georgetown	TX	78628	R048243
B1-008		B1		Whelan	Lawrence & Tracy		PO Box 1179			Cedar Park	TX	78630	R048242
B1-010				Surpitski	Stefan		275 Buck Bend			Georgetown	TX	78628	R048241
B1-011				Williamson	Thomas M & Virginia J		271 Buck Bend			Georgetown	TX	78628	R048240
B1-012				Jasek	Randall & Karen		265 Buck Bend			Georgetown	TX	78628-9696	R048239
B1-013				Fuchik	Margaret		259 Buck Bend			Georgetown	TX	78628-9696	R048238
B1-014				Williamson	Don & Shelley		249 Buck Bend			Georgetown	TX	78628-9696	R048237
B1-015				Kozlowski	Jerold J		243 Buck Bend			Georgetown	TX	78628-9696	R048236
B1-016				Hammond	Shari Hunt		2107 Agarita			Round Rock	TX	78665	R048235
B1-017				Hunt	Ronald E		221 Buck Bend			Georgetown	TX	78628-9696	R048234
B1-018					ROBERT V & LINDA G RANGEL REVOCABLE TRUST		215 Buck Bend			Georgetown	TX	78628	R048233
B1-019				Mehrens	Mitchell Oliver & Stacy Renee		344 Patricia Rd			Georgetown	TX	78628	R379676
B1-020				Rogers	John G & Lacey		330 Patricia Rd			Georgetown	TX	78628	R491428
B1-021				Bunn	Clifford D		328 Patricia Rd			Georgetown	TX	78628	R038547
B1-022				Swilling	John B & Marguerite A		320 Patricia Rd			Georgetown	TX	78628	R038546
B1-023; B1-024				Sedlor	Robert & Tina Ison		112 Antler Rd			Georgetown	TX	78628	R099248; R396899
B1-025				Denny	Dustin G & Jolene M		110 Antler Dr			Georgetown	TX	78628	R038542
B1-026; B1-028; B1-029; B1-030, B1-031				Reich	Richard A & Rayleen M		705 El Barco			Corsicana	TX	75901	R307106; R307105; R307103; R307104; R307111
B1-027				Cotton	Gene P & Mary B		3970 Mittie St			Vidor	TX	77662	R307110
B1-032				Williams	JAMES D		151 County Road 176			Georgetown	TX	78628-7135	R031525
B2-001	195	B2; E2		Lash William Henry & Kristen Co-Tr Of Lash Family Trust			1110 County Road 272			Leander	TX	78641-2533	R031481
B2-002	194	B2; E2; K2		Starnes	Leland & Patricia		1180 County Road 272			Leander	TX	78641-2533	R031480
B2-003	196; 197	B2; E2; K2		Sree Sai Ganesh Llc			401 Buck Ridge Rd			Cedar Park	TX	78613	R031507
B2-004; K2-019				Warren Glenn R Trustee			C/O Rick Warren	601 County Road 180		Leander	TX	78641-3126	R031407; R505450
B2-005; B2-007		B2		Cab-Com 32 Lp			2207 Lake Austin Blvd			Austin	TX	78703-4547	R528462; R528463
B2-006				Reserve At Caballo Ranch Condominiums			103 County Road 180			Leander	TX	78641	R529941
B2-008		B2		Elmore Richard G & Suzanne M			5 County Road 180			Leander	TX	78641-3120	R349682
B2-009	193	B2		Armour	Ray	Jr	500 Innwood			Georgetown	TX	78628-7606	R031503
B2-010; B2-011	192	B2		Bell	Phillip		14100 Ronald W Reagan Blvd			Leander	TX	78641-2529	R031477; R050830
B2-012		B2		Rauhut	J Brent		4201 Cat Mountain Dr			Austin	TX	78731-3704	R031490
B2-013; E2-002; E2-003; E2-010; E2-011; E2-013; E2-014; E2-015; E2-017		B2; E2; F2		Caballo Ranch Investment Lp			901 S Mo Pac Expy	Ste 1-200		Austin	TX	78746-5908	R054293; R472259; R495553; R501784; R501785; R501787; R501788; R501789; R501791
B2-014; B2-018; B2-019		B2		B Bonnet Investment Lp			C/O Daniel Mcfall	16927 Mouse Trap Dr		Round Rock	TX	78681	R495554; R495555; R495556
B2-015				Taylor	Janet Leigh		10 County Road 180			Leander	TX	78641-3102	R334673
B2-016		B2		Taylor	Charlotte M		8 Cr 180			Leander	TX	78641	R334675
B2-017		B2		Ortiz	Noe		14301 Ronald Reagan Blvd			Leander	TX	78641	R334674
B2-020; C2-001	190; 191	A2; B2; C2; F2; G2; H2; I2; L2; N2; O2; X1; Y1; Z1		Burleson	Russell Austin		865 Mayfair Way			Sykesville	MD	21784-6124	R031492; R375725
B2-021		B2		Reagan Ranch Llc			PO Box 161984			Austin	TX	78716	R485440
B2-022; B2-023; B2-025; B2-027; B2-029; B2-030; B2-031		B2; L5; R1; U1; U1a		George Don Ray Tr & Philip C Joseph			2904 Richard Ln			Austin	TX	78703	R315959; R315964; R315969; R315975; R315979; R315984; R485238
B2-024		B2		Texas White House Llc			9113 Castle Pines Dr			Austin	TX	78717	R031488
B2-026		B2		Thomas	Ken & Annette Boyle-Thomas		14500 Ronald W Reagan Blvd			Leander	TX	78641-2568	R430184
B2-028		B2; L5; U1		Bonnet	Vernon Lynn		301 Bar T Dr			Florence	TX	76527-4447	R031485

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Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
B3-001; B3-002; B3-003; C3-001; C3-002; E3-001; H3-008; K5-002; K5-004; K5-005; K5-009; K5-010; X2-001	1250; 1251; 1252	A3; A3a; B3; C3; D3; D3a; E3; F3; G3; H3; K5; O5; P5; Q5; R5; V2; W2; W2a; X2; Y2; Z2		Georgetown Railroad Co Inc			PO Box 529			Georgetown	TX	78627-0529	R039330; R040293; R055402; R323896; R323897; R323898; R323899; R324904; R332149; R353750; R403872; R449730; R485355
B4-001	1088	B4; B4a; F4; S5		Schilling	Florence R		2200 Falcon Dr			Round Rock	TX	78664	R302330
B4-002	1086	B4; B4a; F4; S5		Faltesek	Roy L & Lourdes		2202 Falcon Dr			Round Rock	TX	78681	R302329
B4-003	1084	B4; B4a; F4; S5		Ortega	Jaime R & Patricia A		2204 Falcon Dr			Round Rock	TX	78681	R302328
B4-004	1092	B4; F4; S5		Smith	Michelle Nicole Christine		2201 Falcon Dr			Round Rock	TX	78681-2716	R302639
B4-005	1087	B4; F4; S5		Bunch	Eric		2203 Falcon Dr			Round Rock	TX	78681	R302640
B4-006	1085	B4; F4		Mcdonald	Lyle & Myra		2205 Falcon Dr			Round Rock	TX	78681	R302641
B4-007	1095	B4; F4		Berry	Robert W Jr & Carolyn R		1010 Wren Ct			Round Rock	TX	78681-2741	R302664
B4-008		B4; F4		Vogl	Kevin & Michaela		1212 Parrot Trl			Round Rock	TX	78681	R302642
B4-009	1081	B4; B4a		Johnson	Robert S & Joanne M		2300 Falcon Dr			Round Rock	TX	78681-2754	R302327
B4-010	1080	B4; B4a		Koen	James Paul & Kathryn Lee		2302 Falcon Dr			Round Rock	TX	78681-2754	R302326
B4-011	1078	B4; B4a		Vandermeer	Timothy A & Melissa K		2304 Falcon Dr			Round Rock	TX	78681	R302325
B4-012	1076	B4; B4a		Hagemeier	Douglas Duane		2306 Falcon Dr			Round Rock	TX	78681	R302324
B4-013	1075	B4; B4a		Rogers Gilman F & Kathleen Cotrustees Of The Rogers Revoc Living Trust			2308 Falcon Dr			Round Rock	TX	78681-2754	R302323
B4-014	1073	B4; B4a		Reed	Stephen C		2310 Falcon Dr			Round Rock	TX	78681	R302322
B4-015	1071	B4; B4a		Hammock	Emerson & Kristin		2312 Falcon Dr			Round Rock	TX	78681	R302321
B4-016	1068	B4; B4a		Etter	Neil A & Elizabeth		2314 Falcon Dr			Round Rock	TX	78681	R302320
B4-017		B4		Moreland	Robert F & Linda B		1211 Parrot Trl			Round Rock	TX	78681-2746	R302623
B4-018	1083	B4		Hillyer	Jessica E & Mark A		1213 Parrot Trl			Round Rock	TX	78681	R302624
B4-019	1082	B4		Cameron	Kimberly & Marco D		1215 Parrot Trl			Round Rock	TX	78681	R302625
B4-020	1079	B4		Powers	Steve T & Leann M		2301 Falcon Dr			Round Rock	TX	78681-2717	R302626
B4-021	1077	B4		Rysdyke	Ernest L & Betty F		2303 Falcon Dr			Round Rock	TX	78681-2717	R302627
B4-022		B4		Oommen	Tibu P & Shilpa K Mathew		1209 Bobwhite Ct			Round Rock	TX	78681	R302628
B4-023		B4		Grosser	Jeff M & Julie K		1210 Bob White Ct			Round Rock	TX	78681	R302638
B4-024	1074	B4		Mader Donald A & Donna W Mader Trustees Of Mader Family Trust			202 Apache Mountain Ln			Georgetown	TX	78633	R302601
B4-025	1072	B4		Callahan	Sherry A		10624 Oak View Dr			Austin	TX	78759-4508	R302602
B4-026	1070	B4		Howard	M Candace & John David Howard		1209 Oakwood Blvd			Round Rock	TX	78681-2751	R302603
B4-027	1069	B4		Archer	James D & Sandra A		1207 Oakwood Blvd			Round Rock	TX	78681	R302604
B4-028		B4		Hickock	Jason & Amber Mezger		1205 Oakwood Blvd			Round Rock	TX	78681	R302605
B4-029	1067	B4; B4a		Dickerson	Juanita		2400 Falcon Dr			Round Rock	TX	78681-2719	R302319
B4-030	1064	B4; B4a		Daughtry	Marion		2402 Falcon Dr			Round Rock	TX	78681-2719	R302318
B4-031	1063	B4; B4a		Hoskins	Ronald G & Linda A		2404 Falcon Dr			Round Rock	TX	78681-2719	R302317
B4-032	1060	B4; B4a		Terrel	Andy R & Cheryl R		2406 Falcon Dr			Round Rock	TX	78681	R302316
B4-033	1059	B4; B4a		Holt	Dottye Ann		2408 Falcon Dr			Round Rock	TX	78681	R302315
B4-034	1056	B4; B4a		Tamez	Darby J		2410 Falcon Dr			Round Rock	TX	78681	R302314
B4-035	1055	B4; B4a		Morone	Anthony F & Lisa A		2412 Falcon Dr			Round Rock	TX	78681-2719	R302313
B4-036	1053	B4; B4a		Berry	David M & Elaine E Edwards		2414 Falcon Dr			Round Rock	TX	78681	R302312
B4-037	1052	B4; B4a		Swor	Amanda W & William F Swor Iii		2416 Falcon Dr			Round Rock	TX	78681	R302311
B4-038	1051	B4; B4a		Dahmer	Lynette		2418 Falcon Dr			Round Rock	TX	78681-2719	R302310
B4-039	1049	B4; B4a		Patel	Dilip G & Yogeshwari		2420 Falcon Dr			Round Rock	TX	78681-2719	R302309
B4-040	1048	B4; B4a		Riddle	Jeremy Allen & Heather Michel		2422 Falcon Dr			Round Rock	TX	78681	R302308
B4-041	1047	B4		Nava	Marco Antonio		2424 Falcon St			Round Rock	TX	78681	R302307
B4-042	1046	B4		Saeger	Kristin		2426 Falcon Dr			Round Rock	TX	78681	R302306
B4-043	1045	B4		Bari	Maksudul H		2428 Falcon Dr			Round Rock	TX	78681-2719	R302755
B4-044	1044	B4		Hughes	Jason T & Stephanie D		2430 Falcon Dr			Round Rock	TX	78681-2755	R302754
B4-045		B4		Robinson	Jennifer		2432 Falcon Dr			Round Rock	TX	78681-2755	R302753
B4-046		B4		Park	Yong Jin		2434 Falcon Dr			Round Rock	TX	78681	R302750
B4-047; B4-048	1043	B4		Oakcreek	Homeowners Assoc		9600 Great Hills Trl	Ste 100E		Austin	TX	78759-6303	R302741; R302745
B4-049	1065	B4		Shiekhi	Shahriar Allasvandi		PO Box 763			Manchaca	TX	78652	R302580
B4-050	1066	B4		Upchurch	Sherry B		1210 Oakwood Blvd			Round Rock	TX	78681	R302581
B4-051	1062	B4		Cook	Leigh Susan		1209 Hummingbird Ct			Round Rock	TX	78681	R302582
B4-052	1061	B4		Brant	Jesse C & Bobbi Ballard		1207 Hummingbird Ct			Round Rock	TX	78681-2736	R302583
B4-053	1058	B4		Harrison	Herman Jr & Brenda Kirk		1206 Hummingbird Ct			Round Rock	TX	78681-2736	R302590
B4-054	1057	B4		Clegg	Brian S & Rebecca A		1208 Hummingbird Ct			Round Rock	TX	78681-2736	R302591

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
B4-055	1054	B4		Frohman	Steven E & Janice M		1209 Canary Ct			Round Rock	TX	78681-2735	R302592
B4-056		B4		Walker	Rodney J & Lisa E		1207 Canary Ct			Round Rock	TX	78681-2735	R302593
B4-057		B4		Hale	Curtis Clark Jr & Melanie Martin Hale		1206 Canary Ct			Round Rock	TX	78681-2734	R302600
B4-058	1050	B4		Zhang	Tong		2421 Falcon Dr			Round Rock	TX	78681	R302558
B4-059		B4		Young Stephen & Lisa Yamashiro-Young Trustees Of Young & Yamashiro-Young Fam Tr			2595 Rollingwood Dr			San Bruno	CA	94066	R302559
B4-060		B4		Cruz	Alberto & Lynn N		2425 Falcon Dr			Round Rock	TX	78681-2720	R302560
B4-061	1042	B4		Schneider	Melvin G		2600 Starling Dr			Round Rock	TX	78681	R302812
B4-062		B4		Estrabo	Ronald Cabaddu & Tara M		2602 Starling Dr			Round Rock	TX	78681-2728	R302813
B4-063	1041	B4		Mojica	Rocky & Ashlei		2604 Starling Dr			Round Rock	TX	78681	R302814
B4-064		B4		Vaughan	David A & Virginia P		2606 Starling Dr			Round Rock	TX	78681-2728	R315090
B4-065		B4		Garen	Richard J & Jennifer L		2608 Starling Dr			Round Rock	TX	78681	R302815
B4-066		B4		Barber	William Bruce		2610 Starling Dr			Round Rock	TX	78681-2728	R302816
B4-067		B4		Smith	Floyd L		1303 Cardinal Ln			Round Rock	TX	78681	R302818
B4-068		B4		Krech	Jeffrey M & Nancy B		1302 Cardinal Ln			Round Rock	TX	78681-2732	R302740
B4-069; B4-070; B4-090; B4-091; B4-092; N3-027; N3-045; N3-115; N3-141	1040	A4; B4; B4a; N3; U3		Fern Bluff Mud			C/O General Manager	7320 Wyoming Spgs		Round Rock	TX	78681-4309	R055345; R055352; R336044; R356308; R365503; R420644; R423055; R431077; R431078
B4-071		B4		Stone Canyon Owners Assn Inc			C/O Goodwin Management, Inc	PO Box 203310		Austin	TX	78720-3310	R351580
B4-072		B4		Doncaster	Brent Guy & Susan Kay Hunter-Harvey		18105 Whitewater Cv			Round Rock	TX	78681	R351582
B4-073	1039	B4		Bowen	Bradley G & Paula B		18109 Whitewater Cv			Round Rock	TX	78681-3594	R351583
B4-074	1038	B4		Whyte	Neil & Kathleen D		18113 Whitewater Cv			Round Rock	TX	78681-3594	R351584
B4-075	1037	B4		Krueger	Jennifer & Clifton		18117 Whitewater Cv			Round Rock	TX	78681-3594	R351585
B4-076	1036	B4		Kratzert	Andrew & Viria		18121 Whitewater Cv			Round Rock	TX	78681	R351586
B4-077	1035	B4		Oldag	Darren L & Kerry L		18205 Whitewater Cv			Round Rock	TX	78681	R351588
B4-078	1034	B4; B4a		Tagtow	Robert A & Virginia P		18209 Whitewater Cv			Round Rock	TX	78681-3401	R351589
B4-079	1033	B4; B4a		Savarese	Patrick & Catrine A		18213 Whitewater Cv			Round Rock	TX	78681-3401	R351590
B4-080	1032	B4; B4a		Kavoossi	Ali A		18217 Whitewater Cv			Round Rock	TX	78681-3401	R351591
B4-081	1031	B4; B4a		Jiang	Jun & Jan Xie Chang		4807 Mantle Dr			Austin	TX	78746-1518	R351592
B4-082	1030	B4; B4a		Walker	Farrell A & Barbara J		18225 Whitewater Cv			Round Rock	TX	78681-3401	R351593
B4-083	1029	B4		Kindla	William J & Frances R		18224 Whitewater Cv			Round Rock	TX	78681-3401	R351594
B4-084		B4		Heath	Clint Douglas & Rebecca Viktorin		18220 Whitewater Cv			Round Rock	TX	78681	R351595
B4-085		B4		Pearson	Keith H & Annette		18216 Whitewater Cv			Round Rock	TX	78681-3401	R351596
B4-086		B4		Struble	Stephen R & Jacki L		18212 Whitewater Cv			Round Rock	TX	78681-3401	R351597
B4-087		B4		Walker	Kenneth S		18208 Whitewater Cv			Round Rock	TX	78681-3401	R351598
B4-088		B4		Horton	Richard & Judith S		18204 Whitewater Cv			Round Rock	TX	78681-3400	R351599
B4-089		B4		Alonzo Tamalyn M Trustee Of Alonzo Living Trust			18200 Whitewater Cv			Round Rock	TX	78681	R351600
B4-093; G3-001; G3-009; G3-021; G3-030; G3-053		B4; G3; H3; I3		Wood Glen Prop Owners Assoc			9600 Great Hills Trl	Ste 100E		Austin	TX	78759	R344966; R379713; R400094; R400109; R404407; R419857
B4-094	1028	B4; B4a		Friedel	Jeanmarie		8721 Sea Ash Cir			Round Rock	TX	78681-3424	R379813
B4-095	1027	B4; B4a		Kirchner	Roger & Christine		8719 Sea Ash Cir			Round Rock	TX	78681-3424	R379814
B4-096	1026	B4; B4a		Griffin	Daniel Drew		8717 Sea Ash Cir			Round Rock	TX	78681-3424	R379815
B4-097	1025	B4; B4a		Varga	Keith A & Beverly M		8715 Sea Ash Cir			Round Rock	TX	78681-3424	R379816
B4-098	1024	B4; B4a		Riquelmy	Tina Gayle		8713 Sea Ash Cir			Round Rock	TX	78681	R379817
B4-099		B4; B4a		Kwon	Young		8711 Sea Ash Cir			Round Rock	TX	78681-3424	R379818
B4-100		B4		Adams	John C & Cynthia M		8709 Sea Ash Cir			Round Rock	TX	78681-3423	R379819
B4a-001; B4a-002; B4a-003; F4a-001; K4-007	1177	A4; B4; B4a; D4; F4; F4a; K4; S5		Sauls	Clarence L & Mildred		PO Box 34			Round Rock	TX	78680-0034	R056320; R319299; R374926; R374927; R533967
B4a-004		A4; B4; B4a; N3; U3		Swayze	Donald Miles		C/O Judy Swayze	PO Box 221		Kingsland	TX	78639-0221	R374717
B5-001	101	B5		Lawrence	Christopher E & Sara A		111 Creek Meadow Cv			Leander	TX	78641	R424911
B6-001; B6-004	29; 30	A6; B6; G; L; Z5		Miranda	Daniel Ramirez & Candelaria		8770 Ranch Road 2243			Leander	TX	78641-1623	R327095; R433125
B6-002; G-003		B6; G; L		Davis Cemetery			FM 2243			Leander	TX	78641	R382088; R382089

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
B6-003; X5-001; Z5-002	19; 20	A6; B6; J; X5; Z5		Tex Mix Land Ltd			PO Box 830			Leander	TX	78646-0830	R031293; R318744; R327081
C-001		C; H; I		Leander 30 L P			PO Box 28429			Austin	TX	78755-8429	R315588
C-002		C		Massa	Gregory B & Tiffani A		1023 Overlook Bnd			Leander	TX	78641	R387854
C-003		C	Mr.	Brake	R Edward		140 Timberland CT			Bentonville	VA	22610-1781	R031235
C-003		C		Critz	Carolyn		4275 Cadiz Dr			Fort Worth	TX	76133-5411	R031235
C-003		C	Ms.	Critz	Carolyn		4275 Cadiz DR			Fort Worth	TX	76133-5411	R031235
C-003		C	Ms.	Johnson	Elizabeth A		140 Timberland CT			Bentonville	VA	22610-1781	R031235
C-003		C	Ms.	Pickle	Peggy		1301 W 9th 1/2 ST	Apt 201		Austin	TX	78703-4872	R031235
C-003		C		Southwestern Foundation			PO Box 542016			Omaha	NE	98154	R031235
C-003		C	Mr.	Zanzi	James M		Trustee of James M Zanzi Revocable Trust	1837 W Wabansia AVE		Chicago	IL	60622-1337	R031235
C1-001; F1-002	89	C1; D1; E1; F1; H; H1; O		Behrens	John A		16070 Ronald W Reagan Blvd			Leander	TX	78641-2577	R031530; R473472
C2-002		C2; E2; F2; G2		Tx Walker Investments Llc			PO Box 982			Leander	TX	78646	R375363
C2-003; Y2-195	199	C2; E2; F2; G2; X1; Y1		Laubach	Jennifer M E		3736 Galena Hills Loop			Round Rock	TX	78681-1055	R031493; R351381
C2-004				Siddens Ii	Douglas L		6211 Acacia Dr			Leander	TX	78641	R037952
C2-005				Nagle	Shelly J & Sharon K Sandercock & Steven G Millegan		226 Cale Dos			Marble Falls	TX	78654	R037951
C2-006				Unger	Alan F & Teri		6311 Acacia Dr			Leander	TX	78641-9311	R037950
C2-007				Bringmann	Roger A & Lynne A		408 Cisco Cv			Cedar Park	TX	78613	R037949
C2-008				Korns	David A		6501 Acacia Dr			Leander	TX	78641-9305	R037948
C2-009				Hoffmann	John & Traci L		6551 Acacia Dr			Leander	TX	78641-9305	R037947
C5-002		C5; D5; F5; M1		Journey Bible Fellowship The			Attn: Mitch Friedman, Pastor	700 Cr 179		Leander	TX	78641	R497495
C5-003		C5		Pittman	James Michael & Kara Leigh		115 Valley View Dr E			Leander	TX	78641-9291	R038338
C5-004		B5; C5; D6; K1		Loflin	Raymond E & Donna		113 Valley View Dr E			Leander	TX	78641-9291	R038337
C5-005		B5; C5; D6; K1		Uebelhor	Maurice & Cynthia A Wilkins		111 Valley View Dr E			Leander	TX	78641-9291	R038336
C6-001	40	A6; C6; S4		Bushkuhl	Michael		17451 Ronald W Reagan Blvd			Leander	TX	78641-2622	R031278
C6-004		A6; C6; S4		Garcia Campos	Albino	III	17420 Ronald W Reagan Blvd			Leander	TX	78641	R334860
C6-005; C6-006		A6; C6; S4		Love	Jeff L		17480 Ronald W Reagan Blvd			Georgetown	TX	78628-6815	R334859; R473785
C6-007; C6-008; L4-011; N4-001		L4; M4; N4; O4; P; P4; Q; Q4; R; R4; S; S4; T; V		Kuchera	Roy L & Alice F		7650 Ranch Road 2243			Leander	TX	78641-1648	R032110; R334856; R334858; R473775
C6-009; C6-010		S4		United Bear Creek Storage Lp			2001 Bryan St	Ste 2050		Dallas	TX	75201-3074	R334857; R473776
D1-001	91	D1; F1; G1		Barbosa	Antonio Jr & Marcia		PO Box 979			Leander	TX	78646-0979	R031577
D1-002	90	C1; D1; F1; G1; H; O		Everlasting Impressions Inc			3805 Sky Ln			Round Rock	TX	78661	R031556
D1-003	88	D1; F1; G1		Witbeck	John Van		140 Copper Ln			Leander	TX	78641-8534	R031222
D2-001	238	D2; K4		Moore	Robert Benton		3600 County Road 175			Leander	TX	78641-1600	R031498
D2-002				Tadlock	Weldon & Sherri Hutchison Tadlock		6400 Acacia Dr			Leander	TX	78641	R037958
D2-003	237	D2; K4		Chcrr Llc			155 Texas Ave			Round Rock	TX	78664	R031499
D2-004		D2		Amaral	Albino A & Spring A		6500 Acacia Dr			Leander	TX	78641-9308	R037959
D2-005		D2		Crossley	Cleveland H Jr & Frances E		3450 Cr 175			Leander	TX	78641	R037960
D2-006	236	D2		Dunaway	Kevin		3440 County Road 175			Leander	TX	78641	R529049
D2-007	235	A2; D2; V5		Crossley	C H	Sr	PO Box 1117			Round Rock	TX	78680-1117	R031494
D3-001	1313	D3; D3a; E3; G3		Henrichsen	Nathan & Melissa		1004 Waimea Ct			Round Rock	TX	78681	R478471
D3-002	1315	D3; G3		Miller	Karl & Jennifer		1007 Waimea Ct			Round Rock	TX	78681	R478474
D3-003	1312	D3; D3a; E3; G3		Ryan	Nicholas		1008 Waimea Ct			Round Rock	TX	78681	R478470
D3-004	1317	D3; G3		Blankenship	Andrew J		1011 Waime Ct			Round Rock	TX	78681	R478475
D3-005	1311	D3; D3a; G3		Miles	Larry D & Helen C		1012 Waimea Ct			Round Rock	TX	78681	R478469
D3-006	1309	D3; G3		Pepper	Jeffery M		1015 Waimea Ct			Round Rock	TX	78681-2434	R478476
D3-007	1310	D3; D3a; G3		Muhammad	Mussadaq & Saima Mussadaq		1016 Waimea Ct			Round Rock	TX	78681	R478468
D3-008	1307	D3; G3		Groff	Jason L & Shelby S		1019 Waimea Ct			Round Rock	TX	78681-2434	R478477
D3-009	1308	D3; D3a		Acevedo	Arturo T & Karen		1020 Waimea Ct			Round Rock	TX	78681-2434	R478467
D3-010		D3		Crownover	John Douglas		3213 Andice Path			Round Rock	TX	78681	R462041
D3-011	1305	D3		Kessler	Craig & Lisa		1023 Waimea Ct			Round Rock	TX	78681	R478478
D3-012	1306	D3; D3a		Wood	Charles Wendell & Beverly Ann	Jr	1024 Waimea Ct			Round Rock	TX	78681-2434	R478466
D3-013		D3		Hutchings	Jeff H & Sarah R		1100 Castle Path			Round Rock	TX	78681	R461978
D3-014	1303	D3		Marshall	Kyle & Hilary		1101 Waimea Bnd			Round Rock	TX	78681	R478449
D3-015	1304	D3; D3a		Wendt	Caren W		1100 Waimea Bnd			Round Rock	TX	78681-2379	R478465

Leander-Round Rock 138-kV Transmission Line Project
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Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
D3-016		D3		Curtis	John J & Margaret D		1104 Castle Path			Round Rock	TX	78681-2378	R462017
D3-017	1301	D3		Nicholson	Karin L & James S		1105 Waimea Bnd			Round Rock	TX	78681-2379	R478448
D3-018	1302	D3; D3a		Schott	Joseph R		1104 Waimea Bnd			Round Rock	TX	78681	R478464
D3-019		D3		Vessel	Alpheus L & Grenata L		1108 Castle Path			Round Rock	TX	78681	R462018
D3-020	1299	D3		Comfort	Thomas & Felicia J S		1109 Waimea Bnd			Round Rock	TX	78681	R478447
D3-021	1300	D3; D3a		Wells	Stephen A & Kate E		1108 Waimea Bnd			Round Rock	TX	78681-2379	R478463
D3-022		D3		Hall	Andrew J II & Martha C		1112 Castle Path			Round Rock	TX	78681-2378	R462019
D3-023	1297	D3		Buckner	Nathan C & Julie H		1113 Waimea Bnd			Round Rock	TX	78681-2379	R478446
D3-024	1298	D3; D3a		Adapala	Prashanth & Gushyalatha Boya		13401 Galleria Cir	Apt 138		Bee Cave	TX	78738-6384	R478462
D3-025		D3		Miller	Robert D		1116 Castle Path			Round Rock	TX	78681-2378	R462020
D3-026	1296	D3		Maycock	Rafael Oneal & Petra Unglaub-Maycock		1117 Waimea Bnd			Round Rock	TX	78681	R478445
D3-027	1295	D3; D3a		Caldwell	Jason C & Ginger A		1116 Waimea Bnd			Round Rock	TX	78681	R478461
D3-028		D3		Dalton	Peter S & Mindy S		1120 Castle Path			Round Rock	TX	78681	R462021
D3-029	1293	D3		Khan	Mohammad Tauseef		1121 Waimea Bnd			Round Rock	TX	78681	R478444
D3-030	1294	D3; D3a		Boudreaux	Leigh & Brett R Stuewe		1120 Waimea Bnd			Round Rock	TX	78681-2379	R478460
D3-031		D3		Piper	Douglas W		1124 Castle Path			Round Rock	TX	78681-2378	R462022
D3-032	1291	D3		Hernandez	Javier		1125 Waimea Bnd			Round Rock	TX	78681-2379	R478443
D3-033	1292	D3; D3a		Bailey	William T & Michele L		1124 Waimea Bnd			Round Rock	TX	78681-2379	R478459
D3-034		D3		Kim	Hun & Kyoung		1128 Castle Path			Round Rock	TX	78681	R462023
D3-035	1289	D3		Mcdonald	David K & Kristin A Baldwin		1129 Waimea Bnd			Round Rock	TX	78681-2379	R478442
D3-036	1290	D3; D3a		Cabrera	Caridad & Cindy Echevarria		1128 Waimea Bnd			Round Rock	TX	78681-2379	R478458
D3-037		D3		Powers	David M & Margie V		1132 Castle Path			Round Rock	TX	78681-2378	R462024
D3-038	1287	D3		Kennedy	Brandon & Mindy N		1133 Waimea Bend			Round Rock	TX	78681	R478441
D3-039	1288	D3; D3a		Rasmussen	J Scott & Codi		1132 Waimea Bnd			Round Rock	TX	78681	R478457
D3-040		D3		Toczala	Daniel Craig & Dawn		1136 Castle Path			Round Rock	TX	78681	R462025
D3-041	1285	D3		Chambliss	William K		1137 Waimea Bnd			Round Rock	TX	78681	R478440
D3-042	1286	D3; D3a		Mclamb	Charles Brandon & Tanya B		1136 Waimea Bnd			Round Rock	TX	78681	R478456
D3-043	1283	D3		Huston	Peter Fredrick		1141 Waimea Bnd			Round Rock	TX	78681	R478439
D3-044	1284	D3; D3a		West	Larry S & Marion M		1140 Waimea Bnd			Round Rock	TX	78681-2379	R478455
D3-045	1282	D3; D3a		Pulliam	Kenneth W		1144 Waimea Bnd			Round Rock	TX	78681-2379	R478454
D3-046		D3		De Quay	Rutger & Emily Trustees Of Rutger & Emily De Quay Trust		1160 Waimea Bnd			Round Rock	TX	78681	R478450
D3-047	1281	D3		Harris	Daniel L & Lisa A		1156 Waimea Bnd			Round Rock	TX	78681-2379	R478451
D3-048	1279	D3		Stacer	Kathryn & Bryce		1152 Waimea Bnd			Round Rock	TX	78681	R478452
D3-049	1280	D3; D3a		Lesmeister	Celeste		1148 Waimea Bnd			Round Rock	TX	78681	R478453
D3-050		D3; D3a		Homeowners Assoc Of Hidden Glen Inc			C/O Goodwin Management, Inc	PO Box 203310		Austin	TX	78720-3310	R462040
D3-051	1277	D3		Hutson	Derek A & Lori A		1720 Westend Pl			Round Rock	TX	78681-2252	R440891
D3-052	1278	D3		Fitzgerald	Diane		1718 West End Pl			Round Rock	TX	78681	R440890
D3-053	1276	D3; D3a		Calbeck	Lisa		1716 West End Pl			Round Rock	TX	78681	R440889
D3-054		D3		Craig	David L & Karen Beth		1400 Vibar Cv			Round Rock	TX	78681	R440869
D3-055	1274	D3		Barnes	Jonathan D & Diane		1713 West End Pl			Round Rock	TX	78681-2252	R440868
D3-056	1275	D3; D3a		Mcgrew	David T & Monica G Scamardo		1714 West End Pl			Round Rock	TX	78681	R440888
D3-057		D3		Sharp	Randall W & Leslie A		1404 Vibar Cv			Round Rock	TX	78681	R440870
D3-058	1272	D3		Peters	Larry Ray & Tamey		1711 West End Pl			Round Rock	TX	78681	R440867
D3-059	1273	D3; D3a		Sellers	Brian & Jennifer		1712 West End Pl			Round Rock	TX	78681	R440887
D3-060		D3		Gregory	Steven & Kerry Jane		1408 Vibar Cv			Round Rock	TX	78681-2335	R440871
D3-061	1270	D3		Barker	Jonathan & Debra		1709 West End Pl			Round Rock	TX	78681	R440866
D3-062	1271	D3; D3a		Black	John A III & Kathleen C		1710 West End Pl			Round Rock	TX	78681	R440886
D3-063		D3		Maggard	Leighton Ernest & Deborah Kay		1412 Vibar Cv			Round Rock	TX	78681	R440872
D3-064	1268	D3		Jillapalli	Ravi K & Regina		1707 West End Pl			Round Rock	TX	78681	R440865
D3-065	1269	D3; D3a		Canak	Leanne & Curtis S		1708 West End Pl			Round Rock	TX	78664	R440885
D3-066		D3		Camp	Landon G & Veronica		1416 Vibar Cv			Round Rock	TX	78681	R440873
D3-067	1267	D3		Pereira	Michael & Lucas		1705 West End Pl			Round Rock	TX	78681	R440864
D3-068	1266	D3; D3a		Bixler	Steven R & Margaret J		1706 West End Pl			Round Rock	TX	78681	R440884
D3-069	1264	D3		Mishler	Daniel W & Kristi L		1703 West End Pl			Round Rock	TX	78681	R440863
D3-070	1265	D3; D3a		Davis	William W & Caroline M		1704 Westend Pl			Round Rock	TX	78681-2252	R440883
D3-071	1262	D3		Rose	Dina & Gregory Nelson		1701 West End Pl			Round Rock	TX	78681	R440862
D3-072	1263	D3; D3a		Hampton	Melanie J & Benjamin J		1702 West End Pl			Round Rock	TX	78681	R440882
D3-073		D3		Hawkins	Hale H & Malaki P		1609 West End Pl			Round Rock	TX	78681	R440860
D3-074	1260	D3		Daniels	Stephen & Jennifer L Shockley-Daniels		1613 Westend Pl			Round Rock	TX	78681-2334	R440861

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
D3-075	1261	D3; D3a		Young	Dorothea		1628 West End Pl			Round Rock	TX	78681	R440849
D3-076	1259	D3; D3a		Bartholomew	Mark E & Susan G		1624 Westend Pl			Round Rock	TX	78681-2334	R440850
D3-077	1258	D3; D3a		Dick	Michael & Tracie		1620 Westend Pl			Round Rock	TX	78681-2334	R440851
D3-078	1256	D3; D3a		Andrew	Steven G & Machelle Lynn		1616 West End Pl			Round Rock	TX	78681	R440852
D3-079	1257	D3		Burdick	Jeffrey & Heather		1612 West End Pl			Round Rock	TX	78681	R440853
D3-080		D3		Lee	Winifred		1608 West End Pl			Round Rock	TX	78681	R440854
D4-001		D4; F4a		Oak Springs Prop Owners Assoc			C/O Karen Van Overloop	1504 Pearl Cove		Round Rock	TX	78681	R093525
D4-002		D4; E4		Schultz-Smith	Dianne Christine		1402 Pearl Cv			Round Rock	TX	78681-1908	R093527
D4-003	1204	D4; E4		Brevell	David F & Vicki L		1404 Pearl Cv			Round Rock	TX	78681-1908	R093528
D4-004	1203	D4; E4		Gillette	Ronald L & Patricia A		2901 Quail Run Dr			Round Rock	TX	78681-1203	R080222
D4-005	1202	D4; E4		Herring	Rodney L & Joyce		1502 Pearl Cv			Round Rock	TX	78681-1967	R093530
D4-006	1206	A4; D4; E4		Vanoverloop Donald R & Karen			1504 Pearl Cv			Round Rock	TX	78681-1967	R093531
D4-007	1205	A4; D4; E4		Steensma	Kyle & Jean C		1506 Pearl Cv			Round Rock	TX	78681-1967	R093532
D4-008	1194	A4; D4; E4		Samuel	Koshy & Saramma George		14001 Avery Ranch Blvd	1104		Austin	TX	78717	R538100
D4-009	1192; 1193	A4; D4; E4		Luna Creek Ltd & Cerra Vista Corp			13018 Research Blvd	Ste A		Austin	TX	78750	R055234
D4-010		A4; D4; E4		Olson	Nancy Ann		2011 Sam Bass Rd			Round Rock	TX	78681-1905	R055235
D6-001	100	B5; C5; D6; K1		Shepherd	Michael David		123 Creek Meadow Cv			Leander	TX	78641-1663	R424910
D6-002		B5; D6		Everett	Travis J & Angela L		135 Creek Meadow Cv			Leander	TX	78641	R424909
D6-003; Y4-002		D6; K1; X4; Y4; Z4		Vianney	Duc J & Josephine H		3614 Galena Hills Loop			Round Rock	TX	78681-1032	R424899; R424900
E-001; K-022		E; J; K		Larson Commercial Llc			PO Box 249			Leander	TX	78646	R031585; R031589
E-002		E; J; K		Champion Emogene Indiv & as Trustee			PO Box 266			Leander	TX	78646-0266	R031580
E-003; E-018; F-006; J-003; X5-015; Y5-001	15; 7; 8	A; D; E; F; J; K; X5; Y5		Fab-Con Products Inc			PO Box 249			Leander	TX	78646	R031252; R031253; R031283; R473389; R473394; R508107
E-004; J-001; X5-002	17; 18	E; J; X5; Z5		Mauck	Richard E & Karla Mauck		1530 Shenandoah Dr			Cedar Park	TX	78613	R031284; R324449; R508106
E-005; X5-004		E; X5		Golden	Bobby & Christine		2773 Hero Way			Leander	TX	78641-1629	R031281; R525687
E-006; E-007; X5-006		E; X5		Marburger	Barry		2739 Hero Way			Leander	TX	78641-1515	R031290; R051362; R508105
E-008		E		Velchoff	James G & Deborah K		1970 County Road 270			Leander	TX	78641-1646	R340105
E-009	14	E		Golden Sun Enterprise	Llp		2689 Hero Way			Leander	TX	78641	R508104
E-010; E-011; E-012; E-013		E		Fm 269 Investors Llc			PO Box 1969			Leander	TX	78646	R330612; R395316; R508101; R508102
E-014; X5-009		E; X5		Motley	Merry E		PO Box 512			Cedar Park	TX	78630-0512	R457570; R508103
E-015		E		Neely	Robert G & Patricia Joan		2611 Hero Way			Leander	TX	78641-1510	R361264
E-016	13	E		Knue	Blaise T & Janice K		1501 County Road 269			Leander	TX	78641-1513	R031288
E-017; E-019		E		Jay	Frederick A		903 Palos Verdes			Leander	TX	78641-8825	R031256; R102630
E-020; E-021		E		Rb 270 Partnership			6918 Burnet Rd			Austin	TX	78757	R461858; R505807
E2-001		E2; F2; J3; K2		Diamond K Plus Ltd			PO Box 306			Round Rock	TX	78680	R462721
E2-004; E2-006; E2-007; E2-021; E2-023; U1-028		B2; E2; L5; R1; U1; U1a		Caballo Ranch Hoa Inc			C/O Certified Management - Austin	9600 Great Hills Trl, Ste 100E		Austin	TX	78759-6303	R495435; R495436; R495477; R495550; R501799; R522597
E2-005				Felder	Lester J & Frauke Bartels		1706 Camino Alameda			Leander	TX	78641	R495437
E2-008		E2		Mcquiddy	Arthur R & Svetlana V Mitroshina		209 Alabaster Caverns Dr			Georgetown	TX	78628	R501782
E2-009		E2		Trahan	Aurora & Brandon		3114 Madisina Dr			Leander	TX	78641	R501783
E2-012; U1-002; U1-008; U1-034; V1-008; V1-021; V1-023; V1-032; V1-037	169; 175; 179; 185	E2; U1; U1a; V1; V1a		Scott Felder Homes Llc			6414 River Place Blvd	Ste 100		Austin	TX	78730-1158	R501786; R535387; R535400; R535418; R535422; R535424; R535436; R535445; R535467
E2-016		E2		Mott	Ronald & Cynthia		3100 Madisina Dr			Leander	TX	78641	R501790
E2-018				Hahn	Randall Eugene & Rhonda Lynn		1703 Manada Trl			Leander	TX	78641	R501792
E2-019				Wood	Jim D		1705 Manada Trl			Leander	TX	78641-2644	R501793
E2-020				Arnett	James R & Shannon F		3101 Madisina Dr			Leander	TX	78641	R501808
E2-022		E2		Crown Castle Gt Company Llc			4017 Washington Rd Pmb 353			Mcmurray	PA	15317-2520	R031483
E2-024		E2		Dunford	Douglas Ando & Ellen		950 County Road 272			Leander	TX	78641-1659	R031479

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
E2-025		E2		Birchfield	Vernon D & Alice L		1050 County Road 272			Leander	TX	78641-2502	R031478
E2-026	198	E2		Casa	Jesse & Tammy		1052 County Road 272			Leander	TX	78641-2502	R443074
E2-027		E2		Revell	Tim		C/O Jack Revell	1100 County Road 272		Leander	TX	78641-2533	R031482
E2-028				Krienke	Craig		PO Box 365			Cedar Park	TX	78630	R472550
E2-029				Krienke	Kay		2691 S Deframe Cir			Lakewood	CO	80228	R472549
E2-030				Guentzel	Cherry Krienke		PO Box 1465			Cedar Park	TX	78630-1465	R472551
E2-031				Krienke	Kevin & Jennifer		PO Box 1045			Georgetown	TX	78627-1045	R430180
E2-032				Krienke	Kevin		PO Box 1045			Georgetown	TX	78627-1045	R472548
E2-033; E2-034				Moore Robert L & Margaret Whitehead Moore Trustees Of Moore-White Real Estate Tr			PO Box 4250			Cedar Park	TX	78630-4250	R031474; R315791
E2-035; E2-036				Deicher	William R & Heather		105 Moore Ln			Cedar Park	TX	78613	R085827; R315793
E2-037			Ms.	Bradshaw	Sherry		11113 Cagman Mist			Houston	TX	77075	R315790
E2-037			Ms.	Harris	Tina		1717 Shiloh Road # 108			Tyler	TX	75703	R315790
E2-037			Mrs.	Moore	Betty L		1451 County Road 446			Rockdale	TX	76567-5449	R315790
E2-037				Moore	Betty L (Le)	etal	1451 County Road 446			Rockdale	TX	76567-5449	R315790
E2-037			Mr.	Moore	Dylan		9522 Meadowvale			Houston	TX	77063	R315790
E2-037			Ms.	Moore	Krister		411 West Brainerd Street			Pensacola	FL	32501	R315790
E2-037			Mr.	Moore	Tommy L		Route 5, Box 676			Alvin	TX	77551	R315790
E3-002	1341	C3; E3; H3		Faucher	Ernest H & Angela D		3264 Sanibel Ct			Round Rock	TX	78681	R478424
E3-003	1344	C3; E3; H3		Miller	Roger N & Julia A Meyer		3263 Sanibel Ct			Round Rock	TX	78681	R478427
E3-004	1340	C3; E3; H3		Williams	Bryan H		3260 Sanibel Ct			Round Rock	TX	78681	R478423
E3-005	1339	C3; E3; H3		South	Patrick D		3259 Sanibel Ct			Round Rock	TX	78681-2432	R478428
E3-006	1338	C3; E3; H3		Gant	Chris & Mindy		3256 Sanibel Ct			Round Rock	TX	78681	R478422
E3-007	1337	E3		Chambliss	Vickie D & William C		3255 Sanibel Ct			Round Rock	TX	78681	R478429
E3-008	1336	C3; E3; H3		Bules	Brad Alan & Ashley M		3252 Sanibel Ct			Round Rock	TX	78681	R478421
E3-009	1335	E3		Bell Brenner	Christopher Allen & Michele Jean		3251 Sanibel Ct			Round Rock	TX	78681	R478430
E3-010	1334	E3		Mccormick	John F & Erica A		3248 Sanibel Ct			Round Rock	TX	78681-2432	R478420
E3-011	1333	E3		Mcguire	David W & Melissa M		3247 Sanibel Ct			Round Rock	TX	78681-2432	R478431
E3-012	1332	E3		Mccarley	David Bryan & Tracie Lynn		3244 Sanibel Ct			Round Rock	TX	78681	R478419
E3-013	1331	E3		Brashear	Grant A		3243 Sanibel Ct			Round Rock	TX	78681-2432	R478432
E3-014	1330	E3		Gonzalez	Joe Luis Jr & Dania D Dakour		3240 Sanibel Ct			Round Rock	TX	78681	R478418
E3-015	1329	E3		Chen	Yu Wen & Tin Wai Judy Koo		3239 Sanibel Ct			Round Rock	TX	78681	R478433
E3-016	1328	E3		Birmingham	Mark A & Maria J		3236 Sanibel Ct			Round Rock	TX	78681-2432	R478417
E3-017	1327	E3		Nevlud	Timothy Allen & Laura Dawn Ditto Nevlud		3235 Sanibel Ct			Round Rock	TX	78681	R478434
E3-018	1326	D3; D3a; E3; G3		Shackelford	Leah & Shannon		3232 Sanibel Ct			Round Rock	TX	78681-2432	R478416
E3-019		E3		Chopin	Cornelius D & Shelia F		3231 Sanibel Ct			Round Rock	TX	78681	R478435
E3-020	1325	D3; D3a; E3; G3		Peterson	Paul & Colleen		3228 Sanibel Ct			Round Rock	TX	78681-2432	R478415
E3-021	1324	D3; D3a; E3; G3		Lieder	Cory Andrew & April Denise		3224 Sanibel Ct			Round Rock	TX	78681	R478414
E3-022	1347	D3; D3a; E3; G3		Keesey	John David & Dana R		3220 Sanibel Ct			Round Rock	TX	78681	R478413
E4-001		E4; F4a; G4; H4; T5		Vigil	Joseph C Jr & Pamela A		1401 Pearl Cv			Round Rock	TX	78681	R093539
E4-002	1215	E4; G4; H4	Ms.	Carter	Roseanne		1805 Sam Bass Road			Round Rock	TX	78681-1901	R055198
E4-002	1215	E4; G4; H4	Ms.	Rutledge	Mary Frances		1805 Sam Bass Road			Round Rock	TX	78681-1901	R055198
E4-002	1215	E4; G4; H4		Rutledge	Mary Frances (Le) & Et Al		1805 Sam Bass Rd			Round Rock	TX	78681-1901	R055198
E4-002	1215	E4; G4; H4	Mr.	Wilcox	James Malone		1805 Sam Bass Road			Round Rock	TX	78681-1901	R055198
E4-002	1215	E4; G4; H4	Mr.	Wilcox	Roy Carlton		1805 Sam Bass Road			Round Rock	TX	78681-1901	R055198
E4-003	1214	E4; G4; H4		Stolz	Terry W & Marie Louise		1807 Sam Bass Rd			Round Rock	TX	78681-1901	R055202
E4-004	1212	E4		Bledsoe	Teresa S & Donald L Reese		1403 Pearl Cv			Round Rock	TX	78681-1908	R093537
E4-005	1213	E4; G4; H4		Flores	Ernesto & Diane Marie		19211 Saint Raguel Rd			Manor	TX	78653-3786	R055199
E4-006	1210	E4		Benson	Taft E & Beatrice E		1405 Pearl Cv			Round Rock	TX	78681-1908	R093536
E4-007	1211	E4		White	Kay		PO Box 306			Summersville	MO	65571-0306	R055200
E4-008	1209	E4		Mcclendon	Michael Lee &		Lisa Rose Vickery-Mcclendon	1407 Pearl Cv		Round Rock	TX	78681-1908	R093535
E4-008	1209	E4	Mrs.	Vickery-McClendon	Lisa Rose		1407 Pearl Cove			Round Rock	TX	78681-1908	R093535
E4-010	1208	E4		Maybaum Paul E & Elizabeth A			1501 Pearl Cv			Round Rock	TX	78681-1967	R093534
E4-012	1207	E4		Del Dotto Charles & Hilda			1503 Pearl Cv			Round Rock	TX	78681-1967	R093533
E4-013; S-022	1220	E4; G4; H4; J4; S		Singh	Vijay & Shalini		2050 Double Creek Dr			Round Rock	TX	78664	R300960; R481477
E4-014	1674	E4; G4; H4		Nfg Properties Llc			2113 Arpdale St			Austin	TX	78704-3903	R306626
E4-015	1673	E4; G4; H4		Fisher	Leon	Jr	2141 Settlers Park Loop			Round Rock	TX	78664-4669	R300959
E4-016	1218; 1219	E4; G4; H4		Desilva	Nanda		16904 Korat Ln			Round Rock	TX	78681-3863	R305671
E4-017	1671	E4		Clark	Stephen & Michelle C		1816 Sylvia Ln			Round Rock	TX	78681-1994	R300664
E4-018	1672	E4		Riojas	Deborah		1814 Sylvia Ln			Round Rock	TX	78681-1994	R300665
E4-019		E4		Hudgins	Norman R Jr & Pamela K Hudgins		1812 Sylvia Ln			Round Rock	TX	78681-1994	R300666

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E4-020	1217	E4		Kurly Bird Properties Llc			1910 Sam Bass Rd			Round Rock	TX	78681	R055205
E4-021		E4		Butler	Jason		2015 Red Oak Cir			Round Rock	TX	78681-2208	R312952
E4-022		E4		Pillai	Gangadharan & Ponnamma		1813 Rusty Nail Loop			Round Rock	TX	78681	R312949
E4-023	1670	E4		Guerrero	Enrique A & Rachel K		1815 Rusty Nail Loop			Round Rock	TX	78681-1975	R312944
E4-024	1669	E4		Ramirez	Veronica I & Joseph A Sloan		1817 Rusty Nail Loop			Round Rock	TX	78681-1975	R312940
E4-025	1668	E4		Proctor	Lauren Raechele		1819 Rusty Nail Loop			Round Rock	TX	78681	R312930
E4-026	1667	E4		Wahl	Marilyn Z		1821 Rusty Nail Loop			Round Rock	TX	78681-1975	R312925
E4-027; E4-028; E4-029; O3-133; O3-134		E4; O3		Aqua Texas Inc			1106 Clayton Ln	Ste 400W		Austin	TX	78723	R035351; R055203; R312786; R312787; R420184
E4-030	1201	A4; D4; E4		Alori Properties-4318 Bullcreek-Bas Ltd			509 Oakland Ave			Austin	TX	78703-5113	R447749
E4-031	1198	A4; D4; E4		Sej Asset Management & Investment Company			C/O 7-Eleven Inc, One Arts Plaza	1722 Routh St	Ste 1000	Dallas	TX	75201-2506	R064891
E4-032		E4		Smith	Sharon Ruth		1901 Hunters Trl			Round Rock	TX	78681-1959	R064896
E4-033		E4		Mccauley	Kevin J & Maureen T		1903 Hunters Trl			Round Rock	TX	78681-1959	R064895
E4-034	1200	A4; D4; E4		Schultz	Brian L & Barbara K		PO Box 593			Round Rock	TX	78680-0593	R064894
E4-035	1199	A4; D4; E4		Neves	Allan Keeling & April		1907 Hunters Trl			Round Rock	TX	78681-1959	R064893
E4-036	1197	A4; D4; E4		Le	Michelle & Long H		1909 Hunters Trl			Round Rock	TX	78681-1959	R064892
E5-001; F5-001; Y1-001	107	C2; C5; D5; E5; F5; G5; H5; M1; S1; V1; V1a; W1; X1; Y1; Z1		Roberts	Mary Frances		28217 Honeysuckle Dr			Damascus	MD	20872-1314	R031533; R031534; R365466
E5-002; M1-003; M1-004; M1-006; M1-008; M1-010; M1-011; M1-012; M1-016; M1-017; M1-018; M1-019; M1-020; M1-021; M1-022; O1-009; O1-010; O1-013; O1-016; O1-017	114; 115; 116; 117; 118; 121; 122; 124; 127; 128	E5; M1; N1; O1		Gehan Homes Ltd			Two Addison Circle	15725 N Dallas Pkwy	Ste 300	Addison	TX	75001	R522807; R522808; R522809; R522810; R522842; R522843; R522844; R533378; R533379; R533380; R533381; R533382; R533383; R533384; R533392; R533393; R533403; R533404; R533408; R538030
E5-003; M1-001; M1-014; M1-015; O1-002; O1-019		E5; M1; N1; O1; Q1; S1		Pecan Creek (Leander) Hoa			14050 Summit Dr	Ste 113-A		Austin	TX	78728-7134	R522806; R522827; R522841; R533386; R533409; R533417
E5-004	109	C5; D5; E5; F5; M1		Katusak	Robert		3624 Journey Pkwy			Leander	TX	78641	R031572
F-001	4	F; X5; Y5		Cantwell	Floyd		9800 Fm 2243			Leander	TX	78641	R031255
F-002; F-003; X5-016	10; 11	F; X5; Y5		Walker	Weldon Stephen & Tammy		PO Box 982			Leander	TX	78646-0982	R031389; R448912; R484387
F-004		F		Carson	Mike		1204 Oak Hollow Dr			Leander	TX	78641-2351	R462364
F-005		F		Davenport	Michael L & Lois E		PO Box 975			Bertram	TX	78605-0975	R460105
F1-003	93	F1		Bott	Rick E & Sharon Kaydean		1101 Cr 177			Leander	TX	78641	R031540
F1-004		F1		Vo	Chau V		1031 County Road 177			Leander	TX	78641-2525	R031541
F1-005	92	C1; D1; E1; F1; H; O		Rockpoint Church			C/O Jerry Shayne O'Brien, Senior Pastor	280 Twin Cedars Road		Leander	TX	78641	R496905
F1-005	92	C1; D1; E1; F1; H; O		Rockpointe Church			PO Box 950			Leander	TX	78646	R496905
F1-006; F1-010				Larue	Mark C & Ellen H		850 County Road 177			Leander	TX	78641-2534	R031555; R492671
F1-007; F1-008; F1-009				Larue Real Estate Holdings Lp			850 Cr 177			Leander	TX	78641	R031554; R419133; R419135
F2-001; F2-002; F2-003	200	C2; E2; F2; G2		Moore	Jimmie W		801 Moore Ln			Cedar Park	TX	78613-6916	R031475; R318984; R338531
F2-004; F2-005		F2		Alexander	Lewis V & Lacy A		554 County Road 272			Cedar Park	TX	78613-6935	R514487; R514488
F2-006				Crumley James M & Sandra Keeton & Jerral Boling & Theresa Brownson			516 Chisholm Valley			Round Rock	TX	78681	R315788
F3-002	1015	F3		Foster	Richard A		2100 Crosscreek Trl			Round Rock	TX	78681-1820	R055162
F3-003		F3		Sovran Acquisition Limited Partnership			6467 Main St			Williamsville	NY	14221-5890	R055163
F3-004		F3		Sundance Sam Bass Ltd			2880 W Pioneer Pkwy	Ste A		Arlington	TX	76013-5960	R452109
F4-001; T5-001; T5-003	1146; 1147; 1148; 1149; 1150; 1152; 1216	E4; F4; F4a; G4; H4; I4; J4; T5		Paul Postel Realty Corp			PO Box 170158			Austin	TX	78717	R052407; R102506; R310483
F4-002		F4; F4a		Carson	Michael P & Monica L		8631 Sea Ash Cir			Round Rock	TX	78681-3423	R379824

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
F4-002		F4; F4a	`	Faith Missionary Baptist			1561 Sam Bass Road			Round Rock	TX	78681	R380197
F4-003		F4; F4a		Mclester Grisham Gardner Investors Inc			C/O Joe Martinec, Atty	919 Congress Ave #200		Austin	TX	78701-2102	R087758
F4-003		F4; F4a		McLester Grisham Gardner Investors, Inc			C/O The Oaklands Owners Association, Inc	PO Box 203310		Austin	TX	78720-3310	R087758
F4-004		F4		Jett	Robert E & Angela P		938 Blue Spring Cir			Round Rock	TX	78681-4041	R087717
F4-005	1144	F4		Womer	Keith A & Martha M		936 Blue Spring Cir			Round Rock	TX	78681-4041	R087718
F4-006	1145	F4; F4a		Sather	William B		934 Blue Spring Cir			Round Rock	TX	78681-4041	R087719
F4-007		F4; F4a		Oakland Owners Assoc Inc The			C/O Goodwin Management, Inc	PO Box 203310		Austin	TX	78720-3310	R392547
F4-008	1143	F4; F4a		Vanderschaaf	Neil R & Ann M		932 Blue Spring Cir			Round Rock	TX	78681-4041	R087720
F4-009	1141	F4; F4a		Jergins	Michael P & Yvonne P		930 Blue Spring Cir			Round Rock	TX	78681-4041	R087721
F4-010	1139	F4; F4a		Cook	Charles R & Katharine		928 Blue Spring Cir			Round Rock	TX	78681	R087722
F4-011	1137	F4; F4a	Ms.	Howell	Diana Lynn		8210 Sunburst Pkwy			Round Rock	TX	78681	R087723
F4-011	1137	F4; F4a	Mr.	Jergins	Michael Paul		930 Blue Springs Circle			Round Rock	TX	78681	R087723
F4-011	1137	F4; F4a	Mr.	Jergins	Paul James		926 Blue Springs Circle			Round Rock	TX	78681	R087723
F4-011	1137	F4; F4a		Jergins Paul James (Le) & Michael P Jergins & Diana L Howell			926 Blue Spring Cir			Round Rock	TX	78681	R087723
F4-012	1135	F4; F4a		Harvey	Charles & Elizabeth		924 Blue Spring Cir			Round Rock	TX	78681	R087724
F4-013	1133	F4; F4a		Harwick	Brad & Kelly		922 Blue Spring Cir			Round Rock	TX	78681-4041	R087726
F4-014	1131	F4; F4a		Messina	K Rene Palmer		920 Blue Spring Cir			Round Rock	TX	78681-4041	R087727
F4-015	1129	F4; F4a		Mcleod	Cathy L & Scott P		918 Blue Spring Cir			Round Rock	TX	78681-4039	R087728
F4-016	1128	F4; F4a		Layne	Doug E & Melissa K		916 Blue Spring Cir			Round Rock	TX	78681-4039	R087729
F4-017	1127	F4		Blakley	Robert R & Karen H		914 Blue Spring Cir			Round Rock	TX	78681-4039	R087730
F4-018	1126	F4		Garcia-Medina	Miguel & Sarah Garcia-Morgan		912 Blue Spring Cir			Round Rock	TX	78681	R087731
F4-019		F4		Sorensen	Anthony L & Sarah K		910 Blue Spring Cir			Round Rock	TX	78681	R087732
F4-020		F4		Jones	Phyllis A		907 Rock Spring Cv			Round Rock	TX	78681	R087556
F4-021		F4		Su	Zhuoying & Xi Chen		909 Rock Spring Cv			Round Rock	TX	78681	R087557
F4-022		F4		Norris	Amy & Andrew		908 Rock Spring Cv			Round Rock	TX	78681	R087558
F4-023		F4		Osman	Mark & Jane		906 Rock Spring Cv			Round Rock	TX	78681-4045	R087559
F4-024		F4		Seymour	Jenna S		939 Blue Spring Cir			Round Rock	TX	78681	R087548
F4-025	1142	F4		Arredondo	Sonia		4826 Loyola St			San Antonio	TX	78249-1743	R087547
F4-026	1140	F4		Rehbein	David A & Edna A		931 Blue Spring Cir			Round Rock	TX	78681-4042	R087546
F4-027	1138	F4		Rutterford	Brandon & Emily		929 Blue Spring Cir			Round Rock	TX	78681	R087545
F4-028	1136	F4		Shultz	Eric		927 Blue Spring Cir			Round Rock	TX	78681-4042	R087544
F4-029	1134	F4		Robinson	James M & Sandra L		925 Blue Spring Cir			Round Rock	TX	78681-4042	R087543
F4-030	1132	F4		Fehlis	Amanda & Michael		923 Blue Spring Cir			Round Rock	TX	78681	R087542
F4-031	1130	F4		Arbuckle	Gary E & Jean H Oshaw		921 Blue Spring Cir			Round Rock	TX	78681-4042	R087541
F4-032		F4		Bull	Curtis Dean & Becky Mills Bull		909 Blue Spring Cir			Round Rock	TX	78681-4040	R087568
F4-033		F4		Watson	Wayne Allan		911 Oaklands Dr			Round Rock	TX	78681	R087746
F4-034	1125	F4		Kohlhoff	Paul John & Patricia Louise		1001 Oaklands Dr			Round Rock	TX	78681-4034	R087747
F4-035	1124	F4		Podrebarac	Stephen J		1003 Oaklands Dr			Round Rock	TX	78681	R087748
F4-036	1123	F4		Farris	Timothy E & Jill		1005 Oaklands Dr			Round Rock	TX	78681-4034	R087749
F4-037	1122	F4; F4a		Bordovsky	Paul K Jr & Cindy W		1007 Oaklands Dr			Round Rock	TX	78681-4066	R302663
F4-038	1121	F4; F4a		Macmillen	Sean & Stacy		1009 Oaklands Dr			Round Rock	TX	78681-4066	R302661
F4-039	1120	F4; F4a		Yuska	Samuel & Lyndsay		1011 Oaklands Dr			Round Rock	TX	78681	R302660
F4-040	1117	F4; F4a		Dawidczik	Michael & Adria		1013 Oaklands Dr			Round Rock	TX	78681	R302659
F4-041	1115	F4; F4a		Ochoa	Renato & Annie		444 S Lucas Ave	Ste 1		Los Angeles	CA	90017	R302657
F4-042	1112	F4; F4a		Gong	Shia-San & Shu-Hwa Ku		1019 Oaklands Dr			Round Rock	TX	78681-4066	R302656
F4-043	1110	F4; F4a		Smadi	Mithkal M & Lisa K		1021 Oaklands Dr			Round Rock	TX	78681-4066	R302655
F4-044	1109	F4; F4a		Liou	Kan-Lee & Hsiu-Yi Chan		1023 Oaklands Dr			Round Rock	TX	78681-4066	R302654
F4-045; F4-077	1091; 1108	B4; F4; F4a; S5		Dacko	David Allen		1025 Oaklands Dr			Round Rock	TX	78681-4066	R302653; R302677
F4-046	1107	F4		Rhymaun	Shah H Jr & Beverly A		1027 Oaklands Dr			Round Rock	TX	78681-4066	R302651
F4-047	1105	F4		Haidinyak	James M & Candace L		1029 Oaklands Dr			Round Rock	TX	78681-4066	R302650
F4-048	1106	F4		Law	Billy Marshall & Carol Diane		1031 Oaklands Dr			Round Rock	TX	78681-4066	R302649
F4-049		F4		Dressendorfer	Kirk R & Sarah		1004 Oaklands Dr			Round Rock	TX	78681-4033	R087569
F4-050		F4		Eshpeter	Tiffen S		1006 Oaklands Dr			Round Rock	TX	78681	R302396
F4-051	1119	F4		Snowden	Daren D & Jacqueline M		1008 Oakland Dr			Round Rock	TX	78681	R302395
F4-052; W2-071	1118	F4; W2		Victory Global Investments Llc			Flaze, 21St Floor Blk 2	Highland Park 11 Lai, Kong Street		Kwai Chung			R302394; R441208
F4-053	1116	F4		Engstrom	Greg & Diane		1012 Oaklands Dr			Round Rock	TX	78681-4038	R302382
F4-054	1114	F4		Eed	Hamdy T		1014 Oaklands Dr			Round Rock	TX	78681-4038	R302381
F4-055	1113	F4		Tipton	Gary W & Linda K		1016 Oaklands Dr			Round Rock	TX	78681-4038	R302380
F4-056	1111	F4		Moerbe	Todd W & Rosemary H		1018 Oaklands Dr			Round Rock	TX	78681	R302378
F4-057; F4-058		F4		Polak	Tab L & Gayle E		2603 Covington Pl			Round Rock	TX	78681-2285	R302376; R302377

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
F4-059		F4		Robinson	Danielle M & James E	III	2100 Mockingbird Dr			Round Rock	TX	78681-2706	R302527
F4-060		F4		Wiggins	Raymond T & Linda L		1200 Parrot Trl			Round Rock	TX	78681-2747	R302648
F4-061		F4		Higdon	Reggie D		1202 Parrot Trl			Round Rock	TX	78681-2747	R302647
F4-062		F4		Odom	Michael		1204 Parrot Trl			Round Rock	TX	78681-2747	R302646
F4-063		F4		Coleman	Todd & Rhonda		1206 Parrot Trl			Round Rock	TX	78681-2747	R302645
F4-064		F4		Patterson	Garry D & Sharon		1208 Parrot Trl			Round Rock	TX	78681-2747	R302644
F4-065		F4		Kaminsky	Cory D & Kara N		1210 Parrot Trl			Round Rock	TX	78681	R302643
F4-066	1097	F4		Cusick	Jeffery Scott		1208 Robin Trl			Round Rock	TX	78681-2738	R302665
F4-067	1099	F4		Robb	Eric Joseph & Susan Marie		1206 Robin Trl			Round Rock	TX	78681	R302667
F4-068	1101	F4		Forse	Donald & Rebecca		1204 Robin Trl			Round Rock	TX	78681-2738	R302668
F4-069	1103	F4		Desai	Prakash V & Linda J R		1202 Robin Trl			Round Rock	TX	78681-2738	R302669
F4-070	1104	F4		Holcombe	Richard & Mary Q		1200 Robin Trl			Round Rock	TX	78681	R302670
F4-071	1102	F4; F4a		Kaley	Lane C & Michelle L	III	1201 Robin Trl			Round Rock	TX	78681-2739	R302671
F4-072	1100	F4; F4a		Davis	Bryan		1203 Robin Trl			Round Rock	TX	78681	R302672
F4-073	1098	F4; F4a		Sikes	Andre		3450 Chaparral Dr			Dallas	TX	75234-6504	R302673
F4-074	1096	B4; F4; F4a; S5		Lee	Patsy Davis		1207 Robin Trail			Round Rock	TX	78681	R302674
F4-075	1094	B4; F4; F4a; S5		Williams	Julie		1209 Robin Trl			Round Rock	TX	78681-2739	R302675
F4-076	1093	B4; F4; F4a; S5		Vaughn	Jacki L & Kay J		1211 Robin Trl			Round Rock	TX	78681-2739	R302676
F4-078	1090	B4; B4a; F4; F4a; S5	Ms.	Davis	Deborah J		1215 Robin TRL			Round Rock	TX	78681	R302678
F4-078	1090	B4; B4a; F4; F4a; S5		Davis Deborah J & Estate Of Gary William Davis			1215 Robin Trl			Round Rock	TX	78681	R302678
F4-079	1089	B4; B4a; D4; F4; F4a; S5		Shifman	Amanda		1217 Robin Trl			Round Rock	TX	78681	R302679
F5-002; F5-005; F5-009; F5-010; F5-048; F5-049		F5		Catalina Ranch Homeowners Assoc Inc			C/O Southwest Management Services	PO Box 342585		Austin	TX	78734	R542154; R542173; R542174; R542175; R542268; R542271
F5-003; F5-007; F5-008; F5-011; F5-013; F5-014; F5-015; F5-016; F5-017; F5-018; F5-019; F5-020; F5-021; F5-023; F5-024; F5-025; F5-026; F5-027; F5-028; F5-029; F5-030; F5-031; F5-032; F5-033; F5-034; F5-035; F5-036; F5-037; F5-038; F5-039; F5-040; F5-041; F5-042; F5-043		F5		Catalina Ranch Llc			Attn: Harris & Straub	2929 W 5Th St	Ste A	Fort Worth	TX	76107	R542155; R542156; R542157; R542158; R542159; R542160; R542161; R542162; R542163; R542164; R542165; R542166; R542167; R542168; R542169; R542170; R542171; R542172; R542187; R542211; R542212; R542214; R542215; R542216; R542217; R542219; R542220; R542221; R542226; R542227; R542228; R542229; R542230; R542269
F5-004; F5-012; S-028	106	F5		The Brohn Group Llc			8140 N Mopac Expy	Ste 4-270		Austin	TX	78759-8864	R529450; R542213; R542270
F5-006; F5-044; F5-045; H-035; V-001	69	F5; H; N4; O4; P; P4; Q; Q4; R; R4; T; U; V; V4; W		Leander I S D Trustee			PO Box 218			Leander	TX	78646-0218	R031265; R032134; R507775; R507776; R507777
F5-022		F5		Centerra Homes Of Texas Llc			PO Box 92769			Austin	TX	78709-2769	R542218
F5-046; F5-047; R1-007		F5; G1; R1		Burleson Ranches Ltd			28217 Honeysuckle Dr			Damascus	MD	20872-1314	R031575; R485247; R506005
F5-050; G1-001; G1-029; G1-030; G1-031; G1-032; G1-033; G1-034; G1-051; G1-052; G1-053; G1-054; G1-055; G1-056; G1-057; G1-058; G1-059; G1-060; G1-061; R1-005; R1-006		D1; F1; F5; G1; R1		Joseph Land & Cattle Co Ltd			2904 Richard Ln			Austin	TX	78703-1636	R031210; R031552; R392170; R392171; R392172; R392173; R392174; R392175; R392176; R392177; R392178; R473458; R485235; R485239; R485240; R485241; R485242; R485243; R485244; R485245; R485246

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
F6-001; F6-007; F6-008; F6-009; L-002; L-003; L-004; L-005	36; 37; 38; 39	C6; F6; G6; H6; L; M; N; P; U4; V4		Beasley Tract Lp			Attn: Jeremy Smitheal	100 Congress Ave	Ste 1450	Austin	TX	78701-4072	R031239; R031247; R031271; R031272; R031274; R037215; R443611; R473637
F6-002; F6-003; F6-006; N3-147; N3-158; N3-159; N3-160; N3-161; T2-063; T2-064; T2-065; T2-076; U3-003; V5-001; W5-026; W5-028		A2; A4; B4; B4a; D2; E6; F6; G6; H6; K4; N; N3; O3; T1; T2; U3; V5; W5		Williamson County			Attn: Williamson County Auditor	710 S Main St Ste 301		Georgetown	TX	78626-5703	R031496; R031502; R031561; R037219; R037220; R055339; R403047; R403049; R407588; R417246; R418434; R463462; R472264; R473626; R539444; R539445
F6-004				Simmons	Richard L & Gina M		9 Windemere E			Leander	TX	78641-1619	R037178
F6-005				Toungate	Ernest Loyd & Lori		83 Ridgmar Rd			Leander	TX	78641	R037177
G-001; G-002		B6; G; L		Henthorne	Lajuana Jean		701 Henthorne Way			Leander	TX	78641-1644	R031315; R031367
G-004; G-005; L1-007; P1-002; P1-003; P1-005; P1-008; P1-009; P1-010; P1-014; P1-015; P1-020; P1-021; P1-023; P1-024; P1-025; T1-003; T1-004; T1-005; T1-006; T1-007; T1-009; T1-010; T1-011; T1-015; T1-017; T1-018; T1-019; T1-020; T1-021; W5-027	134; 135; 140	B6; E6; G; L; P1; Q1; T1		Meritage Homes Of Texas Llc			8920 Business Park Dr	Ste 250		Austin	TX	78759-7622	R031257; R031532; R433136; R526457; R526458; R526461; R526464; R526471; R526500; R526504; R526505; R532207; R532208; R532210; R532212; R532232; R532233; R532259; R532263; R532264; R532265; R532284; R532285; R532286; R532287; R532288; R532302; R532303; R532304; R534384; R534398
G-007; G-008		G		Generations Ministries Inc			PO Box 280			Cedar Park	TX	78630-0280	R433137; R502299
G-009; G-010; G-011		G		Hudson	Michael N		8670 183A Toll Rd			Leander	TX	78641-1521	R031365; R330897; R433138
G-012		G		Leander Volunteer Fire Dept			PO Box 222			Leander	TX	78646-0222	R031287
G-013; G-014		G		First State Bank Central Texas			PO Box 6136			Temple	TX	76503-6136	R433144; R519276
G1-002; R1-008		F5; G1; R1	Ms.	Ashmun	Rosemary Neely Hazlewood		C/O PERSONAL ADMINISTRATORS INC	3939 Bee Caves RD	Bldg C100	Austin	TX	78746-6429	R485234; R510081
G1-002; R1-008		F5; G1; R1	Ms.	Hazlewood	Androniky P		C/O PERSONAL ADMINISTRATORS INC	3939 Bee Caves RD	Bldg C100	Austin	TX	78746-6429	R485234; R510081
G1-002; R1-008		F5; G1; R1	Ms.	Hazlewood	Christy Patterson		C/O PERSONAL ADMINISTRATORS INC	3939 Bee Caves RD	Bldg C100	Austin	TX	78746-6429	R485234; R510081
G1-002; R1-008		F5; G1; R1	Mr.	Hazlewood	James Merton		C/O PERSONAL ADMINISTRATORS INC	3939 Bee Caves RD	Bldg C100	Austin	TX	78746-6429	R485234; R510081
G1-002; R1-008		F5; G1; R1	Ms.	Hazlewood	Jimmie Lea aka Jimmie Lea Chris		C/O PERSONAL ADMINISTRATORS INC	3939 Bee Caves RD	Bldg C100	Austin	TX	78746-6429	R485234; R510081
G1-002; R1-008		F5; G1; R1	Mr.	Hazlewood	John Andrew		C/O PERSONAL ADMINISTRATORS INC	3939 Bee Caves RD	Bldg C100	Austin	TX	78746-6429	R485234; R510081
G1-002; R1-008		F5; G1; R1	Mr.	Hazlewood	Leslie Travis		C/O PERSONAL ADMINISTRATORS INC	3939 Bee Caves RD	Bldg C100	Austin	TX	78746-6429	R485234; R510081
G1-002; R1-008		F5; G1; R1	Ms.	Hazlewood	Natalie Ariane		C/O PERSONAL ADMINISTRATORS INC	3939 Bee Caves RD	Bldg C100	Austin	TX	78746-6429	R485234; R510081
G1-002; R1-008		F5; G1; R1	Mr.	Hazlewood	Robert Mason		C/O PERSONAL ADMINISTRATORS INC	3939 Bee Caves RD	Bldg C100	Austin	TX	78746-6429	R485234; R510081
G1-002; R1-008		F5; G1; R1	Mr.	Hazlewood	William Duncan		C/O PERSONAL ADMINISTRATORS INC	3939 Bee Caves RD	Bldg C100	Austin	TX	78746-6429	R485234; R510081
G1-002; R1-008		F5; G1; R1		Hazlewood	William P Et Al		C/O Personal Administrators Inc	3939 Bee Caves Rd, Bldg C100		Austin	TX	78746-6429	R485234; R510081
G1-003; R1-019				Hazlewood Residential Residential Community Inc			C/O Real Manage	PO Box 700128		Dallas	TX	75370-0128	R514751; R514769
G1-004				Continental Homes Of Texas Lp			10700 Pecan Park Blvd	Fourth Floor #400		Austin	TX	78750-1227	R514771
G1-005				Gautschi	Reese R		2236 Julia Ln			Leander	TX	78641	R523555
G1-006				Brugh	Monica L		2232 Julia Ln			Leander	TX	78641	R523556
G1-007				Ho	Vi T & Oanh T Nguyen		2228 Julia Ln			Leander	TX	78641	R523557
G1-008				Millner	Chris & Karen		2224 Julia Ln			Leander	TX	78641	R523558
G1-009				Thompson	Ray A & Erica V		2220 Julia Ln			Leander	TX	78641	R523559
G1-010				Gaslin	Gizette S		2212 Julia Ln			Leander	TX	78641	R523560
G1-011				Donaldson	Clinton W & Kate E		2208 Julia Ln			Cedar Park	TX	78641	R523561
G1-012				Warth	William D	IV	2200 Julia Ln			Leander	TX	78641	R523568
G1-013				Khan	Khalid & Krista		2541 Leonards Pass			Leander	TX	78641	R523562
G1-014		G1		Bandali Builders & Estate Developers Ltd			7817 Rockwood Ln	Ste 300		Austin	TX	78757	R492660
G1-015; G1-028; G1-035; G1-037; G1-047		G1		Cold Springs Homeowners Association Inc			C/O Realmanage	PO Box 701088		Dallas	TX	75370-1088	R495575; R495576; R495607; R495608; R495793

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
G1-016				Patel	Siddharth		2116 Granite Springs Rd			Leander	TX	78641	R495620
G1-017				Meintrup	David & Tatiana		2112 Granite Springs Rd			Leander	TX	78641	R495619
G1-018				Scott	Genevieve & Marta M Mendez		2108 Granite Springs Rd			Leander	TX	78641	R495618
G1-019				Kaloustian	Monica A & Eugene		2104 Granite Springs Rd			Leander	TX	78641	R495617
G1-020				Groves	Kevin Arthur		PO Box 28490			Austin	TX	78755	R495616
G1-021				Head	Bobby J & Martha C		2024 Granite Springs Rd			Leander	TX	78642	R495615
G1-022				Gaines	Charles L & Alice L		2020 Granite Springs Rd			Leander	TX	78641	R495614
G1-023				Gamez	Carlos I & Eyair G		2016 Granite Springs Rd			Leander	TX	78641	R495613
G1-024				Smith	Mark H & Lisa K		2012 Granite Springs Rd			Leander	TX	78641-2606	R495612
G1-025				Lopez	Ramon R & Norma A		2008 Granite Springs Rd			Leander	TX	78641	R495611
G1-026				Lenart	Aleksandra A & John R		2004 Granite Springs Rd			Leander	TX	78641	R495610
G1-027				Breckling	Robert & Patricia		2000 Granite Springs Rd			Leander	TX	78641-2606	R495609
G1-036; H-022; H-025; H-028		G1; H		Carlton	J Preston & Gayle		PO Box 32			Cedar Park	TX	78630-0032	R031230; R514531; R514538; R520230
G1-038				Matias	Nicholas T & Veronica N		1936 Granite Springs Rd			Leander	TX	78641	R495577
G1-039				Brauer	Martin J & Leona J		1932 Granite Springs Rd			Leander	TX	78641	R495578
G1-040				White	Bryant I & Emily J		1928 Granite Springs Rd			Leander	TX	78641	R495579
G1-041				Farrar	Jennifer & David		1924 Granite Springs Rd			Leander	TX	78641	R495580
G1-042				Mcpherson	Daniel R & Frances C		1920 Granite Springs Rd			Leander	TX	78641	R495581
G1-043				Dharmaraj	Pradeep Samuel D & Amy Ruth C James		1916 Granite Springs Rd			Leander	TX	78641	R495582
G1-044				Goldsberry	Joe D & Joellen S		1912 Granite Springs Rd			Leander	TX	78641	R495583
G1-045				Bank	Devon		1908 Granite Springs Rd			Leander	TX	78641	R495584
G1-046				Spexarth	Matthew J & Jayme M		1904 Granite Springs Rd			Leander	TX	78641	R495585
G1-048; G1-049		G1		Glad Tidings Assembly Of God Inc			2700 Northland Dr			Austin	TX	78756	R031223; R319362
G1-050		D1; F1; G1		Ccmccoy Llc			37 Sundown Pkwy			Austin	TX	78746	R031220
G2-001; G2-002	201	C2; F2; G2; H2; L2		Moore	Dennis Ray		1600 Toro Grande Dr			Cedar Park	TX	78613-7581	R333723; R337916
G2-003		C2; F2; G2		Renfro	Darlene		106 Shady Oak Dr			Georgetown	TX	78628-8330	R332630
G3-002; N3-114; N3-120		G3; H3; I3; N3		Scott Felder Ltd Partnership			C/O Ryland Homes	1101 Arrow Point Dr	Ste 101	Cedar Park	TX	78613-7738	R055347; R379697; R403771
G3-003		G3		Mccormick	Charles O & Susan E		2035 Woodglen Dr			Round Rock	TX	78681-2605	R360840
G3-004		G3; H3		Watson	Foy & Gloria		1312 Becca Teal Pl			Round Rock	TX	78681-2242	R405334
G3-005		G3		Rhodes	Kevin & M Emily		1314 Becca Teal Pl			Round Rock	TX	78681	R405333
G3-006		G3		Knight	Marvin R & Bernadette S		2505 Donner Path			Round Rock	TX	78681	R400078
G3-007	1432	G3		Crimmins	Geoffrey M & Denise		2509 Donner Path			Round Rock	TX	78681	R400079
G3-008	1433	G3		Schauberger	Wilfred W & Joyce M		2511 Donner Path			Round Rock	TX	78681	R400080
G3-010	1443	G3		Goodrum	Shayne M & Michelle R		2657 Henley Dr			Round Rock	TX	78681-2240	R400096
G3-011	1442	G3		Fitzgerald	Russell O & Rose M		2655 Henley Dr			Round Rock	TX	78681-2240	R400095
G3-012	1431	G3		Speer	Stephanie & Michael E		2512 Donner Path			Round Rock	TX	78681	R400081
G3-013	1429	G3		Whetstone	Kerry C & Christine		2510 Donner Path			Round Rock	TX	78681-2235	R400082
G3-014	1430	G3		Fleishman	Charles Doyle & Shelia P		2508 Donner Path			Round Rock	TX	78681-2235	R400083
G3-015		G3		Welsh	John M & Beatrice E		190 E Edgewood Pl			San Antonio	TX	78209-3302	R400084
G3-016	1428	G3		Norris	Greg T & Gloria J		2651 Henley Dr			Round Rock	TX	78681	R400093
G3-017	1427	G3		Jones	Jerry M & Anna M		2649 Henley Dr			Round Rock	TX	78681-2240	R400092
G3-018	1426	G3		Del Mercado	Alejandro Vazquez		2647 Henley Dr			Round Rock	TX	78681	R400091
G3-019	1425	G3		Sopher	Roger & Lisa		2645 Henley Dr			Round Rock	TX	78681-2240	R400090
G3-020		G3		Brahosky	Stephen A & Jodi M		2643 Henley Dr			Round Rock	TX	78681-2240	R400089
G3-022	1441	G3		Blauser	Jeffrey S & Rebecca K		2658 Henley Dr			Round Rock	TX	78681-2240	R400117
G3-023	1440	G3		Ogle	Rex Earl Jr & Nora Gay		2656 Henley Dr			Round Rock	TX	78681-2240	R400116
G3-024	1439	G3		Mooney	Randall & Elizabeth L		2654 Henley Dr			Round Rock	TX	78681	R400115
G3-025	1438	G3		Hassel	Lisa M & Michael E		2803 Loncola Ct			Round Rock	TX	78681-2239	R400114
G3-026	1437	G3		Budjaja	Taminun & Yuhua Lee		2805 Loncola Ct			Round Rock	TX	78681-2239	R400113
G3-027	1436	G3		Oneal	Robert E III & Dorothy L		2807 Loncola Ct			Round Rock	TX	78681-2239	R400112
G3-028	1435	G3		Tucker	Jeffrey L & Donna M		2809 Loncola Ct			Round Rock	TX	78681-2239	R400111
G3-029	1434	G3		Banks	John T		2811 Loncola Ct			Round Rock	TX	78681	R400110
G3-031	1424	G3		Duvall	Nicole H		2701 Wolkin Cv			Round Rock	TX	78681	R400108
G3-032	1423	G3		Garza	Valente Jr & Lorina C		2642 Henley Dr			Round Rock	TX	78681-2240	R400099
G3-033		G3		Garlanger	Mark & Lisa		2640 Henley Dr			Round Rock	TX	78681	R400098
G3-034	1422	G3		Bitner	Jerry E & Florence M		2703 Wolkin Cv			Round Rock	TX	78681-2238	R400107
G3-035	1421	G3		Hause	Stephen R & Shelley D		2702 Wolkin Cv			Round Rock	TX	78681-2238	R400100
G3-036	1420	G3		Amacher	Carla L & Terry		2705 Wolkin Cv			Round Rock	TX	78681	R400106
G3-037	1419	G3		Jordan	Mark & Sylvian M		2704 Wolkin Cv			Round Rock	TX	78681	R400101
G3-038	1418	G3		Curlee	James Don & Leslie Lynn		2707 Wolkin Cv			Round Rock	TX	78681-2238	R400105
G3-039	1417	G3		Hart	Julian Curtis & Sharon L		2706 Wolkin Cv			Round Rock	TX	78681-2238	R400102

Leander-Round Rock 138-kV Transmission Line Project
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G3-040	1416	G3		Vieira	David Eduardo & Evie Marie		2709 Wolkiin Cv			Round Rock	TX	78681	R400104
G3-041	1415	G3		Mcgraw	Alan M & Kathy L		2708 Wolkin Cv			Round Rock	TX	78681-2238	R400103
G3-042		G3		Mallory	Philip F & Ruth H		2843 Chatelle Dr			Round Rock	TX	78681-2237	R390840
G3-043		G3		Pan	Chenwei Oscar & Wei-Chung		2103 Burnie Bishop Pl			Cedar Park	TX	78613	R390839
G3-044		G3		Ault	Michael & Loretta		2917 Cuero Cv			Round Rock	TX	78681-2316	R431053
G3-045	1411	G3		Sammon	Alvis & Phyllis		2913 Cuero Cv			Round Rock	TX	78681-2316	R431054
G3-046	1410	G3		Hayes	Stuart W & Tiffany D		2909 Cuero Cv			Round Rock	TX	78681-2316	R431055
G3-047	1409	G3		Patton	Vera L & Watson M Howell Jr		2905 Cuero Cv			Round Rock	TX	78681	R431056
G3-048	1408	G3		Wehring	Billy		2901 Cuero Cv			Round Rock	TX	78681	R431057
G3-049	1414	G3		Butz	Kenneth J & Monique		2844 Chatelle Dr			Round Rock	TX	78681-2237	R390841
G3-050	1413	G3		Leara	William D		2842 Chatelle Dr			Round Rock	TX	78681-2237	R390842
G3-051	1412	G3		Ragsdale	Gordon L & Judith C		2840 Chatelle Dr			Round Rock	TX	78681-2237	R390843
G3-052		G3		Clements	William R III & Nancy D		2838 Chatelle Dr			Round Rock	TX	78681	R390844
G3-054	1405	G3		White	Linda G & George A		3000 Las Colinas Way			Round Rock	TX	78681	R440911
G3-055; G3-056; G3-086; H3-068	1455; 1457	G3; H3		Hidden Glen Hoa Inc			C/O Goodwin Management, Inc	PO Box 203310		Austin	TX	78720-3310	R414328; R430970; R440912; R440933
G3-057	1388	G3		Peterson	Scott C & Susan M		3008 Las Colinas Way			Round Rock	TX	78681-2337	R440910
G3-058	1387	G3		Musabika	Reggis		3012 Las Colinas Way			Round Rock	TX	78681	R440909
G3-059	1386	G3		Mcmanus	William P & Karen H		3016 Las Colinas Way			Round Rock	TX	78681	R440908
G3-060	1385	G3		Russey	Ronnie E & Patricia L		3020 Las Colinas Way			Round Rock	TX	78681	R440907
G3-061		G3		Hope	Janet		3024 Las Colinas Way			Round Rock	TX	78681	R440906
G3-062		G3		Pham	Joseph Q & Maryn Q		2912 Cuero Cv			Round Rock	TX	78681	R431048
G3-063	1407	G3		Ager	Michael & Sheerin		2904 Cuero Cv			Round Rock	TX	78681-2316	R431047
G3-064	1406	G3		Neal	Donald H & Frances J		2900 Cuero Cv			Round Rock	TX	78681-2316	R431046
G3-065		G3		Gallia	John & Jessica H		2925 Plantation Dr			Round Rock	TX	78681	R430978
G3-066	1404	G3		Oblouk	Raymond Francis & Wendy Ann		2605 Plantation Dr			Round Rock	TX	78681	R430997
G3-067		G3		Marrara	Mark & Rebecca		2921 Plantation Dr			Round Rock	TX	78681	R430979
G3-068	1403	G3		Dinwiddie	Dinah L		2609 Plantation Dr			Round Rock	TX	78681	R430996
G3-069		G3		Kindred	Nicole		2905 Laurel Grove Way			Round Rock	TX	78681	R430994
G3-070	1401	G3		Ashraf	Salman & Samaa A		2613 Plantation Dr			Round Rock	TX	78681-2311	R430995
G3-071	1402	G3		Haley	Nathan E & Patina		2610 Plantation Dr			Round Rock	TX	78681-2311	R430962
G3-072	1400	G3		Coates	Ronald L Jr & Jessica		2614 Plantation Dr			Round Rock	TX	78681	R430963
G3-073	1399	G3		Varkey	Vipin & Thara Viswanath		2618 Plantation Dr			Round Rock	TX	78681	R430964
G3-074	1398	G3		Hoffman	Reva V & Janet M Hope & Dusti Hope		2622 Plantation Dr			Round Rock	TX	78681	R431006
G3-075	1396	G3		Grand	Stephen P & Anna Wang		2900 Laurel Grove Way			Round Rock	TX	78681	R431040
G3-076	1397	G3		Owen	Scott Robinson & Stephanie Marie		2904 Laurel Grove Way			Round Rock	TX	78681	R431005
G3-077	1394	G3		St George	Michael M & Laura M		2705 Plantation Dr			Round Rock	TX	78681	R431029
G3-078		G3		Goode	Paul V & Yael Goode		2709 Plantation Dr			Round Rock	TX	78681	R431030
G3-079	1395	G3		Kohl	Stephanie Ann & Matthew David		2626 Plantation Dr			Round Rock	TX	78681	R431007
G3-080	1393	G3		Harris	Janet C & Davey		2630 Plantation Dr			Round Rock	TX	78681	R431008
G3-081	1392	G3		Beaulieu	Jeffrey C & Rachel L Fox		2634 Plantation Dr			Round Rock	TX	78681-2311	R431009
G3-082	1390	G3		Blankenship	Patricia Ann		3736 Doral Dr			Longmont	CO	80503	R431010
G3-083	1389	G3		Tewar	Jeegar & Kathryn E		2704 Plantation Dr			Round Rock	TX	78681	R431011
G3-084	1391	G3		Criswell	James A & Dawn M		2708 Plantation Dr			Round Rock	TX	78681	R431012
G3-085		G3		Le	Tai H & Thanh Thao P Le		2712 Plantation Dr			Round Rock	TX	78681-2312	R431013
G3-087	1384	G3		Chafin	Tamara A & Michael S		3011 Las Colinas Way			Round Rock	TX	78681-2337	R440932
G3-088	1383	G3		Gardner	David & Haley		1101 Celtic Cv			Round Rock	TX	78681	R440931
G3-089	1382	G3		Rodden	Georgia C & William Jr		1105 Celtic Cv			Round Rock	TX	78681-2333	R440930
G3-090	1381	G3		Patel	Harshal K		1100 Celtic Cv			Round Rock	TX	78681	R440926
G3-091	1379	G3		Gesch	Walter Mark & Robbin		1104 Celtic Cv			Round Rock	TX	78681	R440927
G3-092	1380	G3		Roup	Robert William & Kimberly Ann		1109 Celtic Cv			Round Rock	TX	78681-2333	R440929
G3-093	1378	G3		Leonardi	Joseph & Janet M		1108 Celtic Cv			Round Rock	TX	78681	R440928
G3-094		G3		Mehta	Bimal C & Viraj B		1105 Coronado Cv			Round Rock	TX	78681-2339	R440924
G3-095	1377	G3		Clark	Richard H & Jane D		1109 Coronado Cv			Round Rock	TX	78681	R440923
G3-096	1376	G3		Ferrell	David Oscar & Mari M		1113 Coronado Cv			Round Rock	TX	78681-2339	R440922
G3-097	1375	G3		Chamblee	Eric & Kimberly		1117 Coronado Cv			Round Rock	TX	78681	R440921
G3-098	1374	G3		Pena	Robert	Jr	1121 Coronado Cv			Round Rock	TX	78681	R440920

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Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
G3-099	1372	G3		King	Carl E Jr & Erika A Herman-King		1125 Coronado Cv			Round Rock	TX	78681	R440919
G3-100	1370	G3		Westall	Laurence B & Susan L		17411 Serene Dr			Morgan Hill	CA	75037	R440918
G3-101	1371	G3		Xu	Xiaoshu & Ganjie Mao		1116 Coronado Cv			Round Rock	TX	78681-2339	R440917
G3-102	1373	G3		Vician	Thomas A & Jessica		1112 Coronado Cv			Round Rock	TX	78681	R440916
G3-103		G3		Sullivan	Brian D & Courtney L		1108 Coronado Cv			Round Rock	TX	78681-2339	R440915
G3-105		G3		Nicklebur	Katherine D & Scott A		1117 Native Garden Cv			Round Rock	TX	78681-2376	R452420
G3-106	1369	G3		Muthali	Harish S & Shubha Prakashan		434 Galleria Dr	Apt 8		San Jose	CA	95134	R452419
G3-107		G3		Bolin	Kellie		1120 Native Garden Cv			Round Rock	TX	78681	R452411
G3-108	1368	G3		Morgan	Andrew A & Stephanie R		1125 Native Garden Cv			Round Rock	TX	78681-2376	R452418
G3-109	1365	G3		Gordon	L C	Jr	1124 Native Garden Cv			Round Rock	TX	78681-2376	R452412
G3-110	1367	G3		Watzke	John & Kim		1129 Native Garden Cv			Round Rock	TX	78681	R452417
G3-111	1363	G3		Dieterle	Christian		1128 Native Garden Cv			Round Rock	TX	78681	R452413
G3-112	1366	G3		Mclain	Jay F & Stephanie M		1133 Native Garden Cv			Round Rock	TX	78681	R452416
G3-113	1364	G3		Arguijo	Felix & Alyson		1136 Native Garden Cv			Round Rock	TX	78681-2376	R452415
G3-114	1362	G3		Lawhorn	Courtney Crim & Justin C		1132 Native Garden Cv			Round Rock	TX	78681-2376	R452414
G3-116		G3		Shimanek	Robert J 111 & Alexandra C		1021 Hidden Glen Dr			Round Rock	TX	78681-2374	R452399
G3-117	1361	G3		Tran	Anthony T & Nhu Pham		1017 Hidden Glen Dr			Round Rock	TX	78681	R452398
G3-118	1360	G3		Quick	Stevenson & Michelle		1013 Hidden Glen Dr			Round Rock	TX	78681-2374	R452397
G3-119	1359	G3		Collier	Lisa & Wiley		1009 Hidden Glen Dr			Round Rock	TX	78681-2374	R452396
G3-120	1358	G3		Kewish	Ronald B Jr & Jatonna		1005 Hidden Glen Dr			Round Rock	TX	78681	R452395
G3-121	1357	G3		Kessler	Craig & Kristen M		909 Hidden Glen Dr			Round Rock	TX	78681-2424	R460547
G3-122	1356	G3		Chao	David M & Sonya B		905 Hidden Glen Dr			Round Rock	TX	78681	R460548
G3-123	1355	G3		Stevens	Sean C & Kristin E		901 Hidden Glen Dr			Round Rock	TX	78681	R460549
G3-124		G3		Mendoza	Jose Angel & Alia Trevino		3201 Andice Path			Round Rock	TX	78681	R462044
G3-125		G3		Stowers	Kenneth & Irma		3205 Andice Path			Round Rock	TX	78681-2377	R462043
G3-126	1323	G3		Bauer	Jason G & Diane M		3200 Napali Ct			Round Rock	TX	78681-2433	R478479
G3-127	1322	G3		Obrien	Francis & Carol A		3204 Napali Ct			Round Rock	TX	78681	R478480
G3-128	1321	G3		Shifman	Jennifer L & Nadav		3201 Napali Ct			Round Rock	TX	78681-2433	R478484
G3-129	1320	D3; G3		Rubenstein	Robert B		3208 Napali Ct			Round Rock	TX	78681	R478481
G3-130	1318	G3		Wernli	Christian Todd & Ladonna Lynn		3209 Napali Ct			Round Rock	TX	78681-2433	R478482
G3-131	1319	G3		Frederick T Edgerton Trustee Of The George C Edgeton Revocable Trust			3205 Napoli Ct			Round Rock	TX	78681	R478483
G3-132	1316	D3; D3a; G3		Wallace	Michael L		1003 Waimea Ct			Round Rock	TX	78681	R478473
G3-134	1354	G3		Craig	Wayne & Lisa		3200 Sanibel Ct			Round Rock	TX	78681	R478408
G3-135	1352	G3		Sivapitchai	Ezhil & Murali Perumalraj		3204 Sanibel Ct			Round Rock	TX	78681	R478409
G3-136	1351	G3		Siemers	James H & Debra S		3208 Sanibel Ct			Round Rock	TX	78681-2432	R478410
G3-137	1349	D3; D3a; E3; G3		Miller	Heath A & Virginia L		3212 Sanibel Ct			Round Rock	TX	78681-2432	R478411
G3-138	1353	G3		Bellville	Keith R & Colette M		848 Hidden Glen Dr			Round Rock	TX	78681	R478438
G3-139		G3		Kosse	Cory D & Charlotte S		844 Hidden Glen Dr			Round Rock	TX	78681-2423	R460536
G3-140	1350	E3; G3		Deli	Vince A Jr & Ashley C		3223 Sanibel Ct			Round Rock	TX	78681	R478437
G3-141		E3; G3		Kiley	Matthew P & Julie M		3227 Sanibel Ct			Round Rock	TX	78681-2432	R478436
G3-142	1348	D3; D3a; E3; G3		Weston	Frederick H III & Danielle M		3216 Sanibel Ct			Round Rock	TX	78681	R478412
G3-143	1314	D3; D3a; E3; G3		Dennon	Mark C		1000 Waimea Ct			Round Rock	TX	78681	R478472
G4-001; I4-001; X2-002		E4; F4; F4a; G4; H4; I3; I4; J4; T5; X2		Oncor Electric Delivery Company			Attn: State & Local Tax Dept	PO Box 219071		Dallas	TX	75221-9071	R055172; R055232; R055397
G4-002	1676	E4; G4; H4; I3; J4		Gapko	Debra		5312 Travis Oaks Dr			Marble Falls	TX	78654-3560	R300961
G4-003	1675	E4; G4; H4		Spears	Jeffrey		1809 Sylvia Ln			Round Rock	TX	78681	R300957
G4-004	1677	E4; G4; H4; I3; J4		Guardado	Carlos		1802 Somerset Dr			Round Rock	TX	78681-2800	R300963
G4-005	1679	G4; I3; J4		Grieve	Dorothy		1800 Somerset Dr			Round Rock	TX	78681-2800	R300964
G4-006	1678	G4		Gonzalez	Javier & Ma Dolores		1805 Sylvia Ln			Round Rock	TX	78681	R300955
H-001	86; 87	C1; D1; H; O		Sorenson	Michael & Benita		10996 E Crystal Falls Pkwy			Leander	TX	78641-2248	R031219
H-002	81	C1; D1; H; O		Reid	Tommy A & Kathleen A		PO Box 113			Leander	TX	78646-0113	R321793
H-003	85	H		Payton	Danny J & Helene M		10990 E Crystal Falls Pkwy			Leander	TX	78641-2248	R031224
H-004	80	H		Pandilma Llc			2288 Park Place Cir			Round Rock	TX	78681	R031240
H-005		H		Martin	Ralph D & Bethany B		403 Scarlet Maple Dr			Cedar Park	TX	78613-3981	R031225
H-006	79	H		Holloway	James L & Linda		10981 E Crystal Falls Pkwy			Leander	TX	78641-2258	R031343
H-007	84	H		Anderson	Dorothy Jean Stephenson		10970 E Crystal Falls Pkwy			Leander	TX	78641-2248	R542627
H-008	78	H		Yeakley	Celeste H		10965 E Crystal Falls Pkwy			Leander	TX	78641	R031342
H-010		H		Crystal Falls Business Park Llc			13760 Noel Rd	Ste 1020		Dallas	TX	75240	R031217
H-011		H		Mcdaniel	Emelie C		610 Mistywood Cir			Cedar Park	TX	78613-4439	R031341
H-012	83	H		Harris	Teresa Cole & Harold Dwight		10952 E Crystal Falls Pkwy			Leander	TX	78641-2248	R031209
H-013	82	H		Utz	Christopher Lee		PO Box 1487			Leander	TX	78646-1487	R051556

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
H-014		H		Craven	Charles & Margarette		30309 Berry Creek Dr			Georgetown	TX	78628-1134	R430106
H-015		H		Whitten	Bryan & Dan Krueger		1406 Jefferson St			Bastrop	TX	78602-3017	R031345
H-016		H		Bell	Danny & Kenneth M & Carrie L		PO Box 126			Cedar Park	TX	78630-0126	R435538
H-017		H		Ganninger	Mark E & Dana L		15700 Palomino Ranch Dr			Leander	TX	78641-2868	R432774
H-018		H		Williamson County Humane Society Inc			10930 E Crystal Falls Pkwy			Leander	TX	78641-2248	R031208
H-019	77	H		T2C Llc			12426 Boheme Dr			Houston	TX	77024	R432773
H-020		H		Bell Crystal Properties Llc			1300 W Whitestone Blvd	Bldg K		Cedar Park	TX	78613	R432772
H-021		H		Atmos Energy Corporation Fka Lone Star Gas Company			5420 Lbj Frwy	Ste 1800		Dallas	TX	75240	R498050
H-023; H-024	75; 76	H		Winter	Douglas J & Chong S		8304 West Dr			Leander	TX	78641-6059	R031275; R031383
H-026; H-027	74	H		Simpson	Kenneth L		10907 E Crystal Falls Pkwy			Leander	TX	78641-2258	R031354; R432766
H-029	73	H		Broun	Cathy Lynne		10880 E Crystal Falls Pkwy			Leander	TX	78641	R031202
H-030		H		Brown	David O & Mary J		10850 E Crystal Falls Pkwy			Leander	TX	78641	R051458
H-031; H-033		H		Cwhs 272 Ltd			502 Baylor St			Austin	TX	78703	R526322; R534496
H-032		H		Bld Crystal Springs Llc			8601 Ranch Road 2222	Bldg 1, Ste 150		Austin	TX	78730-2304	R526321
H-034	71; 72	H		Good Earth Day School Llc			10820 E Crystal Falls Pkwy			Leander	TX	78641-2249	R534495
H-036	70	H		Crystal Falls Ortho Llc			5900 Padre Cv			Austin	TX	78731	R031214
H-037		H		Premas Global Leander 1 Llc			2888 Loker Ave E	Ste 212		Carlsbad	CA	92010-6685	R432784
H-038		H		The Richard W And Linda J Davis Living Trust			10760 E Crystal Falls Pkwy			Leander	TX	78641	R432785
H-039; H-040		H		Premas Global Leander Llc			2888 Loker Ave E	Ste 212		Carlsbad	CA	92010-6685	R432786; R432787
H-041	68	H		Mellem	Maneed		1704 Burning Tree Ln			Plano	TX	75093-2814	R031248
H-042		H		Dieter	Thomas A		11402 Bristle Oak Trl			Austin	TX	78750-1308	R031270
H-043		H		Hogan	Barney J		7650 Ranch Road 2243			Leander	TX	78641-1648	R031269
H-044		H		197 Crystal Falls Jv			3200 Southwest Fwy	Ste 3000		Houston	TX	77027	R497327
H-045		H		Gc Parkway Crossing Ltd			12750 Merit Dr	Ste 1175		Dallas	TX	75251	R543182
H-046		H		Crystal Falls Ltd			12750 Merit Dr Ste 1175			Dallas	TX	75251	R489217
H-047; H-048		H		Nemec	Craig		3215 Gilbert St			Austin	TX	78703-2221	R343706; R343707
H-049		H		Parsley	Alan Craig & Carla Renee		351 Private Road 920 # 2			Leander	TX	78641-1645	R343708
H-050; H-051	55; 56; 57; 58; 59; 60; 61; 62; 63; 64	H		Dill	George		12001 Cactus Bnd			Austin	TX	78727-6503	R482693; R482700
H-052; H-053	65; 66; 67	H		Life Church Inc			1393 E Woodview Dr			Leander	TX	78641	R031373; R031374
H-054; H-055		H		Talan Llc			111 Marshall Ct			Georgetown	TX	78628	R031361; R512974
H-056		H		Bw & Carlene Pruett Family Trust & Samuel & Ida Nell Pearson Family Trust			PO Box 316			Leander	TX	78646	R031358
H1-001		C1; E1; F1; H1		Bruce	Grady R & Amy J		808 County Road 177			Leander	TX	78641-2534	R507838
H1-002; O-001	96	C1; D1; E1; H; H1; I1; K1; O; V4		Jackson	Lee A		16100 Ronald W Reagan Blvd			Leander	TX	78641-2578	R032116; R473809
H1-003	97	H1		Bruce	Grady R & Amy J	II	808 County Road 177			Leander	TX	78641-2534	R505595
H1-004; K1-008; K1-009		H1; I1; K1		Evans	Chantal Diane & Robert B Evans		5800 Marilyn Dr			Austin	TX	78757	R031560; R473470; R473471
H3-001	1496	H3		Jaksch	Todd A		1253 Lacey Oak Loop			Round Rock	TX	78681-2179	R361073
H3-002	1495	H3		Good	Matthew D & Jessica R Gaston		414 Central Dr			Georgetown	TX	78628	R361074
H3-003	1494	H3		Martinez	Brian T		2000 Lacey Oak Cv			Round Rock	TX	78681-2182	R361075
H3-004	1493	H3		Woolsey	Michael David		2002 Lacey Oak Cv			Round Rock	TX	78681-2182	R361076
H3-005	1492	H3		Oneal Roger Brian & Kimberly			2004 Lacey Oak Cv			Round Rock	TX	78681-2182	R361077
H3-006	1491	H3		Landrum Michael & Carolyn			2006 Lacey Oak Cv			Round Rock	TX	78681-2182	R361078
H3-007		H3		Brown	Casey Ann		2005 Lacey Oak Cv			Round Rock	TX	78681	R361079
H3-009		H3		Chisholm Trail Developers Venture Ltd			1001 Fannin St	Ste 4700		Houston	TX	77002-6798	R325976
H3-010	1487	G3; H3		Esquell	Ryan & Julie		1310 Becca Teal Pl			Round Rock	TX	78681-2242	R405335
H3-011	1488	G3; H3		Gialusis	Menelaus Manos & Tracy M		1308 Becca Teal Pl			Round Rock	TX	78681	R405336
H3-012	1490	G3; H3		Bell	Daniel L Jr & Linda J		1306 Becca Teal Pl			Round Rock	TX	78681-2242	R405337
H3-013	1489	G3; H3; I3		Trammell	Mitchell & Laura		1304 Becca Teal Pl			Round Rock	TX	78681-2242	R405338
H3-014	1486	G3; H3; I3		Dodds	John D & Kimberly G		1302 Becca Teal Pl			Round Rock	TX	78681	R405339
H3-015	1485	H3		Schneider	David R & Shanna M		1300 Becca Teal Pl			Round Rock	TX	78681-2242	R405340
H3-016	1484	H3		Finnigan	Brian J & Liza C		2401 Dylan Garrett Cv			Round Rock	TX	78681-2245	R405341
H3-017	1483	H3		Rufus	Monday N		2403 Dylan Garrett Cv			Round Rock	TX	78681-2245	R405342
H3-018	1482	H3		Reeves	Leah & Scott		2405 Dylan Garrett Cv			Round Rock	TX	78681-2245	R405343
H3-019	1481	H3		Gipson	Ronald D & Dorothy W		2407 Dylan Garrett Cv			Round Rock	TX	78681-2245	R405344

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
H3-020	1479	H3		Sheppard	Michael Sean & Lynette Marie Sheppard		2409 Dylan Garrett Cv			Round Rock	TX	78681-2245	R405345
H3-021; H3-067; I3-042; O3-190; V2-002; X2-006; X2-007; X2-008; Y2-154	1253; 1254; 1255	H3; I3; K5; L3; M3; O3; Q2; R2; S2; V2; X2; Y2		City Of Round Rock			221 E Main St			Round Rock	TX	78664-5299	R097930; R300919; R329746; R351010; R351011; R405326; R405372; R424709; R424710
H3-022	1477	H3		Sauls	Wayne J & Melissa P		2408 Dylan Garrett Cv			Round Rock	TX	78681-2245	R405346
H3-023	1476	H3		Williams	James E V & Claudia Fg		2406 Dylan Garrett Cv			Round Rock	TX	78681-2245	R405347
H3-024	1478	H3		Fontenot	Donna Ruth & Robert		2404 Dylan Garrett Cv			Round Rock	TX	78681-2245	R405348
H3-025	1480	H3		Ponder Donald H & Cynthia Y Trustees Of The Donald H Ponder Survivors Trust			2402 Dylan Garrett Cv			Round Rock	TX	78681	R405349
H3-026		H3		Freedom Mortgage Corporation			C/O Loancare Llc	3637 Sentara Way	Ste 303	Virginia Beach	VA	23452	R405350
H3-027				Jeter	Leann & Warren		2501 Christine Rose Ct			Round Rock	TX	78681	R405351
H3-028		H3		Fregia	Barrye B & Tracy L Travis		2503 Christine Rose Ct			Round Rock	TX	78681-2244	R405352
H3-029	1475	H3		Mcquillan	Jason S & Amanda L		2505 Christine Rose Ct			Round Rock	TX	78681-2244	R405353
H3-030	1474	H3		Gill	Lawrence E & Melissa P		2506 Christine Rose Ct			Round Rock	TX	78681	R405354
H3-031	1473	H3		Hargrove	Robert D		2504 Christine Rose Ct			Round Rock	TX	78681-2244	R405355
H3-032	1472	H3		Loft	Chris & Valerie M		2502 Christine Rose Ct			Round Rock	TX	78681-2244	R405356
H3-033				Cooper	William Brady & Karen Vigil		2500 Christine Rose Ct			Round Rock	TX	78681-2244	R405357
H3-034				Shepherd	Shane E & Corrine R		1316 Becca Teal Pl			Round Rock	TX	78681	R405332
H3-035				Houston	Roderick D & Laura M Deddens (Rs)		PO Box 1388			Round Rock	TX	78680	R405331
H3-036				Heistand	Raymond D II & Karen S Heistand		1320 Becca Teal Pl			Round Rock	TX	78681-2242	R405330
H3-037				Douriet	Daniel & Gaby		1322 Becca Teal Pl			Round Rock	TX	78681-2242	R405329
H3-038				Cohen	Richard & Debra L		1324 Becca Teal Pl			Round Rock	TX	78681	R405328
H3-039				Yeager	Kurt & Laura S		1326 Becca Teal Pl			Round Rock	TX	78681-2242	R405327
H3-040		H3		Kenny	Daniel P & Khristie K		2675 Henley Dr			Round Rock	TX	78681	R405358
H3-041	1471	H3		Durham	Scott F & Ann M		2677 Henley Dr			Round Rock	TX	78681	R405359
H3-042	1470	H3		Chiriboga	David A & Jean M		2678 Henley Dr			Round Rock	TX	78681-2246	R405360
H3-043	1469	H3		Costenbader	Mark D		2676 Henley Dr			Round Rock	TX	78681-2246	R405361
H3-044		H3		Carter	Brent T		2674 Henley Dr			Round Rock	TX	78681-2246	R405362
H3-045		H3		Nolen	Daniel E III & Nina W		2701 Michelle Lynne Cv			Round Rock	TX	78681	R405363
H3-046	1468	H3		Skinner	John A & Katie		2703 Michelle Lynne Cv			Round Rock	TX	78681	R405364
H3-047	1467	H3		Brock	James & Noreen		2704 Michelle Lynn Cv			Round Rock	TX	78681	R405365
H3-048	1466	H3		House	Eddis R & Barbara L		2702 Michelle Lynne Cv			Round Rock	TX	78681-2243	R405366
H3-049		H3		Bryan	Rex & Stacie		2700 Michelle Lynn			Round Rock	TX	78681	R405367
H3-050	1465	H3		Solum	Wayne Edward & Lela T		1343 Becca Teal Pl			Round Rock	TX	78681-2242	R405368
H3-051	1464	H3		B&E Ventures Llc			4301 W William Cannon	Ste B150 # 234		Austin	TX	78749	R405369
H3-052	1463	H3		Sharp	Timothy F & Shelle A		1349 Becca Teal Pl			Round Rock	TX	78681	R443073
H3-053				Montoya	Lydia J & Jesus	III	1330 Becca Teal Pl			Round Rock	TX	78681	R405312
H3-054				Johnson	Kevin & Kellie		1332 Becca Teal Pl			Round Rock	TX	78681-2242	R405313
H3-055				Long William D & Leslie A Trs Of Living Trust			1334 Becca Teal Pl			Round Rock	TX	78681	R405314
H3-056				Kiemsteadt	Cynthia A		1336 Becca Teal Pl			Round Rock	TX	78681	R405315
H3-057				Mcneil	David L & Jeanne M		1338 Becca Teal Pl			Round Rock	TX	78681	R405316
H3-058				Hoss	Shawn Paul & Denise		1340 Becca Teal Pl			Round Rock	TX	78681-2242	R405317
H3-059				Dibari	John T & Sandra M		1342 Becca Teal Pl			Round Rock	TX	78681-2242	R405318
H3-060				Legrant	Robbe S & Sean C		1344 Becca Teal Pl			Round Rock	TX	78681	R405319
H3-061		H3		Clawson	Casey W & Elizabeth V		1346 Becca Teal Pl			Round Rock	TX	78681-2242	R405320
H3-062		H3		Bhoj	Ananth N & Vidya Pandarinath		1348 Becca Teal Pl			Round Rock	TX	78681	R405321
H3-063		H3		Sexton	Ray L III & Diane Kallus		1350 Becca Teal Pl			Round Rock	TX	78681-2242	R405322
H3-064		H3		Williams	Shanna		1352 Becca Teal Pl			Round Rock	TX	78681	R405323
H3-065	1459	H3		Bogle	David W & Michelle G		1354 Becca Teal Pl			Round Rock	TX	78681	R405324
H3-066	1458	H3		Hughes	Randall A & Julie K		1356 Becca Teal Pl			Round Rock	TX	78681	R405325
H3-069		H3		Frans	Allen Marvin		2836 Plantation Dr			Round Rock	TX	78681-2313	R430969
H3-070	1456	H3		Antoine	Glen C & Ametra J		2832 Plantation Dr			Round Rock	TX	78681	R430968
H3-071		H3		Chapman	Lisa D		2828 Plantation Dr			Round Rock	TX	78681	R430967
H3-072	1454	H3		Malluhi	Qutaibah		3419 Shiraz Loop			Round Rock	TX	78665	R430966
H3-073	1453	H3		Mcinerney	James P & Charlene L		2820 Plantation Dr			Round Rock	TX	78681	R430965
H3-074	1452	H3		Ward	Terri L		2816 Plantation Dr			Round Rock	TX	78681	R431028
H3-075	1451	H3		Walker	Kent E & Sarah M		2812 Plantation Dr			Round Rock	TX	78681	R431027
H3-076	1450	H3		Sellers	Larry D & Devorah R		2808 Plantation			Round Rock	TX	78681	R431026

Leander-Round Rock 138-kV Transmission Line Project
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Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
H3-077	1449	H3		Carson	Michael & Amanda		2804 Plantation Dr			Round Rock	TX	78681-2313	R431025
H3-078	1448	H3		Havener	Bradley A & Kelli M		2800 Plantation Dr			Round Rock	TX	78681-2313	R431024
H3-079		H3		Bauersachs	Derrek & Lindsay		2752 Plantation Dr			Round Rock	TX	78681	R431023
H3-080		H3		Meek	Douglas & Kelly		712 Hidden Glen Cv			Round Rock	TX	78681-2422	R460574
H3-081	1447	H3		Bledsoe	Allen		716 Hidden Glen Ct			Round Rock	TX	78681	R460578
H3-082	1446	H3		Mckerlie	Murray & Nicola		713 Hidden Glen Cv			Round Rock	TX	78681-2422	R460576
H3-083		H3		Du	Xiaoyang		805 Folsom Cv			Round Rock	TX	78681-2420	R460567
H3-084	1445	H3		Buttone	Kenneth J & Dana L		801 Folsom Cv			Round Rock	TX	78681	R460568
H3-085	1444	H3		Figurell	James A & Dolly A		800 Folsom Cv			Round Rock	TX	78681-2420	R460575
H3-086		H3		Bolsius	Roger F & Lawanda London		815 Hidden Glen Dr			Round Rock	TX	78681	R460557
H3-087	1346	H3		Lewis	Joseph B & Carrie Beaton		808 Hidden Glen Dr			Round Rock	TX	78681	R460546
H3-088	1345	H3		Abraham	Teji T & Beenu M		812 Hidden Glen Dr			Round Rock	TX	78681	R460545
H3-089	1343	C3; E3; H3		Darling	Matthew J & Rebecca M		3267 Sanibel Ct			Round Rock	TX	78681-2432	R478426
H3-090	1342	C3; E3; H3		Karges	Douglas W & Frankie H		3268 Sanibel Ct			Round Rock	TX	78681	R478425
H3-091	1462	H3		Knorre	Frederick J & Susan M Eriksen		2306 Live Oak Cir			Round Rock	TX	78681	R379567
H3-092		H3		Keiser Interests Llp			1100 W Old Settlers Blvd			Round Rock	TX	78681	R324945
H3-093				Pcg Exchange 2007-303 Llc			C/O Pcg Exchange Inc	600 Lexington Ave	Fl 33	New York	NY	10022	R475073
H3-094				Rrhi Inc & Edmond Inestment Group Inc			227 Billingford Dr			Katy	TX	77450-1461	R475074
H3-095	1460; 1461	H3		Faith	Missionary Baptist		1561 Sam Bass Rd			Round Rock	TX	78681	R370197
H3-096		H3		American Freightways Corp			PO Box 840			Harrison	AR	72602-0840	R395788
H3-099		H3		Group 1 Realty Inc			800 Gessner	Ste 500		Houston	TX	77024	R543377
H3-100		H3		Austin Mka Investments Ltd			13401 Ranch Road 620 N			Austin	TX	78717-1020	R344967
H3-101		C3; E3; H3		Behrens	Bessie May		PO Box 2529			Round Rock	TX	78680	R325601
H6-001; N-001; N-002; N-003; N-006; O-002; O-008; U4-001; V4-027; V4-028; V4-029		C1; C6; F6; G6; H6; L; M; N; O; P; U4; V4		Reagan & Fm 2243 Ltd			100 Congress Ave	Ste 1450		Austin	TX	78701-2721	R032118; R032122; R037216; R037217; R037218; R094385; R504655; R506731; R509659; R512374; R516399
I-001		C; H; I		Leander Developers 4 Ltd			PO Box 249			Leander	TX	78646-0249	R403524
I2-001	244	I2; J2; K4; Q2; T2		Wiseman	Sue		3900 County Road 175			Leander	TX	78641-1603	R031468
I2-002	241	I2; J2; K4; Q2; T2	Ms.	Galloway	Gladys Katherine		C/O Nancy Sue Wiseman	3900 County Road 175		Leander	TX	78641-1603	R031466
I2-002	241	I2; J2; K4; Q2; T2		Galloway Gladys K Etal			C/O Nancy Sue Wiseman	3900 County Road 175		Leander	TX	78641-1603	R031466
I2-002	241	I2; J2; K4; Q2; T2	Mr.	McCann	Joe Edgar		C/O Nancy Sue Wiseman	3900 County Road 175		Leander	TX	78641-1603	R031466
I2-002	241	I2; J2; K4; Q2; T2	Ms.	Wiseman	Nancy Sue		C/O Nancy Sue Wiseman	3900 County Road 175		Leander	TX	78641-1603	R031466
I2-003	233; 234	I2		Fuller	Karen & Jeff		6200 Acacia Dr			Leander	TX	78641-9311	R037954
I2-004	232	I2		Merritt	William D & Janice L		6201 Acacia Dr			Leander	TX	78641-9370	R037953
I2-005; O2-001		H2; I2; K3; L3; N2; O2; P2; R2		3975 Whitestone Investments Lp			5113 Southwest Pkwy	250		Austin	TX	78735	R468194; R468195
I3-001		I3; I4		Michaelsen	Scott H & Sheila		500 Whistlers Walk			Cedar Park	TX	78613-6996	R070156
I3-002	1693	G4; I3; I4; J4		Flores	Jose Roberto & Vanessa M		1701 Somerset Dr			Round Rock	TX	78681	R092644
I3-003	1690	G4; I3; I4; J4		Johnson	John Sidney		C/O George Andrew Webb Trust	1002 Aqualine Cove		Round Rock	TX	78681-5802	R092643
I3-004	1691	G4; I3; I4; J4		Lusk	Jerome K & Guadalupe B		1627 Peachtree Valley Dr			Round Rock	TX	78681-1940	R092642
I3-005	1692	G4; I3; I4; J4		Vest	Jeremy W & Karen D		17125 Ennis Trl			Austin	TX	78717	R092641
I3-006	1683	G4; I3; I4; J4		Rogers	David C & Angelica		1623 Peachtree Valley Dr			Round Rock	TX	78681-1940	R092640
I3-007	1684	I3		Moreno	Anthony		1621 Peachtree Valley Dr			Round Rock	TX	78681-1940	R092639
I3-008		I3		Challow	Angela		1619 Peachtree Valley Dr			Round Rock	TX	78681-1940	R092638
I3-009		I3		Lancaster	Douglas G & Judith A		1617 Peachtree Valley Dr			Round Rock	TX	78681	R092637
I3-010		G4; I3; I4; J4		Clark	Bob Estate		C/O Louise S Clark, Indep Exec	105 Sheraton Dr		San Antonio	TX	78209-5452	R086183
I3-010		G4; I3; I4; J4	Mr.	Clark	Robert Christopher		105 Sheraton Dr			San Antonio	TX	78209-5452	R086183
I3-010		G4; I3; I4; J4		Estate of Louise S Clark, Deceased			C/O R Christopher Clark	105 Sheraton Dr		San Antonio	TX	78209-5452	R086183
I3-010		G4; I3; I4; J4	Ms.	Holt	Mellisa Ann Clark		105 Sheraton Dr			San Antonio	TX	78209-5452	R086183
I3-011	1685	G4; I3; I4; J4		Jefferson	Paul A & Tina M		1626 Peachtree Valley Dr			Round Rock	TX	78681-1939	R092645
I3-012	1686	G4; I3; I4; J4		Miller	Johnnie & Marla		1624 Peachtree Valley Dr			Round Rock	TX	78681-1939	R092646
I3-013	1687	G4; I3; J4		Harrington	Christopher E		1622 Peachtree Valley Dr			Round Rock	TX	78681	R092647
I3-014	1688	I3		Amachigh	Shina L & Margaret		717 Oak View Cv			Georgetown	TX	78628	R092648
I3-015	1689	I3		Aman	Peter		3202 Clumpgrass Cv			Austin	TX	78735-1535	R092701
I3-016		I3		Rhodes	Frank P & Karen E		1616 Peachtree Valley Dr			Round Rock	TX	78681-1939	R092650
I3-017		I3		Soto	Ubaldo		1615 Somerset Dr			Round Rock	TX	78681-2855	R092700
I3-018	1680	G4; I3; J4		Leblanc	Kori K		1712 Somerset Dr			Round Rock	TX	78681-2862	R300965
I3-019	1681	G4; I3; J4		Follett	William C		1801 Sylvia Ln			Round Rock	TX	78681	R300953
I3-020	1682	G4; I3; J4		Marx	Jay B & Cassandra M		1708 Somerset Dr			Round Rock	TX	78681-2862	R300967
I3-021	1664	G4; I3; J4		Schuetz	Michael & Kasey		1711 Sylvia Ln			Round Rock	TX	78681	R300951

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
I3-022	1662	G4; I3; J4		Stewart	Tyler & Jessica Svee		1707 Sylvia Ln			Round Rock	TX	78681-1992	R300950
I3-023	1666	G4; I3; J4		Amos	Michael J		1704 Somerset Dr			Round Rock	TX	78681	R300969
I3-024	1663	G4; I3; J4		Ocampo	Juan		206 Blossom Hill Rd			San Jose	CA	95123	R300949
I3-025	1661	G4; I3; J4		M Y A L Texas Llc Dba M Y A L Texas Series Two Llc			6024 Velasco Ave			Dallas	TX	75206	R300948
I3-026	1665	G4; I3; J4		Thomas	Darla J		1700 Somerset Dr			Round Rock	TX	78681-2862	R300971
I3-027	1660	G4; I3		Terrell	Robert & Tina Marie		1701 Sylvia Ln			Round Rock	TX	78681-1992	R300947
I3-028	1637	G4; I3; J4		Brocklehurst	William Joseph & Jean Lee		1221 Shannon Oaks Trl			Austin	TX	78746	R300942
I3-029	1635	G4; I3; J4		Mcconnell	Phyllia A		1628 Sylvia Ct			Round Rock	TX	78681-1990	R300943
I3-030	1632	I3		Tunnell	Ryan L & Sahara A		1626 Sylvia Ct			Round Rock	TX	78681	R300945
I3-031	1630	I3		Csejka	Susan		1624 Sylvia Ct			Round Rock	TX	78681	R300946
I3-032	1639	G4; I3; J4		Adams	Stacey W		1634 Sylvia Ct			Round Rock	TX	78681	R300941
I3-033	1638	I3		Flores	Natalie & Steven		1635 Sylvia Ct			Round Rock	TX	78681	R300940
I3-034	1636	I3		Campbell	Harold E & Jane E		1633 Sylvia Ct			Round Rock	TX	78681-1989	R300939
I3-035	1634	I3		Staha Ashley N & Donald Adcock & Julia Adcock			1631 Sylvia Ct			Round Rock	TX	78681	R300938
I3-036	1633	I3		Amans	Karen A Kleser & Ross C		8525 Salsifa Ter			Colorado Springs	CO	80920-5799	R300937
I3-037	1631	I3		Melara	Celsa & Veronica Toledo		738 S Chapel Ave	Apt 14		Alhambra	CA	91801-4418	R300936
I3-038	1629	I3		Warner	Beverly M		PO Box 372			Vallejo	CA	94590	R300935
I3-039	1628	I3		Carey	Connie W & Alan C		1623 Sylvia Ct			Round Rock	TX	78681	R300934
I3-040	1627	I3		Humphries	Daniel & Nancy E		1615 Sylvia Ln			Round Rock	TX	78681	R300933
I3-041		I3		Stallings	Walter	Jr	1613 Sylvia Ln			Round Rock	TX	78681-1988	R300932
I3-043		I3		Lee	Everett R & Janiece A		2105 Paradise Ridge Dr			Round Rock	TX	78665	R300672
I3-044	1659	I3		Arroyo	Alfred & Rose & Marie Esquivel		1712 Sylvia Ln			Round Rock	TX	78681-1991	R300674
I3-045	1658	I3		Craft	Allan P		1708 Sylvia Ln			Round Rock	TX	78681-1991	R300676
I3-046	1657	I3		Foster	Janice		1704 Sylvia Ln			Round Rock	TX	78681	R300678
I3-047	1656	I3		Webb	Delbert M & Patricia A Webb		1700 Sylvia Ln			Round Rock	TX	78681-1991	R300683
I3-048	1626	I3		Porter	Scott & Lisa		4501 Secluded Holw			Austin	TX	78727	R300707
I3-049	1625	I3		Bonner	Daniel W & Jennifer L		1620 Sylvia Ln			Round Rock	TX	78681-1987	R300708
I3-050	1624	I3		Perez	Margarito V & Estela		1618 Sylvia Ln			Round Rock	TX	78681	R300710
I3-051	1623	I3		Dusek	Krista Jo Renee		1616 Sylvia Ln			Round Rock	TX	78681	R300711
I3-052	1622	I3		Hopkins	Kenneth M & Vanessa		1614 Sylvia Ln			Round Rock	TX	78681-1987	R300712
I3-053	1621	I3		Harper	Perry Jr & Lucia S		1612 Sylvia Ln			Round Rock	TX	78681-1987	R300854
I3-054	1620	I3		Shearer	Georgina		1610 Sylvia Ln			Round Rock	TX	78681-1987	R300855
I3-055		I3		Hinke	Maria		1608 Sylvia Ln			Round Rock	TX	78681	R300856
I3-056		I3		Arabzadegan	Joel C		1707 Rusty Nail Loop			Round Rock	TX	78681-1973	R312980
I3-057	1655	I3		Morris	Kazuko T & Ronny L Reeder Sr		1705 Rusty Nail Loop			Round Rock	TX	78681-1973	R312982
I3-058	1654	I3		Cole	Brent Lee		1703 Rusty Nail Loop			Round Rock	TX	78681	R312984
I3-059	1653	I3		Asbell	Elizabeth Ann		1701 Rusty Nail Loop			Round Rock	TX	78681-1973	R312986
I3-060	1652	I3		Gonzales	John		1613 Rusty Nail Loop			Round Rock	TX	78681	R312988
I3-061	1651	I3		Walker	Jean		13904 Gothic Dr			Centreville	VA	21021	R312990
I3-062	1618	I3		Daniell	Stephen D & Renae		1601 Lantern Light Dr			Round Rock	TX	78681-1980	R313008
I3-063	1619	I3		Johnston	Evalyn		PO Box 1814			Round Rock	TX	78680-1814	R313010
I3-064	1617	I3		Escovar	Esperanza Sanchez		1519 Lantern Light Dr			Round Rock	TX	78681-1980	R313012
I3-065	1616	I3		Tully	Lisa		1517 Lantern Light Dr			Round Rock	TX	78681	R313013
I3-066	1615	I3		Fooshee	Graham		3400 Monument Dr			Round Rock	TX	78681	R313015
I3-067		I3		Patterson	Linton		4 Falling Oaks Trl			Austin	TX	78738	R313020
I3-068	1649	I3		Gray	Levi & Michelle Wood		1609 Rusty Nail Loop			Round Rock	TX	78664	R312992
I3-069	1614	I3		Chen	Lipei		9005 Middlebie Dr			Austin	TX	78750-3539	R313007
I3-070	1646	I3		Leiva	Wendy P		1607 Rusty Nail Loop			Round Rock	TX	78681	R312994
I3-071	1645	I3		Lynds	Keith		1248 Raymond Dr			Pacheco	CA	94553	R312997
I3-072	1613	I3		Skyliner Atx Llc			63131 Fresca St			Bend	OR	97701	R313005
I3-073	1642	I3		Evans	Robert L & Julie P		1603 Rusty Nail Loop			Round Rock	TX	78681-1971	R312998
I3-074	1612	I3		Cunningham	Dennis K		1607 Lantern Light Dr			Round Rock	TX	78681	R313004
I3-075	1640	I3		Figueroa	Jaime A & Alba L		2937 Desert Candle Dr			Round Rock	TX	78681	R313000
I3-076	1608	I3		Reid	Timothy		1609 Lantern Light Dr			Round Rock	TX	78681	R313002
I3-077	1607	I3		Polk-Mitchell	Loretta Y		1611 Lantern Light Dr			Round Rock	TX	78681-1980	R313001
I3-078		I3		Benitez	Guillermina M		1706 Rusty Nail Loop			Round Rock	TX	78681-1972	R312905
I3-079	1650	I3		Saldana	Pedro S		1704 Rusty Nail Loop			Round Rock	TX	78681-1972	R312902
I3-080	1648	I3		Carter	Robert S & Shannon P		2005 S Ash Cv			Hutto	TX	78634	R312900
I3-081	1647	I3		Truong	Truong V & Duyen		2900 Collingwood Dr			Round Rock	TX	78665-7915	R312899
I3-082		I3		Burleson	Betty M		1801 Hollow Tree Blvd			Round Rock	TX	78681-1969	R312891
I3-083	1644	I3		Sloss	Deborah		1705 Hollow Tree Blvd			Round Rock	TX	78681-1966	R312893
I3-084	1643	I3		Oviedo	Pablo T & Maria G		PO Box 763			Mission	TX	78573	R312895

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
I3-085	1641	I3		Southern Vista Llc			PO Box 96			Driftwood	TX	78619	R312897
I3-086	1611	I3		Cloud	Ashley Rose		1510 Lantern Light Dr			Round Rock	TX	78681	R312865
I3-087	1610	I3		Wollin	Kimberly M		1508 Lantern Light Dr			Round Rock	TX	78681-1978	R312863
I3-088	1609	I3		Garcia	Paul L		1506 Lantern Light Dr			Round Rock	TX	78681	R312861
I3-089	1606	I3		Smith	David L & Neva J		1509 Hollow Tree Blvd			Round Rock	TX	78681-1965	R312808
I3-090		I3	Mr. & Mrs.	McRight	William C and Betty S		1507 Wildwood			Round Rock	TX	78681	R312811
I3-090		I3		Mcright	Wm C & B S Mcright & Wm C & S D Shepard		1507 Hollow Tree Blvd			Round Rock	TX	78681-1965	R312811
I3-090		I3	Mr. & Mrs.	Shepard	William C & Shirley D		1507 Wildwood			Round Rock	TX	78681	R312811
I3-091		I3		Osullivan	Andrea & Robert Gardner		1800 Hollow Tree Blvd			Round Rock	TX	78681-1968	R312772
I3-092; I3-093; I3-094		I3		Bellamy	Gary		1705 Hunters Trl			Round Rock	TX	78681-1912	R312803; R312804; R312807
I3-095	1587	I3		Franks	Teresa Lyn		1602 Hollow Tree Blvd			Round Rock	TX	78681-2865	R312802
I3-096	1586	I3		Zhlebinkova	Silvia T		1600 Hollow Tree Blvd			Round Rock	TX	78681	R312801
I3-097	1585	I3		Gonzalez	Rufino & Maria F		3400 Cortes Pl			Round Rock	TX	78665-5666	R312800
I3-098	1584	I3		Ide	Kelli & Morgan		1508 Hollow Tree Blvd			Round Rock	TX	78681	R312799
I3-099; N3-101	1583; 975	I3; N3		Hendricks	Victor J & Karen B		3700 Powderhorn Dr			Round Rock	TX	78681	R059261; R312798
I3-100		I3		Arbuckle	Dennis		1733 Ryon Ln			Round Rock	TX	78681	R312797
I3-101	1605	I3		Oliver	Kenneth E & Donell Baird		7806 Nutmeg Cv			Austin	TX	78750-7805	R064994
I3-102	1604	I3		Bellamy	Gary & Cindy		1705 Hunters Trl			Round Rock	TX	78681-1912	R064995
I3-103	1603	I3		Douglas	Edwina L		1703 Hunters Trl			Round Rock	TX	78681	R064996
I3-104	1602	I3		Ricketts	Karah Ellen		1701 Hunters Trl			Round Rock	TX	78681	R064997
I3-105	1582	I3		Jeffrey	Debra L		1611 Hunters Trl			Round Rock	TX	78681-1914	R064998
I3-106	1581	I3		Aleman	Lena G & Joe G		1609 Hunters Trl			Round Rock	TX	78681	R064999
I3-107	1580	I3		Murray	Mary F		1607 Hunters Trl			Round Rock	TX	78681-1914	R065000
I3-108	1579	I3		Brown	Mitchell L & Bonnie M		1605 Hunters Trl			Round Rock	TX	78681-1914	R065001
I3-109		I3		Easterwood	Michael B		1603 Hunters Trl			Round Rock	TX	78681	R065002
I3-110	1577	I3		Warfield	Frank H & Barbara A		1601 Hunters Trl			Round Rock	TX	78681-1914	R065003
I3-111	1575	I3		Uhrich	Constance A		1701 Indian Camp Trl			Round Rock	TX	78681-1915	R065004
I3-112	1573	I3		Davila	Efrain & Irma A		1703 Indian Camp Trl			Round Rock	TX	78681-1915	R065005
I3-113		I3		Beaman	Douglas K		1706 Latigo Trce			Round Rock	TX	78681-1932	R092561
I3-114	1571	I3		Ballinger	Margaret E		1705 Indian Camp Trl			Round Rock	TX	78681-1915	R065006
I3-115; I3-117		I3		Sweet	Robert Lewis & Diana Fay		1710 Latigo Trce			Round Rock	TX	78681-1932	R092562; R092563
I3-116	1569	I3		Drewry	James L Jr & Tammie Jo Drewry		1707 Indian Camp Trl			Round Rock	TX	78681-1915	R065007
I3-118	1567	I3		Seaman	Geoffrey		1709 Indian Camp Trl			Round Rock	TX	78681	R065008
I3-119		I3		Williams	Richard C & Georgia A		1712 Latigo Trce			Round Rock	TX	78681-1932	R092564
I3-120	1565	I3		West	John		1609 Hermitage Dr			Round Rock	TX	78681-1909	R065009
I3-121	1564	I3		Phennicie	Clay	III	1714 Latigo Trce			Round Rock	TX	78681-1932	R092565
I3-122	1600	I3		Valle	Ernest C & Maria J		1801 Fawn Ridge Trl			Round Rock	TX	78681-1948	R064952
I3-123	1578	I3		Mcintyre	Mark & Diana K		1600 Hunters Trl			Round Rock	TX	78681-1913	R064965
I3-124	1598	I3		Gunter	John A		1803 Fawn Ridge Trl			Round Rock	TX	78681-1948	R064953
I3-125	1576	I3		Cruse	Jimmy B & Maria E		1700 Indian Camp Trl			Round Rock	TX	78681-1916	R064964
I3-126	1596	I3		Griffith	James W		4000 Sendero Springs Dr			Round Rock	TX	78681-1677	R064954
I3-127	1574	I3		Flanders	Eric I & Julie G & Judith Steadham		1702 Indian Camp Trl			Round Rock	TX	78681	R064963
I3-128	1594	I3		King	Carl William & Connie L		1932 Savannah Dr			Round Rock	TX	78681-2171	R064955
I3-129	1572	I3		Lint	Timothy M & Theresa M		1704 Indian Camp Trl			Round Rock	TX	78681-1916	R064962
I3-130	1592	I3		Berzins	Sean V		1375 Galactic Pl			Castle Rock	CO	80108	R064956
I3-131	1570	I3		Martinez	Joe & Lucinda		2451 Feather Ln			New Braunfels	TX	78130-1252	R064961
I3-132	1590	I3		Huey	Thomas B Jr & Margaret		1811 Fawn Ridge Trl			Round Rock	TX	78681-1948	R064957
I3-133	1568	I3		Guzman	Michael & Deborah		1708 Indian Camp Trl			Round Rock	TX	78681-1916	R064960
I3-134	1588	I3		Bonilla	Vicki A		1813 Fawn Ridge Trl			Round Rock	TX	78681-1948	R064958
I3-135	1566	I3		Wines Richard L & Marianne R Cotrustees Of The Wines Revocable Living Trust			1613 Hermitage Dr			Round Rock	TX	78681	R064959
I3-136		I3		Brock	William R & Shirley A		1706 Hunters Trl			Round Rock	TX	78681-1911	R064939
I3-137	1601	I3		Reasner	Clair Daniel III And Tami J & Mario Nagar		1800 Fawn Ridge Trl			Round Rock	TX	78681	R064938
I3-138		I3		Duff	Sue C		1703 Stagecoach Trl			Round Rock	TX	78681-1832	R064935
I3-139	1599	I3	Mrs.	Patton	Sybil Kay	`	1802 Fawn Ridge Trail			Round Rock	TX	78681-1947	R064937
I3-139	1599	I3		Patton Ronald Duane &			Sybil Kay Patton	1802 Fawn Ridge Trl		Round Rock	TX	78681-1947	R064937
I3-140	1597	I3		Mcdonald	Yvette Z & Michael M		1939 Augusta Ct			Round Rock	TX	78681-2173	R064936
I3-141		I3		Stried	Constance Theresa H		1702 Stagecoach Trl			Round Rock	TX	78681-1832	R064923

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
I3-142	1595	I3		Morgan	Tracey Jean & Jon E		1806 Fawn Ridge Trl			Round Rock	TX	78681-1949	R064922
I3-143	1593	I3		West	Judy B		1808 Fawn Ridge Trl			Round Rock	TX	78681-1949	R064921
I3-144		I3		Mcallister	Melissa		1707 Hermitage Dr			Round Rock	TX	78681-1920	R064918
I3-145	1591	I3		Fan	Yongquan		4501 Steed Dr			Austin	TX	78749	R064920
I3-146	1589	I3	Ms.	Williams	Ethel J		1812 Fawn Ridge Trail			Round Rock	TX	78681-1949	R064919
I3-146	1589	I3		Williams	Don R		Ethel J Williams	1812 Fawn Ridge Trl		Round Rock	TX	78681-1949	R064919
I3-147		I3		Mccarthy	Kevin & Kathrun Mccarthy & Brad Hafner		2260 Flaming Tree Ct			Cedar Park	TX	78613	R064989
I3-148	1544	I3		Damian	Julie C & Marcos E		1706 Hermitage Dr			Round Rock	TX	78681-1921	R064990
I3-149	1543	I3		Mcfarland	Susan		1704 Hermitage Dr			Round Rock	TX	78681	R064991
I3-150; I3-151		I3		Baker	Darrel & Melanie Dunn		2704 Tom Miller St			Austin	TX	78723	R064992; R064993
I3-152	1563	I3		Thompson	Octavia Denise		1614 Hermitage Dr			Round Rock	TX	78681-1922	R064966
I3-153	1562	I3		Yepez	David B		302 Calico Bush Ln			Round Rock	TX	78664-6288	R064967
I3-154	1561	I3		Andrade	Ronald & Susan		1610 Hermitage Dr			Round Rock	TX	78681-1922	R064968
I3-155	1560	I3		Corrigan	Ronald J & Judith		1608 Hermitage Dr			Round Rock	TX	78681-1925	R092594
I3-156	1559	I3		Paxton	Joe E	etux	1606 Hermitage Dr			Round Rock	TX	78681-1925	R092592
I3-156	1559	I3	Mrs.	Paxton	Linda C		1606 Hermitage Dr			Round Rock	TX	78681-1925	R092592
I3-157		I3		Dutschmann	Richard D & Leticia		1604 Hermitage Dr			Round Rock	TX	78681	R092542
I3-158		I3		Champion	Russell Lee & Cheryl Lynne		1709 Blackjack Dr			Round Rock	TX	78681-2140	R018915
I3-159	1542	I3		Reasons	Jennifer Lee		1707 Blackjack Dr			Round Rock	TX	78681	R018739
I3-160	1541	I3		Cranor	Michael R		1705 Blackjack Dr			Round Rock	TX	78681-2140	R018538
I3-161	1540	I3		Hale	Diane J		1703 Blackjack Dr			Round Rock	TX	78681-2140	R018363
I3-162	1539	I3		Chavez	Jose R & Reyna Niz De Chavez		1701 Blackjack Dr			Round Rock	TX	78681	R084490
I3-163	1558	I3		Graham	George & Christine		1611 Blackjack Dr			Round Rock	TX	78681-2139	R084410
I3-164	1557	I3		Summers	Sam & Micki		1609 Blackjack Dr			Round Rock	TX	78681-2139	R084408
I3-165	1556	I3		Gallo	Susan		1607 Blackjack Dr			Round Rock	TX	78681-2139	R084405
I3-166	1555	I3		Sandberg	Kevin & Audrey		1605 Blackjack Dr			Round Rock	TX	78681-2139	R084403
I3-167		I3		Burghart	Thomas J & Tammy L		1603 Blackjack Dr			Round Rock	TX	78681-2139	R084401
I3-168	1538	I3		Lucas	Kerry Alan		1901 Blackjack Cv			Round Rock	TX	78681	R017911
I3-169	1537	I3		Clark	Jerad L		1900 Chaparral Dr			Round Rock	TX	78681	R084414
I3-170		I3		Davidson	Richard C & Rhonda J		1903 Blackjack Cv			Round Rock	TX	78681-2141	R016258
I3-171	1536	I3		Price	Anne Kathryn		1902 Chaparral Dr			Round Rock	TX	78681	R084415
I3-172		I3		Deck	Norma L		1905 Blackjack Cv			Round Rock	TX	78681-2141	R015918
I3-173	1535	I3		Osteen	Steven Kyle & Amy P		1904 Chaparral Dr			Round Rock	TX	78681-2142	R084425
I3-174		I3		Brown	Joseph C & Sara		1907 Blackjack Cv			Round Rock	TX	78681	R014989
I3-175	1534	I3		Metzger	Eric & Arlyne		1906 Chaparral Dr			Round Rock	TX	78681	R084435
I3-176		I3		Bombela	Denise & Chris		1909 Blackjack Cv			Round Rock	TX	78681-2141	R014514
I3-177		I3		Hernandez	Cody J & Natasha M Shuford		1911 Blackjack Cv			Round Rock	TX	78681-2141	R013647
I3-178	1532	I3		Philen	James Phillip & Lois Jean		1908 Chaparral Dr			Round Rock	TX	78681-2142	R084444
I3-179	1530	I3		Turner	Stewart E & Robin L		1910 Chaparral Dr			Round Rock	TX	78681	R084446
I3-180	1528	I3		Steier	Victor & Roxanne Wellman Steier		2000 Chaparral Dr			Round Rock	TX	78681	R084457
I3-181		I3		Schaefer	Joseph E & Gisele Rene		2003 Woods Cv			Round Rock	TX	78681-2158	R003185
I3-182	1526	I3		Trevino	Jesus & Teresa R	Jr	2002 Chaparral Dr			Round Rock	TX	78681-2145	R084468
I3-183		I3		Tran	Anh		2602 Covington Pl			Round Rock	TX	78681-2285	R003183
I3-184	1524	I3		Gonzalez	Andres H & Annette M		2004 Chaparral Dr			Round Rock	TX	78681	R084473
I3-185		I3		Adams	Todd M & Christine M		2007 Woods Cv			Round Rock	TX	78681	R003179
I3-186	1522	I3		Hollister	James K & Valarie H		2006 Chaparral Dr			Round Rock	TX	78681-2145	R084475
I3-187		I3		Meono	Cesar A & Beatriz S		2009 Woods Cv			Round Rock	TX	78681-2158	R003177
I3-188	1520	I3		Trimble	William Arthur		2008 Chaparral Dr			Round Rock	TX	78681-2145	R084477
I3-189	1517	I3		Dumas	Francois N & Lori M		1603 Woods Blvd			Round Rock	TX	78681-2153	R003077
I3-190	1518	I3		Morales	Bertha		3344 Cortes Pl			Round Rock	TX	78665-5665	R084484
I3-191	1533	I3		Chappell	Michael L & Mary C		1905 Chaparral Dr			Round Rock	TX	78681-2143	R084295
I3-192	1554	I3		Roberson	William Louis		1900 Chestnut Cir			Round Rock	TX	78681	R084296
I3-193	1551	I3		Hairston	Terrie Lynn & Earl Maurice Hairston		1902 Chestnut Cir			Round Rock	TX	78681-2148	R084304
I3-194	1550	I3		Danna	Thomas & Dena S		1904 Chestnut Cir			Round Rock	TX	78681-2148	R084310
I3-195	1548	I3		Mercer	Jason & Myashia Mercer		1906 Chestnut Cir			Round Rock	TX	78681	R084313
I3-196	1547	I3		Wilson	Justin E & Jennifer E Bannish		2000 Chestnut Cir			Round Rock	TX	78681	R084315
I3-197	1553	I3		Freeman	Joseph P & Linda A		1604 Blackjack Dr			Round Rock	TX	78681-2139	R084346
I3-198	1552	I3		Rabe	Keri M & Timothy M		1602 Blackjack Dr			Round Rock	TX	78681	R084357
I3-199		I3		Johnson	Jerald Curtis & Tracie Majors Johnson		1600 Blackjack Dr			Round Rock	TX	78681-2139	R084364
I3-200	1549	I3		Cook	Brian A & Malinda J		1903 Chestnut Cir			Round Rock	TX	78681-2148	R084337

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
I3-201		I3		Peeples	William D		2832 Chatelle Dr			Round Rock	TX	78681-2237	R084331
I3-202		I3		Fonlupt	Angelique Gimenez & Thomas		2001 Chestnut Cir			Round Rock	TX	78681	R084325
I3-203	1545	I3		Guzy	Douglas & Lynn A		2003 Chestnut Cir			Round Rock	TX	78681-2149	R084322
I3-204	1546	I3		Pittenger	David F & Pamela J		2002 Chestnut Cir			Round Rock	TX	78681-2149	R084316
I3-206	1531	I3		Myrick	Walter Asbarry		1907 Chaparral Dr			Round Rock	TX	78681	R084292
I3-207	1529	I3		Carrell	Ryan P & Cheryl L		2001 Chaparral Dr			Round Rock	TX	78681-2144	R084287
I3-208	1527	I3		Horowitz	Michael E & Rebecca D		2003 Chaparral Dr			Round Rock	TX	78681-2144	R084275
I3-209	1525	I3		Marrone	James I & Kareen D		2005 Chaparral Dr			Round Rock	TX	78681	R084268
I3-210	1523	I3		Graff	Ernest W & Cheryl A		2007 Chaparral Dr			Round Rock	TX	78681-2144	R084265
I3-211	1521	I3		Seiter	Jan P		2009 Chaparral Dr			Round Rock	TX	78681-2144	R084256
I3-212	1519	I3		Madding	Justin C		2011 Chaparral Dr			Round Rock	TX	78681	R084255
I3-213	1516	I3		Harmel	Jim & Vanessa		2013 Chaparral Dr			Round Rock	TX	78681-2144	R084249
I3-214		I3		Wood Blvd	City of Round Rock		221 Main St			Round Rock	TX	78664	0
I3-215		I3		Seguin	Michael D & Kandy M		1602 Woods Blvd			Round Rock	TX	78681-2150	R044034
I3-216	1514	I3		Romero	Chara Green & Jorge		2100 Chaparral Dr			Round Rock	TX	78681	R043999
I3-217	1512	I3		Shackelford	Henry H Jr & Shirley F Allen		2102 Chaparral Dr			Round Rock	TX	78681	R044032
I3-218	1515	I3		Brandt	Bradley C & Sharon E		2101 Chaparral Dr			Round Rock	TX	78681-2147	R084243
I3-219	1513	I3		Yousefi	Fatemeh		2103 Chaparral Dr			Round Rock	TX	78681	R084241
I3-220	1511	I3		Risinger	William		1145 Hill County Road 1458			Itasca	TX	76055-5948	R084238
I3-222	1510	I3		Shipman	Christine Ann & Charles Eugene Ii		2016 Oak Pl			Round Rock	TX	78681-2185	R361128
I3-223	1509	I3		Kaiser	Colton J & Kelly J		2014 Oak Pl			Round Rock	TX	78681	R361127
I3-224		I3		Erickson	Donald W & Teresa A		2012 Oak Pl			Round Rock	TX	78681-2185	R361126
I3-227	1508	I3		Schneider	Geraldine		1206 Chinquapin Ct			Round Rock	TX	78681	R361111
I3-228		I3		Euhus	Cory		1207 Chinquapin Ct			Round Rock	TX	78681	R361112
I3-229	1507	I3		Seevers	Andy Ray & Karen D		1204 Chinquapin Ct			Round Rock	TX	78681	R361110
I3-230	1506	I3		Duran	Jonathan & Angela		1202 Chinquapin Ct			Round Rock	TX	78681	R361109
I3-231	1505	I3		Seaborn	Julie Anne		1200 Chinquapin Ct			Round Rock	TX	78681-2178	R361108
I3-234; I3-245		G3; H3; I3			Oak Hollow Inc		PO Box 163265			Austin	TX	78716-3265	R360712; R361107
I3-235	1502	I3		Floyd	Phillip	Jr	1902 Oak Hollow Dr			Round Rock	TX	78681	R361055
I3-236	1503	I3		Smith	George S & Linda		1904 Oak Hollow Dr			Round Rock	TX	78681-2180	R361056
I3-237	1504	I3		Garcia	Dominique		1906 Oak Hollow Dr			Round Rock	TX	78681-2180	R361057
I3-238		I3		Gutierrez	Ricardo & Mayda		1908 Oak Hollow Dr			Round Rock	TX	78681	R361058
I3-239	1500	G3; H3; I3		Obrien	Alan D & Brenda		1260 Lacey Oak Loop			Round Rock	TX	78681-2179	R361069
I3-240	1501	I3		Olvera	Ricardo & Blanca		1258 Lacey Oak Loop			Round Rock	TX	78681-2179	R361068
I3-241		I3		Nixon	Margaret Yvonne		1256 Lacey Oak Loop			Round Rock	TX	78681-2179	R361067
I3-242	1499	G3; H3; I3		Walker	David P & Eileen F		1259 Lacey Oak Loop			Round Rock	TX	78681-2179	R361070
I3-243	1498	G3; H3; I3		Abbenante	Steven David		1257 Lacey Oak Loop			Round Rock	TX	78681	R361071
I3-244	1497	G3; H3; I3		Abbaticchio	Michael & Janice		1255 Lacey Oak Loop			Round Rock	TX	78681	R361072
I5-001		I5; J5; K5		Laubach W W Trust			8400 Shenandoah Dr			Austin	TX	78753-5741	R092297
I5-002		I5		Hughes Lera B Estate			PO Box 5838			Austin	TX	78763-5838	R039319
I5-002		I5	Ms.	Rost	Ellen Courtney		8404 Emerald Hill Dr			Austin	TX	78759	R039319
I5-002		I5	Mr.	Shia	George J		Co-Trustee of the Lera Brock Hughes Trust No 2	3345 Bee Caves RD	STE 104	Austin	TX	78746-5463	R039319
I5-002		I5	Mr.	Troutman	Forrest N		Co-Trustee of the Lera Brock Hughes Trust No 2	3345 Bee Caves RD	STE 104	Austin	TX	78746-5463	R039319
I5-003		I5		Boyd	Donnie & Kendall		100 Tanza Ct			Georgetown	TX	78628	R098353
I5-004	1249	I5		Kallus	Anthony H & Joyce Faye Reed-Kallus		102 Tanza Ct			Georgetown	TX	78628-8813	R098352
I5-005	1248	I5		Askeaton Realty Llc	104 Tanza Court Series		PO Box 591106			San Antonio	TX	78259-0105	R098351
I5-006	1247	I5	Mrs.	Price	Lai-Sin Chung		35 Perry ST			Lambertville	NJ	08530-1641	R098349
I5-006	1247	I5		Price C W Et Ux			35 Perry St			Lambertville	NJ	08530-1641	R098349
I5-007	1246	I5		Barrett	Archie Don Jr & Holly H		112 Westbury Ln			Georgetown	TX	78633-4453	R098348
I5-008		I5		Torrez	Linda K & Gilbert R		2551 Gato Del Sol			San Antonio	TX	78245	R098339
I5-009		I5		Johnson	Mitchell & Sherry		513 Debora Dr			Georgetown	TX	78628-8838	R098340
I5-010	1245	I5		Herrera	Oscar Jr & Eliamar		517 Tamara Dr			Georgetown	TX	78628	R098347
I5-011	1244	I5		Donald G and Caren J PaulL, Co-Trustees of the Donald & Caren Paull Living Trust dated May 12, 2009			C/O Mr and Mrs Donald & Caren Paull	620 Susana Dr		Georgetown	TX	78628-8818	R098423
I5-011	1244	I5	Mr. & Mrs.	Paull	Donald & Caren		620 Susana Dr			Georgetown	TX	78628-8818	R098423
I5-011	1244	I5		Paull Donald & Caren (Le) & As Co-Tr Of Donald & Caren Paull Living Trust			520 Susana Dr			Georgetown	TX	78628-8818	R098423

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
I5-012	1243	I5		Koym	Patricia J		518 Susana Dr			Georgetown	TX	78628-8818	R098424
I5-013	1242	I5		Fagan	Matthew J & Karen M		516 Susana Dr			Georgetown	TX	78628-8818	R098425
I5-014	1241	I5		Walters	Allison R		514 Susana Dr			Georgetown	TX	78628	R098426
I5-015	1240	I5		Hand	David A & Marie A		105 Linda Ct			Georgetown	TX	78628	R098427
I5-016	1239	I5		Durell	David J & Emily R		104 Linda Ct			Georgetown	TX	78628	R098428
I5-017	1238	I5		Hansen	Steven A & Beverly J		103 Linda Ct			Georgetown	TX	78628	R098429
I5-018		I5		Field	Lauren & Bryan J		101 Linda Ct			Georgetown	TX	78628	R098430
I5-019		I5		Mclaughlin	Michael & Christa		519 Susana Dr			Georgetown	TX	78628-8817	R098326
I5-020		I5		Milot	Paul J & Anne-Marie		517 Susana Dr			Georgetown	TX	78628-8817	R098327
I5-021		I5		Boyd	Margie M		515 Susana Dr			Georgetown	TX	78628-8817	R098328
I5-022		I5		Georgetown Isd			603 Lakeway Dr			Georgetown	TX	78628-2843	R040921
I5-023				Smith	Melba E		104 S Ridge Ct			Georgetown	TX	78628-8226	R049815
I5-024				Dalrymple	James	Living Trust	102 S Ridge Ct			Georgetown	TX	78628-8226	R049817
I5-025		I5		Erickson	Robert W & Francine L		100 S Ridge Cir			Georgetown	TX	78628-8220	R049830
I5-026		I5		De La Vega	Melissa & Richard		101 South Ridge Cir			Georgetown	TX	78628-8223	R049738
I5-027	1237	I5		Jhenis 1910 Llc			1918 Leander Rd			Georgetown	TX	78628-8835	R317649
I5-028		I5		Gte Telephone Operations			Attn: Verizon Southwest	PO Box 152206		Irving	TX	75015-2206	R317650
I5-029		I5		Burkhart	Brian Keith		415 South Ridge Cir			Georgetown	TX	78628	R049753
I5-030		I5		Hertel	Gary & Cecilia		417 S Ridge Cir			Georgetown	TX	78628-8216	R049754
I5-031	1236	I5		Enis	James		431 Patricia Rd			Georgetown	TX	78628	R049736
I5-032		I5		Dupond	Javier & M Patricia Nava-Dupond		119 Red Oak Ct			Georgetown	TX	78628-8247	R351726
I5-033	1235	I5		Kelly	Jacqueline L & Kerry E		117 Red Oak Ct			Georgetown	TX	78628-8247	R351725
I5-034	1234	I5		Craft	Ronald C & Elsi R		115 Red Oak Ct			Georgetown	TX	78628-8247	R351724
I5-035	1233	I5		Colletti Dennis P Trustee Of The Dennis P & Janene C Colletti Living Trust			113 Red Oak Ct			Georgetown	TX	78628	R351723
I5-036	1232	I5		Vidales	Jose Luis & Lidia		21851 Eccles St			Canoga Park	CA	91304-2505	R351722
I5-037	1231	I5		Kimber	Walter L & Gayle A		109 Red Oak Ct			Georgetown	TX	78628-8247	R351721
I5-038	1230	I5		Herrera	Allison Marie & Albert Iii		107 Red Oak Ct			Georgetown	TX	78628	R351720
I5-039; S-023; S-024		I5; S		City Of Georgetown			PO Box 409			Georgetown	TX	78627-0409	R054284; R477340; R481485
I5-040		I5		Parish	Kevin E & Lindsay R Whittington		105 Oakmont Ct			Georgetown	TX	78628	R304048
I5-041	1229	I5		Thomas Fred & Charlotte B			103 Oakmont Ct			Georgetown	TX	78628-8208	R304047
I5-042		I5		Bargainer	Timothy A & Annette L		101 Oakmont Ct			Georgetown	TX	78628	R304011
I5-043		I5		Stull	Wilma		103 Riverview Dr			Georgetown	TX	78628	R304124
I5-044		I5		Texas Parks Recreation Foundation Georgetown			PO Box 409			Georgetown	TX	78627-0409	R304123
I5-046		A1; I5; J5		Lamy 2243 Ltd			1717 W Sixth St	Ste 390		Austin	TX	78703	R500156
J-002	16	E; J; K		Droptini J W & Jan			2999 Hero Way			Leander	TX	78641-1628	R031285
J1-001; J1-002; S-033		A5; I1; J1; L4; M4; N4; O4; P4; Q; Q4; R; R4; S; T; U; V; V4; W4; X; X4; Y; Y4; Z4		Csm-Mason Family Lp			7515 Stone Cliff Cir			Austin	TX	78731	R032112; R032113; R032121
J3-001		J3; K3; M2		Cedar Park Automotive Ltd			3909 E Central Texas Expy			Killeen	TX	76543	R475129
J3-002	228; 229	J3; K3; M2		Amaral Julia R Trustee Of Julia R Amaral Trust			PO Box 1450			Nevada City	CA	95959	R475128
J3-003	227	J3		Bfpc-Austin Llc			PO Box 38299			Dallas	TX	75238-0299	R475127
J3-004; J3-005		J3		Sealy Whitestone Llc			333 Texas St	Ste 1450		Shreveport	LA	71101	R314530; R318983
J3-006; N3-243; N3-251; N3-278; N3-282; N3-284; N3-287		J3; N3		Cedar Park City Of			450 Cypress Creek	Bldg 1		Cedar Park	TX	78613	R431102; R442403; R451404; R457447; R461659; R461675; R472292
J3-007		J3	Ms.	Chernosky	Patricia Ann		1626 15TH ST			Hempstead	TX	77445-5863	R314532
J3-007		J3	Ms.	King	Janice Annette		C/O Patricia Ann Chernosky	1626 15TH ST		Hempstead	TX	77445-5863	R314532
J3-007		J3	Mr.	Moore	Bobby Lee		C/O Patricia Ann Chernosky	1626 15TH ST		Hempstead	TX	77445-5863	R314532
J3-007		J3	Mr.	Moore	Doyle Randic		C/O Patricia Ann Chernosky	1626 15TH ST		Hempstead	TX	77445-5863	R314532
J3-007		J3		Moore Doyle Randic Etal			C/O Patricia Ann Chernosky	1626 15Th St		Hempstead	TX	77445-5863	R314532
J3-008	217	J3		800 Gsw Parkway Llc			407 Ethridge			Austin	TX	78703	R327478

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
J3-009	215; 216; 218; 219; 220	J3		Whitestone Parmer Development Llc			9111 Jollyville Rd	Ste 111		Austin	TX	78759	R536955
J3-010	214	J3		Rve Partners Ltd			3322 Longmire Dr	Ste 300		College Station	TX	77845	R442401
J3-011		J3		Randolph-Brooks Federal Credit Union			1 Randolph Brooks Pkwy			Live Oak	TX	78233-2416	R517844
J3-012		J3; K2		Honeycomb Enterprises Llc			501 Honeycomb Rdg			Austin	TX	78746-5326	R505953
J3-013	213	J3		University Federal Credit Union			PO Box 9350			Austin	TX	78766-9350	R442400
J3-014	212	J3; K2; N3		Oxhart Ltd			1917 Arroya Rd			Dalhart	TX	79022	R442399
K-001		K; L4; S4		Ssa Investments Llc			401 Cisco Cv			Cedar Park	TX	78613	R540070
K-002; K-003; K-004; K-005		K; L4; S4		Greene	Shari Carmody		17601 Ronald W Reagan Blvd			Leander	TX	78641	R031758; R097980; R098017; R473770
K-006		K		Singleton	David Allen		PO Box 984			Leander	TX	78646-0984	R432300
K-009; K-010	24	K		Price	David Lee & Joanna		3556 Hero Way			Leander	TX	78641-1691	R098025; R338363
K-011		K		Bradley	Jack Scott & Amy L& Brian Gregory Holmes		3486 Hero Way			Leander	TX	78641	R405780
K-012	21; 22	K		Presler Larry D & Helen L Tr Of The Presler Family Trust			PO Box 175			Leander	TX	78646-0175	R031352
K-013		K		Olson	Brian & Charity M		Gregory & Hattie E Olson	PO Box 2665		Cedar Park	TX	78630-2665	R418533
K-014		K		Hoskins	Charles G & Patricia C		3350 Hero Way			Leander	TX	78641-1632	R031619
K-015		K		Hoskins	Charles Todd & Terry Lynn		3304 Hero Way			Leander	TX	78641-1632	R449650
K-016; K-017; K-018		K		Miller	Larry G & Leslie M		3250 Hero Way			Leander	TX	78641-1631	R508113; R508114; R508115
K-021		K		Carter	Stella		PO Box 958			Cedar Park	TX	78630-0958	R508111
K1-001		B5; C5; D6; K1		Kane	Richard		109 Valley View Dr			Leander	TX	78641	R038335
K1-002		B5; C5; D6; K1		Demarco	Jeffrey & Sandra H		107 Valley View Dr E			Leander	TX	78641-9291	R038334
K1-003	99	B5; C5; D6; K1; X4; Y4; Z4		Pope	David N & Anne L		349 County Road 177			Leander	TX	78641	R424898
K1-004		K1		Mackinlay	Brian & Mark Webb		105 E Valley View Dr			Leander	TX	78641	R038332
K1-005		K1		Prewitt	Edwin A	Jr	C/O Jeanne Prewitt May	5302 N Scout Island Cir		Austin	TX	78731-3352	R038333
K1-006		K1		Lagmanson	Markus M		101 E Valley View Dr			Leander	TX	78641	R038331
K1-007; K1-010		H1; I1; K1; V4; W4; X4		Thomas	Roger Gerald & Dianne		480 County Road 177			Leander	TX	78641-2532	R031564; R032131
K2-001; K2-002; K2-009		J3; K2; N3		Faro Llc			PO Box 2494			Midland	TX	79702	R357656; R425496; R519095
K2-003; K2-004; K2-005		K2		7-Eleven Inc			1722 Routh St	Ste 1000		Dallas	TX	75201-2506	R502515; R502516; R505326
K2-006		K2		3Dc Ronald Reagan Blvd Llc			6801 River Rd	108		Columbus	GA	31904	R521248
K2-007				Pisces Foods Lp			1504 W 6Th St			Austin	TX	78703-5134	R439077
K2-008		K2		Walmart Real Estate Business Trust			2001 Se 10Th St			Bentonville	AR	72716-0550	R521246
K2-010; K2-011		K2		Krienke	Theophil Jr & Sharon R		PO Box 306			Round Rock	TX	78680-0306	R418509; R519111
K2-012; K2-013		B2; E2; K2		Krienke	T R		PO Box 306			Round Rock	TX	78680-0306	R031469; R031470
K2-014		K2		Westbank Development Llc			4200 Waters Edge Cv			Austin	TX	78731-5139	R538910
K2-015		K2		Spanish Creek Development Inc			4801 Mondonedo Cv			Austin	TX	78738	R537944
K2-016; K2-017; K2-018				Lansford Daniel C & Ralph E Lansford & Lansford Family Lp			100 Old East County Road 180			Leander	TX	78641	R031404; R327159; R435546
K3-001; K3-003; L3-016		J3; K3; L3; M2; O2; P2; R2		Cedar Park Land Lp			13492 N Highway 183	120-236		Austin	TX	78750-2252	R050817; R102399; R327186
K3-002		J3; K3; M2		Cleo Bay Imports Ltd			3907 E Cen-Tex Expy			Killeen	TX	76543	R315794
K4-001; K4-002; K4-003	240; 242	I2; J2; K4; Q2; T2		Davis	Judith L		463 Chimney Cove Dr			Marble Falls	TN	78654-3339	R031497; R031501; R524515
K4-004	239	D2; K4		Romp N Run Ranch Real Estate Holdings Llc			3700 Cr 175			Leander	TX	78641	R031500
K4-005				Eckart	Steve		PO Box 170309			Austin	TX	78717	R037956
K4-006				Shepherd	Stephen C & Sonja D		6310 Acacia Dr			Leander	TX	78641	R037957
K5-008		K5		Lcra Transmission Serv Corp			C/O Lcra	3700 Lake Austin Blvd		Austin	TX	78703-3504	R344253
L-007		L		Sommerfeld	John David & Tyla Fay		101 Windemere W			Leander	TX	78641-1625	R037149
L-008		L		Harbison	Jack W Jr & Betty A		PO Box 747			Mercedes	TX	78670	R037151
L-009	35	L		Mahendru	Devidass		9708 Oxaus Ln			Austin	TX	78759	R031397
L-011		L	Ms.	Keithley	Evelyn		2500 CR 258			Liberty Hill	TX	78642	N/A
L-011		L	Ms.	McKelvey	Susan Presley		3530 Four Trees Dr			Weatherford	TX	76087-2209	N/A
L-011		L	Mr.	Presley	Ken		C/O Susan Presley McKelvey	3530 Four Trees Dr		Weatherford	TX	76087-2209	N/A
L-011		L	Ms.	Wiley	Hazel L		1105 Madrone Trail			Leander	TX	78641	N/A
L-012		L		Hupman	Elizabeth A		123 Windemere W			Leander	TX	78641	R037152
L-013		L		Johannessen	Frederik O J & Tammy R		127 Windemere W			Leander	TX	78641-1625	R037153

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
L-014		L		Swindall	Jeffrey M		133 W Windemere			Leander	TX	78641	R037154
L-017		L		Moore	Mark Andrew		819 Rystrom Run			Chesapeake	VA	23320-3583	R473644
L-018		L		Allen	William Edward		143 N Windemere			Leander	TX	78641	R096154
L-019		L		City Of Leander			C/O Gerald Agiewich	109 Randolph		Georgetown	TX	78646	R091801
L-020		L		Covert Paul Blanton (Rs) & Cynthia Shadd Covert (Rs)			PO Box 1449			Leander	TX	78646-1449	R037156
L-021; L-023		L		Nk Land Investments Llc			PO Box 572			Burnet	TX	78611-0572	R031304; R433132
L-024		L		Hill Country Fellowship			8754 Ranch Road 2243			Leander	TX	78641-1623	R433129
L1-001; O1-020; Q1-001; W5-030		A5; B5; E6; L1; M1; N1; O1; P1; Q1; S1; T1; W5		Simpson	Peggy Borho		2855 County Road 175			Leander	TX	78641-1654	R031570; R338810; R338811; R525814
L1-002; L1-003; P1-001; P1-022; T1-001; T1-002; T1-008; T1-012; T1-016		L1; N1; P1; Q1; T1		Trails At Shady Oak Residential Community			8920 Business Park Dr	Ste 350		Austin	TX	78759	R526456; R526465; R526466; R526467; R532209; R532256; R532283; R532305; R532306
L1-004				Edhara	Satish Chandra & Pushyami Garimidi		2213 Blended Tree Ranch Dr			Leander	TX	78641	R526468
L1-005				Katapally	Praveen		2209 Blended Tree Ranch Dr			Leander	TX	78641	R526469
L1-006				Dufeau	Henry A & Elena Rea		2205 Blended Tree Ranch Dr			Leander	TX	78641	R526470
L1-008				Golden	Leroy D II & Jennifer		4121 Trinity Woods St			Leander	TX	78641	R526472
L1-009; L1-012		L1		Parkside At Mayfield Ranch Mud			C/O Sue Brooks Littlefield	100 Congress Ave Ste 1300		Austin	TX	78701-2744	R489465; R493082
L1-010				Maixner	Mike A & Anna		109 Admiral Nimitz Ct			Georgetown	TX	78628	R489473
L1-011		A5; B5; L1		Parkside At Mayfield Ranch Ltd			1011 N Lamar Blvd			Austin	TX	78703-4991	R494159
L1-013				Parkside At Mayfield Ranch Master Community Inc			PO Box 342585			Austin	TX	78734	R493081
L1-014				Latouf	Shane T & Patricia A		141 Fort Mabry Loop			Georgetown	TX	78628-7199	R493035
L1-015				Walters	Nicole		145 Fort Mabry Loop			Georgetown	TX	78628	R493036
L1-016				Dunlap	Mark & Jennifer		149 Fort Mabry Loop			Georgetown	TX	78628	R493037
L1-017				Hudson	Jason & Stacy		153 Fort Mabry Loop			Georgetown	TX	78628	R493038
L2-001	210	J3; K3; L2; M2		Sj & A Llc			Attn: Premier Animal Hospital	3651 E Whitestone Blvd		Cedar Park	TX	78613-6923	R456804
L2-002	209	J3; K3; L2; M2		3621 Whitestone Blvd Llc			2055 Third Ave	Ste 200		San Diego	CA	92101	R456805
L2-003	207; 208	L2; M2		Toro Grande Business Condominiums			C/O Toro Grande Owners Association, Inc	300 Brushy Creek # 401		Cedar Park	TX	78613	R461211
L2-004	206	L2; M2		1200 Toro Grande Llc			1200 Toro Grande Blvd			Cedar Park	TX	78613	R456807
L2-005	205	L2		Toro Grande Futbol Llc			2708 S Lamar Blvd	Ste 200A		Austin	TX	78704	R456808
L2-006		L2		Rudd	Stacy L & B Hunter Shadburne		301 Brushy Creek	Ste 105		Cedar Park	TX	78613	R475171
L2-007	204	L2		Splash Swimming Partners Lp			1310 Toro Grande Blvd			Cedar Park	TX	78613	R475172
L2-008; L2-009	203	L2		Junior Volleyball Assoc Of Austin			425 Woodward St			Austin	TX	78704	R475173; R475174
L2-010	202	L2	Ms.	Moore	Billie Mae Ragan		C/O Dennis Moore	1600 Toro Grande Dr		Cedar Park	TX	78613-7581	R314541
L2-010	202	L2	Mr.	Moore	Dale		C/O Dennis Moore	1600 Toro Grande Dr		Cedar Park	TX	78613-7581	R314541
L2-010	202	L2	Mr.	Moore	Dennis		1600 Toro Grande DR			Cedar Park	TX	78613-7581	R314541
L2-010	202	L2	Ms.	Moore	Diana		C/O Dennis Moore	1600 Toro Grande Dr		Cedar Park	TX	78613-7581	R314541
L2-010	202	L2	Mr.	Moore	Steve		C/O Dennis Moore	1600 Toro Grande Dr		Cedar Park	TX	78613-7581	R314541
L2-010	202	L2		Moore Elroy Estate			C/O Dennis Moore	1600 Toro Grande Dr		Cedar Park	TX	78613-7581	R314541
L3-001	752	L3; M3; O3		Kuhlmann	Klaus		5301 Thousand Oaks Dr			Round Rock	TX	78681-1314	R037896
L3-002		L3; M3; O3		Mcbride	Daniel T & Darlene W		1601 Kramer Ln			Austin	TX	78758	R037897
L3-003	750	L3		Mckenzie	Mark S & Claudia D		PO Box 1503			Round Rock	TX	78680-1503	R037934
L3-004	749	L3		Semmelmann	Michael & Micah C		2403 Spanish Oak Trl			Round Rock	TX	78681	R037910
L3-005		L3		Rylander	Henry Grady	III	2500 Spanish Oak Trl			Round Rock	TX	78681-1313	R037933
L3-006	748	L3		Emmerich	David J		2402 Spanish Oak Trl			Round Rock	TX	78681-1311	R037911
L3-007		L3		Woodward	James M & Dena Ann		2400 Spanish Oak Trl			Round Rock	TX	78681	R037912
L3-008	744	L3		Dockeray	Jennifer A & Glenn E Muniz		119 Raley Rd			Cedar Park	TX	78613	R037981
L3-009	746	L3		Greenwood	Anne E & Bernard E Albright		125 Raley Rd			Cedar Park	TX	78613	R037982
L3-010	747	L3		Mixer	Robert A & Trisha Rene		127 Raley Rd			Cedar Park	TX	78613	R300064
L3-011		L3		Chantal	Matthew L & Geraldine A		129 Raley Rd			Cedar Park	TX	78613	R300070
L3-012		L3		Dial	Rodney B & Jennifer		110 Martins Cv			Cedar Park	TX	78613-7668	R488844
L3-013		L3		El-Abed	Khaldoun A B & Elizabeth		100 Martins Cv			Cedar Park	TX	78613	R488843
L3-014	745	L3		Klobe	Michael C & Stacy W		230 Raley Rd			Cedar Park	TX	78613-6911	R037990
L3-015	743	L3		Williams	Steve L & Carolyn G		220 Raley Rd			Cedar Park	TX	78613-6911	R080982
L3-017	742	L3		Hernandez	Florentino P		210 Raley Rd			Cedar Park	TX	78613-6911	R037992

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
L3-018		L3		Fu	Owen W		13012 Tilghman Trl			Austin	TX	78729-4635	R499142
L3-019		L3		Burns	Heather M & Eric W		108 Raley Rd			Cedar Park	TX	78613	R499144
L3-020		L3		Quezada	Ramon & Emma		1400 Lance Way			Austin	TX	78758-3730	R499145
L3-021; L3-022; L3-023		L3; R2		Galloway	G Katherine Mccann		4030 E Whitestone Blvd			Cedar Park	TX	78613-6913	R335726; R338738; R498355
L4-001				162 Parker Ranch Holdings Ltd			2622 Commerce St	Fl 2		Dallas	TX	75226-1402	R346187
L4-002				Highland Homes - Austin Ltd			5601 Democracy Dr Ste 300			Plano	TX	75024-3674	R529486
L4-003				Faulkner	Staley Jr & Monica M		305 Old Pecan Ln			Leander	TX	78641	R529485
L4-004				Jacobi	Matthew F & Michelle M		309 Old Pecan Ln			Leander	TX	78641	R529484
L4-005				M & R Lewis Land Holdings Inc			1801 Ocean Dr			Corpus Christi	TX	78404-1867	R333724
L4-006				Hansen	Allen P		355 County Road 264			Leander	TX	78641-1620	R032142
L4-007				Mcdonald	Karen		354 County Road 264			Leander	TX	78641-1620	R462724
L4-008		L4		Mcarthur	Jeanette		200 County Road 264			Leander	TX	78641-1620	R310659
L4-009	27	L4		Mize	Carol Stipanovic & Michael Robert Mize		121 Creekview Cir			Leander	TX	78641-1657	R334854
L4-010		L4		Harvey	Jay & Michelle		8924 Joachim Ln			Austin	TX	78717-5464	R334855
L4-012; L4-013; L4-014; L4-015		K; L4; S4		Moore	Jimmy & Elsa		9409 Mesa Verde Cir			Waco	TX	76712-6480	R334852; R334853; R473777; R473778
L4-016	25; 26	K; L4; S4		King	Franklin L & Barbara		17600 Ronald W Reagan Blvd			Leander	TX	78641-1671	R032144
L4-017		L4		Albrecht	William S & Paradee		17640 Ronald W Reagan Blvd			Leander	TX	78641	R032146
L5-001; L5-002		B2; L5; R1; U1; U1a		Bad Land Inc			1501 Cr 256			Liberty Hill	TX	78642	R514458; R514459
M1-002	119	M1; O1		Pilgrim	Clinton P & Laura Kathleen		3809 Carya Dr			Leander	TX	78641	R533385
M1-005		M1		Adusumalli	Hanumantharao & Naga C Jampani		3800 Carya Dr			Leander	TX	78641	R533389
M1-007		M1		Buddha	Naveen Kumar & Geetanjali Saragadam		3728 Carya Dr			Leander	TX	78641	R533388
M1-009		M1		Barnett	Charlotte Dugas & Richard A		3720 Carua Dr			Leander	TX	78641	R533387
M1-013		M1		Botla	Ganesh & Siva Lakshmi		3709 Carya Dr			Leander	TX	78641	R533377
M1-023		M1		Murki	Srikanth & Sabitha Komeravelli		2316 Millbrook Loop			Leander	TX	78641	R522845
M1-024	113	M1		Villarreal	Pedro E & Laura L		2317 Millbrook Loop			Leander	TX	78641	R522811
M1-025	112	M1		Dasi	Sreedhar & Soujanya Poola		2321 Millbrook Loop			Leander	TX	78641	R522812
M1-026	111	M1		Bicknese	Sue A & John E		2325 Millbrook Loop			Leander	TX	78641	R522813
M1-027	110	M1		Yenumula	Narendar Reddy & Hima B Poreddy		2329 Millbrook Loop			Leander	TX	78641	R522814
M1-028		M1		Lee	Pauline		2333 Millbrook Loop			Leander	TX	78641	R522815
M1-029	108	C5; D5; M1		Borho	Anna		3617 Journey Pkwy			Leander	TX	78641-2581	R031531
M2-001; M2-002; O2-002; O2-003	230; 231	G2; H2; I2; J3; K3; L2; L3; M2; N2; O2; P2; R2		Whitestone Boulevard Ltd			1408 Rivercliff Rd			Spicewood	TX	78669-2649	R314538; R314539; R314540; R347509
M3-001	751	L3; M3; O3		Cockle	John D & Seantel M		5410 Thousand Oaks Dr			Round Rock	TX	78681-1315	R037924
M3-002	741	M3		Kwalwasser	Amy & Chris Kjeldsen		5401 Sam Bass Rd			Round Rock	TX	78681-1319	R037925
M3-003	740	M3; S2; Y2		Pratt	Melinda		5411 Sam Bass Rd			Round Rock	TX	78681	R037926
M3-004; R2-009		M3; Q2; R2; S2; Y2		Urbanczyk	M A & Linda G	Jr	3001 Spanish Oak Trl			Round Rock	TX	78681-1322	R037927; R037938
M4-001	28; 42	L4; M4; N4; R4; S		Lewis Ronald G & Madeline K Trustees M & R Lewis Living Trust			1801 Ocean Dr			Corpus Christi	TX	78404-1867	R032147
N-004; N-005		M; N; P		Southwestern Bell Telephone Lp			Property Tax Department	909 Chestnut St Rm 36-M-01		St Louis	MO	63101-3002	R327126; R473808
N1-001	133	M1; N1; O1		Russell	Jane Simpson & John R Russell		2310 County Road 175			Leander	TX	78641-1658	R407805
N1-002		L1		Ledbetter	Paul G & Christy D		2300 County Road 175			Leander	TX	78641-1658	R407804
N3-001; N3-002	1023	A4; B4; B4a; N3; U3		Guenther	Karen Sparks		PO Box 1629			Estes Park	CO	80517-1629	R074879; R393204
N3-003; N3-006	1022	N3		Thomas	Joseph Alan & Julie Ann		3001 Fox Hollow St			Round Rock	TX	78681-1706	R074880; R393203
N3-004	1021	N3		Nicholes	Phillip B & Ja Nae		3003 Fox Hollow St			Round Rock	TX	78681-1706	R074881
N3-005; N3-007	1020	N3		Logozar	Michael		3005 Fox Hollow			Round Rock	TX	78681	R074882; R512195
N3-008; N3-009		N3		Liggett	Steven A & Kyle M		1804 Whip O Will St			Round Rock	TX	78681-1726	R074885; R329696
N3-010		N3		Brown	Rodney Allen & Lynn Ann		1803 Whip O Will St			Round Rock	TX	78681-1726	R074886
N3-011		N3		Tuxhorn	Douglas W & Kelly A		8707 Sea Ash Cir			Round Rock	TX	78681-3423	R379820

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Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
N3-012		N3		Molis	Rebecca H & Steven J		8629 Sea Ash Cir			Round Rock	TX	78681-3434	R390855
N3-013		N3		Johnson	Christopher D & Sheba M		8627 Sea Ash Cir			Round Rock	TX	78681	R390856
N3-014		N3		Kozak	Keith A & Tasha R		8625 Sea Ash Cir			Round Rock	TX	78681-3434	R390857
N3-015	1014	N3		Buscha	Robin J & Sherri L		8623 Sea Ash Cir			Round Rock	TX	78681-3434	R390858
N3-016	1013	N3		Carey	Robin Lynn		8621 Sea Ash Cir			Round Rock	TX	78681	R390859
N3-017	1012	N3		Harrelson-Attridge	Shaun		8619 Sea Ash Cir			Round Rock	TX	78681	R390860
N3-018	1011	N3		Boeser	Sandra M		8617 Sea Ash Cir			Round Rock	TX	78681	R390861
N3-019	1010	N3		Johnson	Gregory Scott & Mohra K		8615 Sea Ash Cir			Round Rock	TX	78681-3433	R390862
N3-020	1009	N3		Maus	Alvin C & Joan E		8613 Sea Ash Cir			Round Rock	TX	78681-3433	R390863
N3-021	1008	N3		Wood Mitchell J & Deanna L Wood Trustees Of Wood Living Trust			8611 Sea Ash Cir			Round Rock	TX	78681	R390864
N3-022	1007	N3		Sims	Robert C & Renate		8609 Sea Ash Cir			Round Rock	TX	78681-3433	R390865
N3-023	1006	N3		Campbell	Scott A & Pamela S		8607 Sea Ash Cir			Round Rock	TX	78681-3433	R390866
N3-024		N3		Penney	Steven H & Lesley C		8605 Sea Ash Cir			Round Rock	TX	78681-3432	R390867
N3-025		N3		Hosgood	Allison P & Derek S		8603 Sea Ash Cir			Round Rock	TX	78681	R390868
N3-026		N3		Despain	Keith & Sheri		1704 Fawn Cv			Round Rock	TX	78681	R074889
N3-028		N3		Merritt	David K & Amy W		1703 Fawn Cv			Round Rock	TX	78681	R074890
N3-029		N3		Kokel	James K Etux		1703 Deer Chase Cv			Round Rock	TX	78681-1754	R074907
N3-029		N3	Mrs.	Kokel	Wanda K		1703 Deer Chase Cove			Round Rock	TX	78681-1754	R074907
N3-030		N3		Casey	Randell M & Holly S		1700 Deer Chase Cv			Round Rock	TX	78681-1754	R074908
N3-031		N3		Helmcamp Dewey E Iii & Mary B Trustee Of The Helmcamp Living Trust			1701 Still Meadow Cv			Round Rock	TX	78681-1751	R074911
N3-032		N3		Sledge	Lisa C		1700 Still Meadow Cv			Austin	TX	78681	R074912
N3-033		N3		Ransom Julia Ann Tr Of Julia Ranson Living Trust			1705 Blue Heron Cv			Round Rock	TX	78681	R074915
N3-034; N3-035		N3		Ragula Vitaut M & Susan M Tr Of Ragula Living Trust			1701 Blue Heron Cv			Round Rock	TX	78681-1750	R074916; R074917
N3-036		N3		Peereboom	Marco & Clarissa		1709 Possum Trot St			Round Rock	TX	78681-1709	R074923
N3-037		N3		Weber	Theodore E & Frances		1701 Possum Trot St			Round Rock	TX	78681-1709	R074924
N3-038		N3		Jackson	Brian & Kristi		1700 Possum Trot			Round Rock	TX	78681	R074925
N3-039		N3		Harwell Herman R & Janet L Trs Of Harwell Living Trust			1704 Possum Trot			Round Rock	TX	78681-1709	R074926
N3-040		N3		Goode	Patrick & Alecia & Frances Ordoyne		3601 Oak Meadow Dr			Round Rock	TX	78681-2556	R055360
N3-041		N3		Cates	Brandon T & Christy N		3607 Oak Meadow Dr			Round Rock	TX	78681	R055356
N3-042		N3		Miller	Paul H & Carmen		3703 Oak Meadow Dr			Round Rock	TX	78681	R542837
N3-046		N3		Linton	Howard L & Susan R		7000 High Bluff Trl			Round Rock	TX	78681	R391250
N3-047	1005	N3		Banks	Kevin Lee		7002 High Bluff Trl			Round Rock	TX	78681-3465	R391251
N3-048	1004	N3		Motal	Travis & Anjelica		7004 High Bluff Trl			Round Rock	TX	78681-3465	R391252
N3-049	1003	N3		Waldecker	Brian E & Shiva E		7100 High Bluff Trl			Round Rock	TX	78681	R391253
N3-050	1002	N3		Buxton	Jeremy C		7102 High Bluff Trl			Round Rock	TX	78681	R391254
N3-051	1001	N3		Campbell	Emily		7104 High Bluff Trl			Round Rock	TX	78681-3469	R391255
N3-052	1000	N3		Thompson	Troy		9000 Sunburst Ter			Round Rock	TX	78681-3463	R391256
N3-053	999	N3		Pike	David Ronald & Karen Oline		9002 Sunburst Ter			Round Rock	TX	78681	R391257
N3-054	998	N3		Fluckiger	Stephen J & Sarah L		9004 Sunburst Ter			Round Rock	TX	78681	R391258
N3-055	996	N3		Soslow Richard A & Wanell C			9003 Sunburst Ter			Round Rock	TX	78681-3463	R391259
N3-056	997	N3		Bastis	David G & Celia R		9001 Sunburst Ter			Round Rock	TX	78681-3463	R391260
N3-057		N3		Gibson	Grant E & Laura E		7003 High Bluff Trl			Round Rock	TX	78681-3465	R391248
N3-058		N3		Ayers	Mark A & Connie D		7101 High Bluff Trl			Round Rock	TX	78681-3469	R391262
N3-059		N3		Penney	Charles E			7103 High Bluff Trl		Round Rock	TX	78681-3469	R391272
N3-059		N3		Vitale	Cathy J			7103 High Bluff Trl		Round Rock	TX	78681-3469	R391272
N3-060		N3		Swainston	Dawn Machelle & Clark A		7201 High Bluff Trl			Round Rock	TX	78681-3470	R391271
N3-061		N3		Zheng Linjin & Ying Chen			8337 Lofty Ln			Round Rock	TX	78681-3466	R391261
N3-062	995	N3		Greinert	Neil D Jr & Jennifer D		8335 Lofty Ln			Round Rock	TX	78681	R391278
N3-063	994	N3		Kamphuis	Kevin L & Sharon M		8333 Lofty Ln			Round Rock	TX	78681-3466	R391279
N3-064	993	N3		Eaton	Chris & Tonja		8331 Lofty Ln			Round Rock	TX	78681-3466	R391280
N3-065	992	N3		Gariazzo	Ricardo E & Geran And Joanna Gariazzo Chiu		8329 Lofty Ln			Round Rock	TX	78681-3466	R391281
N3-066	991	N3		Addy	Debaroti		8327 Lofty Ln			Round Rock	TX	78681-3466	R391282
N3-067	990	N3		Brooks	Lisa K		8325 Lofty Ln			Round Rock	TX	78681	R391283
N3-068	988	N3		Mohr	Steve & Lisa		8323 Lofty Ln			Round Rock	TX	78681-3466	R391284
N3-069	986	N3		Trevino	Rogelio & Nadia Gutierrez		8321 Lofty Ln			Round Rock	TX	78981	R391285
N3-070	984	N3		Clayton Paul H & Sharon P			8319 Lofty Ln			Round Rock	TX	78681-3466	R391286
N3-071	981	N3		Nash	Bodie		8317 Lofty Ln			Round Rock	TX	78681-3466	R391287
N3-072	980	N3		Macfarland	Martha T & Robert A		8315 Lofty Ln			Round Rock	TX	78681	R391288

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
N3-073	979	N3		Alexander	Jennifer M		8313 Lofty Ln			Round Rock	TX	78681-3478	R391289
N3-074	978	N3		Chiu Bertrand Be-Chung &			Joanna Gariazzo Chiu	8311 Lofty Ln		Round Rock	TX	78681-3478	R391290
N3-075	977	N3		Bugg	Jay & Cathy		8309 Lofty Ln			Round Rock	TX	78681-3478	R391291
N3-076	976	N3		Hansel	Kevin L & Tanya E		8307 Lofty Ln			Round Rock	TX	78681-3478	R391292
N3-077		N3		Condon	Michael E & Kelly D		8305 Lofty Ln			Round Rock	TX	78681-3478	R391293
N3-078		N3		Courter	Karen & Christopher Jandrain		8303 Lofty Ln			Round Rock	TX	78681	R391294
N3-079		N3		Margaret Christine Cantieri	Cantieri Michael Charles		Margaret Christine Cantieri	8326 Lofty Ln		Round Rock	TX	78681-3466	R391314
N3-080		N3		Obrien	Janice M & Robert M		8324 Lofty Ln			Round Rock	TX	78681-3466	R391315
N3-081		N3		Harvey	Glenn A & Maria L		8322 Lofty Ln			Round Rock	TX	78681-3466	R391316
N3-082	989	N3		Robinson	Clark Z & Jana F		8320 Lofty Ln			Round Rock	TX	78681	R391317
N3-083	987	N3		Lai	Guixian & Yanhong Zhang		9103 Westerkirk Dr			Austin	TX	78750	R391318
N3-084	985	N3		Hailey	Brooke		8316 Lofty Ln			Round Rock	TX	78681	R391319
N3-085	983	N3		Yuan	Jie		4525 Hallmark Dr			Plano	TX	75024	R391320
N3-086	982	N3		Kraus	George F Jr & Judith A		8312 Lofty Ln			Round Rock	TX	78681-3478	R391321
N3-087		N3		Moran	Bryan J & Sarah K		8310 Lofty Ln			Round Rock	TX	78681-3478	R391322
N3-088		N3		Moore	Kenneth J & Sheila R		8308 Lofty Ln			Round Rock	TX	78681-3478	R391323
N3-089		N3		Alexander	Karlen S & Danielle		7410 Two Jacks Trl			Round Rock	TX	78681-3484	R391300
N3-090		N3		Roiko	John C & Connie M		7412 Two Jacks Trl			Round Rock	TX	78681-3484	R391301
N3-091		N3		Houghton	Richard T & Denise		7414 Two Jacks Trl			Round Rock	TX	78681-3484	R391302
N3-092		N3		Hervas Nelia C & Eliseo Hervas Jr Trustees Of Neilia C Hervas Trust			7416 Two Jacks Trl			Round Rock	TX	78681-3485	R391303
N3-094		N3		Redding	Xuan L & Richard P		3813 Powder Horn Dr			Round Rock	TX	78681-2532	R059199
N3-095		N3		Carter	Nicholas A & Angel L Smith-Carter		1104 Stillhouse Springs			Round Rock	TX	78681	R059200
N3-096		N3		Bratt	Martha J S		208 Adelfa Dr			Round Rock	TX	78664-6294	R059266
N3-097	968	N3		Yoo	Jean H		216 Dulverton Cir			Folsom	CA	95630-6891	R059265
N3-098	970	N3		Bank of America, NA			C/O Angela Zavala McCarthy-Holthus-Texas, LLP	1255 West 15th Street, Suite 1060		Plano	TX	75075	R059264
N3-098	970	N3		Patterson	Scott L & Estate Of Clint Patterson		3801 Powderhorn Dr			Round Rock	TX	78681	R059264
N3-099	971	N3		Kwon	Timothy		3703 Powderhorn Dr			Round Rock	TX	78681	R059263
N3-100	974	N3		Miller	Paul M	II	3701 Powderhorn Dr			Round Rock	TX	78681-2531	R059262
N3-102	973	N3		Rolofson	Benjamin & Amber Marie		3702 Powderhorn Dr			Round Rock	TX	78681	R059260
N3-103	972	N3		Hill	Charles E		3800 Powderhorn Dr			Round Rock	TX	78681-2539	R059259
N3-104	969	N3		Duperier	Robert Judson		8801 Pepper Rock Dr			Austin	TX	78717-4837	R059258
N3-105	967	N3		Barger	James R & Mildred E		3804 Powderhorn Dr			Round Rock	TX	78681-2539	R059257
N3-106	966	N3		Sparck	Timothy David		3806 Powderhorn Dr			Round Rock	TX	78681	R059256
N3-107	965	N3		Wilson	Kevin		3808 Powderhorn Dr			Round Rock	TX	78681	R059255
N3-108	964	N3		Williams	Martha Joan		2004 Peninsula Dr			Flower Mound	TX	75022	R059254
N3-109	963	N3		Mahan	Robert J		3812 Powderhorn Dr			Round Rock	TX	78681-2533	R059253
N3-110	962	N3		Peterson	Mathew B & Jennifer B Hefner		3816 Powder Horn Dr			Round Rock	TX	78681	R059252
N3-111	961	N3		Nelson	Cynthia & Roberto Galvez		3900 Powderhorn Dr			Round Rock	TX	78681-2533	R059251
N3-112		N3		Parker	Karen Lea		400 W Main St	Ste 100		Round Rock	TX	78664-5809	R059250
N3-113		N3		Parker	Michael		3904 Powderhorn Dr			Round Rock	TX	78681-2533	R059249
N3-116		N3		Domeracki	Henry S & Diana L		17209 Chadwood Ct			Austin	TX	78717-2950	R342938
N3-117		N3		Williamson County Oak Brook Owners Assoc			C/O Goodwin Management, Inc	PO Box 203310		Austin	TX	78720-3310	R356582
N3-118		N3		Ward	Linton B & Michele	Jr	17212 Chadwood Ct			Austin	TX	78717-2950	R342937
N3-119		N3		Hartle	Christopher L & Patricia R		17012 Pagosa Springs Ct			Austin	TX	78717-2993	R404134
N3-121	957	N3		Aston	Charles G II & Nichole A		17019 Pagosa Springs Ct			Austin	TX	78717	R378584
N3-122		N3		Muennink	Andrew & Kristen		17073 Conway Springs Ct			Austin	TX	78717-2989	R378553
N3-124		N3		Warriner	Justin B Jr Darline H		3803 Oakridge Dr			Round Rock	TX	78681-2572	R063708
N3-125		N3		Nicholson	Misti		3805 Oakridge Dr			Round Rock	TX	78681	R063707
N3-126; N3-127; N3-128		N3		Tripp	Marjorie		3600 Oakridge Dr			Round Rock	TX	78681-2567	R063704; R063705; R063706
N3-129	960	N3		Tripp	Phillip Andrew		3907 Oakridge Dr			Round Rock	TX	78681-2574	R063703
N3-130; N3-131; N3-132		N3		Hidden Trails 2013 Lp			14000 Rr 2243 W			Leander	TX	78641	R528733; R528734; R528735
N3-133		N3		Duren	Ramona Sherie & Warren Duren		902 Brushy Bend Dr			Round Rock	TX	78681	R058939
N3-134		N3		Heeney	Timothy J		906 Brushy Bend Dr			Round Rock	TX	78681	R058940
N3-135		N3		Neiman	Loree H		PO Box 451			Round Rock	TX	78680-0451	R058941
N3-136		N3		Metzger	Jesse		912 Brushy Bend Dr			Round Rock	TX	78681	R058942
N3-137		N3		Hansen	Steven B & Bethanie		1000 Brushy Bend			Round Rock	TX	78681-1403	R058943

Leander-Round Rock 138-kV Transmission Line Project
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Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
N3-138		N3		Lynn Allan D & Geri			1004 Brushy Bend Dr			Round Rock	TX	78681-1403	R058944
N3-139		N3		Daniels	John L		1008 Brushy Bend Dr			Round Rock	TX	78681-1403	R058945
N3-140	958	N3		Garza	Karri Amber		1012 Brushy Bend Dr			Round Rock	TX	78681	R058946
N3-142		N3		Huemmer	Michael J & Maria M		1100 Brushy Bend Dr			Round Rock	TX	78681	R058947
N3-143		N3		Pond	Scott P & Kelly A		1104 Brushy Bend Dr			Round Rock	TX	78681	R058948
N3-144		N3		Tindel	Ken Todd & Shelley Jane		1108 Brushy Bend Dr			Round Rock	TX	78681	R058949
N3-145		N3		Walsh Brushy Creek Ranch Lp			4001 Brushy Creek Rd			Cedar Park	TX	78631	R055349
N3-146		N3		Walsh	Christopher Lynn		4001 Brushy Creek Rd			Cedar Park	TX	78613-4807	R055350
N3-148		N3		Mullins Family Partnership Ltd			PO Box 560248			Dallas	TX	75356-0248	R379650
N3-149	956	N3		Mican	Harold M & Lisa M		17069 Conway Springs Ct			Austin	TX	78717	R378552
N3-150	955	N3		Polito	Robert J & Tarja A		17065 Conway Springs Ct			Austin	TX	78717-2989	R378551
N3-151	954	N3		Morgan	Michael Wayne & Deborah Lynn		17061 Conway Springs Ct			Austin	TX	78717	R378550
N3-152		N3		Oneill	Bernard L & Gertrude A		PO Box 3398			Cedar Park	TX	78630-3398	R378549
N3-153	953	N3		Arnold	Terrance J & Nancy E		17053 Conway Springs Ct			Austin	TX	78717-2989	R378548
N3-154	952	N3		Haines	Nancy Powell		17049 Conway Springs Ct			Austin	TX	78717-2989	R378547
N3-155		N3		Matas	Fernando		17045 Conway Springs Ct			Austin	TX	78717	R378546
N3-156		N3		Hefner	Mark E & Stacey L		4318 Indian Oaks			Round Rock	TX	78681-1080	R378508
N3-157		N3		City Of Austin			Real Estate Div	PO Box 1088		Austin	TX	78767-1088	R474158
N3-162		N3		Champion Cemetery			C/O Texas Historical Commission	PO Box 12276		Austin	TX	78711-2276	R431160
N3-163; N3-164; N3-178; N3-189		N3		Walsh Trails Association Of Homeowners Inc			C/O Goodwin Management, Inc	PO Box 203310		Austin	TX	78720-3310	R484445; R484447; R484474; R484565
N3-165	946	N3		Briscoe	Bryan J & Carlen D		4500 Three Arrows Ct			Cedar Park	TX	78613-4838	R484444
N3-166	947	N3		Smith	Brian John & Amanda		4502 Three Arrows Ct			Cedar Park	TX	78613	R484443
N3-167	948	N3		Masood	Mujahid & Anjum Ghouse		4504 Three Arrows Ct			Cedar Park	TX	78613	R484442
N3-168	949	N3		Kumar	Santosh & Sandhya Rani		4506 Three Arrows Ct			Cedar Park	TX	78613	R484441
N3-169	950	N3		Warden	Robert		4508 Three Arrows Ct			Cedar Park	TX	78613-4838	R484440
N3-170	951	N3		Gomez	Constancio H & Karina A Partid		4510 Three Arrows Ct			Cedar Park	TX	78613-4838	R484439
N3-171		N3		Courtney	Morgan Hans & Nanette P		4512 Three Arrows Ct			Cedar Park	TX	78613	R484438
N3-172		N3		Rangineni	Krishna Kumar		1101 Walsh Hill Trl			Cedar Park	TX	78613	R484463
N3-173	945	N3		Mcgettrick	Raymond		1103 Walsh Hill Trl			Cedar Park	TX	78613	R484462
N3-174	943	N3		Koka	Pranay& Tejeswi Culli		1105 Walsh Hill Trl			Cedar Park	TX	78613	R484461
N3-175	939	N3		Chavez	Amelia M & Carlos Amado		1104 Williams Way			Cedar Park	TX	78613-4844	R484546
N3-176	940	N3		Baskerville	Debbie Ann James		1102 Williams Way			Cedar Park	TX	78613	R484545
N3-177		N3		Chandra	Johan & Su Hauw		1100 Williams Way			Cedar Park	TX	78613	R484544
N3-179	944	N3		Pham	Khanhhung Hoang & Thanh Tram Ngo		4410 Spanish Gold Ln			Cedar Park	TX	78613	R484472
N3-180	942	N3		Chou	Seurhong & Kelly Chance Todd		4408 Spanish Gold Ln			Cedar Park	TX	78613	R484473
N3-181	941	N3		Vaughan	Mark Thomas & Gloria J Loredo		4406 Spanish Gold Ln			Cedar Park	TX	78613	R484547
N3-182	938	N3		Pham Mai Nguyen & Kim-Loan Thi Nguyen			4404 Spanish Gold Ln			Cedar Park	TX	78613	R484548
N3-183	937	N3		Tucker	Bronson Tyler		11010 Domain Dr	11317		Austin	TX	78758	R484549
N3-184	934	N3		Kuykendall	Sarita		4400 Spanish Gold Ln			Cedar Park	TX	78613	R484550
N3-185	933	N3		Medina	Juan Manuel & Ana M Forero		1109 Williams Way			Cedar Park	TX	78613	R484551
N3-186	935	N3		Arefin	S M & Sobhani Hafiz		1107 Williams Way			Cedar Park	TX	78613	R484552
N3-187	936	N3		Raja	Asad		11400 Domain Dr	5215		Austin	TX	78758-7739	R484553
N3-188		N3		Sah	Sachin & Swapna		1103 Williams Way			Cedar Park	TX	78613	R484554
N3-191	932	N3		Mcgahan	Robert & Marilyn		3951 Brushy Creek Rd			Cedar Park	TX	78613	R345077
N3-209	928	N3		Pingali	Subramanya Ravi Kiran & Devi Mantha		707 Dry Gulch Bnd			Cedar Park	TX	78613	R532981
N3-210	927	N3		Lakshmanan	Anand & Srivaramangai Rajagopalan		705 Dry Gulch Bnd			Cedar Park	TX	78613	R532980
N3-217; N3-218; N3-219; N3-220; N3-221; N3-223; N3-224; N3-225; N3-226; N3-227		N3		Great Oaks Development Llc			9111 Jollyville Road Suite 111			Austin	TX	78759	R540764; R540765; R540766; R540767; R540768; R540795; R540796; R540797; R540798; R540799

Leander-Round Rock 138-kV Transmission Line Project
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Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
N3-222		N3		Pedestrian Easement	Great Oaks Development LLC		9111 Jollyville Road Suite 111			Austin	TX	78759	0
N3-228		N3		Munson	Cathy Sue		6101 Gena Ct			Austin	TX	78757	R540809
N3-228		N3	Ms.	Munson	Cathy Sue		6101 Gena Ct			Austin	TX	78757	R540809
N3-230; N3-231		N3		Silverado Austin Development Ltd			2622 Commerce St			Dallas	TX	75226-1402	R341587; R529918
N3-232; N3-233; N3-234		N3		Wilson	Will	Sr	1627 Westlake Dr			Austin	TX	78746-3726	R031998; R031999; R329984
N3-235		N3		Henry	Betty B		3801 Brushy Creek Rd			Cedar Park	TX	78613-4803	R032009
N3-236; N3-239; N3-242		N3		Ranch At Brushy Creek Homeowners Association Inc			C/O Goodwin Management, Inc	PO Box 203310		Austin	TX	78720-3310	R476887; R476888; R476940
N3-237	924	N3		Busse	Sean B		818 Arrowhead Trl			Cedar Park	TX	78613	R476939
N3-238	923	N3		Craig	Stephen L & Nora L		816 Arrowhead Trl			Cedar Park	TX	78613	R476938
N3-240	922	N3		Menchaca	Hector & Erica		815 Arrowhead Trl			Cedar Park	TX	78613	R476886
N3-241		N3		Mago	Arun & Shefali		813 Arrowhead Trl			Cedar Park	TX	78613	R476885
N3-244		N3		Loranger	Michael & Leigha		601 Fallen Oaks Dr			Cedar Park	TX	78613-7490	R476876
N3-245		N3		Straub	Patrick M & Kristie M Geno		525 Fallen Oaks Dr			Cedar Park	TX	78613-7489	R476875
N3-246		N3		Wall	Richard		523 Fallen Oaks Dr			Cedar Park	TX	78613	R476874
N3-247		N3		Burk	Michael A & Elizabeth A		521 Fallen Oaks Dr			Cedar Park	TX	78613	R476873
N3-248	921	N3		Cedar Park Church Of Christ			PO Box 864			Cedar Park	TX	78630-0864	R392339
N3-249	869; 870; 871; 872; 873; 874; 875; 876; 877; 878; 879; 880; 881; 882; 883; 884; 885; 886; 887; 888; 889; 890; 891; 892; 893; 894; 895; 896; 897; 898; 899; 900; 901; 902; 903; 904; 905; 906; 907; 908; 909; 910; 911; 912; 913; 914; 915; 916; 917; 918; 919; 920	N3		Paradiso Villas Condominiums			11400 W. Parmer Ln			Cedar Park	TX	78613	R483738
N3-250		N3		Ca Silverado Llc			1508 S Lamar Blvd			Austin	TX	78704	R433286
N3-252		N3		Spectrum Group Llc			11651 W Parmer Ln			Cedar Park	TX	78613	R475375
N3-253		N3		Cypress Creek Montessori School Inc			2305 Manada Trl			Leander	TX	78641-2745	R475397
N3-254; N3-255		N3		Breakaway Park Section Iv Ltd			C/O Barbara Sielaff	2911 Dover Pl		Austin	TX	78757-4351	R475392; R475396
N3-256	867; 868	N3		11901 Parmer Condominiums			C/O 11901 Parmer Owners Association, Inc/Austin Heath President	11901 W Parmer Lane Unit 400		Cedar Park	TX	78613	R490890
N3-257		N3		B & L Bison Properties Llc			11951 W Parmer Ln			Cedar Park	TX	78613-7472	R457158
N3-258	865	N3		Schara	David J & Susan M		12001 W Parmer Ln			Cedar Park	TX	78613	R457157
N3-259		N3		Srinivasan	Anand & Tamara Perera		6718 Cuesta Trl			Austin	TX	78730	R457156
N3-260	863; 864	N3		Bunker	Harris		Parker Properties LLC	14942 Fm 346		Troup	TX	75789-5112	R457155
N3-261	862	N3		Parmer Oaks Condominium			C/O Parmer Oaks Condominium Owners Association, Inc	4019 Bobbin Lane		Addison	TX	75001	R530226
N3-262	861	N3		Parmer Oaks Development Lp			4019 Bobbins Ln			Addison	TX	75001	R447793
N3-263		N3		Menfi Joseph & 209 Denali Pass Lp & Dreambuilder Invest Llc			1 Airport Rd			Hopedale	MA	01747-1501	R447805
N3-264; N3-266; N3-267; N3-268; N3-269; N3-270		N3		Riversideca 25 Ltd			C/O Andy Reese	100 Congress Ave Ste 780		Austin	TX	78701	R543561; R543562; R543563; R543565; R543566; R543567
N3-265	866	N3		Rrca Parmer Ranch Trails Lot 4 Ltd			Attn: Andrew Maebius, Riverside Resources	100 Congress Ave	Ste 1450	Austin	TX	78701	R543564
N3-271		N3		1900 Lakeline Llc			1900 S Lakeline Blvd			Cedar Park	TX	78613	R518506
N3-272		N3		Platinum Cedar Park Jubilee Investments Inc			1905 Leaders Ln			Leander	TX	78641	R518507
N3-273		N3		Mayes Henry B Jr Trustee			PO Box 200339			Austin	TX	78720-0339	R430204

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
N3-274	860	N3		Colonial Realty Limited Partnership			Silverado Reserve	Maa Property Tax #104601	6584 Poplar Ave	Memphis	TN	38138-3614	R457533
N3-275		N3		Riversideca 17 Ltd			Attn: Andy Reese	100 Congress Ave	Ste 1450	Austin	TX	78701	R539878
N3-276		N3		Fellowship Bible Church Of Cedar Park			1709 Warwick Way			Cedar Park	TX	78613	R506057
N3-277		N3		Riversideca 58 Ltd			C/O Andy Reese	100 Congress Ave Ste 1450		Austin	TX	78701	R539949
N3-279	223; 226	N3		Wmci Austin I Llc			3951 Stillman Pkwy			Glen Allen	VA	23060-4618	R472067
N3-280; N3-281	224; 225	N3		Walker	Ronald M Trustee & Gilbert C & Michaela I Walker Trustees		8502 E Chapman Ave	Ste 618		Orange	CA	92869	R472068; R472069
N3-283		N3		Colonial Realty Lp			Silverado	Maa Property Tax #104601	6584 Poplar Ave	Memphis	TN	38138-3614	R431101
N3-285		N3		Lipt Whitestone Boulevard Llc			C/O Lasalle Investment Mgmt Inc	Attn: David Schreiber	200 E Randolph Dr, 44Th Fl	Chicago	IL	60601	R427550
N3-286		J3; K2; N3		Lipt Whitestone Boulevard Llc			C/O Lasalle Investment Mgmt Inc	Attn: David Schreiber	201 E Randolph Dr, 44Th Fl	Chicago	IL	60601	R451401
N3-288	222	N3		Jlcp Llc			3555 Lost Creek Blvd			Austin	TX	78735	R447763
N3-289	221	J3; K2; N3		Shafinury	Morteza		PO Box 270152			Corpus Christi	TX	78427-0152	R447762
N3-290	211	J3; K2; N3		Cedar Park Eck Lp			1 Cvs Dr	#8331-01		Woonsocket	RI	02895-6146	R442398
O-003; O-004; O-005; O-006; O-007; O-010; O-011; O-012; O-013; O-014; O-015; O-016; O-017; O-018; O-019; O-020	94; 95	O		Toll Dallas Tx Llc			250 Gibraltar Rd			Horsham	PA	19044	R532634; R532635; R532636; R532637; R532638; R532663; R532664; R532665; R532666; R532667; R532668; R532669; R532670; R532671; R532672; R532673
O-009; O-021; O-022; O-023; O-033; O-038; V4-007		O		Owners Association Of Sarita Valley Inc			C/O Southwest Mgmt	PO Box 342585		Austin	TX	78734-0044	R513719; R513720; R513722; R513723; R513724; R513747; R513748
O-024; O-027; O-047; O-057; U4-011				Drees Custom Homes Lp			7300 Ranch Road 2222	Bldg 2 Ste 250		Austin	TX	78730-3233	R513683; R513740; R521152; R521162; R521185
O-025				Cernin Jimmie Trustee For Jimmie Cernin Revocable Trust			1324 Pasa Tiempo			Leander	TX	78641-3639	R513738
O-026				Hill	Scott & Lisa		3500 Grimes Ranch Rd			Austin	TX	78732	R513739
O-028				Oliver	Joseph & Mary H		2908 Rabbits Tail Dr			Leander	TX	78641	R517871
O-029				Prine	Timothy A & Lesli A		2904 Rabbits Tail Dr			Leander	TX	78641	R517870
O-030				Mclaurin	Samuel L & Flecia M		2900 Rabbits Tail Dr			Leander	TX	78641	R517869
O-031				Deanda	Loraine & Johnny		2905 Rabbits Trail Dr			Leander	TX	78641	R517891
O-032				Harrison	Kelly R		2901 Rabbits Tail Dr			Leander	TX	78641-1436	R517892
O-034				Cole	Matthew J & Devra		1113 Feather Reed Dr			Leander	TX	78641	R513718
O-035				Mabe	Tony Lynn & Donna Ann		1109 Feather Reed Dr			Leander	TX	78641	R513717
O-036				Walker	Chauncey Weldon & Stacey Leigh		1105 Feather Reed Dr			Leander	TX	78641	R513716
O-037				Kempema	Jonathan T & Erica M		1101 Feather Reed Dr			Leander	TX	78641	R513715
O-039				Reagan & Fm 2243 Ltd			100 Congress Ave Ste 1450			Austin	TX	78701-2721	R513721
O-040				Atzenhofer	Thomas J & Laurie D		2812 Rabbits Tail Dr			Leander	TX	78641	R513714
O-041				Burnett	Donald R & Ellen L		2808 Rabbits Tail Dr			Leander	TX	78641	R513713
O-042				Koch	Karen K & Robert A		2804 Rabbits Tail Dr			Leander	TX	78641-1430	R513712
O-043				Rondeau	John & Julie		2800 Robbits Tail Dr			Leander	TX	78641	R513711
O-044				Mitchell	Thomas L & Bernadette		1009 Purple Moor Pass			Leander	TX	78641	R513710
O-045				Askelson	Edward R & Robin G		1005 Purple Moor Pass			Leander	TX	78641	R513709
O-046				Drees Custom Homes Lp			6225 N State Highway 161	Ste 400		Irving	TX	75038	R513708
O-048				Re	Andrew & Kendra		941 Purple Moor Pass			Leander	TX	78641	R521161
O-049				Feldkamp	Jacob & Nicole		937 Purple Moor Pass			Leander	TX	78641	R521160
O-050				Padilla	Carlos A & Joy A Padilla		933 Purple Moor Pass			Leander	TX	78641	R521159
O-051				Kiesow	James A & Caryn		929 Purple Moor Pass			Leander	TX	78641	R521158

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
O-052				Oliver	James L Iii		1004 Purple Moor Pass			Leander	TX	78641-1429	R513741
O-053				Henry	Kevin S & Heather A		1000 Purple Moor Pass			Leander	TX	78641	R513742
O-054; O-056; O-063; S-006; S-008; S-009; U4-006; U4-010; U4-017; U4-022; U4-024; V4-020; V4-022		S		Grand Haven Homes Lp			11501 Alterra Pkwy	Ste 100		Austin	TX	78758-3201	R504094; R504095; R504097; R521142; R521144; R521153; R521157; R521182; R521184; R521188; R521192; R521194; R521198
O-055				Cannon	Klark Q		940 Purple Moor Pass			Leander	TX	78641	R521183
O-058				Kakarla	Mahesh Reddy		928 Purple Moor Pass			Leander	TX	78641	R521186
O-059				Sagar	Jaideep & Pragya Sharma		1005 Feather Reed Dr			Leander	TX	78641	R513744
O-060				Albert-Green	Deeadra F		1001 Feather Reed Dr			Leander	TX	78641	R513743
O-061				Doppalapudi	Raghu Babu & Lalitha		933 Feather Reed Dr			Leander	TX	78641	R521200
O-062				Aradada	Srinu Nutan S		929 Feather Reed Dr			Leander	TX	78641	R521199
O-064				Sanchez	Luis		921 Feather Reed Dr			Leander	TX	78641	R521197
O-065				Scheffer	Joseph Scott		917 Feather Reed Dr			Leander	TX	78641	R521196
O-066		O		Todd	Brandon & Olga Kotegova		47 Fair Oaks St			Leander	TX	78641	R037205
O-067		O		Todd	Brandon		PO Box 500206			Austin	TX	78750	R037204
O-068		O		Todd	Franklin M		903 Ridgerock Cv			Leander	TX	78641	R525995
O-069		O		Tolbert	Matthew Titus		71 Fair Oaks St			Leander	TX	78641-9786	R037202
O-070; O-071		O		360 Homes Llc			5824 Sunset Ridge			Austin	TX	78735	R037188; R473622
O-072				Kapp	Joe		13007 Lamplight Village Ave			Austin	TX	78729	R487450
O-073		O; U4		Hammond	James W Jr & Julliette G		14 Warfield			Leander	TX	78641-9722	R037187
O1-001	132	L1; M1; N1; O1; P1		Simpson	Mark		3958 Journey Pkwy			Leander	TX	78641-2584	R031574
O1-003				Vincent	Kathleen & Christopher		3808 Julian Ln			Leander	TX	78641	R533414
O1-004		O1		Villa	Ismari & Alejandro		3812 Julian Ln			Leander	TX	78641	R533415
O1-005	130	O1		Covington	Kevin & Ana		3816 Julian Ln			Leander	TX	78641	R533416
O1-006	131	O1		Guntner	Johnny M & Iryna		2404 Echo Park Dr			Leander	TX	78641	R533419
O1-007	129	O1		Johnson	Angelia Henderson		2400 Echo Park Dr			Leander	TX	78641	R533418
O1-008		O1		Konovalova	Alexey & Larissa		3813 Julian Ln			Leander	TX	78641	R533394
O1-011	126	O1		Thornton	Timothy F & Ginny Li		2324 Echo Park Dr			Leander	TX	78641	R533407
O1-012		O1		Ghosh	Neelanjan & Jaya Patra		3808 Carya Dr			Leander	TX	78641	R533391
O1-014	125	O1		Akkina	Venkata Krishna & Swathi Pendyala		2320 Echo Park Dr			Leander	TX	78641	R533406
O1-015	123	O1		Tyson	Edward & Lisa Garcia		2316 Echo Park Dr			Leander	TX	78641	R533405
O1-018	120	M1; N1; O1		Moore	James Ray & Lynn Suzanne		2304 Echo Park Dr			Leander	TX	78641	R533402
O3-001; O3-003	859	F3; O3; U3		City Of Round Rock			C/O Jerry & Linda L Bradley	2721 Sam Bass Rd		Round Rock	TX	78681	R330703; R418456
O3-004		O3		Saienga	Gene R & Margaret A		3108 Fox Hollow St			Round Rock	TX	78681-1708	R074872
O3-005		O3		Richie	Kevin M & Erica D		3110 Fox Hollow St			Round Rock	TX	78681-1708	R074871
O3-006		O3		Woods	Kristie Lee Holdaway		3112 Fox Holw			Round Rock	TX	78681	R074870
O3-007	858	O3		Mccoy	Mark A & Jacquline J		3101 Sam Bass Rd			Round Rock	TX	78681-1731	R074814
O3-008	857	O3		Fallon	Kathleen Mary		3107 Sam Bass Rd			Round Rock	TX	78681-1731	R074815
O3-009	856	O3		Anderson	Herbert		3111 Sam Bass Rd			Round Rock	TX	78681-1731	R074816
O3-010	855	O3		Johnson	Albert W III & Jackie K		3201 Sam Bass Rd			Round Rock	TX	78681	R074817
O3-011	854	O3		Zimmerman	Jimmie M & Sally		1909 Tonkawa Trl			Round Rock	TX	78681-1728	R074818
O3-012		O3		Ryals	Philip D		1901 Tonkawa Trl			Round Rock	TX	78681-1728	R074819
O3-014				Juren	Colin L & Amanda C		2901 Arbor Ct			Round Rock	TX	78681-2161	R405424
O3-015				Fernandez	Mario W & Debbie L		2903 Arbor Ct			Round Rock	TX	78681	R405423
O3-016				Mccown	Shawn		2905 Arbor Ct			Round Rock	TX	78681	R405422
O3-017	852	O3		Hernandez	Ruben A & Melissa C		2907 Arbor Ct			Round Rock	TX	78681	R405421
O3-018	851	O3		Orugunty	Ravi & Prasanna P Gobal		2909 Aror Ct			Round Rock	TX	78681	R405420
O3-019	850	O3		Breault	Michael J & Gina M		2908 Arbor Ct			Round Rock	TX	78681	R405419
O3-020	849	O3		Willemsen	Michael & Eloisa G		2906 Arbor Ct			Round Rock	TX	78681-2161	R405418
O3-021		O3		Nwankpa	Christian A & Rosemary		2904 Arbor Ct			Round Rock	TX	78681-2161	R405417
O3-022				Little	Howard M Sr & Nancy Patricia		2902 Arbor Ct			Round Rock	TX	78681-2161	R405416
O3-023				Adams	Clarence D & Linda D	Trustees	2900 Arbor Ct			Round Rock	TX	78681	R405415
O3-024				Millar	Jose Gabriel C		2300 Masonwood Way			Round Rock	TX	78681-2162	R405414
O3-025				Hoyer	Jerry D & Mary Ann		2302 Masonwood Way			Round Rock	TX	78681	R405413
O3-026		O3		Kotlapure	Gopikrishna & Rachna Mishra		2304 Masonwood Way			Round Rock	TX	78681	R405412
O3-027	848	O3		Cummings	Bruce A & Tracy M		2306 Masonwood Way			Round Rock	TX	78681-2162	R405411
O3-028	847	O3		Strauss David & Karen			2308 Masonwood Way			Round Rock	TX	78681	R405410

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
O3-029	846	O3		Sahu	Yogesh K & Rajni Gandha Sahu		2310 Masonwood Way			Round Rock	TX	78681	R405409
O3-030	845	O3		Richardson	Rex J & Kathryn A		2312 Masonwood Way			Round Rock	TX	78681-2162	R405408
O3-031		O3		Kennedy	Catherine S		2314 Masonwood Way			Round Rock	TX	78681-2162	R405407
O3-032				Obrien	Dina P & Kenneth J		2313 Masonwood Way			Round Rock	TX	78681-2162	R405436
O3-033				Martin	Kevin M & Trina T		2315 Masonwood Way			Round Rock	TX	78681	R405437
O3-034				Beeson	Michael D & Mylie A		2317 Masonwood Way			Round Rock	TX	78681	R405438
O3-035				Leidy	Joseph P & Sandra		2319 Masonwood Way			Round Rock	TX	78681-2162	R405439
O3-036				Sharifian	Bahman & Julie B		3101 Pecan Crest Cv			Round Rock	TX	78681-2191	R405406
O3-037	844	O3		Layne	William E & Laurie M		3103 Pecan Crest Cv			Round Rock	TX	78681	R405405
O3-038	843	O3		Moore	Leonard N & Thais D Bass Moore		3105 Pecan Crest Cv			Round Rock	TX	78681	R405404
O3-039	842	O3		Jain	Ankur & Meenu		3106 Pecan Crest Cv			Round Rock	TX	78681-2191	R405403
O3-040		O3		Tynan	David W & Shirley M		3104 Pecan Crest Cv			Round Rock	TX	78681-2191	R405402
O3-041				Tinnell	Christopher T & Marjorie E		4046 Geary St			Round Rock	TX	78681	R405401
O3-042				Pav	Eric M & Melanie J		3100 Pecan Crest Cv			Round Rock	TX	78681-2191	R405400
O3-043				Bhakta	Arvind		2196 Park Place Cir			Round Rock	TX	78681	R405399
O3-044				Moyer	Steven A & Laurie R		3203 Whispering Woods Ct			Round Rock	TX	78681-2190	R405398
O3-045				Savage	Iris		3205 Whispering Woods Ct			Round Rock	TX	78681	R405397
O3-046	841	O3		Oconnell	Jeffery S & Erika Elise		3207 Whispering Woods Ct			Round Rock	TX	78681-2190	R405396
O3-047	840	O3		Fisher	Michael H & Marcia C		3209 Whispering Woods Ct			Round Rock	TX	78681-2190	R405395
O3-048	839	O3		Bassett	Lachrisha		3211 Whispering Wood Ct			Round Rock	TX	78681	R405394
O3-049	838	O3		Zuniga	Oscar G		3210 Whispering Woods Ct			Round Rock	TX	78681	R405393
O3-050		O3		Yawn	Larry & Dora G		3208 Whispering Woods Ct			Round Rock	TX	78681-2190	R405392
O3-051				Hull	Scott & Brandy		3206 Whispering Wind Ct			Round Rock	TX	78681	R405391
O3-052				Beto	Richard F & Barbara A		3204 Whispering Woods Ct			Round Rock	TX	78681	R405390
O3-053				King	George W III & Tiffany M		3307 Texana Ct			Round Rock	TX	78681	R414221
O3-054		O3		Ford	James B & Krista M		3309 Texana Ct			Round Rock	TX	78681	R414220
O3-055	837	O3		Galloway	Richard W & Shirley C		3311 Texana Ct			Round Rock	TX	78681-2272	R414219
O3-056	836	O3		Uxer	Jennifer & Matthew Toroney		3313 Texana Ct			Round Rock	TX	78681	R414218
O3-058	835	O3		Flippo	Jason E & Jung M		3314 Texana Ct			Round Rock	TX	78681	R414217
O3-059		O3		Hughes	Robert F Jr & Erica S		3312 Texana Ct			Round Rock	TX	78681-2272	R414216
O3-060				Beene	Kenneth N & Linda S		3310 Texana Ct			Round Rock	TX	78681-2272	R414215
O3-061				Kianes	Rafael A	Jr	3308 Texana Ct			Round Rock	TX	78681	R414214
O3-063	853	O3		Riordan	Alan & Canay T		2002 Tonkawa Trl			Round Rock	TX	78681-1725	R074859
O3-064		O3		Urban	Glenn L & Sherry F		3300 Arrowhead Cir			Round Rock	TX	78681-1702	R074858
O3-065; O3-066		O3		Uriegas	Rodolfo & Sabrina		3304 Arrowhead Cir			Round Rock	TX	78681-1702	R074857; R074860
O3-067				The Waldecker Family Trust			3306 Arrowhead Cir			Round Rock	TX	78681-1702	R074856
O3-068	803	O3		Bourland	Cynthia Olson		3333 Sam Bass Rd			Round Rock	TX	78681-1714	R056180
O3-069				Jempty	William A & Billie S		1905 Stonewreath Dr			Round Rock	TX	78681	R074852
O3-070				Robinson	Phillip H		1904 Stonewreath Dr			Round Rock	TX	78681-1722	R074851
O3-071	802	O3		Garrett	John R & Angel R		3411 Sam Bass Rd			Round Rock	TX	78681	R074865
O3-072	801	O3		Korapala	Janardhana & Veda K Guggulla		3551 Sam Bass Rd			Round Rock	TX	78681-1712	R531635
O3-073				Johnson	Jerret & Fariba Abolbaghael		3610 Arrowhead Cir			Round Rock	TX	78681	R074867
O3-074		O3		Johnson	Matthew C & Monique M		130 Park Place Dr			Georgetown	TX	78628	R074866
O3-075	800	O3		Litz	Chris & Christina		3614 Arrowhead Cir			Round Rock	TX	78681	R074862
O3-076	799	O3		Thomas	Jeffrey A & Linda C		3616 Arrowhead Cir			Round Rock	TX	78681	R074861
O3-077; O3-078; O3-111		O3		Walsh Ranch Mud			1004 Mo Pac Cir	Ste 100		Austin	TX	78746-6805	R479581; R479771; R479889
O3-079	834	O3		Pattison	Scott T & Carole K		3507 Alexandrite Way			Round Rock	TX	78681-2437	R479580
O3-080	833	O3		Dunn	C Eric		3511 Alexandrite Way			Round Rock	TX	78681	R479579
O3-081	832	O3		Mcnamara	Sean T & Kelly D		3512 Alexandrite Way			Round Rock	TX	78681	R479597
O3-082	831	O3		Mekala	Gautam & Sharmila		3515 Alexandrite Way			Round Rock	TX	78681	R479578
O3-083	830	O3		Harrison	Paul W & Kari A		3516 Alexandrite Way			Round Rock	TX	78681	R479598
O3-084	829	O3		Vykunta	Rama & Asha L		3519 Alexandrite Way			Round Rock	TX	78681	R479577
O3-085	828	O3		Albertson	Allyson Therrell		3520 Alexandrite Way			Round Rock	TX	78681	R479599
O3-086	827	O3		Ghatty	Surya K & Surat P Sombhatla		3523 Alexandrite Way			Round Rock	TX	78681	R479576
O3-087	826	O3		Ali	Mir I & Ayesha W		3524 Alexandrite Way			Round Rock	TX	78681-2437	R479600
O3-088	825	O3		Sarda	Gautam G & Sumita G		3527 Alexandrite Way			Round Rock	TX	78681	R479575
O3-089	824	O3		Nguyen	Thong & Cindy Huyhn		3528 Alexandrite Way			Round Rock	TX	78681	R479601
O3-090	823	O3		Kirkpatrick	Derrick D & Kimberly N		3531 Alexandrite Way			Round Rock	TX	78681-2437	R479574
O3-091	822	O3		Harter	Paul A		1450 W Grand Pkwy S	Ste G		Katy	TX	77494-8287	R479602
O3-092	821	O3		Hirani	Faiyaz & Batul		3535 Alexandrite Way			Round Rock	TX	78681-2437	R479573

Leander-Round Rock 138-kV Transmission Line Project
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Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
O3-093	820	O3		Larkin	John P & Tamara		3536 Alexandrite Way			Round Rock	TX	78681	R479603
O3-094	819	O3		Deshpande	Narayan R & Sweety Girase		3539 Alexandrite Way			Round Rock	TX	78681	R479572
O3-095	818	O3		Stock	Jared E & Brenda J		3540 Alexandrite Way			Round Rock	TX	78681	R479604
O3-096	817	O3		Karnes	Jeffrey S & Kimberly S		3543 Alexandrite Way			Round Rock	TX	78681	R479571
O3-097	816	O3		Kuo	Chin-Chia & Yihsien Chien		3544 Alexandrite Way			Round Rock	TX	78681-2437	R479605
O3-098	815	O3		Ahmed	Sohail		3547 Alexandrite Way			Round Rock	TX	78681-2437	R479570
O3-099	814	O3		Gulley	Landan A		3548 Alexandrite Way			Round Rock	TX	78681-2437	R479606
O3-100	813	O3		Whyte	Wayne E & Monique B		3551 Alexandrite Way			Round Rock	TX	78681	R479569
O3-101	812	O3		Calderone	Luke & Lisa D		3552 Alexandrite Way			Round Rock	TX	78681-2437	R479607
O3-102	811	O3		Hess	Russell		3555 Alexandrite Way			Round Rock	TX	78681	R479568
O3-103	809	O3		Cloud	Robert Ty & Diane Robin		3558 Alexandrite Way			Round Rock	TX	78681-2437	R479608
O3-104	810	O3		Lee	Mitchell & Ladeitra		3559 Alexandrite Way			Round Rock	TX	78681-2437	R479567
O3-105	808	O3	Mr.	Martin	Alexis		5660 South Lakeshoire Drive	#212		Shreveport	LA	71119	R479566
O3-105	808	O3	Mr.	Martin	Dominique		5660 South Lakeshoire Drive	#212		Shreveport	LA	71119	R479566
O3-105	808	O3	Mr.	Martin	Martin		C/O Esmerelda Baldarama	6630 Siegen Lane, Apt 247Z		Baton Rouge	LA	70809	R479566
O3-105	808	O3	Ms.	Martin	Renee		3563 Alexanderite Way			Round Rock	TX	78681	R479566
O3-105	808	O3		Martin	Renee S & Estate Of Jerome Martin Iii		3563 Alexandrite Way			Round Rock	TX	78681	R479566
O3-106	807	O3		Bhatia	Bobby & Narendra Manchi		3567 Alexandrite Way			Round Rock	TX	78681	R479565
O3-107	805	O3		Moore	Corbin T & Jennifer Leigh		3571 Alexandrite Way			Round Rock	TX	78681	R479564
O3-108	804	O3		Valeriano	Ramon G	Jr	3575 Alexandrite Way			Round Rock	TX	78681-2437	R479563
O3-109	806	O3		Eggleston	Lee J & Shawna L		3579 Alexandrite Way			Round Rock	TX	78681	R479562
O3-110		O3		Clifton	Troy W & Tonya G		3583 Alexandrite Way			Round Rock	TX	78681-2437	R479561
O3-114				Fielding	John E & Margaret C		3613 Arrowhead Cir			Round Rock	TX	78681-1704	R074840
O3-115	798	O3		Whittle	Brandon T & Lisa		3701 Arrowhead Cir			Round Rock	TX	78681	R074841
O3-116	797	O3		Vargas	Juan M & Rhonda Jan		3703 Arrowhead Cir			Round Rock	TX	78681-1758	R074842
O3-117		O3		Gibbs	Richard A & Anna M		1903 Great Oaks Dr			Round Rock	TX	78681-1558	R056176
O3-118		O3		Culp	David & Martha		1904 Great Oaks Dr			Round Rock	TX	78681-1558	R056175
O3-119	796	O3		Pursley	Carolyn		3801 Sam Bass Rd			Round Rock	TX	78681-1564	R056168
O3-120	795	O3		King	Jan & Patrick Oconnell		3803 Sam Bass Rd			Round Rock	TX	78681	R056169
O3-121		O3		Broder	Lawrence David		1905 Great Oaks Dr			Round Rock	TX	78681	R056167
O3-122	794	O3		Hobbs	Michael J		14223 E 640 Rd			Hennessey	OK	73742-6659	R056170
O3-123	793	O3		Wittkower	Tom & Megan		3901 Sam Bass Rd			Round Rock	TX	78681	R056174
O3-124		O3		Burchers Louis & Martha Trsts The Burchers Family			1907 Great Oaks Dr			Round Rock	TX	78681-1558	R056166
O3-125	792	O3		Hilscher	Jay E & Joy H		3905 Sam Bass Rd			Round Rock	TX	78681	R056173
O3-126	791	O3		Fitzgerald	William Patton & Gaylia		2101 Great Oaks Dr			Round Rock	TX	78681-1560	R056178
O3-127	790	O3		Williams	Deborah		2103 Great Oaks Dr			Round Rock	TX	78681-1560	R056171
O3-128		O3		Gennarelli	Gary & Rhonda		2000 Great Oaks Dr			Round Rock	TX	78681-1559	R450411
O3-129	789	O3		Goergen Joseph George & Barbara Anne Tr Of Goergen Family Trust			2200 Great Oaks Dr			Round Rock	TX	78681-1639	R063586
O3-130	788	O3		Savina	Anthony R & Ana		2103 Live Oak Cir			Round Rock	TX	78681-1549	R063587
O3-131		O3		Rodriguez	Roger V & Linda S		2107 Live Oak Cir			Round Rock	TX	78681-1549	R035302
O3-132		O3		Warschak	Shari Murphy & Stephen Wyatt		2109 Live Oak Cir			Round Rock	TX	78681-1549	R035303
O3-135	784	O3		Hatfield	Jason & Kasey		4009 Sam Bass Rd			Round Rock	TX	78681-1526	R332523
O3-136	783	O3		Taylor	Chad & Jennifer		4101 Sam Bass Rd			Round Rock	TX	78681-1521	R035318
O3-137	782	O3		Frers	Chad & Brandi		4105 Sam Bass Rd			Round Rock	TX	78681-1521	R035317
O3-138	781	O3		Notgrass	Monte Blake & Allison Nagle		4109 Sam Bass Rd			Round Rock	TX	78681-1521	R035316
O3-139	780	O3		Sells	Gregory P		PO Box 1151			Round Rock	TX	78680-1151	R035315
O3-140		O3		Capital Hills Development Corporation			3007 Live Oak St			Round Rock	TX	78681	R035313
O3-141		O3		Frye	James L		2301 Live Oak Cir			Round Rock	TX	78681-1508	R035311
O3-142	777	O3		Komm Family Trust			2307 Greenlee Dr			Austin	TX	78703-1710	R035312
O3-143; O3-144	785; 786; 787	O3		Round Rock Presbyterian Church			4010 Sam Bass Rd			Round Rock	TX	78681-1569	R032008; R032019
O3-145; O3-146	779	O3		Brushy Creek Congregation Of Jehovahs Witnesses			4232 Sam Bass Rd			Round Rock	TX	78681-1569	R032021; R327819
O3-147		O3		Parker	Russell D & Mary F		1403 Pigeon View St			Round Rock	TX	78665-1104	R083713
O3-148	778	O3		Community Christian Church			4300 Sam Bass Rd			Round Rock	TX	78681-1519	R032022
O3-151				Bushong Christine E Trustee Of The Christine Bushong Trust			2417 Deer Trail Cir			Round Rock	TX	78681	R032023
O3-152	775	O3		Shavor	Sid A		7102 Wayne Ave			Lubbock	TX	79424-2116	R035347
O3-153	776	O3		Malone	Dale S & Susan L		17023 Pagosa Springs Ct			Austin	TX	78717-2993	R378585
O3-154	774	O3		Koehn	Stephen C & Patricia N		4305 Sam Bass Rd			Round Rock	TX	78681	R035348

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
O3-155	773	O3		Wells	Rickey D & Sherry L		4401 Sam Bass Rd			Round Rock	TX	78681-1522	R392448
O3-156	772	O3		Franklin	David A & Janis E		4403 Sam Bass Rd			Round Rock	TX	78681-1522	R392449
O3-157		O3		Huff	David		4409 Sam Bass Rd			Round Rock	TX	78681-1522	R032011
O3-158		O3		Teinert	Dennis		2401 Walsh Dr			Round Rock	TX	78681-1439	R032603
O3-159	768	O3		Mauldin	David A & Martha		2405 Walsh Dr			Round Rock	TX	78681	R032602
O3-160	767	O3		Maxwell	Danny K & Dru Nell		2409 Walsh Dr			Round Rock	TX	78681-1439	R031997
O3-161	771	O3		Counts	Steven M & Kelly D		2400 Deer Trail Cir			Round Rock	TX	78681	R032017
O3-162		O3		Beckham	Phyllis C		2408 Deer Trail Cir			Round Rock	TX	78681-1502	R001238
O3-163				Wagner	Melvin G & Betty A		2416 Deer Trail Cir			Round Rock	TX	78681-1502	R001244
O3-164				Smith	James D & Nancy		2500 Deer Trail Cir			Round Rock	TX	78681-1550	R032035
O3-165	770	O3	Ms.	Thomas	Wanda Laverne Moore		4400 Sam Bass RD			Round Rock	TX	78681	R099522
O3-165	770	O3		Thomas Wanda L & Estate Of Edward Doyle Thomas Sr			4400 Sam Bass Rd			Round Rock	TX	78681	R099522
O3-166; O3-167	769	O3		Digiulio	Maria & Craig Digiulio		4412 Sam Bass Rd			Round Rock	TX	78681	R032037; R403516
O3-168		O3		Goodman	Chris & Kim L		4416 Sam Bass Rd			Round Rock	TX	78681-1565	R032036
O3-169		O3		Conlee	Lynda & Larry Estate		1631 Cr 107			Hutto	TX	78634-3009	R032038
O3-169		O3	Ms.	Conlee	Lynda J		1631 CR 107			Hutto	TX	78634-3009	R032038
O3-169		O3	Mr.	Conlee	William T		1631 CR 107			Hutto	TX	78634-3009	R032038
O3-170		O3	Mr. & Mrs.	Rogers	David L & Jacquelyn F		2030 Airport Road			Georgetown	TX	78628-2301	R032016
O3-170		O3	Mr. & Mrs.	Rogers	David L & Jacquelyn F		4420 Sam Bass Road			Georgetown	TX	78681-1565	R032016
O3-170		O3	Mr.	Rogers	Joel T		4420 Sam Bass Road			Georgetown	TX	78628-2301	R032016
O3-170		O3		Rogers David L & Jacquelyn F (Le) & Joel T Rogers			2030 Airport Rd			Georgetown	TX	78628-2301	R032016
O3-171; O3-172	764; 765	O3		Gessaman	Bruce & Carole		4500 Sam Bass Rd			Round Rock	TX	78681-1433	R032013; R032014
O3-173				Baker	James W & Cameron		2404 Walsh Dr			Round Rock	TX	78681	R032633
O3-174	766	O3		Root	Ron & Janet		2406 Walsh Dr			Round Rock	TX	78681	R032634
O3-175	762; 763	O3		Sibigtroth	James M		2412 Walsh Dr			Round Rock	TX	78681-1420	R032707
O3-176		O3	Mr. & Mrs.	Allen	Randy C & Sandra D		4607 Sam Bass Road			Round Rock	TX	78681	R413021
O3-176		O3		Allen Randy C & Sandra D Co-Trustees (Le'S)Of The Allen Trust			4607 Sam Bass Rd			Round Rock	TX	78681	R413021
O3-177	761	O3		Lindell	Kevin John		4605 Sam Bass Rd			Round Rock	TX	78681-1419	R413020
O3-178; O3-179		O3		Lindell	John M & Janice A		2405 Mayfield Dr			Round Rock	TX	78681-1417	R413018; R413019
O3-180	757	O3		Klingemann	Michelle D & Eric C		1806 Eubank St			Georgetown	TX	78626	R539668
O3-181	760	O3		Schneider	Joseph & Amadina		2404 Mayfield Dr			Round Rock	TX	78681-1472	R338922
O3-182	759	O3		Jorden	Pat O & Deborah V		4701 Sam Bass Rd			Round Rock	TX	78681-1438	R032672
O3-183	758	O3		Skaggs Family Revocable Trust			C/O Ronald L Skaggs	2620 Fm 1460		Georgetown	TX	78626-7416	R032671
O3-184	756	O3		Hartman	Alfred C		4705 Sam Bass Rd			Round Rock	TX	78681-1438	R032670
O3-185	755	O3		Roha	Edward B & Rebecca R		4709 Sam Bass Rd			Round Rock	TX	78681-1438	R032669
O3-186; O3-187; O3-188	754	O3		May	Pleona		4713 Sam Bass Rd			Round Rock	TX	78681-1438	R032666; R032667; R032668
O3-189	753	L3; M3; O3	Ms.	LaBlanc	Marilyn C		4717 Sam Bass Rd			Round Rock	TX	78681	R032665
O3-189	753	L3; M3; O3		Leblanc	Marilyn C & Estate Of Berness R Leblanc		4717 Sam Bass Rd			Round Rock	TX	78681	R032665
P-001	41	C6; F6; L; M; N; P		Giaco	Vince J & Nanette		17400 Ronald W Reagan Blvd			Georgetown	TX	78628-6815	R334861
P1-004				Guduru	Ashoka		4212 Valley Oaks Dr			Leander	TX	78641	R532211
P1-006	139	P1; Q1; T1		Shaw	Jason & Shawna		2413 Blended Tree Ranch Dr			Leander	TX	78641	R526463
P1-007	138	P1; Q1; T1		Chinni	Ranjith Kumar		2409 Blended Tree Ranch Dr			Leander	TX	78641	R526462
P1-011				Gill	Shawn & Heather		4217 Valley Oaks Dr			Leander	TX	78641	R532234
P1-012	137	P1; Q1; T1		Maruthappen	Kathiresan		2401 Blended Tree Ranch Dr			Leander	TX	78641	R526460
P1-013	136	P1		Bitla	Dasharatham		2329 Blended Tree Ranch Dr			Leander	TX	78641	R526459
P1-016				Rose	Robert M Jr & Cheryl		2404 Blended Tree Ranch Dr			Leander	TX	78641	R526509
P1-017				Romero	David & Melissa A Romero		2400 Blended Tree Ranch Rd			Leander	TX	78641	R526508
P1-018				Phan	Nguyen T & Phuc Vinh Thi		2328 Blended Tree Ranch Dr			Leander	TX	78641	R526507
P1-019				Vo	Nhi-Lan		2324 Blended Tree Ranch Dr			Leander	TX	78641-1649	R526506
Q1-002				Simpson	Billy J		2750 Cr 175			Leander	TX	78641	R031573
Q1-003				Behrens	Aaron & Lauren		7100 Acacia Dr			Leander	TX	78641	R037970
Q2-001		M3; Q2; R2; S2; Y2		Fred L Rubin and Frieda B Rubin Living Trust			C/O Frieda B Rubin	PO Box 200339		Austin	TX	78720-0339	R031462
Q2-001		M3; Q2; R2; S2; Y2		K&H Investments, General Partnership Between Henry B Mayes, Jr and Kathy Mayes			PO Box 200339			Austin	TX	78720-0339	R031462
Q2-001; R2-001		M3; Q2; R2; S2; Y2	Ms.	Adams	Frances Lynn Carssow		PO Box 200339			Austin	TX	78720-0339	R031462; R031464

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
Q2-001; R2-001		M3; Q2; R2; S2; Y2		Carssow	James & Frances & William Jr	etal	PO Box 200339			Austin	TX	78720-0339	R031462; R031464
Q2-001; R2-001		M3; Q2; R2; S2; Y2	Mr.	Carssow	James Patton		PO Box 200339			Austin	TX	78720-0339	R031462; R031464
Q2-001; R2-001		M3; Q2; R2; S2; Y2	Mr.	Carssow	William Benton	Jr	PO Box 200339			Austin	TX	78720-0339	R031462; R031464
Q2-001; R2-001		M3; Q2; R2; S2; Y2	Mr.	Rubin	James		PO Box 200339			Austin	TX	78720-0339	R031462; R031464
Q2-002	261; 262	Q2; R2; S2; Y2		Sovran Acquisition Limited Partnership			Attn : Sandra L Herberger	6467 Main St		Buffalo	NY	14221	R457681
Q2-003; T2-061; T2-062; Y2-155; Y2-183; Y2-185; Y2-186; Y2-187; Y2-188; Y2-192; Y2-207; Y2-231		Q2; Y2		Vista Oaks Owners Assoc Inc			PO Box 342585			Austin	TX	78734-0044	R318159; R347816; R347824; R351914; R361341; R361374; R392165; R392166; R392167; R402672; R407798; R407799
Q2-004	245	I2; J2; Q2		Mccann	Joe E		4000 County Road 175			Leander	TX	78641-1604	R031467
Q2-005				Carreon	Ricardo & Yvonne D		4453 Hunters Lodge Dr			Round Rock	TX	78681-1018	R378462
Q2-006				Quintans	Katherine & Juliana Goldoni		4451 Hunter Lodge Dr			Round Rock	TX	78681	R378463
Q2-007				Lopez	Mark		4449 Hunters Lodge Dr			Round Rock	TX	78681-1018	R378464
Q2-008		Q2		Callans	April		4447 Hunters Lodge Dr			Round Rock	TX	78681-1018	R378465
Q2-009	260	Q2		Schuster	Lawrence		4445 Hunters Lodge Dr			Round Rock	TX	78681-1018	R378466
Q2-010	259	Q2		Reinoehl	Brandon P & Christen M		4443 Hunters Lodge Dr			Round Rock	TX	78681	R378467
Q2-011; T2-182	352	T2		Folts	Chad M & Rebekah L		4438 Hunters Lodge Dr			Round Rock	TX	78681	R378499; R454518
Q2-012				Clarke	Quentin C		4436 Hunters Lodge Dr			Round Rock	TX	78681	R378498
Q2-013		Q2		Parks	Clayton		4441 Hunters Lodge Dr			Round Rock	TX	78681-1018	R378468
Q2-014				Alonzo Alvin M Trustee Of The Alvin M Alonzo Trust			11467 Raedene Way			San Diego	CA	92131	R378500
Q2-015				Winrich	Benton James & Karen E		4434 Hunters Lodge Dr			Round Rock	TX	78681	R378497
Q2-016		Q2		Bucy	J Kevin		5005 E Mountain View Dr			San Diego	CA	92116	R378469
Q2-017				Haby	Jeffrey & Reagan		4304 Indian Oaks			Round Rock	TX	78681-1080	R378501
Q2-018				Jackson	Debbie		4432 Hunters Lodge Dr			Round Rock	TX	78681-1017	R378496
Q2-019		Q2		Brown	Crystal N & James		4437 Hunters Lodge Dr			Round Rock	TX	78681-1018	R378470
Q2-020				Haas	Chad G		4306 Indian Oaks			Round Rock	TX	78681-1080	R378502
Q2-021				Dhesi	Banka & Jeanine		101 W Yale Loop			Irvine	CA	92604-3620	R378495
Q2-022	258	Q2		Hatfield	Matthew		4435 Hunters Lodge Dr			Round Rock	TX	78681	R378471
Q2-023				Hunt	Dree		4308 Indian Oaks			Round Rock	TX	78681	R378503
Q2-024				Miller	Austin Caleb & Megan Amanda		4428 Hunters Lodge Dr			Round Rock	TX	78681	R378494
Q2-025	257	Q2		Williams	Michael E		4433 Hunters Lodge Dr			Round Rock	TX	78681-1017	R378472
Q2-026				Beatty	Danielle M		4310 Indian Oaks			Round Rock	TX	78681	R378504
Q2-027				Vaughan	James L & Amy M		4426 Hunters Lodge Dr			Round Rock	TX	78681	R378493
Q2-028	256	Q2		Martinez	Adrian & Robert A		4431 Hunters Lodge Dr			Round Rock	TX	78681	R378473
Q2-029				Marple	Steven C & Jacqueline C Hernandez		4312 Indian Oaks			Round Rock	TX	78681	R378505
Q2-030				Gonzalez	Gerardo		4424 Hunters Lodge Dr			Round Rock	TX	78681-1017	R378492
Q2-031	255	Q2		Schindler	Stephanie		4429 Hunters Lodge Dr			Round Rock	TX	78681-1017	R378474
Q2-032				Jaramillo	Saul & Guadalupe		4314 Indian Oaks			Round Rock	TX	78681-1080	R378506
Q2-033				Woods	Jeremy S & Mamie		4420 Hunters Lodge Dr			Round Rock	TX	78681	R378491
Q2-034	254	Q2		Tran	Dien Minh		4427 Hunters Lodge Dr			Round Rock	TX	78681-1017	R378475
Q2-035				Baroi	David & Shikha		4316 Indian Oaks			Round Rock	TX	78681-1080	R378507
Q2-036				Gladden	Patrick		4418 Hunters Lodge Dr			Round Rock	TX	78681-1011	R378490
Q2-037	253	Q2		Sutton	Thomas L & Judith S		4425 Hunters Lodge Dr			Round Rock	TX	78681	R378476
Q2-038				Wells	Robert A & Melanie D		4300 Rock Hill Rd			Round Rock	TX	78681-2241	R378487
Q2-039				Sumrall	Lee Ann & Todd		4416 Hunters Lodge Dr			Round Rock	TX	78681	R378489
Q2-040	252	Q2		Jacobs	Scott D & Holly M		4423 Hunters Lodge Dr			Round Rock	TX	78681-1017	R378477
Q2-041	251	Q2		Schneider	Neal D & Rebecca D		4301 Rock Hill Rd			Round Rock	TX	78681-2241	R399196
Q2-042	250	Q2		Morrison	Gary K & Sharon K		4303 Rock Hill Rd			Round Rock	TX	78681-2241	R399197
Q2-043				Clements	Christopher P & Kimberly M		4417 Hunters Lodge Dr			Round Rock	TX	78681-1011	R378486
Q2-044				Fritz	Robert J & Sandra K		4302 Rock Hill Rd			Round Rock	TX	78681-2241	R399230
Q2-045				Ryan	Corey & Veronica		4415 Hunters Lodge Dr			Round Rock	TX	78681	R378485
Q2-046		T2		Ufi Ltd			PO Box 770			Burnet	TX	78611-0770	R399221
Q2-047		T2		Chatterton	Thomas		3713 Lagoona Dr			Round Rock	TX	78681-2325	R399220
Q2-048		T2		Zenon	Shawn E & Nicole L		4316 Rock Hill Rd			Round Rock	TX	78681-2241	R399219

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
Q2-049	249	I2; J2; Q2		Hirose	Tetsuo & Denise Hirose & Denise Thomas Hirose Trustees		10701 Purg Lane Cv			Austin	TX	78733	R399198
Q2-050	248	I2; J2; Q2; T2		Mcnutt	David B & Ramona F Gaston-Mcnutt		4317 Rock Hill Rd			Round Rock	TX	78681	R399199
Q2-051	247	I2; J2; K4; Q2; T2		Palczer	Louis	II	4309 Rock Hill Rd			Round Rock	TX	78681	R399200
R1-001; R1-002		L5; R1; U1a		Dudgeon	Patrick Hardy		14751 Ronald W Reagan Blvd			Leander	TX	78641-2586	R332409; R485237
R1-003		R1		Mcgraw Minerals Ltd & John L Robertson			PO Box 540			Jasper	TX	75951	R485236
R1-004		R1		Beck	Michael & Reba		14801 Ronald W Reagan Blvd			Leander	TX	78641-2587	R312324
R1-009; R1-010				Continental Homes Of Texas Lp			10700 Pecan Park Blvd	Fourth Floor, #400		Austin	TX	78750-1227	R538726; R538727
R1-011				Howard	Luther H & Debra J		2356 Lyla Ln			Leander	TX	78641	R514759
R1-012				Harrington	Deborah		2352 Lyla Ln			Leander	TX	78641	R514760
R1-013				Denton	Robert & Sarah Swinney		2348 Lyla Ln			Leander	TX	78641	R514761
R1-014				Smith	Trey A		2344 Lyla Ln			Leander	TX	78641	R514762
R1-015				Walsh	Phillip J		2340 Lyla Ln			Leander	TX	78641	R514763
R1-016				Kutac	Jennie & Nicolas		2336 Lyla Ln			Leander	TX	78641	R514764
R1-017				Bishop	Justin		2332 Lyla Ln			Leander	TX	78641	R514765
R1-018				Badhiwala	Gordhan		2328 Lyla Ln			Leander	TX	78641	R514766
R2-001		R2		Fred L Rubin and Frieda B Rubin Living Trust			PO Box 200339			Austin	TX	78720-0339	R031464
R2-001		R2		K&H Investments	General Partnership between Henry B Mayes, Jr & Kathy Mayes		PO Box 200339			Austin	TX	78720-0339	R031464
R2-002		R2		Schara	David J		12001 W Parmer Ln			Cedar Park	TX	78613-7767	R363928
R2-003; R2-005		R2		Stringer	Jud		1501 County Road 256			Liberty Hill	TX	78642-4705	R037977; R363927
R2-004		R2		Stipe	William E & Carolyn		101 Raley Rd			Cedar Park	TX	78613-6910	R037975
R2-006		R2		Rice	Alvin Loyd & Hazel E		4200 E Whitestone Blvd			Cedar Park	TX	78613-6926	R037976
R2-007		R2		Glazier	Gary & Jodeene		1903 Brushy Bend Dr			Round Rock	TX	78681-1443	R037930
R2-008		R2		Glazier	Jared		1904 Brushy Bend Dr			Round Rock	TX	78681-1451	R037929
R2-010		R2		Equity Trust Co Custodian			Attn: Marvin A Urbanczyk Jr	3001 Spanish Oak Trl		Round Rock	TX	78681-1322	R037928
S-003		S; Y		Georgetown Properties Ii Llc			101 N Shoreline	Ste 600		Corpus Christi	TX	78401	R500983
S-004		S		Halbert	Jared & Kasey		2904 Saint Federico Way			Round Rock	TX	78665	R504099
S-005		S		Timmerman	Robert L		9610 Leaning Cir			Austin	TX	78730	R504098
S-007		S		Duran	Carlos & Mahely		516 Cameron Cv			Cedar Park	TX	78613	R504096
S-010		S		Evans	Ronald D		12508 Belcara Pl			Austin	TX	78732	R504093
S-011; S-012; S-014; S-017; S-021		S		Escalera Ranch Owners Association Inc			C/O Goodwin Management, Inc	PO Box 203310		Austin	TX	78720-3310	R392508; R392521; R392533; R481486; R504110
S-013		S; Y		Fm 2243 Ltd			PO Box 200339			Austin	TX	78720	R031737
S-015; S-016	48	S; Y		Martinez	Anita & Amelia Valdez & Irene Torrez		407 Susana Dr			Georgetown	TX	78628	R031733; R031734
S-018; W2-082	502	S; W2		Bezuidenhout	Daniel A & Laura A		4012 Enchanted Rock Cv			Round Rock	TX	78681	R392509; R441195
S-019		S		Park	Saung Z		115 Escalera Pkwy			Georgetown	TX	78628-7116	R392510
S-020		S		Webb	Kelly M & Matthew W		125 Folsom Ct			Georgetown	TX	78628-7046	R481476
S-025; S-026; S-027		S	Mr.	Garey	Alan Jack		6450 FM 2243			Georgetown	TX	78628	R032114; R032115; R484374
S-025; S-026; S-027		S		Garey Jack & Camille A (Le) & Tx Parks & Recreation Foundation			6450 Fm 2243			Georgetown	TX	78628	R032114; R032115; R484374
S-025; S-026; S-027		S		Texas Parks & Recreation Foundation			C/O Richardson Improvement Corporation	2100 East Campbell Road, Suite 100		Richardson	TX	75081	R032114; R032115; R484374
S-029		S		Land Buddies Llc			2929 W 5Th	Ste A		Fort Worth	TX	76107	R529504
S-030		S		Hatfield	Mark A & Teresa J		7170 Ranch Road 2243			Georgetown	TX	78628-7140	R327426
S-031	44	S		Weatherford	Aubrey Lee	Jr	403 Cripple Creek Rd			Cedar Park	TX	78613-3448	R032125
S-032	43	S		Curington	Lloyd R & Paula E		7200 Rr 2243			Georgetown	TX	78628-9629	R032124
S1-001; S1-003; Z1-002	141	E5; G5; H5; S1; V1; V1a; W1; X1; Y1; Z1		Howard	Mark E II & Irma F		7230 Acacia Dr			Leander	TX	78641-9385	R037939; R037973; R037974
S1-002; S1-006		E5; O1; Q1; S1		Jen Texas Iii Llc			7405 Covewood Dr			Garland	TX	75044	R031571; R518872
S1-004		S1		Powell Sam R & Patsy L Trustees Of The Powell Living Trust			7220 Acacia Dr			Leander	TX	78641	R037972

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
S1-005		S1		Gabriel	Neil Anthony & Jamie F		7210 Acacia Dr			Leander	TX	78641-9385	R037971
T-001	45; 46	T; U; V		Palomino	David & Yolanda		Attn: Palomino Construction	1103 Westside Ln		Round Rock	TX	78681-2836	R032140
T1-013				Pool	Chris & Sheila		4212 Borho Ranch St			Leander	TX	78641	R532257
T1-014				Escobar	Anthony D & Kimberly D		4216 Borho Ranch St			Leander	TX	78641	R532258
T2-001; T2-002; T2-039	246	I2; J2; K4; Q2; T2		Palmer Investments Lp			110 E Main St			Round Rock	TX	78664	R031495; R462355; R474315
T2-003		K4; T2		Gardens At Mayfield Llc			2088 Old Taylor Rd			Oxford	MS	38655	R542757
T2-004	263	I2; J2; K4; Q2; T2		Smallwood	Aaron D		4311 Rock Hill Rd			Round Rock	TX	78681	R399201
T2-005	264	I2; J2; K4; Q2; T2		Mires	Bowman Trent & Christie Youngblood		4313 Rock Hill Rd			Round Rock	TX	78681	R399202
T2-006	265	I2; J2; K4; Q2; T2		Max	Sarah & Christopher		4315 Rock Hill Rd			Round Rock	TX	78681-2241	R399203
T2-007	266	T2		Williams	Michael N & Renee R		4317 Rock Hill Rd			Round Rock	TX	78681-2241	R399204
T2-008	267	T2		Fogg	Michael D & Alisa H		4319 Rock Hill Rd			Round Rock	TX	78681-2241	R399205
T2-009	268	T2		Ivester	James Oneal Jr & Melani Ann		4321 Rock Hill Rd			Round Rock	TX	78681-2241	R399206
T2-010	269	T2		Fish	Philip E & Pamela J		4323 Rock Hill Rd			Round Rock	TX	78681-2241	R399207
T2-011		T2		Del Rosso	Joel D & Brandy Lea		4322 Rock Hill Rd			Round Rock	TX	78681	R399222
T2-012				Mchargue	Mark L & Sheila K		4413 Hunters Lodge Dr			Round Rock	TX	78681-1011	R378484
T2-013	270	T2		Dowdle	Brent R & Nancy A		4325 Rock Hill Rd			Round Rock	TX	78681-2241	R399208
T2-014		T2		Azarnoush	Homayoun & Darakhshandeh Pari Razavi		4324 Rock Hill Rd			Round Rock	TX	78681-2241	R399223
T2-015				Webster	Emily & Darban S		4411 Hunters Lodge Dr			Round Rock	TX	78681-1011	R378483
T2-016	271	T2		Towell	Robert H & Janice R		4327 Rock Hill Rd			Round Rock	TX	78681-2241	R399209
T2-017		T2		Thain	Jared B		4326 Rock Hill Rd			Round Rock	TX	78681	R399224
T2-018				Topete	Manuel & Sandra M		4409 Hunters Lodge Dr			Round Rock	TX	78681-1011	R378482
T2-019	272	T2		Wylie	Anita S		4329 Rock Hill Rd			Round Rock	TX	78681	R399210
T2-020		T2		Guzman	Guadalupe C		4328 Rock Hill Rd			Round Rock	TX	78681-2241	R399225
T2-021				Woodall	Clinton		4407 Hunters Lodge Dr			Round Rock	TX	78681	R378481
T2-022	273	T2		Sanchez	Nathan & Johanna		4331 Rock Hill Rd			Round Rock	TX	78681-2241	R399211
T2-023		T2		Clausius	Jeffrey S & Kelly K S Clausius		4330 Rock Hill Rd			Round Rock	TX	78681-2241	R399226
T2-024				Hernandez	Teresa Lavon		4405 Hunters Lodge Dr			Round Rock	TX	78681	R378480
T2-025	274	T2		Nance	Timothy D & Denise L		4333 Rock Hill Rd			Round Rock	TX	78681-2241	R399212
T2-026		T2		Ewing	Kevin R		4332 Rock Hill Rd			Round Rock	TX	78681-2241	R399227
T2-027				Bogdan	Stan A & Rita F		4403 Hunters Lodge Dr			Round Rock	TX	78681-1011	R378479
T2-028	275	T2		Hunninghake	Kristin & David		328 Doe Run			Georgetown	TX	78628	R399213
T2-029		T2		Fang	Bor-Hann		4334 Rock Hill Rd			Round Rock	TX	78681	R399228
T2-030				Matto	Jacob W & Kimberly A		4421 Hunters Lodge Dr			Round Rock	TX	78681	R378478
T2-031	276	T2		Hilovsky	Andrew B & Elliot A		4337 Rock Hill Rd			Round Rock	TX	78681	R399214
T2-032		T2		Pedroza	Linda & David		4336 Rock Hill Rd			Round Rock	TX	78681-2241	R399229
T2-033				Clevering	Bonnie M		4401 Hunters Lodge Dr			Round Rock	TX	78681-1079	R369481
T2-034	277	T2		Khisty	Suman Maria		4339 Rock Hill Rd			Round Rock	TX	78681-2241	R399215
T2-035	278	T2		Hart	Frances G & James M		4341 Rock Hill Rd			Round Rock	TX	78664	R399216
T2-036		T2		Franz	Daniel J		4130 Moss Hollow Dr			Round Rock	TX	78681	R399217
T2-037				Hernandez	Johnny & Sandra		4128 Moss Hollow Dr			Round Rock	TX	78681-1119	R399218
T2-038				Villanueva	Richard G		4126 Moss Hollow Dr			Round Rock	TX	78681-1078	R370158
T2-040	280	T2		Waltke	Steven E & Lisa D Garza		3533 Laurel Bay Loop			Round Rock	TX	78681-1120	R402664
T2-041	279	T2		Perez	Oscar & Maria Loudes		3531 Laurel Bay Loop			Round Rock	TX	78681	R402663
T2-042		T2		La Rue	Paul R & Mary		3529 Laurel Bay Loop			Round Rock	TX	78681	R402662
T2-043				Young	Curtis S & Mary R		3527 Laurel Bay Loop			Round Rock	TX	78681	R402661
T2-044				Glenn	David A & Lisa A		3525 Laurel Bay Loop			Round Rock	TX	78681-1120	R402660
T2-045	281	T2		Duru	Loreta N		3535 Laurel Bay Loop			Round Rock	TX	78681-1120	R402665
T2-046	282	T2		Nguyen	Dan D & Van Anh T Trinh		3537 Laurel Bay Loop			Round Rock	TX	78681-1120	R402666
T2-047				Swaim	Susan		3526 Laurel Bay Loop			Round Rock	TX	78681	R402693
T2-048				Pressly	Jean A		3524 Laurel Bay Loop			Round Rock	TX	78681	R402692
T2-049	283	T2		James	Michael & Hyuna Hwang		3539 Laurel Bay Loop			Round Rock	TX	78681	R402667
T2-050		T2		Newman	Bruce T & Kathy A		3541 Laurel Bay Loop			Round Rock	TX	78681	R402668
T2-051				Gould	Michael		3219 Ash Glen Ln			Round Rock	TX	78681-1122	R402694
T2-052				Allsep	Franklin Keith		3217 Ash Glen Ln			Round Rock	TX	78681-1122	R402719
T2-053		T2		Otterstad	Erik Christian & Buffy		3601 Laurel Bay Loop			Round Rock	TX	78681-1121	R402669
T2-054		T2		Michels	Brian R & Michelle J		3603 Laurel Bay Loop			Round Rock	TX	78681	R402670
T2-055				Fallis	John & Kelly		3216 Ash Glen Ln			Round Rock	TX	78681-1122	R402695
T2-056				Sheets	Jonathan & Kristen		3214 Ash Glen Ln			Round Rock	TX	78681	R402740
T2-057				Wilhite	Mark F & Lisa Ann		3605 Laurel Bay Loop			Round Rock	TX	78681-1121	R402671
T2-058				Van Ryn	James & Rebekah		3607 Laurel Bay Loop			Round Rock	TX	78681	R402673
T2-059				Gershkoff	John M & Marla		3609 Laurel Bay Loop			Round Rock	TX	78681	R402674
T2-060				Blandford	Mark E & Karen K		3606 Laurel Bay Loop			Round Rock	TX	78681-1121	R402696

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
T2-066		T2		Mf Mayfield Ranch Homeowners Assoc Inc			C/O Southwest Mgt Services	PO Box 342585		Austin	TX	78734-0044	R475405
T2-067	306	T2		Weger	Frank John & Christa S		3804 Sapphire Ct			Round Rock	TX	78681	R475406
T2-068	307	T2		Collier	Sharon K		3808 Sapphire Ct			Round Rock	TX	78681	R475407
T2-069	308	T2		Elliott	Michael		3812 Sapphire Loop			Round Rock	TX	78681	R475408
T2-070		T2		Coatney	David & Jean Elisabeth		3816 Sapphire Loop			Round Rock	TX	78681	R475409
T2-071		T2		Pietrasik	Robert J & Patricia W		3815 Sapphire Loop			Round Rock	TX	78681-2428	R475432
T2-072	311	T2		Whited	Eric L & Jennifer L		3811 Sapphire Loop			Round Rock	TX	78681	R475431
T2-073	309	T2		Harmon	Laura A & Adelaide M Harmon		3807 Sapphire Ct			Round Rock	TX	78681-2427	R475403
T2-074	310	T2		Elkjer	Matthew Albin & Nikki S		3803 Sapphire Ct			Round Rock	TX	78681	R475404
T2-075; T2-077; T2-083; T2-110; T2-146		T2		Mf Mayfield Ranch Homeowners Assoc Inc			C/O Southwest Mgt Services	PO Box 342585		Austin	TX	78734	R453159; R465250; R465280; R465281; R475421
T2-078	286	T2		Blackmon	Clark J & Lisa D		4132 Massey Way			Round Rock	TX	78681-2394	R465279
T2-079	285	T2		Courson	Windell & Shin O		4128 Massey Way			Round Rock	TX	78681-2394	R465278
T2-080	284	T2		Ballis	John J & Laura K		4124 Massey Way			Round Rock	TX	78681	R465277
T2-081		T2		Jones	Steve & Brandy		4120 Massey Way			Round Rock	TX	78681	R465276
T2-082				Ellis	Bradley M & Ruth A		4116 Massey Way			Round Rock	TX	78681-2394	R465275
T2-084	289	T2		Ellison	Bryon D & Brooke E		4135 Massey Way			Round Rock	TX	78681	R465301
T2-085	288	T2		Kingsbery	Amy K & Austin P		4131 Massey Way			Round Rock	TX	78681-2394	R465300
T2-086	287	T2		Hancock	Bryan Allen & Jennifer Violet		4127 Massey Way			Round Rock	TX	78681-2394	R465299
T2-087		T2		Anderson	James William & Mary Lou A		4121 Massey Way			Round Rock	TX	78681	R465298
T2-088				Imran	Javaid & Iram Imran		4115 Massey Way			Round Rock	TX	78681	R465297
T2-089				Heugatter	Lisa		3808 Crest Ln			Round Rock	TX	78681	R465293
T2-090				Simmons	Paul Thomas		3812 Crest Ln			Round Rock	TX	78681-2392	R465292
T2-091				Hiser	Austin M & Christin A		4100 Twilight Cv			Round Rock	TX	78681	R465291
T2-092		T2		Mican	Nathan J & Deanne R		4104 Twilight Cv			Round Rock	TX	78681	R465290
T2-093	290	T2		Goodfellow	Robert H & Linda D		4108 Twilight Cv			Round Rock	TX	78681	R465289
T2-094	291	T2		Cochran	Oliver T & Denise M		4112 Twilight Cv			Round Rock	TX	78681-2391	R465288
T2-095	292	T2		Sosa	Javier A & Valerie M		4113 Twilight Cv			Round Rock	TX	78681-2391	R465287
T2-096	293	T2		Pennington	Roderick James & Monica		4109 Twilight Cv			Round Rock	TX	78681	R465286
T2-097	294	T2		Montoya	Erik R & Beverly A		4105 Twilight Cv			Round Rock	TX	78681	R465285
T2-098	295	T2		Reingold	Steven L & Claudia L		4101 Twilight Ct			Round Rock	TX	78681	R465284
T2-099	296	T2		Saccone	Daniel T & Melody A Ball		3836 Crest Ln			Round Rock	TX	78681	R465283
T2-100	297	T2		Latiolais	Damon W & Christy R		3840 Crest Ln			Round Rock	TX	78681	R465282
T2-101				Hlavenka	Joey & Tracy		3821 Crest Ln			Round Rock	TX	78681	R465261
T2-102				Pappin	William & Francesca		3825 Crest Ln			Round Rock	TX	78681	R465260
T2-103		T2		Marquez	Juan Carlos & Joy Lynn		3829 Crest Ln			Round Rock	TX	78681-2392	R465259
T2-104	298	T2		Rudi	Erik T & Kathleen M		4001 Madison Ct			Round Rock	TX	78681-2390	R465258
T2-105	300	T2		Lester	Nancy B & James H Wasilchen		4005 Madison Ct			Round Rock	TX	78681-2390	R465257
T2-106	302	T2		Wendling	Timothy L & Cynthia R		4009 Madison Ct			Round Rock	TX	78681-2390	R465256
T2-107	303	T2		Pender	Robert Charles & Demetra		4013 Madison Ct			Round Rock	TX	78681-2390	R465255
T2-108	304	T2		Simmons	John W Jr & Lindsey M		4017 Madison Ct			Round Rock	TX	78681	R465254
T2-109	305	T2		James	Bartel W & Kathy E		4021 Madison Ct			Round Rock	TX	78681-2390	R465253
T2-111	301	T2		Planchard	Kenneth P & Melinda A		4008 Madison Ct			Round Rock	TX	78681	R465252
T2-112	299	T2		Reynoldson	David W & Mary K		4000 Madison Ct			Round Rock	TX	78681	R465251
T2-114	312	T2		Tibbetts	Brandon J & Haven L		4112 Saphire Loop			Round Rock	TX	78681	R475402
T2-115	314	T2		Clark	Michael Blair & Amber Nicole		4108 Sapphire Loop			Round Rock	TX	78681-2431	R475401
T2-116	316	T2		Immalraju	Satavahana Varma & Sitara Suravarapu		4104 Sapphire Loop			Round Rock	TX	78681	R475400
T2-117	317	T2		Howard	Michael D & Donna D		4100 Sapphire Loop			Round Rock	TX	78681	R475399
T2-118	313	T2		Johnson	John Ligi & Bindu Mathew		4109 Sapphire Loop			Round Rock	TX	78681	R475430
T2-119	315	T2		Livingston	Dan & Xuejuan		4105 Sapphire Loop			Round Rock	TX	78681	R475429
T2-120	318	T2		Schuh	Tiffani & Danny L		4101 Sapphire Loop			Round Rock	TX	78681	R475428
T2-121		T2		Senger	John A & Wanda L		3908 Crest Ln			Round Rock	TX	78681-2426	R475427
T2-122; Y2-106; Y2-107		T2; Y2		Mdsr Gp Inc			1011 N Lamar Blvd			Austin	TX	78703-4991	R055388; R475476; R542617
T2-123	320	T2		Carawan	Russell E & Brenda G		4012 Sapphire Loop			Round Rock	TX	78681	R475475
T2-124	322	T2		Lovicott	Dominick		4008 Sapphire Loop			Round Rock	TX	78681	R475474
T2-125	324	T2		Story	Mindy K & Larry J Jr		4004 Sapphire Loop			Round Rock	TX	78681	R475473

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
T2-126	326	T2		Strickland	Laurie J & Jerry J		4000 Sapphire Loop			Round Rock	TX	78681	R475472
T2-127	328	T2		Firestone	Sarah M		3996 Sapphire Loop			Round Rock	TX	78681	R475471
T2-128	330	T2		Muto	Daniel L & Christi M		3992 Sapphire Loop			Round Rock	TX	78681-2429	R475470
T2-129	331	T2		Kenneweg	David S & Silvia T		3988 Sapphire Loop			Round Rock	TX	78681	R475469
T2-130	333	T2		Huckins	Walter G	Sr	3984 Sapphire Loop			Round Rock	TX	78681	R475468
T2-131	334	T2		Sherman	Douglas A & Mindi J		3980 Sapphire Loop			Round Rock	TX	78681-2429	R475467
T2-132	332	T2		Patton	David T		3976 Sapphire Loop			Round Rock	TX	78681	R475466
T2-133		T2		Stephens	Brian James & Michelle Kathryn		3972 Sapphire Loop			Round Rock	TX	78681-2429	R475465
T2-134	319	T2		Simpson	Christopher R & Christine K		4013 Sapphire Loop			Round Rock	TX	78681	R475496
T2-135		T2		Francis	Carmen P & George F	IV	6909 N Lakewood Dr			Georgetown	TX	78633-9534	R475438
T2-136	321	T2		Neal	Angela M		4009 Sapphire Loop			Round Rock	TX	78681	R475495
T2-137		T2		Nichols	John J & Rachel L		4007 Crest Cv			Round Rock	TX	78681	R475439
T2-138	323	T2		Akarapu	Prashanth K		4005 Sapphire Loop			Round Rock	TX	78681	R475494
T2-139		T2		Marsa	Robert Lee & Carmen Tym		4011 Crest Cv			Round Rock	TX	78681	R475440
T2-140	325	T2		Dworsky	Mark S		4001 Sapphire Loop			Round Rock	TX	78681	R475493
T2-141		T2		Gomez Anthony D & Lisa M			4015 Crest Cv			Round Rock	TX	78681-2425	R475441
T2-142	327	T2		Kim	Han & Jee Seon		3993 Sapphire Loop			Round Rock	TX	78681	R475492
T2-143	329	T2		Wilson	Kimberly D		3985 Sapphire Loop			Round Rock	TX	78681	R475491
T2-144		T2		Peacock	Linda C & John R		3977 Sapphire Loop			Round Rock	TX	78681	R475490
T2-145		T2		Highlands At Mayfield Ranch Mud			C/O Sue Brooks Littlefield	Armbrust & Brown Pllc	100 Congress Ave Ste 1300	Austin	TX	78701	R523429
T2-147			Mr.	Read	Van Taylor		3901 Lagoona Dr			Round Rock	TX	78681-2359	R453490
T2-147				Read Van Taylor (Le) & Stanton Read			3901 Lagoona Dr			Round Rock	TX	78681-2359	R453490
T2-148		T2		Murillo	Sal Benito Iii		3905 Lagoona Dr			Round Rock	TX	78681	R453491
T2-149	335	T2		Jackson	Henry Hoyt & Sharon B		3909 Lagoona Dr			Round Rock	TX	78681	R453492
T2-150				Stout	Christina S & Matthew L		3820 Octavia Ln			Round Rock	TX	78681	R453489
T2-151		T2		Johnson	Kathleen Elizabeth		3946 Vallarta Ln			Round Rock	TX	78681	R453493
T2-152				Padres	Gustavo E		3816 Octavia Ln			Round Rock	TX	78681-2358	R453488
T2-153		T2		Daniels	Albert & Paula & Michele Elaine Davenpor		3942 Vallarta Ln			Round Rock	TX	78681-2355	R453494
T2-154				Train	Kevin N & Kristina M		3812 Octavia Ln			Round Rock	TX	78681	R453487
T2-155		T2		Agan	John A II & Karon R		3938 Vallarta Ln			Round Rock	TX	78681-2355	R453495
T2-156				Wittenauer	Jason A & Sarah		3808 Octavia Ln			Round Rock	TX	78681	R453486
T2-157		T2		Ornelas	Matthew & Maria N		3934 Vallarta Ln			Round Rock	TX	78681	R453496
T2-158				Hulsey	Lukas & Casandra		3804 Octavia Ln			Round Rock	TX	78681	R453485
T2-159		T2		Vencill	Ryan J & Lindsey		3930 Vallarta Ln			Round Rock	TX	78681	R453497
T2-160				Crooks	Larry W & Judy		3800 Octavia Ln			Round Rock	TX	78681	R453484
T2-161	336	T2		Cubillan	Henrique Jorge & Katharine Jenkins		3949 Vallarta Ln			Round Rock	TX	78681	R453459
T2-162	337	T2		Evangelista	James & Melody		3945 Vallarta Ln			Round Rock	TX	78681	R453460
T2-163	338	T2		Rivas	Kerry		3941 Vallarta Ln			Round Rock	TX	78681	R453461
T2-164	339	T2		Joseph	Norman		3937 Vallarta Ln			Round Rock	TX	78681	R453462
T2-165	340	T2		Benhumea	Carlos Rosales & Sherrie		3933 Vallarta Ln			Round Rock	TX	78681	R453463
T2-166	341	T2		Gharpure	Padmanabh & Vinaya Padmanabh		3929 Vallarta Ln			Round Rock	TX	78681	R453464
T2-167	342	T2		Mcadams	Matthew & Rebecca		3925 Vallarta Ln			Round Rock	TX	78681-2355	R453465
T2-168	343	T2		Taylor	James R		3921 Vallarta Ln			Round Rock	TX	78681	R453466
T2-169	345	T2		Herrmann	John & Moria		3917 Vallarta Ln			Round Rock	TX	78681-2355	R453467
T2-170	344	T2		Bailey	Gilbert R III & Cindy J		3913 Vallarta Ln			Round Rock	TX	78681	R453468
T2-171		T2		Amman	Suzanne T		3909 Vallarta Ln			Round Rock	TX	78681	R453469
T2-172				Connelly	Christopher B & Kimberly R		3905 Vallarta Ln			Round Rock	TX	78681-2355	R453470
T2-173; T2-187; T2-234; T2-235; T2-257; T2-286; T2-293; U2-038; U2-043; U2-052; U2-070		T2; U2; U5		Preserve At Stone Oak Owners Association Inc			C/O Goodwin Management, Inc	PO Box 203310		Austin	TX	78720-3310	R423778; R423810; R423830; R423835; R423887; R423901; R423904; R454485; R454516; R454550; R454551
T2-174				Hoffman	Chad B & Heather A		3837 Castle Rock Cv			Round Rock	TX	78681	R454526

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
T2-175				Raguraman	Divya & Harish Krishnan		7759 Brompton Dr			Darien	IL	60561-4357	R454525
T2-176		T2		Denbar Michele Tr Of Michele Denbar Trust			366 Appaloosa Run			Liberty Hill	TX	78642-3862	R454524
T2-177	347	T2		Waits	Daryl J & Barbara		3825 Castle Rock Cv			Round Rock	TX	78681	R454523
T2-178	346	T2		Carrillo	Salomon C & Yolanda		3821 Castle Rock Cv			Round Rock	TX	78681-2368	R454522
T2-179	348	T2		Payne	Marshall Scott Sr & Sylvia Jo		3817 Castle Rock Cv			Round Rock	TX	78681	R454521
T2-180	349	T2		Langley	Gregory Barker		3813 Castle Rock Cv			Round Rock	TX	78681	R454520
T2-181	350	T2		Wiesman	Justin & Kimberly		8308 Jancy Dr			Austin	TX	78750	R454519
T2-183	353	T2		Grant	Gary Douglass		3801 Castle Rock Cv			Round Rock	TX	78681-2368	R454517
T2-184	351	T2		Navarrete	Antonio A & Rosa I		3826 Castle Rock			Round Rock	TX	78681	R454538
T2-185		T2		Kim	Jae & Mina		610 Eyre Cir			Placentia	CA	92870-4276	R454537
T2-186				Ramsey	Tracy		3834 Castle Rock Cv			Round Rock	TX	78681-2368	R454536
T2-188; T2-192; T2-200; T2-201; T2-202; T2-203		T2		Highlands At Mayfield Ranch Master Community Inc			PO Box 342585			Austin	TX	78734-0044	R523430; R523431; R523433; R523434; R528389; R528400
T2-189; T2-190; T2-191; T2-193; T2-194; T2-195; T2-196; T2-197; T2-198; T2-199; T2-304; T2-305; U5-001; W5-001; W5-006		B1; E6; T2; U2; U5		Hmr Holdings Inc			1011 N Lamar Blvd			Austin	TX	78703	R040295; R512094; R523612; R528390; R528391; R528392; R528393; R528394; R528395; R528396; R528397; R528398; R528399; R534650; R535000
T2-204	380	T2		Calvo	Benjamin		3749 Bainbridge St			Round Rock	TX	78681	R523436
T2-205	382	T2		Cassidy	Michael J & Patricia L Waters		202 Walton Way	Ste 192-143		Cedar Park	TX	78613-7044	R523437
T2-206	384	T2		Bagh	Fares & Abeer		5600 Gorahm Glen Ln			Austin	TX	78739	R523438
T2-207	386	T2		Stallsmith	Robert L & Roena M		3737 Bainbridge St			Round Rock	TX	78681	R523439
T2-208	388	T2		Scott	Lindsey Marie & Denise Marks		3733 Bainbridge St			Round Rock	TX	78681	R523440
T2-209	390	T2		Telotta	Jude Neil & Jo Lea		3729 Bainbridge St			Round Rock	TX	78681	R523441
T2-210	392	T2		Moore	Samuel A		3725 Bainbridge St			Round Rock	TX	78681	R523442
T2-211	394	T2		Farber	Barry		3721 Bainbridge St			Round Rock	TX	78681	R523443
T2-212	396	T2		Adams	Rebecca G		3717 Bainbridge St			Round Rock	TX	78681	R523444
T2-213	398	T2		Lee	Emily M & Evelyn S Lee		824 Livingston Ct			Naperville	IL	60540	R523445
T2-214	400	T2		Cuevas	Manuel		3709 Bainbridge St			Round Rock	TX	78681	R523446
T2-215	402	T2		Gonzales	Eric & Jimmy & Romona		3705 Bainbridge St			Round Rock	TX	78681	R523447
T2-216	403	T2		Rodriguez	Victor & Gloria G	III	3701 Bainbridge St			Round Rock	TX	78681	R523448
T2-217	381	T2		Hignite	Christopher M & Cynthia P		3750 Bainbridge St			Round Rock	TX	78681	R523449
T2-218	383	T2		Blackwell	Christopher D & Rebecca		3746 Bainbridge St			Round Rock	TX	78681	R523450
T2-219	385	T2		Brooks	William Roger & Vicki Lee		3742 Bainbridge St			Round Rock	TX	78681	R523451
T2-220	387	T2		Guaydacan	Christopher S & Gina		3736 Bainbridge St			Round Rock	TX	78681	R523452
T2-221	389	T2		Tran	Nicole		3730 Bainbridge St			Round Rock	TX	78681	R523453
T2-222	391	T2		Imbriano	Michael Jr & Christine Maria		3726 Bainbridge St			Round Rock	TX	78681-2472	R523454
T2-223	393	T2		Oldendorf	Ashton Todd & Amy Lyon		3722 Bainbridge St			Round Rock	TX	78681-2472	R523455
T2-224	395	T2		Ritchie	Shannon & Laura		3716 Bainbridge St			Round Rock	TX	78681	R523456
T2-225	397	T2		Widlowski	Rebecca Cristina		3714 Bainbridge St			Round Rock	TX	78681	R523457
T2-226	399	T2		Nivault	Stanis & Alice Nemeth-Nivault		3710 Bainbridge St			Round Rock	TX	78681-2472	R523458
T2-227	401	T2		Baker Dan N & Linda K Trustees Of The Baker Living Trust-2006			3706 Bainbridge St			Round Rock	TX	78681-2472	R523459
T2-228		T2		Laudenslager	Michael Jon & Eileen Mccabe		3721 Hermann St			Round Rock	TX	78681	R523465
T2-229		T2		Mckenna	Ashley		3717 Hermann St			Round Rock	TX	78681	R523464
T2-230		T2		Simmons	Violet		3713 Hermann St			Round Rock	TX	78681	R523463
T2-231		T2		Johnson	Chris & Brandy		3709 Hermann St			Round Rock	TX	78681-2473	R523462
T2-232		T2		Jones	Justice & Carrie		3705 Hermann St			Round Rock	TX	78681-2473	R523461

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
T2-233		T2		Kougl	Jonathan Henry		The Cottage, Church St	Eckington		United Kingdom Wr 103An			R523460
T2-236				Quezada	Juan R & Araceli		3718 Cap Rock Trl			Round Rock	TX	78681-2372	R454490
T2-237	354	T2		Margasahayam	Srinivas & Rajeshwari Gangapur		1260 Briaberry Ct			San Jose	CA	95131	R454491
T2-238				Clifton	William Ross & Debbie Ann		3716 Cap Rock Trl			Round Rock	TX	78681	R454489
T2-239	356	T2		Olson	Tyler J & Amber N		PO Box 2023			Bellingham	WA	98227-2023	R454492
T2-240				Colley	Jon D & Robbin C		3714 Cap Rock Trl			Round Rock	TX	78681-2372	R454488
T2-241	358	T2		Bokka	Anusha		3774 Castle Rock Dr			Round Rock	TX	78681	R454493
T2-242				Koech	Catherine L		3712 Cap Rock Trl			Round Rock	TX	78681-2372	R454487
T2-243	360	T2		Chang	Elena & Diana		3507 Palmilla Dr Unit 2037			San Jose	CA	95134	R454494
T2-244	362	T2		Morin	Janie		3770 Castle Rock Dr			Round Rock	TX	78681-2267	R454495
T2-245		T2		Griffin	Stellare		3816 Blue Mountain Path			Round Rock	TX	78681	R423940
T2-246	365	T2		Sigmon	Michael		3818 Blue Mountain Path			Round Rock	TX	78681	R423939
T2-247		T2		Wilson	Tory L & Stephanie C		3817 Blue Mountain Path			Round Rock	TX	78681	R423925
T2-248	369	T2		Marsac	Cynthia E		3819 Blue Mountain Path			Round Rock	TX	78681-2268	R423924
T2-249	372	T2		Qin	Jiande & Min Wang And Liwen Qin		2816 Old Course Dr			Austin	TX	78732	R423923
T2-250	374	T2		Barber	Melinda Kay		3752 Castle Rock Dr			Round Rock	TX	78681	R423922
T2-251	355	T2		Kirby	Kristina R		3777 Castle Rock Dr			Round Rock	TX	78681	R454484
T2-252	357	T2		Gleichman	David Kyle & Lauren		3775 Castle Rock Dr			Round Rock	TX	78681	R454483
T2-253	359	T2		Stow	Terence Edwin & Ingrid Christina		7251 Sarsaparilla Dr			Corona	CA	92881-4135	R454482
T2-254	361	T2		Snyder	James W & Charity L Carver		3771 Castle Rock Dr			Round Rock	TX	78681-2267	R454481
T2-255	363	T2		Yee	Michael Way & Denise Yang Ho		3769 Castle Rock Dr			Round Rock	TX	78681-2267	R454480
T2-256	364	T2		Carr	Charlotte Renee & Terry Lee Johnson		3767 Castle Rock Dr			Round Rock	TX	78681-2267	R454479
T2-258	366	T2		Shingleton	Adam Garrett & Lauren E Shingleton		3765 Castle Rock Dr			Round Rock	TX	78681	R423886
T2-259	367	T2		Matous	Jessica L		1704 Ullrich Ave			Austin	TX	78756	R423885
T2-260	368	T2		Mcauley	Mark Andrew & Penny Elizabeth		3761 Castle Rock Dr			Round Rock	TX	78681	R423884
T2-261	370	T2		Maldonado	Jerry G & Alice Lomas		3759 Castle Rock Dr			Round Rock	TX	78681	R423883
T2-262	371	T2		Crowley	Whitney A		3757 Castle Rock Dr			Round Rock	TX	78681	R423882
T2-263	373	T2		Downs	David & Katy		3755 Castle Rock Dr			Round Rock	TX	78681-2267	R423881
T2-264	375	T2		Heald	Laura R		3753 Castle Rock Dr			Round Rock	TX	78681	R423880
T2-265	376	T2		Anders	Matthew R & Kristen K Yeasley		3751 Castle Rock Dr			Round Rock	TX	78681-2267	R423879
T2-266	377	T2		Shirilla	Matthew & Shawn Dempsey		3749 Castle Rock Dr			Round Rock	TX	78681	R423878
T2-267	379	T2		Mendoza	Jesus & Maria P		3747 Castle Rock Dr			Round Rock	TX	78681-2267	R423877
T2-268	378	T2		Carrales	Aaron Rene & Michaela N Schwab		3745 Castle Rock Dr			Round Rock	TX	78681	R423876
T2-269		T2		Johnson	Adam D		PO Box 1725			Round Rock	TX	78680-1725	R423875
T2-270		T2		Aicler	Sharon		815 E Fremont Ave	Apt 9		Sunnyvale	CA	94087	R423853
T2-271	404	T2		Chang	Carlos & Norma Chang		11012 Fonso Ln			Austin	TX	78748-2919	R423852
T2-272	405	T2		Carrillo	Cindy & John F Galaviz		3646 Spring Canyon Trl			Round Rock	TX	78681-2263	R423851
T2-273	406	T2		Mossholder	Chadwick Wayne		704 Dumont Dr			Richardson	TX	75080	R423850
T2-274	407	T2		Gonzales	Carlos & Rosa E		14701 Ward Ave			Patterson	CA	95363-9493	R423849
T2-275	408	T2		Torres	Richard & Virginia		3652 Spring Canyon Trl			Round Rock	TX	78681	R423848
T2-276	409	T2		Heston	Stanley C	Jr	3654 Spring Canyon Trl			Round Rock	TX	78681-2263	R423847
T2-277	410	T2		Rosales	Julio & Laura Suarez		4204 Cancelo Way			Round Rock	TX	78681	R423846
T2-278	411	T2		Englert	David W & Donna Jean		3658 Spring Canyon Trl			Round Rock	TX	78681-2263	R423845
T2-279	412	T2		Cooper Donald Charles & Marjorie Faye Trustees Of Cooper Family Revocable Trust			2005 Mayfield Dr			Round Rock	TX	78681	R423844
T2-280	413	T2		Birkhead	Rachel		3662 Spring Canyon Trl			Round Rock	TX	78681	R423843
T2-281	414	T2		Sheridan	Catherine A & Anthony M		3664 Spring Canyon Trl			Round Rock	TX	78681-2263	R423842
T2-282	415	T2; U2; U5		Rhames	Amy Linette & Nicholas R		3666 Spring Canyon Trl			Round Rock	TX	78681	R423841
T2-283	416	T2; U2; U5		Smith	William Larry & Jean Cecelia		3668 Spring Canyon Trl			Round Rock	TX	78681-2263	R423840
T2-284	417	T2; U2; U5		Nettle	James		3670 Spring Canyon Trl			Round Rock	TX	78681	R423839
T2-285	418	T2		Matheny	Heather & Bradley		3641 Spring Canyon Trl			Round Rock	TX	78681	R423905
T2-287	419	T2		Buzzell	David & Mary		3657 Spring Canyon Trl			Round Rock	TX	78681-2263	R423903
T2-288	420	T2		Tang	Wai-Kwok		4801 S Congress Ave	Unit H4		Austin	TX	78745	R423902
T2-289	421	T2		Teiber	Joseph F	III	3663 Spring Canyon Trl			Round Rock	TX	78681	R423891

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
T2-290	422	T2	Ms.	Bowman	Angela	Life Estate	3665 Spring Canyon TRL			Round Rock	TX	78681	R423890
T2-290	422	T2	Ms.	Bowman	Ashleigh Rose		3665 Spring Canyon TRL			Round Rock	TX	78681	R423890
T2-290	422	T2		Bowman Angelia & Estate Of Kasein Bowman			3665 Spring Canyon Trl			Round Rock	TX	78681-2263	R423890
T2-291	423	T2		Rivas	Ricardo		2211 Arleen Way			San Jose	CA	95130	R423889
T2-292	424	T2; U2; U5		Venkatesh	Ramamoorthy		3669 Spring Canyon Trl			Round Rock	TX	78681	R423888
T2-294		T2		Sen	Bharati		3655 Hermann St			Round Rock	TX	78681	R530560
T2-295; T2-297; T2-298; T2-299; T2-300; T2-302; T2-303; T2-307		T2; U2; U5		Lennar Homes Of Texas Land & Construction Ltd			12401 Research Blvd	Bldg 1 Ste 300		Austin	TX	78759	R523319; R523369; R530555; R530561; R530563; R530564; R530565; R530566
T2-296		T2		Raju	Tyrone D & Georgine		3647 Hermann St			Round Rock	TX	78681	R530562
T2-301		T2		Lowrey	Douglas A & Lori		3627 Hermann St			Round Rock	TX	78681	R530567
T5-002	1151	E4; F4; F4a; G4; H4; I4; T5		Rutledge	Mary Frances		1805 Sam Bass Rd			Round Rock	TX	78681	R055237
U-001		U; V; W; Y		Pyle Larry J & Doris M Trustees Of Pyle Revocable Living Trust			505 Granger Rd			Georgetown	TX	78626	R032137
U-002		U; V; W; Y		Pyle	Roger W		621 County Road 175			Leander	TX	78641-1641	R392186
U-003	47	T; U; V; W		Brodhecker	John Wayne & Jody M		301 County Road 175			Leander	TX	78641-1640	R032141
U1-001; U1-003; U1-004; U1-005; U1-007; U1-009; U1-010; U1-031; U1-032; U1-033; V1-006; V1-007; V1-009; V1-010; V1-012; V1-013; V1-014; V1-016; V1-017; V1-020; V1-024; V1-025; V1-027; V1-028; V1-029; V1-039; V1-040; V1-042; V1-043; V1-045; V1-046; V1-050; V1-051; V1-052; V1-053; V1-054; V1-056; V1-057; V1-058; V1-059; V1-060; V1-061; V1-062; X1-001	177; 183	E5; G5; H5; U1; U1a; V1; V1a; W1; X1; Y1		Felder M/I Caballo Ranch Llc			6414 River Place Blvd	100		Austin	TX	78730	R535384; R535385; R535386; R535388; R535389; R535391; R535393; R535394; R535396; R535398; R535415; R535417; R535419; R535420; R535421; R535423; R535425; R535426; R535427; R535429; R535431; R535432; R535438; R535441; R535442; R535444; R535449; R535450; R535451; R535452; R535460; R535461; R535462; R535463; R535464; R535465; R535466; R535468; R535469; R535473; R535474; R538543; R538544; R538545
U1-006		U1		Pulluru	Jagan Mohan & Shiva Priya		3014 Paseo De Charros			Leander	TX	78641-2747	R535416
U1-011; U1-036; V1-005; V1-022; V1-026; V1-031; V1-035; V1-038; V1-047	172; 178; 180; 186	E5; G5; H5; U1; V1; V1a; W1; X1		M/I Homes Of Austin Llc			6801 N Capital Of Texas Hwy	Ste 1		Austin	TX	78731-1781	R522618; R522620; R535383; R535399; R535433; R535439; R535440; R535446; R535448
U1-012	168	U1; U1a		Smith	Karl & Karen Glance-Smith		3011 Paseo De Charros			Leander	TX	78641-2747	R522630
U1-013		U1		Zhang	Limin & Guoya He		3008 Paseo De Charros			Leander	TX	78641	R522617
U1-014	167	U1; U1a		Wempe	Charles G & Meagan L		3009 Paseo De Charros			Leander	TX	78641-2747	R522629
U1-015		U1		Sakhamuri	Kalyan		3006 Paseo De Charros			Leander	TX	78641	R522616
U1-016	166	U1; U1a		Mack	Lee Carson		3007 Paseo De Charros			Leander	TX	78641	R522628
U1-017		U1		Watts	Lavaughn F Jr & Janice Kay		3004 Paseo De Charros			Leander	TX	78641	R522615
U1-018	165	U1; U1a		Farmen	Marc L & Jennifer A		3005 Paseo De Charros			Leander	TX	78641	R522627
U1-019		U1		Voss	William B		3002 Paseo De Charros			Leander	TX	78641	R522614
U1-020	164	U1; U1a		Holland Jr	George Curtis & Sandra S		3003 Paseo De Charros			Leander	TX	78641	R522626
U1-021		U1		Tutor	Keith & Christine A		3000 Paseo De Charros			Leander	TX	78641	R522613
U1-022	163	U1; U1a		Raby	Matt W & Julie		3001 Paseo De Charros			Leander	TX	78641	R522625
U1-023		U1		Vu	Viet & Thuvan		2319 Manada Trl			Leander	TX	78641	R522592

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
U1-024	162	U1		Stanton	Edward & Ivy Stanton & Delma Ahlborn		2321 Manada Trl			Leander	TX	78641	R522593
U1-025	160	U1		Marcy	Steven A		2401 Manada Trl			Leander	TX	78641	R522594
U1-026	159	U1		Mathew	Babu & Sosamma		4417 Pebble Beach Dr			League City	TX	77573	R522595
U1-027	161	U1; U1a		Acosta	Courtney Beth & Mario I		2405 Manada Trl			Leander	TX	78641	R522596
U1-029; V1-049		L5; R1; U1; U1a; V1; V1a		Burleson Ranches Ltd & Mary Frances Roberts			28217 Honeysuckle Dr			Damascus	MD	20872-1314	R392187; R392188
U1-030		B2; L5; R1; U1; U1a		Burleson Ranches Ltd & Mfbrgp Llc & Est Of Roger Aaron Burleson Sr			28217 Honeysuckle Dr			Damascus	MD	20872-1314	R485248
U1-030		B2; L5; R1; U1; U1a		Burleson Ranches, Ltd			28217 Honeysuckle Dr			Damascus	MD	20872-1314	R485248
U1-030		B2; L5; R1; U1; U1a	Ms.	Roberts	Mary Frances Burleson		28217 Honeysuckle Dr			Damascus	MD	20872-1314	R485248
U1-035				Gatling	Roy M & Maria L		3011 Palominos Pass			Leander	TX	78641	R522619
U1-037				Bennette	Gina Black		3007 Palominos Pass			Leander	TX	78641	R522621
U1-038				Lei	U-Peng & Mankee Anna Yu		3005 Palominos Pass			Leander	TX	78641	R522622
U1-039				Fletcher	Mark D & Linda R		3003 Palaminos Pass			Leander	TX	78641	R522623
U2-001	477	U2		Jc & Lore Llc			3208 Pine Needle Cv			Round Rock	TX	78681	R441266
U2-002	476	U2		Richardson	Craig & Janell		3204 Winding River Trl			Round Rock	TX	78681	R441267
U2-003	475	U2		Escobar	Albert Q & Joselito S Quirap		3208 Winding River Trl			Round Rock	TX	78681-1135	R441268
U2-004	473	U2		Soria	Everardo & Jennifer		3212 Winding River Trl			Round Rock	TX	78681-1135	R441269
U2-005	474	U2		Marquez	Jesus Ramos & Hildelisa V		3216 Winding River Trl			Round Rock	TX	78681	R441270
U2-006		U2		Mcclarney	Matthew A		3220 Winding River Trl			Round Rock	TX	78681	R441271
U2-007; U2-016; U2-021; U2-029; U2-033; W2-049; W2-072; W2-077; W2-078; W2-083; W2-087; W2-097; W2-108; W2-112		M5; N5; U2; W2; W2a		Preserve At Stone Oak Owners Assoc			C/O Goodwin Management, Inc	PO Box 203310		Austin	TX	78720-3310	R441154; R441165; R441182; R441186; R441199; R441200; R441201; R441207; R441210; R441245; R441291; R441300; R441301; R441319
U2-008	470	U2		Hickman	Austin		4105 Whitecrest Cv			Round Rock	TX	78681	R441273
U2-009	472	U2		Carrillo	Jose & Carolyn		4109 Whitecrest Cv			Round Rock	TX	78681-1134	R441274
U2-010	471	U2		Manley	John E & Patricia W		4113 Whitecrest Cv			Round Rock	TX	78681-1134	R441275
U2-011	469	U2		Zhu	Bin		8728 Wafer Ash Way			Austin	TX	78750	R441276
U2-012	468	U2		Maye	David & Julie		4116 Whitecrest Cv			Round Rock	TX	78681	R441277
U2-013	467	U2		Mcgowan	Dilton & Lucia T	II	4112 Whitecrest Cv			Round Rock	TX	78681-1134	R441278
U2-014	466	U2		Chelluri	Sriram & Padmini		267 Loucks Ave			Los Altos	CA	94022	R441279
U2-015		U2		Reush	Michael & Stephanie		4104 Whitecrest Cv			Round Rock	TX	78681	R441280
U2-017		U2		Folts Robert & Tina M & Kelly F & Tina M			4101 Pebble Ridge Cv			Round Rock	TX	78681	R441282
U2-018	464	U2		Guzman	Ivan		4105 Pebble Ridge Cv			Round Rock	TX	78681	R441283
U2-019	465	U2		Walton	Jeffrey Alan		4109 Pebble Ridge Cv			Round Rock	TX	78681	R441284
U2-020	463	U2		Garcia	Nathan R & Andrea M		4113 Pebble Ridge Cv			Round Rock	TX	78681-1138	R441285
U2-022	462	U2		Satterwhite	Ryan B & Valerie M		4117 Pebble Ridge Cv			Round Rock	TX	78681	R441286
U2-023	461	U2		Thurman	Kevin J & Melissa Jean		4121 Pebble Ridge Cv			Round Rock	TX	78681	R441287
U2-024	460	U2		Hoang	Bao		4125 Pebble Ridge Cv			Round Rock	TX	78681-1138	R441288
U2-025		U2		Johnson	Reshmi E & Philip L		4120 Pebble Ridge Cv			Round Rock	TX	78681	R441293
U2-026		U2		Quinteros	Edgar R & Doris B		4124 Pebble Ridge Cv			Round Rock	TX	78681	R441292
U2-027	459	U2		Cechura	Linda		4129 Pebble Ridge Cv			Round Rock	TX	78681	R441289
U2-028	458	U2		Devillier	Matthew A		4133 Pebble Ridge Cv			Round Rock	TX	78681-1138	R441290
U2-030	455	U2		Cole	Shannon L & Angela M		4139 Rocky Mountain Trl			Round Rock	TX	78681-1139	R441299
U2-031	456	U2		Mysore	Naveen Nagaraja & Rajani Desai		1612 Greenside Dr			Round Rock	TX	78665	R441298
U2-032	457	U2		Scott	Mary & Michael		4131 Rocky Mountain Trl			Round Rock	TX	78681	R441297
U2-034	452	U2		Prestridge	Derek		4140 Rocky Mountain Trl			Round Rock	TX	78681	R441246
U2-035	451	U2		Lozano	Susan R		4136 Rocky Mountain Trl			Round Rock	TX	78681	R441247
U2-036	453	U2		Buffington	Sean A		4132 Rocky Mountain Trl			Round Rock	TX	78681	R441248
U2-037	454	U2		Koncak	Paul Jacob & Keri L		4128 Rocky Mountain Trl			Round Rock	TX	78681	R441249
U2-039	448	U2		Thompson	Richard		3267 Arroyo Bluff Ln			Round Rock	TX	78681-2259	R423777
U2-040	447	U2		Terra	Gregory R & Michelle L		3265 Arroyo Bluff Ln			Round Rock	TX	78681-2259	R423776
U2-041	449	U2		Allen	Jared & Bobi		3263 Arroyo Bluff Ln			Round Rock	TX	78681	R423775

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
U2-042	450	U2		Hagy	Courtney		3261 Arroyo Bluff Ln			Round Rock	TX	78681-2259	R423774
U2-044	446	U2		Crane	John Michael		3268 Arroyo Bluff Ln			Round Rock	TX	78681	R423779
U2-045	445	U2		Hollingsworth Living Trust			3266 Arroyo Bluff Ln			Round Rock	TX	78681-2259	R423780
U2-046	444	U2		Holiman	Frank W & Jennifer S		3264 Arroyo Bluff Ln			Round Rock	TX	78681-2259	R423781
U2-047	443	U2		Maryott	Laura A		3262 Arroyo Bluff Ln			Round Rock	TX	78681	R423782
U2-048	441	U2		Heidenheimer	Jay & Cindy G		3213 Foothills Trl			Round Rock	TX	78681-2261	R423795
U2-049	442	U2		Simmons	Sheila R & James R Ledford Iii		3215 Foothills Trl			Round Rock	TX	78681	R423796
U2-050	440	U2		Naranjo	Erin Dawn & Jose Luis		3217 Foothills Trl			Round Rock	TX	78681	R423797
U2-051	439	U2		Wood J Trustee Of Foothills Trust			211 S State College Blvd	318		Anaheim	CA	92806	R423798
U2-053	438	U2		Hallam	Douglas A & Darin A		3221 Foothills Trl			Round Rock	TX	78681	R423799
U2-054	437	U2		Gole	Suzie L		3223 Foothills Trl			Round Rock	TX	78681-2261	R423800
U2-055	436	U2		Zoellner	Matthew & Sandra		3225 Foothills Trl			Round Rock	TX	78681	R423801
U2-056	435	U2		Pirotina	Alfred C & Alyson M		3227 Foothills Trl			Round Rock	TX	78681-2261	R423802
U2-057	434	U2		Greene	Michael J & Shanna W		3229 Foothills Trl			Round Rock	TX	78681-2261	R423803
U2-058		U2		Bardsley	Jennifer M & Todd R		3231 Foothills Trl			Round Rock	TX	78681	R423804
U2-059		U2		Pokhriyal	Jai Prakash & Devika Pokhriyal		4600 Monterey Oaks Blvd	Apt 1012		Austin	TX	78749-4329	R423805
U2-060	433	T2; U2; U5		Esler	Pat Y & Jenny A		3686 Spring Canyon Trl			Round Rock	TX	78681-2263	R423806
U2-061	432	T2; U2; U5		Miller	Randall K Sr & Susan L		3684 Spring Canyon Trl			Round Rock	TX	78681	R423807
U2-062	431	T2; U2; U5		Brady 1995 Trust			10108 Valderrama Dr			Austin	TX	78717-3849	R423808
U2-063	430	T2; U2; U5		Green	Brian D & Janet		3680 Spring Canyon Trl			Round Rock	TX	78681	R423809
U2-064	429	T2; U2; U5		Gp Properties Llc-Series Spring Canyon			4017 Chancery Ct			Round Rock	TX	78681-2324	R423831
U2-065	428	T2; U2; U5		Sanchez	Isaac Armand & Cortney June Blumberg		3676 Spring Canyon Trl			Round Rock	TX	78681	R423832
U2-066		T2; U2; U5		Jackson	Joe & Erin		3683 Spring Canyon Trl			Round Rock	TX	78681	R423824
U2-067	427	T2; U2; U5		Gaur	Nitin & Rita		3302 Cantera Way			Round Rock	TX	78681	R423825
U2-068	426	T2; U2; U5		Range	Mark E		3679 Spring Canyon Trl			Round Rock	TX	78681	R423833
U2-069	425	T2; U2; U5		Crain	James A & Cheryl E		3677 Spring Canyon Trl			Round Rock	TX	78681	R423834
U3-004		N3; U3		City Of Austin	Cedar Park & Round Rock		PO Box 1088			Austin	TX	78767-1088	R318553
U3-005	1017	N3; U3		Fisher	Cecil W	Jr	1900 Crosscreek Trl			Round Rock	TX	78681-1816	R055157
U3-006		U3	Ms.	Buschow	Joni Lynn		208 Little Lake Rd			Hutto	TX	78634-5155	R055160
U3-006		U3	Mr.	Buschow	Monte Craig		208 Little Lake Rd			Hutto	TX	78634-5155	R055160
U3-006		U3	Mr.	Buschow	Paul Eric		208 Little Lake Rd			Hutto	TX	78634-5155	R055160
U3-006		U3	Mr.	Buschow	Paul Eric		Independent Executor of the Estate of Janis Audrey Seay, Deceased	208 Little Lake RD		Hutto	TX	78634-5155	R055160
U3-006		U3	Ms.	Fogle	Charlotte Lee		208 Little Lake Rd			Hutto	TX	78634-5155	R055160
U3-006		U3	Ms.	Owens	Heather Lea		208 Little Lake Rd			Hutto	TX	78634-5155	R055160
U3-006		U3		Seay	Michael E & Debora Webb Et Al		1 Tiffany Trl			Round Rock	TX	78681	R055160
U3-006		U3	Mr.	Seay	Michael Earl		1 Tiffany Trail			Round Rock	TX	78681	R055160
U3-006		U3	Ms.	Stanford	Dorothy Lynn		1502 Pecan Street			Cedar Park	TX	78613	R055160
U3-006		U3	Mr.	Stanford	Frederick Leland		208 Little Lake Rd			Hutto	TX	78634-5155	R055160
U3-006		U3	Ms.	Stanford-Miller	Deborah Kaye		208 Little Lake Rd			Hutto	TX	78634-5155	R055160
U3-006		U3	Ms.	Webb	Deborah Sue		208 Little Lake Rd			Hutto	TX	78634-5155	R055160
U3-007		U3		Williams	Harry R & Sarah		2009 Crosscreek Trl			Round Rock	TX	78681-1817	R055159
U3-008		U3		Reavis	Marvin W		2001 Crosscreek Trl			Round Rock	TX	78681-1817	R055158
U3-009		F3; U3		Bombarger	Christopher & Cody Waggy		2000 Crosscreek Trl			Round Rock	TX	78681	R055161
U3-010		U3		Houston	Ray		3002 Fox Hollow St			Round Rock	TX	78681-1706	R074878
U3-011		U3		Oh	Jung Min & Janet Ann		3004 Fox Hollow St			Round Rock	TX	78681-1706	R074877
U3-012		U3		Wolf	Karl E & M M		3006 Fox Hollow St			Round Rock	TX	78681-1706	R074876
U3-013		U3		Hughes	Bradford W & Karen D		3102 Fox Hollow St			Round Rock	TX	78681-1708	R074875
U3-014		U3		Long	Michelle G		3104 Fox Hollow St			Round Rock	TX	78681-1708	R074874
U3-015	1016	F3; O3; U3		Coladonato	Mark H & Sophia P Cano		2711 W Old Settlers Blvd			Round Rock	TX	78681-1762	R330704
U4-003; U4-004		O; U4		Posey	Brian C		2730 Granite Creek Dr			Leander	TX	78641-7875	R037181; R473624
U4-005		H6; U4; V4		Raveney	Dale T & Kathleen A		7 Windemere E			Leander	TX	78641-1619	R037179
U4-007; U4-013				Drees Custom Homes Lp			7300 Fm 2222	Bldg 2 Ste 250		Austin	TX	78730	R521150; R521156
U4-008				Goyal	Saurabh & Neha Agarwal		917 Purple Moor Pass			Leander	TX	78641	R521155
U4-009				Boyd	Jesse James	III	913 Purple Moor Pass			Leander	TX	78641	R521154
U4-012				Broden	Donna		901 Purple Moor Pass			Leander	TX	78641	R521151
U4-014				Sieber	John Robert		2904 Silver Fountain Dr			Leander	TX	78641	R521149
U4-015				Van Dyke	Murray & Kathy Van Effen		2900 Silver Fountain Dr			Leander	TX	78641	R521148
U4-016				Moulinie	Javier A & Ariadna Aida		920 Purple Moor Pass			Leander	TX	78641	R521187
U4-018				Hendricks	Amber		908 Purple Moor Pass			Leander	TX	78641	R521189

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
U4-019				Sreerama	Tejesvi		904 Purple Moor Pass			Leander	TX	78641	R521190
U4-020				Bayer	Sean & Amanda Boswell		900 Purple Moor Pass			Leander	TX	78641-2876	R521191
U4-021				Bontu	Chandra Sekhar		913 Feather Reed Dr			Leander	TX	78641	R521195
U4-023				Daniels	David A		905 Feather Reed Dr			Leander	TX	78641	R521193
V1-001		V1; X1		North	Jason & Karine		3314 Vaquero Ln			Leander	TX	78641	R535379
V1-002	189	V1; X1		Dunham	Wallace Scott & Marie R		3316 Vaquero Ln			Leander	TX	78641	R535380
V1-003	188	H5; V1; W1; X1		Wood	Steven & Crystal		3318 Vaquero Ln			Leander	TX	78641-3263	R535381
V1-004	187	E5; G5; H5; V1; V1a; W1; X1		Berger	Jamie M & Benjamin L		3320 Vaquero Ln			Leander	TX	78641	R535382
V1-011	184	V1		Davenport	Samuel & Domicea J Everston		2303 Vaquero Cv			Leander	TX	78641	R535390
V1-015	182	V1; V1a		Hopkins	John R & Karen B		2306 Ponderosa Pass			Leander	TX	78641	R535395
V1-018		V1		Tambalkar	Omkar & Archana Parikh		2307 Ponderosa Pass			Leander	TX	78641	R535475
V1-019	181	V1; V1a		Zissler	Dennis F & Bethany		3207 Paseo De Charros			Leander	TX	78641	R535397
V1-030	176	V1; V1a		Jackson	Brian F		3119 Paseo De Charros			Leander	TX	78641	R535437
V1-033		V1		Poe	Shawn & Angela M		3114 Paseo De Charros			Cedar Park	TX	78613	R535447
V1-034	174	V1; V1a		Francis	David & Mollie A		3115 Paseo De Charros			Leander	TX	78641	R535435
V1-036	173	V1; V1a		Krohn	Marc		3113 Paseo De Charros			Leander	TX	78641	R535434
V1-041		V1		Gorthy	Suryanarayana & Suneetha Bhagavutula		3106 Paseo De Charros			Leander	TX	78641-3259	R535443
V1-044	171	U1; U1a; V1; V1a		Dyke	Heather Lynn		3105 Paseo De Charros			Leander	TX	78641	R535430
V1-048	170	U1; U1a; V1; V1a		Yost	Gary William & Marie Linet Mcclure		3101 Paseo De Charros			Leander	TX	78641	R535428
V1-055				Bell	Jonathan D & Amber J		3115 Palominos Pass			Leander	TX	78641	R535459
V4-001; V4-002	50	I1; J1; T4; V4; W; W4; X; X4; Y		Stence	Jesse W		650 County Road 175			Leander	TX	78641	R032132; R032133
V4-004	54	V4		Gerik	Zachary K & Denae C		3116 Wedgescale Pass			Leander	TX	78641	R513703
V4-005				Whitten	Stephanie		3112 Wedgescale Pass			Leander	TX	78641-1428	R513702
V4-006				Goyani	Rakesh M & Tejal R		3108 Wedgescale Pass			Leander	TX	78641	R513701
V4-008		V4		Lundquist	Dean K & Lauri M		3113 Wedgescale Pass			Leander	TX	78641	R513704
V4-009				Niehaus	Geoffrey & Kim		3109 Wedgescale Pass			Leander	TX	78641	R513705
V4-010				Barnes	Matthew D & Leah M		3105 Wedgescale Pass			Leander	TX	78641	R513706
V4-012	53	V4		Borchgardt	Clint A & Andrea D		3116 Rabbits Tail Dr			Leander	TX	78641	R517864
V4-013				Tate	Brian C & Michelle M		3112 Rabbits Tail Dr			Leander	TX	78641	R517863
V4-014				Irwin	Robert Bruce & Julia Elizabeth		3108 Rabbits Tail Dr			Leander	TX	78641	R517862
V4-015				Garcia	George M		3113 Rabbits Tail Dr			Leander	TX	78641	R517865
V4-016				Acosta	Robert G & Teresa L		3109 Rabbits Tail Dr			Leander	TX	78641	R517866
V4-018				Hanna	Joe F & Leila E		3112 Lyme Ridge Dr			Leander	TX	78641	R521133
V4-019				Oprea	Jacob		3108 Lyme Ridge Dr			Leander	TX	78641	R521132
V4-021				Pulluru	Jotheendra H & Sukanya A		3001 Silver Fountain Dr			Leander	TX	78641-3404	R521143
V4-023				Gwin Jon Alan & Julia C Gwin Trustees Of Jon & Julia Gwin Family Trust			2913 Silver Fountain Dr			Leander	TX	78641	R521145
V4-024				Johnson	Serena Lynn & Roger Patterson		2909 Silver Fountain Dr			Leander	TX	78641	R521146
V4-025				Prokaski	Brian Phillip		2905 Silver Fountain Dr			Leander	TX	78641	R521147
V5-002	153	A2; D2; V5		Walker	Harvey L & Martha J		6700 Outer Ave			Leander	TX	78641-9384	R037965
V5-003		V5		Mouser Properties Llc			Attn: Ed Mouser	3010 County Road 175		Leander	TX	78641	R392201
V5-004	144; 145; 146	V5		Lucksinger	Inc		PO Box 10327			Austin	TX	78766	R381078
V5-005; V5-006	143	T1; V5; W5		Evangelical Lutheran Synod			6 Browns Ct			Mankato	MN	56001	R443005; R443006
V5-007		T1; V5; W5		Wojtowecz	Todd P & Shari K		16617 Ennis Trl			Austin	TX	78717	R321440
W2-001; Y2-002		A3; O5; P5; Q5; W2; W2a; Y2; Z2		Blevco Ii Llc			7144 Valburn Dr			Austin	TX	78731	R346033; R427330
W2-002		W2		Hammock	Sabrina & Russell		3620 Windhill Loop			Round Rock	TX	78681-1101	R361029
W2-003	564	W2		Gonzalez	Beverly		3622 Windhill Loop			Round Rock	TX	78681-1101	R361030
W2-004	563	W2		Peka	Juanita K & Gavin Dale		3624 Windhill Loop			Round Rock	TX	78681	R361031
W2-005	562	W2; W2a		Sosa	Andrea E		3626 Windhill Loop			Round Rock	TX	78681	R361032
W2-006	561	W2; W2a		Pitcher	Ralph K		3628 Windhill Loop			Round Rock	TX	78681-1102	R361033
W2-007	559	W2; W2a		Wachendorf	Christopher J		2162 Maha Pl			Honolulu	HI	96819	R361034
W2-008	558	W2; W2a		Hill	Alan & Laurie		3632 Windhill Loop			Round Rock	TX	78681-1102	R361035
W2-009	556	W2; W2a		Seaton	Ian A & Donna K		3634 Windhill Loop			Round Rock	TX	78681-1102	R361036
W2-010	554	W2; W2a		Hebbe	Joseph H		3636 Windhill Loop			Round Rock	TX	78681-1102	R361037
W2-011	553	W2; W2a		Valle	Gerardo D & Melissa M		3638 Windhill Loop			Round Rock	TX	78681	R361038
W2-012	550	W2; W2a		Raines	John		3640 Windhill Loop			Round Rock	TX	78681	R361039
W2-013	549	W2; W2a		Zhanel	John Aaron		308 Quail Hollow Dr			Hutto	TX	78634	R383985
W2-014	547	W2; W2a		Gray	Katharine		3644 Windhill Loop			Round Rock	TX	78681	R383986

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Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
W2-015	546	W2; W2a		Pembroke Trust			22 Oroville			Irvine	CA	92602-0922	R383987
W2-016	545	W2; W2a		Fugitt David S & Susan M			3648 Windhill Loop			Round Rock	TX	78681-1082	R383988
W2-017		W2; W2a		City Of Round Rock			C/O Planning & Community Dev	101 E Old Settlers Blvd Ste 200		Round Rock	TX	78664-2266	R383992
W2-018	542	W2; W2a		Bahm	Tracy & Fries	TODD	9417 Manitou Springs Ln			Austin	TX	78717	R383989
W2-019	543	W2		Kerr	William & Gabrielle		3652 Windhill Loop			Round Rock	TX	78681	R383990
W2-020	544	W2		Meyer	Lisa		3604 Derby Trl			Round Rock	TX	78681-2320	R383991
W2-021	548	W2		Fellers	Gary & Lisa Zink		3655 Windhill Loop			Round Rock	TX	78681	R384014
W2-022	552	W2		Yates	Lami		3821 Top Rock Ln			Round Rock	TX	78681	R384013
W2-023	551	W2		Clark	Deliesha & Paul		3819 Top Rock Ln			Round Rock	TX	78681	R384012
W2-024		W2		Drum	Hiram & Jennifer		3817 Top Rock Ln			Round Rock	TX	78681	R384011
W2-025		W2		Mckean	Vernon W & Lois W		3818 Top Rock Ln			Round Rock	TX	78681-1081	R383993
W2-026	555	W2		Chow	Chung Kai		9705 Llano Estacado Ln			Austin	TX	78759	R361053
W2-027	557	W2		Arcuri Anthony & Marcia & Jacqueline M Mcgetrick			10017 Lachlan Dr			Austin	TX	78717-4503	R361052
W2-028	560	W2		Gerhardstein	Eric C & Lindsay C		3623 Windhill Loop			Round Rock	TX	78681	R361051
W2-029		W2		Barnes	Sidney P		3619 Windmill Loop			Round Rock	TX	78681	R361050
W2-031		W2; W2a		Continental Homes Austin L P			10700 Pecan Park Blvd	Unit 400		Austin	TX	78750-1227	R400035
W2-032		W2		Dunlap	Robert J		4111 Natural Bridge Ct			Round Rock	TX	78681	R400022
W2-033	539	W2		Olguin	Michel M & Rita		4113 Natural Brg Ct			Round Rock	TX	78681-1116	R400023
W2-034	540	W2		Dimiceli	Jason & Jennifer		4115 Natural Bridge Ct			Round Rock	TX	78681	R400024
W2-035	538	W2; W2a		Mears	Gary D & Brittany E	Jr	4117 Natural Bridge Ct			Round Rock	TX	78681	R400025
W2-036	537	W2; W2a		Nutt	John Hoyt & Angela M		4116 Natural Brg			Round Rock	TX	78681-1116	R400026
W2-037	536	W2; W2a		Shay	Shelly		4114 Natural Bridge Ct			Round Rock	TX	78681	R400027
W2-038	534	W2		Campbell	Michele Diane		4112 Natural Bridge Ct			Round Rock	TX	78681	R400028
W2-039	535	W2		Vasanjee	Sunil Chunilal & Sohfeni Sunil Vasanjee		2253 Hamlet Cir			Round Rock	TX	78664-6132	R400029
W2-040	531	W2		Garres	Tiffany Ann & Michael Paul Abar		4209 Mangrove Cave Ct			Round Rock	TX	78681	R400030
W2-041	532	W2		Blakely	Evelyn		4211 Mangrove Cave Ct			Round Rock	TX	78681	R400031
W2-042	533	W2; W2a		Boss Michael A & Estate Of Monique R Boss			4213 Mangrove Cave Ct			Round Rock	TX	78681	R400032
W2-043	529	W2; W2a		Shaw	Karen K		4212 Mangrove Cave Ct			Round Rock	TX	78681-1117	R400033
W2-044	530	W2		Pixler Edna L Trustee Of The Edna Lucille Pixler Revocable Trust			4208 Mangrove Ct			Round Rock	TX	78681-1117	R400034
W2-046	528	W2		Trinh	Trang X & Santos R Juarez		3901 Rolling Canyon Trl			Round Rock	TX	78681-1130	R441142
W2-047	527	W2; W2a		Christensen	Peter D & Pamela L		3905 Rolling Canyon Trl			Round Rock	TX	78681	R441143
W2-048	526	W2; W2a		Kelley	Douglas M		10416 Cannon Mark Way			Austin	TX	78717	R441144
W2-050	523	W2; W2a		Christensen	Loren C & Marlene D		3913 Rolling Canyon Trl			Round Rock	TX	78681-1130	R441145
W2-051	521	W2; W2a		Opara	Kenneth A		3917 Rolling Canyon Trl			Round Rock	TX	78681	R441146
W2-052	519	W2; W2a		Martinez	Gilbert & Danielle L		3451 Mayfield Ranch Blvd	Unit 331		Round Rock	TX	78681	R441147
W2-053	518	W2		Gole	Jeffrey A		3925 Rolling Canyon			Round Rock	TX	78681-1130	R441148
W2-054	515	W2		Pool	Dorothy		3929 Rolling Canyon Trl			Round Rock	TX	78681	R441149
W2-055	514	W2	Mr.	Payne	Edward Michael		6215 Riverwalk LN	Unit 8		Jupiter	FL	33458	R441150
W2-055	514	W2	Ms.	Payne	Paulette	Life Estate	3933 Rolling Canyon TRL			Round Rock	TX	78681	R441150
W2-055	514	W2		Payne Paulette & The Estate Of Dax Edward Payne			3933 Rolling Canyon Trl			Round Rock	TX	78681	R441150
W2-056	513	W2		Beland	Bo & David		2329 Village View Loop			Pflugerville	TX	78660	R441151
W2-057	510	W2		Kirby	Thomas F & Colleen C		3941 Rolling Canyon Trl			Round Rock	TX	78681-1130	R441152
W2-058	503	W2		Hunter	Jane A		PO Box 204354			Austin	TX	78720-4354	R441153
W2-059		W2		Prochaska	Jerry Fred	III	4204 Mangrove Cave Ct			Round Rock	TX	78681	R400036
W2-060	525	W2		Simpson	Amy J		3900 Rolling Canyon Trl			Round Rock	TX	78681	R441224
W2-061	524	W2		Contreras	Lynette & George		3910 Rolling Canyon Trl			Round Rock	TX	78681	R441225
W2-062	522	W2		Sotelo	Rachel H		3916 Rolling Canyon Trl			Round Rock	TX	78681	R441226
W2-063	520	W2		Brannan	Johnny E & June A		3920 Rolling Canyon Trl			Round Rock	TX	78681	R441227
W2-064	516	W2		Fulwiler	Amy Lou		3201 Canyon Ledge Cv			Round Rock	TX	78681-1131	R441228
W2-065	517	W2		Withers	Catherine		200 Parkwest Dr			Cedar Park	TX	78613-3293	R441229
W2-066		W2		Thomas	Joel F Jr & Allyn D		4308 Stone Oak Pl			Round Rock	TX	78681-1133	R441222
W2-067	511	W2		Gunn	Jeffrey & Lara		3204 Canyon Ledge Cv			Round Rock	TX	78681-1131	R441234
W2-068	512	W2		Crowley	Christopher & Honey		3200 Canyon Ledge Cv			Round Rock	TX	78681	R441235
W2-069	505	W2		Beinke	Earl Steven		3839 Noe Ln			Round Rock	TX	78681	R441211
W2-070	504	W2		Reynolds	Chad E & Sunnye M		3215 Blue Ridge Dr			Round Rock	TX	78681	R441212
W2-073	506	W2		Laich	Emily R		3212 Blue Ridge Dr			Round Rock	TX	78681	R441206
W2-074	507	W2		Deleon	Rolando		3208 Blue Ridge Dr			Round Rock	TX	78681	R441205

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
W2-075	508	W2		Levy	Andrew Craig & Melissa Dawn		3204 Blue Ridge Dr			Round Rock	TX	78681-1129	R441204
W2-076	509	W2		Garcia	Jorge H & Maria E Rivera-Garcia		3200 Blue Ridge Dr			Round Rock	TX	78681-1129	R441203
W2-079	501	W2		Witt	Michael D & Georgia W Calloway		4000 Enchanted Rock Cv			Round Rock	TX	78681-1127	R441198
W2-080	499	W2		Abell	Glynda D		4004 Enchanted Rock Cv			Round Rock	TX	78681	R441197
W2-081	500	W2		Rigg	Sean D		4008 Enchanted Rock Cv			Round Rock	TX	78681	R441196
W2-084	498	W2		Pigg	Terry & Ruth M		4021 Enchanted Rock Cv			Round Rock	TX	78681	R441183
W2-085; W2-111		W2		Bradley	Gerald W		4041 Enchanted Rock Cv			Round Rock	TX	78681	R441184; R441187
W2-086		W2		Hudgins	Abbey		4033 Enchanted Rock Cv			Round Rock	TX	78681-1127	R441185
W2-088	497	W2		Theis	Eric Allen		3148 Blue Ridge Dr			Round Rock	TX	78681	R441181
W2-089	496	W2		Allen	Steven Mark		3144 Blue Ridge Dr			Round Rock	TX	78681	R441180
W2-090	495	W2		Leitzel	Hannelore & Robert Smith		3140 Blue Ridge Dr			Round Rock	TX	78681-1128	R441179
W2-091	493	W2		Latifi	Kamal & Deborah L		3136 Blue Ridge Dr			Round Rock	TX	78681-1128	R441178
W2-092	490	W2		Levin	Loralee		3126 Blue Ridge Dr			Round Rock	TX	78681-1128	R441177
W2-093	494	W2; W2a		Hilbert	Stefan		3145 Blue Ridge Dr			Round Rock	TX	78681	R441161
W2-094	492	W2; W2a		Makhija	Vinod & Srinivas Magal & Ashok Thimmappa		11121 Comiso Pala Path			Austin	TX	78762-2409	R441162
W2-095	491	W2; W2a		Lockett	Crystal H		3137 Blue Ridge Dr			Round Rock	TX	78681	R441163
W2-096	489	W2; W2a		Grady	Joseph A		3133 Blud Ridge Dr			Round Rock	TX	78681-1128	R441164
W2-098	488	W2; W2a		Best	Brady A & Elizabeth		3125 Blue Ridge Dr			Round Rock	TX	78681-1128	R441166
W2-099	487	W2; W2a		Cherry	Brandi L		3121 Blue Ridge Dr			Round Rock	TX	78681	R441167
W2-100	486	W2; W2a		Suresh	Asha & Suresh Venukuttan		11105 Jim Thorpe Ln			Austin	TX	78748-2973	R441168
W2-101	484	W2; W2a		Sanders	Bryan Keith		3113 Blue Ridge Dr			Round Rock	TX	78681-1128	R441169
W2-102	482	W2; W2a		Pennick	Ivedean & John F		3109 Blue Ridge Dr			Round Rock	TX	78681-1128	R441170
W2-103	481	W2; W2a		Sigler	Willie Ed	II	3105 Blue Ridge Dr			Round Rock	TX	78681-1128	R441171
W2-104; W2-105	479	W2; W2a		Sawyer	Jason Edward & Angela Jane Alms-Sawyer		3101 Blue Ridge Dr			Round Rock	TX	78681	R441172; R441202
W2-106	478	W2		Hamilton	Horace Emery & Veronica		30222 Live Oak Trl			Georgetown	TX	78633	R441173
W2-107	480	W2		Brisbois	Nicklus & Nancy		3106 Blue Ridge Dr			Round Rock	TX	78681	R441174
W2-109	483	W2		Zetter Adam Trustee Of Adam Zetter Revocable Trust			628 Vereda Del Ciervo Dr			Santa Barbara	CA	93117	R441175
W2-110	485	W2		Jobes	Melissa K		3116 Blue Ridge Dr			Round Rock	TX	78681	R441176
W5-002		B1; E6; U5		Betts	Brent & Suzanne Williams		437 Doe Run			Georgetown	TX	78628	R048278
W5-003		E6		Hmr Holdings Inc & Mendy Willis & Et Al			1011 N Lamar Blvd			Austin	TX	78703-4991	R523965
W5-003		E6		The Highlands at Mayfield Ranch, Ltd			1011 No Lamar Blvd			Austin	TX	78703-4991	R523965
W5-003		E6	Ms.	Willis	Mendy		1011 No Lamar Blvd			Austin	TX	78703-4991	R523965
W5-004		E6		Curtis	Michael C & Iris E		425 Doe Run			Georgetown	TX	78628-9642	R048279
W5-005		E6		Larsen	Berge		C/O Ior Ltd	8Th Fl Salvesen Tower		Aberdeen AB11 5PW			R048280
W5-007		E6		Abram	Terry L		9180 Martin Rd			Clarence Center	NY	14032-9300	R048281
W5-008	152	E6		Stork	Michael Roy & Pamela L		610 Whitetail Dr			Georgetown	TX	78628-9690	R048283
W5-009	151	E6		Neese	Gary		613 Whitetail Dr			Georgetown	TX	78628	R316634
W5-010		E6		Villarreal	Robert H		605 Whitetail Dr			Georgetown	TX	78628-9690	R316635
W5-011		E6		Mintz	Alan K & Susan		105 Buck Ln			Georgetown	TX	78628	R305328
W5-012	150	E6		Olson	Kathleen M & Jeneral B Swindell		109 Buck Ln			Georgetown	TX	78628-7100	R305326
W5-013		E6		Alford	Jason Allen		104 Buck Ln			Georgetown	TX	78628	R305325
W5-014		E6	Ms.	Globaker	Evelyn		105 Axis Deer CV			Georgetown	TX	78628	R305307
W5-014		E6		Globaker	Evelyn (Le) & Kenneth S & Debra L Kelsey		105 Axis Deer Cv			Georgetown	TX	78628	R305307
W5-015	149	E6		Tolbert	William G & Leslie M Ford		109 Axis Deer Cv			Georgetown	TX	78628-7101	R305306
W5-016		E6		Mceuen	Kelly R		104 Axis Deer Cv			Georgetown	TX	78628-7101	R305305
W5-017		E6		Fletcher	George Earl		PO Box 447			Cedar Park	TX	78630-0447	R305301
W5-018	148	E6		Franks	Christina E		109 Mule Deer Cv			Georgetown	TX	78628-7102	R305297
W5-019		E6		Watson	Jeff & Donna J		104 Mule Deer Cv			Georgetown	TX	78628-7102	R305296
W5-020		E6		Knight Robert B & Karen J Trustess Of The Knight Living Trust			253 Faubion Dr			Georgetown	TX	78628	R334689
W5-021		E6		Coleman	Reed P & Julie Rhea		247 Faubion Dr			Georgetown	TX	78628	R334688
W5-022		E6		Rhoades	Richard T & Margaret A		243 Faubion Dr			Georgetown	TX	78628-9685	R334687
W5-023		E6		Mccarthy	Scott L & Bettie W		237 Faubion Dr			Georgetown	TX	78628-9685	R336128
W5-024		E6	Mr.	Griffith	Charlie Lee		C/O Mr Joseph Heaton Griffith	810 Oakwood Dr		Jasper	TX	75951	R395317

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
W5-024		E6		Griffith Charles Lee & Vlb # 415-087978			231 Faubion Dr			Georgetown	TX	78628-9685	R395317
W5-025		E6		Bentley	Bruce E Jr & Linda M		225 Faubion Dr			Georgetown	TX	78628-9685	R038571
W5-029				Williamson County			Attn: Williamson County Auditor 710 S Main St Ste 301			Georgetown	TX	78626-5703	R472265
W5-031	147	E6; T1; V5; W5		Terrell	Lana Jo & Catherine E Mcdargh		2901 County Road 175			Leander	TX	78641	R031576
X-001; Y-003	51	J1; T4; W; W4; X; Y		Cannon 140 Lp			6363 Woodway Dr	Ste 600		Houston	TX	77057-1758	R032138; R496874
X2-003; X2-004		X2		Teco-Westinghouse Motor Co			5100 N Interstate 35	Ste A		Round Rock	TX	78681-2461	R055398; R308130
X5-005		X5		Chapman H L Investments Ltd			PO Box 4109			Cedar Park	TX	78630-4109	R433124
X5-007; X5-008		X5		Hardwood Products & Doors Inc			Joann Luerson Pres	PO Box 645		Leander	TX	78646-0645	R031291; R494296
X5-010; X5-011		X5		Larue 2243 Lp			850 Cr 177			Leander	TX	78641	R048847; R433122
X5-012	12	X5		Buckley	Scott M		C/O Empire Fence	1731 County Road 269		Leander	TX	78641-1517	R432071
X5-013		X5		Rjs Investment Mgt Co Llc			17226 Erna Rd			London	TX	76854	R432070
X5-014		X5		Les Construction Inc			1621 Cr 269			Leander	TX	78641-1513	R516137
X5-017	9	X5		Lutheran Sss & Tbch & Palm Valley Lc			C/O Richard Baland Chief Financial Officer	PO Box 140767		Austin	TX	78714	R375302
X5-018		X5		Weems	Ronnie Lee		315 Rancho Bueno Dr			Georgetown	TX	78628-9520	R367678
Y-001		S; Y; Z	Mrs.	Kennedy	Rebecca		PO Box 608			Georgetown	TX	78627-0608	R539485
Y-001		S; Y; Z		Kennedy	Timothy L		PO Box 608			Georgetown	TX	78627-0608	R539485
Y-002		S; Y		Mma Ranch Limited Partnership			3502 Hillbrook Dr			Austin	TX	78731	R031735
Y-004				Flachs	Brian K & Lisa S		128 Hazeltine Dr			Georgetown	TX	78628-1188	R436850
Y-005				Cannon 140 Lp			6363 Woodway Dr Ste 600			Houston	TX	77057-1758	R031736
Y-006; Y-007	49; 52	W; Y		George	Glenn A		631 County Road 175			Leander	TX	78641-1641	R032136; R514052
Y2-001; Y2-025; Y2-041; Y2-043		A3; A3a; B3; O5; P5; Q5; W2; W2a; Y2; Z2		Stone Oak Homeowners Assn			C/O Goodwin Management, Inc	PO Box 203310		Austin	TX	78720-3310	R361002; R361010; R361011; R361040
Y2-003; Y2-004	628	Y2		Nancy N Rabb Properties Ltd			2604 Sunrise Rd			Round Rock	TX	78665-2497	R427328; R486083
Y2-006	638	A3; P5; Y2; Z2		Parker	John L & Carol L		213 E Adelanta Pl			Round Rock	TX	78681	R511286
Y2-007	637	Y2		Ravulapati	Bharath K & Lakshmi L Pragada		209 E Adelanta Pl			Round Rock	TX	78681	R511285
Y2-008	636	Y2		Engle	Janet Christine		205 E Adelanta Pl			Round Rock	TX	78681	R511284
Y2-009	635	Y2		Bheemineni	Vijay & Anusha Marotu		201 E Adelanta Pl			Round Rock	TX	78681	R511283
Y2-010	634	Y2		Shekhawat	Bhavani Singh		121 E Adelanta Pl			Round Rock	TX	78681	R511282
Y2-011	633	Y2		Palle Balakrishna	Bhaskara		117 E Adelanta Pl			Round Rock	TX	78681	R511281
Y2-012	632	Y2		Lykins	Bruce		113 E Adelanta Pl			Round Rock	TX	78681	R511280
Y2-013	631	Y2		Gomez	Daniel	Jr	109 E Adelanta Pl			Round Rock	TX	78681	R511279
Y2-014	630	Y2		Christian	Jagdish Samuel & Nutan Jagdish		105 E Adelanta Pl			Round Rock	TX	78681-1715	R511278
Y2-015	629	Y2		Bala	Andy		101 E Adelanta Pl			Round Rock	TX	78681	R511277
Y2-016				Tatituri	Raja Kekhar		116 E Adelanta Pl			Round Rock	TX	78681	R511354
Y2-017				Chandrasekaran	Manoj K & Sushma Appalaneni		112 E Adelanta Pl			Round Rock	TX	78681	R511353
Y2-018				Sargent	Nancy		108 E Adelanta Pl			Round Rock	TX	78681	R511352
Y2-019				Akkaraju	Venkata M & Saritha		104 E Adelanta Pl			Round Rock	TX	78681	R511351
Y2-020				Khan	Mohammad Amjadullah & Sobia		100 E Adelanta Pl			Round Rock	TX	78681-1715	R511350
Y2-021				Mohammed	Zorida		108 Brisa Bend Way			Round Rock	TX	78681	R511356
Y2-022				Galinato	Damian D & Norma		104 Brisa Bend Way			Round Rock	TX	78681-1781	R511355
Y2-023				Pradhan	Saket		209 Entrada Way			Round Rock	TX	78681	R511372
Y2-024				Phillips	Gary Phillips & Genevieve E		205 Entrada Way			Round Rock	TX	78681	R511373
Y2-026	620	Y2		Mccaleb	David K & Mary A		3700 Top Rock Ln			Round Rock	TX	78681	R360761
Y2-027	619	Y2		Cooper	Kevin M		3701 Top Rock Ln			Round Rock	TX	78681	R361003
Y2-028	617	Y2		Austin	Jessica & Natasha Guerra		3702 Top Rock Ln			Round Rock	TX	78681	R360978
Y2-029	618	Y2		Magana	Gustavo & Lorena		3703 Top Rock Ln			Round Rock	TX	78681	R361004
Y2-030	615	Y2		Rosema	Danford J & Leslie R		3704 Top Rock Ln			Round Rock	TX	78681-0900	R360979
Y2-031	616	Y2		Candela	Ricardo Jr & Alexandra C		3705 Top Rock Ln			Round Rock	TX	78681-0900	R361005
Y2-032	613	Y2		Zisman	Alan		3706 Top Rock Ln			Round Rock	TX	78681	R360980
Y2-033	614	Y2		Dumlao	Dennis Earl & Patrizia A		3707 Top Rock Ln			Round Rock	TX	78681-0900	R361006
Y2-034	611	Y2		Gonzalez	Osiel & Maria		3708 Top Rock Ln			Round Rock	TX	78681	R360981
Y2-035	612	Y2		Ackley-Smith	Arvella J & Ronald J Smith		3709 Top Rock Ln			Round Rock	TX	78681-0900	R361007
Y2-036	609	Y2		Powers	Doretha M		3710 Top Rock Ln			Round Rock	TX	78681	R360982

Leander-Round Rock 138-kV Transmission Line Project
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Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
Y2-037	610	Y2		Scott	Annette M & Larry T		3711 Top Rock Ln			Round Rock	TX	78681-0900	R361008
Y2-038	608	Y2		Husband	Joseph M & Victoria R		3712 Top Rock Ln			Round Rock	TX	78681-0900	R360983
Y2-039	607	Y2		Freund Holdings Llc			907 Spring Tree St			Round Rock	TX	78681-2545	R361009
Y2-040	606	Y2		Cardona	Carlos Jr & Patricia		3714 Top Rock Ln			Round Rock	TX	78681-0900	R360984
Y2-042	605	Y2		Gonzalez	Andres J & Carol D		3716 Top Rock Ln			Round Rock	TX	78681-0901	R360985
Y2-044	604	Y2		Keese	Clarence E		3718 Top Rock Ln			Round Rock	TX	78681	R360986
Y2-045		Y2		Head	Gregory M & Shannon L		3721 Top Rock Ln			Round Rock	TX	78681-0901	R361012
Y2-046	603	Y2		Mccolley-Maynard	Joyce E & Randy Maynard		3720 Top Rock Ln			Round Rock	TX	78681	R360987
Y2-047		Y2		Wiegand	Joshua & Kristen		3723 Top Rock Ln			Round Rock	TX	78681-0901	R361013
Y2-048	602	Y2		Pena	Marcos G & Diana Anne		3722 Top Rock Ln			Round Rock	TX	78681-0901	R360988
Y2-049	601	Y2		Moore	Michael T & Gail C		3724 Top Rock Ln			Round Rock	TX	78681-0901	R360989
Y2-050	600	Y2		Fulwiler	Jennifer B & Joe L		3726 Top Rock Ln			Round Rock	TX	78681	R360990
Y2-051		Y2		Kirkpatrick	Michele H & Alan E		1319 Ridgfield Loop			Round Rock	TX	78664	R360991
Y2-052		Y2		Brinkmeyer	Linda		3730 Top Rock Ln			Round Rock	TX	78681-0901	R360992
Y2-054				Rosen	Kari Ann & Stanley Paul		100 Calima Cv			Round Rock	TX	78681	R511318
Y2-056	627	Y2		Dayanithi	Praveen Kumar		100 W Adelanta Pl			Round Rock	TX	78681	R511304
Y2-057				Rajagopalan	Sidharth & Ramya Nagarajan		104 Calima Cv			Round Rock	TX	78681	R511319
Y2-058				Gutthikonda	Kishore		105 W Adelanta Pl			Round Rock	TX	78681	R511316
Y2-059	626	Y2		Kuo	Shu-Ru & Jen-Sing Liu		104 W Adelanta Pl			Round Rock	TX	78681	R511305
Y2-060				Alagar	Elizabeth Pil & Carl Michael Formoso		108 Calima Cv			Round Rock	TX	78681	R511320
Y2-061				Narsaria	Vishal		109 W Adelanta Pl			Round Rock	TX	78681	R511315
Y2-062	625	Y2		Sparrow	Tuan & Kimchi		108 W Adelanta Pl			Round Rock	TX	78681-1780	R511306
Y2-063				Shah	Harshil		113 W Adelanta Pl			Round Rock	TX	78681	R511314
Y2-064	624	Y2		Windler	Michael D & Kazuko M		612 Eastmoor Ct			Moore	OK	73160	R511307
Y2-065	623	Y2		Ford	Donald Ray		116 W Adelanta Pl			Round Rock	TX	78681	R511308
Y2-066				Karnay	John C & Gloria Rios		112 Calima Cv			Round Rock	TX	78681	R511321
Y2-067				Patel	Kartik N & Reema Gulati		117 W Adelanta Pl			Round Rock	TX	78681-1780	R511313
Y2-068				Boselah	Michael & Rana		121 W Adelanta Pl			Round Rock	TX	78681	R511312
Y2-069	622	Y2		Wagner	Cameron & Andrea Mills		120 W Adelanta Pl			Round Rock	TX	78681	R511309
Y2-070	621	Y2		Bacon	John		124 W Adelanta Pl			Round Rock	TX	78681	R511310
Y2-071		Y2		Harthcock	William & Joann		128 W Adelanta Pl			Round Rock	TX	78681	R511311
Y2-073				Obilom	Philip I & Cecilia N		4604 Azul Cv			Round Rock	TX	78681-2274	R415874
Y2-074				Beard	James T & Dianne W		4605 Azul Cv			Round Rock	TX	78681-2274	R415875
Y2-075				Pena	William F & Kerri K		4603 Azul Cv			Round Rock	TX	78681	R415876
Y2-076				Mathis	Kevin H & Jolie		4601 Azul Cv			Round Rock	TX	78681	R415877
Y2-077				Algaier	Aaron D & Cami Janel		4500 Corazon Cv			Round Rock	TX	78681-2299	R415878
Y2-078				Coward	Coy Michael & Debra Ella		4502 Corazon Cv			Round Rock	TX	78681	R415879
Y2-079				Shapshak	Michael		4504 Corazon Cv			Round Rock	TX	78681	R415880
Y2-080	599	Y2		Goldson	Alex A & Viola A Jeffery		4219 Palmer Plantation Dr			Missouri City	TX	77459	R415881
Y2-082	598	Y2		Ausbuds Poperties I Llc			Attn: Sushil Sureka	10216 Cassandra Dr		Austin	TX	78717	R415882
Y2-083	597	Y2		Shaw	James C & Shannon L		4505 Corazon Cv			Round Rock	TX	78681-2299	R415883
Y2-084		Y2		Truong	Dinh & Melanie Le		4503 Corazon Cv			Round Rock	TX	78681	R415884
Y2-085				Spears	William David & Phuong Lu		109 Bella Vista			Georgetown	TX	78633	R415885
Y2-086				Kurunthottical Zenin J & Raju Z Trustees Of Kurunthottical Family Living Trust			4200 Lindo Loop			Round Rock	TX	78681	R415912
Y2-088				Figliozzi	Peter C		4100 Lindo Loop			Round Rock	TX	78681	R415910
Y2-089				Cho	Sunhee C		4002 Lindo Loop			Round Rock	TX	78681	R415909
Y2-090				Parker	Jackson Price & Donna Barrett		4000 Lindo Loop			Round Rock	TX	78681-2308	R415908
Y2-091				Featherstone	Larry A & Melanie C		4400 Cierne Cv			Round Rock	TX	78681	R415886
Y2-092	596	Y2		Vasek	Blain L & Melinda Carol		4402 Cierne Cv			Round Rock	TX	78681	R415887
Y2-093	595	Y2		Nichols	Will		4404 Cierne Cv			Round Rock	TX	78681	R415888
Y2-094	594	Y2		Zbm Investment Llc			1517 Jerusalem Dr			Pflugerville	TX	78664	R415889
Y2-095		Y2		Taylor	Cynthia Kay		4405 Cierne Cv			Round Rock	TX	78681	R415890
Y2-096				Hernandez	Joe & Karen		4403 Cierne Cv			Round Rock	TX	78681	R415891
Y2-097				Sampathkumar	Selvakumar & Ramya Rajendran		4003 Lindo Loop			Round Rock	TX	78681	R415892
Y2-098				Park	Soo Kang & Jieun Sim		Hhc 1St Signal	Bde Unit 15271	Box 447	APO	AP	96205	R415893
Y2-099				Bookman	Leroy E III & Rose H		3021 Luminoso Ln E			Round Rock	TX	78681-2275	R415894
Y2-100				Chaukade	Pankaj & Suvarna Shirbhate		3019 E Luminoso Ln			Round Rock	TX	78681	R415895
Y2-101				Franklin	Kevin		3017 Luminoso Ln E			Round Rock	TX	78681-2275	R415896
Y2-102				Eichler	Amy E And Wilburn C Jr & Marilyn Wright		3015 Luminoso Ln E			Round Rock	TX	78681-2275	R415897
Y2-104		Y2		Cuchara Investment Group Ltd			7404 Carissa Cv			Austin	TX	78759	R528774

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
Y2-108		Y2		Preserve At Mayfield Ranch Condominium			C/O Allen Group II, LLC	347 Highway 7 S		Oxford	MS	38655-8248	R522697
Y2-110				Beeman	Larry H & Celia M		4000 Risa Ct			Round Rock	TX	78681-2278	R415845
Y2-111				Wong	Keith		4002 Risa Ct			Round Rock	TX	78681	R415844
Y2-112		Y2		First Star Bank Ssb			PO Box 7			Bremond	TX	76629	R511270
Y2-114				Mccarty	Michael R		4004 Risa Ct			Round Rock	TX	78681-2278	R415843
Y2-115				Baughman	Rita		4100 Risa Ct			Round Rock	TX	78681	R415842
Y2-116				Everton	Jeffrey S		4102 Risa Ct			Round Rock	TX	78681-2277	R415841
Y2-117				Burkacki	Fred & Robert Spellicy		4104 Risa Ct			Round Rock	TX	78681	R415840
Y2-118		Y2		Hatch House Management Company Llc			12916 Zen Gardens Way			Austin	TX	78732-1655	R511271
Y2-119				Gorbet	Monica Marie		3107 Quail Run			Round Rock	TX	78681	R462216
Y2-120				Wilkins	Kenneth E & Catherine T		3109 Quail Run Dr			Round Rock	TX	78681-1240	R462215
Y2-121				Duarte-Ferguson Valerie Trustee Of Revocable Trust			3111 Quail Run			Round Rock	TX	78681	R462214
Y2-122		Y2		Mcmillian	Herbert L & Wanda A		3113 Quail Run Dr			Round Rock	TX	78681-1240	R462213
Y2-123	593	Y2		Cubero	Jorge Alexander		4100 Deer Tract			Round Rock	TX	78681	R462212
Y2-124; Y2-125		Y2		Brushy Creek Mud			16318 S Great Oaks Dr			Round Rock	TX	78681-2506	R462210; R462211
Y2-127				Hickey	Kevin & Michelle Jenkins		3104 Quail Run			Round Rock	TX	78681	R462203
Y2-128				Ephlin	Gary W & Donna M		4101 Deer Tract			Round Rock	TX	78681	R461973
Y2-130				Collier	Trella Jean		3107 Oak Bend Dr			Round Rock	TX	78681-1210	R059991
Y2-131				Frederick	Richard Glenn		3201 Oak Bend Dr			Round Rock	TX	78681-1215	R059990
Y2-132		Y2		Absher	Gary D & Mary L		4202 Deer Tract St			Round Rock	TX	78681-1234	R059944
Y2-133		Y2		Rodriguez	Frank	Jr	801 Flag Creek Dr			Llano	TX	78643	R059943
Y2-134				Evans	Justin Ryan & Rachael		3104 Oak Bend Dr			Round Rock	TX	78681	R059978
Y2-135				Ingram	Kenneth Marvin & Lenessa Caudell		3200 Oak Bend Dr			Round Rock	TX	78681	R059977
Y2-136		Y2		Hagge	Melvin L & Linda M		4206 Deer Tract St			Round Rock	TX	78681-1234	R059942
Y2-137				Pluenneke	Terry L & Judy		4206 Oak Bend Cv			Round Rock	TX	78681-1226	R059979
Y2-138				Kenmar Residential Services Inc			33 Cypress Blvd	Ste 100		Round Rock	TX	78665-1006	R059976
Y2-139		Y2		Stell	Jason C		4300 Deer Tract St			Round Rock	TX	78681-1222	R059941
Y2-140				Strong	Philip Nathan & Lisa Reiley		3103 Elm Trl			Round Rock	TX	78681	R059974
Y2-141				Lovinggood	Jerry L & Carolyn A		3105 Elm Trl			Round Rock	TX	78681-1233	R059975
Y2-142	592	Y2		Carter	Timothy & Cassie		4302 Deer Tract			Round Rock	TX	78681	R059940
Y2-143				Lengefeld	Wendell L		3102 Elm Trl			Round Rock	TX	78681-1231	R059956
Y2-144				Hudson	Alan D		4305 Deer Tract St			Round Rock	TX	78681-1219	R059955
Y2-145	591	Y2		Russell	Robert		4304 Deer Tract			Round Rock	TX	78681	R059939
Y2-146				Hyde	John S & Mary W		3101 Live Oak St			Round Rock	TX	78681-1236	R059953
Y2-147				Perez	Brian		3103 Live Oak St			Round Rock	TX	78681	R059954
Y2-148	590	Y2		Houghton	Danny K		4306 Deer Tract St			Round Rock	TX	78681-1222	R059938
Y2-149	589	Y2		Vega	Gustavo Etux		4308 Deer Tract St			Round Rock	TX	78681-1222	R059937
Y2-149	589	Y2	Mrs.	Vega	Monika		4308 Deer Tract Street			Round Rock	TX	78681-1222	R059937
Y2-150	588	Y2		Plough	Paul C		3104 Live Oak St			Round Rock	TX	78681	R059936
Y2-151	587	Y2		Leedy	Chad & Marcy		3102 Live Oak St			Round Rock	TX	78681	R059935
Y2-152; Y2-153	584; 585; 586	Y2		Westside Church Of Christ Of Williamson County Inc			3300 Fm 1431			Round Rock	TX	78681-1075	R362183; R468297
Y2-156	580	Y2		Kelley	Marilyn M & Douglas L		3413 Inwood Cv			Round Rock	TX	78681-1057	R361329
Y2-157	582	Y2		Harris	Gregory A & Victoria		3411 Inwood Cv			Round Rock	TX	78681-1057	R361328
Y2-158	581	Y2		Walters	Steven S & Vicki R		3409 Inwood Cv			Round Rock	TX	78681-1057	R361327
Y2-159	583	Y2		Hood	John R		3407 Inwood Cv			Round Rock	TX	78681-1057	R361326
Y2-160		Y2		Cobern	Charles L Jr & Anne H		3405 Inwood Cv			Round Rock	TX	78681-1057	R361325
Y2-161				Thompson	Kaye		3612 Flora Vista Loop			Round Rock	TX	78681	R347808
Y2-162				Hanzich	Dana Napper		3608 Flora Vista Loop			Round Rock	TX	78681	R347809
Y2-163	579	Y2		Mechler	Gregory S & Graciela P		3415 Inwood Cv			Round Rock	TX	78681-1057	R361330
Y2-164				Stewart	Kenneth Y & Mary E		3403 Inwood Cv			Round Rock	TX	78681	R361324
Y2-165				Turner	Richard C & Lynn S		3604 Flora Vista Loop			Round Rock	TX	78681-1050	R347810
Y2-166		Y2		Noren	Douglas W & Deborah G		3417 Inwood Cv			Round Rock	TX	78681-1057	R361331
Y2-167				Benton	James D & Joann S		3401 Inwood Cv			Round Rock	TX	78681-1057	R361323
Y2-168				Hemsath	David K & Michelle A		3600 Flora Vista Loop			Round Rock	TX	78681-1050	R361304
Y2-169		Y2		Jones	James & Sharon W		3416 Inwood Cv			Round Rock	TX	78681	R361332
Y2-170		Y2		Anderson	Dean		3414 Inwood Cv			Round Rock	TX	78681	R361333
Y2-171				Federal National Mortgage Association			C/O Ocwen Loan Servicing Llc	1661 Worthington Rd	Ste 100	West Palm Beach	FL	33409	R361340
Y2-172				Dredge	Jeffrey & Hayley		3544 Flora Vista Loop			Round Rock	TX	78681	R361343
Y2-173		Y2		Mechler	Greg & Patricia		3415 Inwood Cv			Round Rock	TX	78681-1057	R361334

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
Y2-174				Paramasivam	Baby Mathavi & Siva Palaniyandi		10413 Tularosa Pass			Austin	TX	78726-2465	R361339
Y2-175				Clack	Charles R III & Sharon F		3540 Flora Vista Loop			Round Rock	TX	78681-1049	R347812
Y2-176	578	Y2		Budd	Eric E & Juanita B		3410 Inwood Cv			Round Rock	TX	78681-1057	R361335
Y2-177		Y2		Moran	Richard A		3408 Inwood Cv			Round Rock	TX	78681-1057	R361336
Y2-178				Washburn	Todd R & Beth A		3406 Inwood Cv			Round Rock	TX	78681	R361337
Y2-179				Delisi	Vincent P & Eileen		3404 Inwood Cv			Round Rock	TX	78681-1057	R361338
Y2-180				Crowley	Michael J & Blanca E		3536 Flora Vista Loop			Round Rock	TX	78681-1052	R347813
Y2-181				Romera	Jesse & Marisa G Calvo		4029 Honey Bear Loop			Round Rock	TX	78681	R347814
Y2-184				Dillon	Angelika		3528 Flora Vista Loop			Round Rock	TX	78681	R347815
Y2-189				Matl	Daniel & Michelle		4008 Springwillow Ln			Round Rock	TX	78681	R361373
Y2-190				Garcia	Victor R & Kristene		4010 Springwillow Ln			Round Rock	TX	78681	R361372
Y2-191				Laws	Terry & Lori		4009 Springwillow Ln			Round Rock	TX	78681-1060	R361371
Y2-193				Coker	Teri L		3732 Galena Hills Loop			Round Rock	TX	78681-1055	R351383
Y2-194				Erfurth	Scott C & Susan T		3734 Galena Hills Loop			Round Rock	TX	78681-1055	R351382
Y2-196				Mulig	Virginia R		3735 Galena Hills Loop			Round Rock	TX	78681	R351379
Y2-197				Klubak	Neal & Teresa Mai Elig		3738 Galena Hills Loop			Round Rock	TX	78681-1055	R351495
Y2-198				Hatcher	Donald G & Joy L		3739 Galena Hills Loop			Round Rock	TX	78681-1035	R351473
Y2-199				Leaverton	Michael C II & Amber L		3740 Galena Hills Loop			Round Rock	TX	78681	R351494
Y2-200				Villanueva	John D & Elizabeth G		3742 Galena Hills Loop			Round Rock	TX	78681	R351493
Y2-201				Kendrick	Melvin R & Emma N		3743 Galena Hills Loop			Round Rock	TX	78681-1035	R351474
Y2-202				Runyan	Steven Alan & Judith L		3744 Galena Hills Loop			Round Rock	TX	78681-1034	R351492
Y2-203				Gould	Michael & Karen		3746 Galena Hills Loop			Round Rock	TX	78681	R351491
Y2-204				Choi	Raymond		3800 Galena Hills Loop			Round Rock	TX	78681	R351490
Y2-205				Allen	Samuel Kevin		3802 Galena Hills Loop			Round Rock	TX	78681	R351489
Y2-206	577	Y2		Vista Oaks Corporate Park Condominiums			C/O Vista Oaks Corporate Park Condominiums Owners Assn, Linc	3401 Royal Vista Blvd, C-300		Round Rock	TX	78681	R508591
Y2-208	576	Y2		Lopez	Dalila		4315 S Summercrest Loop			Round Rock	TX	78681	R392127
Y2-209		Y2		Kennemer	Erin & Richard R Russell		4313 Summercrest Loop S			Round Rock	TX	78681	R392128
Y2-210				Martinez	Jorge L Donnadieu & Erica M Guerra		4311 S Summercrest Loop			Round Rock	TX	78681	R392129
Y2-211				Corona	Jessie D & Charmaine A		4309 S Summercrest Loop			Round Rock	TX	78681-1095	R392130
Y2-212				Dement Mark L & Joann Trustess Of The Dement Living Trust			4307 S Summercrest Loop			Round Rock	TX	78681	R392131
Y2-213				Laxton	Forrest L & Victoria L		4305 S Summercrest Loop			Round Rock	TX	78681	R392132
Y2-214				Drepaul	Gerome & Andrea Rupram		4303 S Summercrest Loop			Round Rock	TX	78681	R392133
Y2-215	575	Y2		Garcia	Cordelia Anna & Ricardo Saiz		4317 S Summercrest Loop			Round Rock	TX	78681	R392126
Y2-216				Hawthorne	Stephen B		4318 S Summercrest Loop			Round Rock	TX	78681-1095	R392153
Y2-217				Register	Lillian Frances		4306 S Summercrest Loop			Round Rock	TX	78681	R392152
Y2-218				Register	Leonard F & Cheryl M		4304 S Summercrest Loop			Round Rock	TX	78681-1095	R392151
Y2-219	574	Y2		Clabauh	Jason Chad & Emily & Margaret Berg		4319 Summercrest Loop			Round Rock	TX	78681	R392125
Y2-220	573	Y2		Nguyen	Trinh & Le Loi		4321 S Summercrest Loop			Round Rock	TX	78681-1095	R392124
Y2-221				Walters	Mark S & Farah Naz		2000 Summercrest Cv			Round Rock	TX	78681	R392154
Y2-222				Petersen	David & Jessica Anne		2002 Summercres Cv			Round Rock	TX	78681	R392155
Y2-223				Huber	Scott C & Patricia A		4007 Galena Hills Dr			Round Rock	TX	78681-2616	R380843
Y2-224	572	Y2		Jasso	Armando D & Naomi N		4323 S Summercrest Loop			Round Rock	TX	78681-1095	R392123
Y2-225				Vaughan	Steven M II & Michele R		2004 Summercrest Cv			Round Rock	TX	78681-1097	R392156
Y2-226				Klein	Kimberly		4009 Galena Hills Dr			Round Rock	TX	78681	R380842
Y2-227		Y2		Whaley	Abraham & Glory		4325 S Summercrest Loop			Round Rock	TX	78681-1095	R392122
Y2-228				Haney	Joseph T Jr & Gloria B		2005 Summercrest Cv			Round Rock	TX	78681-1097	R392157
Y2-229				Pomplun	Mary A		4011 Galena Hills Dr			Round Rock	TX	78681-2616	R380841
Y2-230				Shah	Mrugesh R		15420 Fernhill Dr			Austin	TX	78717-3854	R380840
Y2-232		Y2		Jimenez	Lavaniya & Juan		4401 S Summercrest Loop			Round Rock	TX	78681	R392121
Y2-233				Godwin	Bryan & Debra		2001 Summercrest Cv			Round Rock	TX	78681-1097	R392159
Y2-234				Engleman	Matthew & Claudia		2003 Summercrest Cv			Round Rock	TX	78681	R392158
Y2-235				Brown	Jill A P & Jerome L		4015 Galena Hills Dr			Round Rock	TX	78681-2616	R380839
Y2-236	571	Y2		Williams	Ryan S & Tarina L		4403 S Summercrest Loop			Round Rock	TX	78681-1096	R392120
Y2-237				Sainz	Robert W & Kristen E		4402 S Summercrest Loop			Round Rock	TX	78681	R392160
Y2-238				Bond	Brendon D & Dawn J		4017 Galena Hills Dr			Round Rock	TX	78681	R392150
Y2-239	570	Y2		Heit	Jerrnette		4405 S Summercrest Loop			Round Rock	TX	78681-1096	R392119
Y2-240				Rose	Benjamin Aaron & Whitney Kae		4404 S Summercrest Loop			Round Rock	TX	78681	R392161
Y2-241				Husain	Syed M Amir		4019 Galena Hills Dr			Round Rock	TX	78681-2255	R392149
Y2-242	569	Y2		Horne	Misty Jessee & Alan		4407 S Summercrest Loop			Round Rock	TX	78681	R392118

Leander-Round Rock 138-kV Transmission Line Project
Directly Affected Landowner List Including Tract IDs and Habitable Structures

Tract ID	Structures	Segments	Title	Last Name	First Name	Suffix	Address 1	Address 2	Address 3	City	State	Zip	Tax ID
Y2-243				Hill	Derrick W & Janelle		4406 S Summercrest Loop			Round Rock	TX	78681	R392162
Y2-244				Carnes Chester O & Estate Of Ilene Ann Carnes			4021 Galena Hills Dr			Round Rock	TX	78681	R392148
Y2-245	568	Y2		Rivera	Jose & Irma Aracely		4409 S Summercrest Loop			Round Rock	TX	78681-1096	R392117
Y2-246				Reeves	Scott A & Sherry		4408 Summercrest Loop S			Round Rock	TX	78681	R392163
Y2-247				Fothergill	Todd E & Judith L		4023 Galena Hills Dr			Round Rock	TX	78681-2255	R392147
Y2-248		Y2		Crist	David Lawrence		6627 Greensboro Dr			Austin	TX	78723	R392116
Y2-249				Collins	James L & Rosanne L		4410 S Summercrest Loop			Round Rock	TX	78681-1096	R392164
Y2-250				Hall	Brian M & Kelly S		4025 Galena Hills Dr			Round Rock	TX	78681-2255	R392146
Y2-251	567	Y2		Davis	Mandy		4413 S Summercrest Loop			Round Rock	TX	78681	R392115
Y2-252	566	Y2		Dunnivan	Gerald W & Patricia		1315 Pasa Tiempo			Leander	TX	78641-3639	R392114
Y2-253	565	Y2		Smith	Richard D & Renee Johnson		4417 S Summercrest Loop			Round Rock	TX	78681	R392113
Y2-254		Y2		Ngo	Thinh Viet & Hong T Nguyen		4419 Summercrest Loop S			Round Rock	TX	78681	R392112
Y2-255				Czap	Doug & Suanne		4421 S Summercrest Loop			Round Rock	TX	78681-1096	R392111
Y2-256				Watts	Christopher T & Edna D		4423 S Summercrest Loop			Round Rock	TX	78681	R392110
Y2-257				Prince	Brad		4425 S Summercrest Loop			Round Rock	TX	78681	R392109
Y2-258				Ridgway	Jeannette		4427 S Summer Crest Loop			Round Rock	TX	78681	R392108
Y4-001		A5; J1; Y4		Tran	Julie Hong-Van & Chanh Buu Tran		81 County Road 177			Leander	TX	78641-2633	R424901
Z-001; Z-002		Z		Dufner	Elizabeth Ann		314 Wooded Way			Bertram	TX	78605	R472554; R473566
Z-003		Z		Faubion	Gordon W		2302 Amy Lynn Ln			Cedar Park	TX	78613	R472555
Z-005		Z		Jwm-Moii Properties Llc			12704 Harris Rd			Lees Summit	MO	64086-9124	R300029
Z-006		Z		Mjc Management Llc			12 Indian Wells Rd			Brewster	NY	10509-5201	R524678
Z-007; Z-009		S; Y; Z		Whittlesey	Kenneth Patrick & Ana Rosa		1130 Wigwam			Leander	TX	78641	R032355; R539484
Z-008		Z		Heaton	Nancy & Skip Sandell		3933 Steck Ave	Ste B117		Austin	TX	78759	R539479
Z1-001	142	A2; Z1		Williams	Laura Jean		7235 Acacia Dr			Leander	TX	78641	R037940
Z4-001	98	D6; X4; Y4; Z4		Dunn	Jay W		350 County Road 177			Leander	TX	78641-2532	R031565

LCRA TRANSMISSION SERVICES CORPORATION

April 28, 2016

«FirstName» «LastName» «Suffix»
«SecondName»
«Address1»
«Address2»
«Address3»
«City», «State» «Zip»

RE: Application of LCRA Transmission Services Corporation to Amend its Certificate of Convenience and Necessity for the Proposed Leander-Round Rock 138-kV Transmission Line Project in Williamson County, Texas
PUBLIC UTILITY COMMISSION OF TEXAS (PUC) DOCKET NO. 45866
Tract ID:

Dear Landowner:

We want you to know that LCRA Transmission Services Corporation (LCRA TSC) is requesting approval from the Public Utility Commission of Texas (PUC) to amend its Certificate of Convenience and Necessity (CCN) to construct the proposed Leander-Round Rock 138-kV Transmission Line Project in southwestern Williamson County, Texas.

All routes and route segments included in this notice are available for selection and approval by the PUC.

The proposed transmission line will connect two new substations to the existing Leander and Round Rock substations. The entire project will be about 12 to 21 miles in length, and is estimated to cost approximately $67.8 million to $99.6 million, depending upon the final route chosen by the PUC.

Your land may be directly affected in this docket. If one of LCRA TSC's alternative routes is approved by the PUC, LCRA TSC will have the right to build the facilities, which may directly affect your land. This docket will not determine the value of your land or the value of an easement if one is needed by LCRA TSC to build the facilities.

If you have questions about the transmission line or substation sites, you can call 800-776-5272, ext. 7051. The descriptions of the proposed routing alternatives, proposed substations sites and a map showing the proposed alternative routes are enclosed for your convenience.

The CCN application, including detailed routing maps illustrating the proposed transmission line project, substations and project area, may be reviewed on the project website at www.lcra.org/LRR, and at the LCRA office located at 3505 Montopolis Drive, Building D, Austin, Texas 78744. To make an appointment to obtain or review the map at LCRA, call 800-776-5272, ext. 7051.

As discussed in the enclosed brochure, "Landowners and Transmission Line Cases at the PUC," any one of the proposed routes, substation sites or a new combination of route segments filed in this application may be selected by the PUC. Additionally, the PUC may modify the proposed routes and segments into different configurations than those proposed, so long as they affect only noticed landowners.

The brochure (available from the PUC's website at www.puc.state.tx.us) also provides basic information about how you may participate in this docket, and how you may contact the PUC. Please read this brochure carefully. The brochure includes sample forms for making comments and for making a request to intervene as a party in this docket. **The only way to fully participate in the PUC's decision on where to locate the transmission line is to intervene in the docket. It is important for an affected person to intervene because LCRA TSC is not obligated to keep affected people informed of the PUC's proceedings and cannot predict which route may or may not be approved by the PUC.**

In addition to the contacts listed in the brochure, you may call the PUC's Customer Assistance Hotline at 888-782-8477. Hearing- and speech-impaired individuals with text telephones (TTY) may contact the PUC's Customer Assistance Hotline at 512-936-7136, or toll free at 800-735-2989. If you wish to participate in this proceeding by becoming an intervenor, the deadline for intervention in the proceeding is June 13, 2016, and the PUC should receive a letter from you requesting intervention by that date. Mail the request for intervention and 10 copies of the request to:

Public Utility Commission of Texas
Central Records
Attn: Filing Clerk
1701 N. Congress Ave.
P.O. Box 13326
Austin, Texas 78711-3326

People who wish to intervene in the docket must also mail a copy of their request for intervention to all parties in the docket and all people who have pending motions to intervene, at or before the time the request for intervention is mailed to the PUC. In addition to the intervention deadline, other important deadlines may already exist that affect your participation in this docket. You should review the orders and other filings already made in the docket. The enclosed brochure explains how you can access these filings.

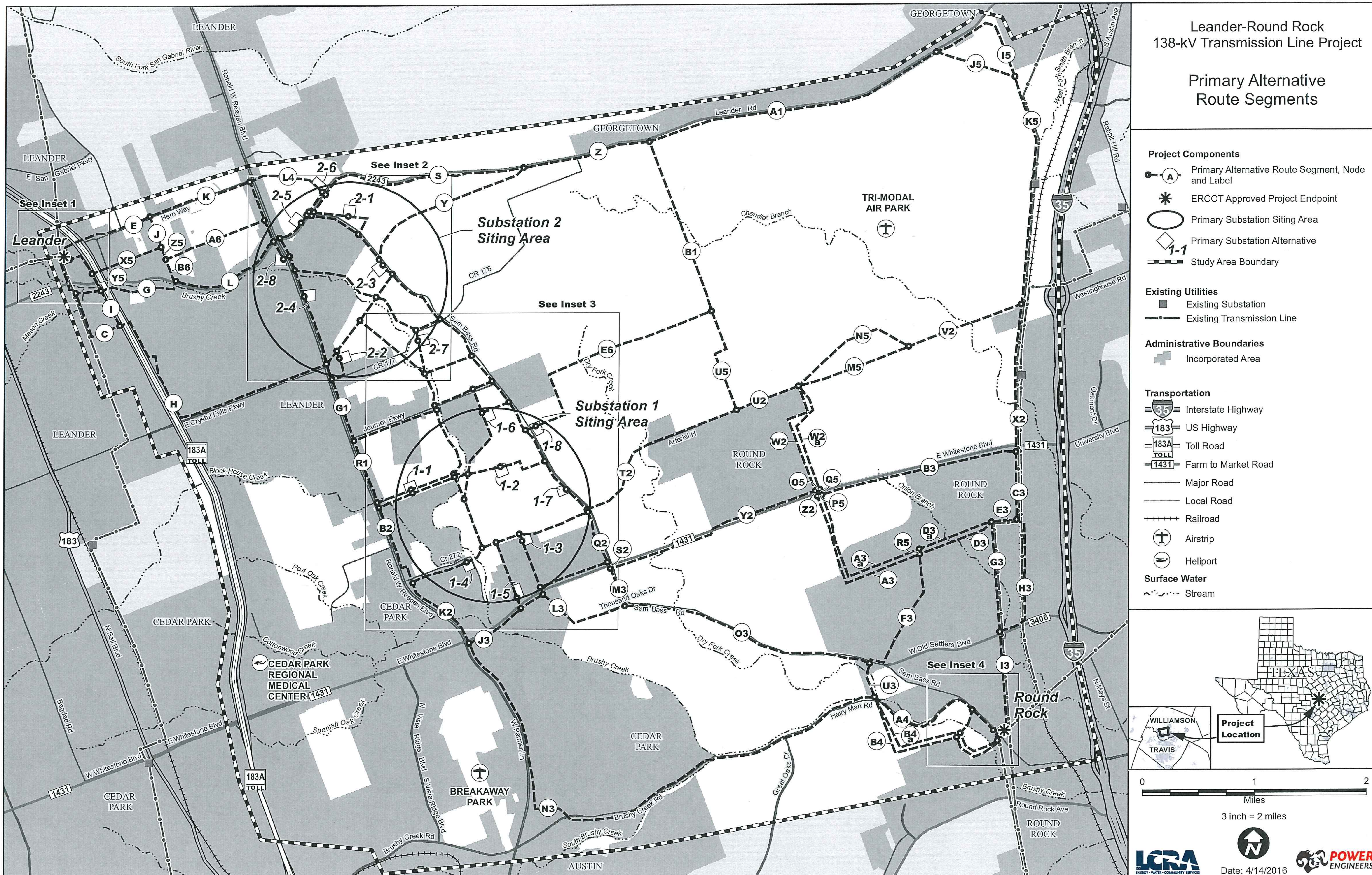
Thank you for your interest in this project.

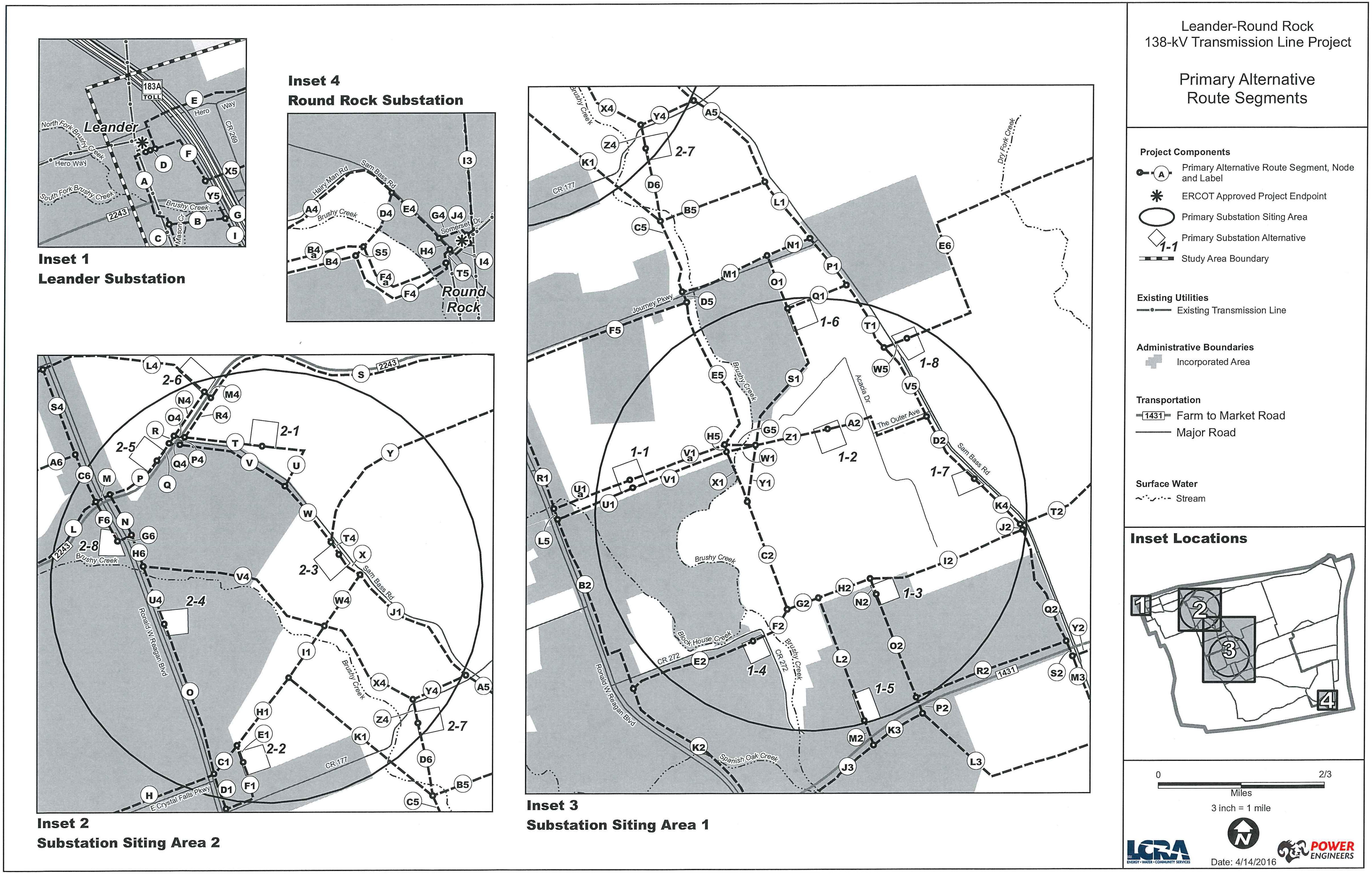
Sincerely,

C Powell

Christian Powell
Senior Regulatory Case Manager
Lower Colorado River Authority
P.O. Box 220, MS DSC-D204
Austin, Texas 78767-0220

Enclosures


Leander-Round Rock
138-kV Transmission Line Project
Primary Alternative Route Segments
Project Components
Primary Alternative Route Segment, Node and Label
ERCOT Approved Project Endpoint
Primary Substation Siting Area
Primary Substation Alternative
Study Area Boundary
Existing Utilities
Existing Substation
Existing Transmission Line
Administrative Boundaries
Incorporated Area
Transportation
Interstate Highway
US Highway
Toll Road
Farm to Market Road
Major Road
Local Road
Railroad
Airstrip
Heliport
Surface Water
Stream
Project Location
WILLIAMSON
TRAVIS
TEXAS
0
1
2
Miles
3 inch = 2 miles
Date: 4/14/2016
POWER ENGINEERS
See Inset 1
See Inset 2
See Inset 3
See Inset 4
Substation 2 Siting Area
Substation 1 Siting Area
TRI-MODAL AIR PARK
CEDAR PARK REGIONAL MEDICAL CENTER
BREAKAWAY PARK
LEANDER
GEORGETOWN
ROUND ROCK
CEDAR PARK
AUSTIN
Leander
Round Rock


Leander-Round Rock
138-kV Transmission Line Project
Primary Alternative
Route Segments
Project Components
Primary Alternative Route Segment, Node and Label
ERCOT Approved Project Endpoint
Primary Substation Siting Area
Primary Substation Alternative
Study Area Boundary
Existing Utilities
Existing Transmission Line
Administrative Boundaries
Incorporated Area
Transportation
Farm to Market Road
Major Road
Surface Water
Stream
Inset Locations
0
2/3
Miles
3 inch = 1 mile
LCRA
ENERGY • WATER • COMMUNITY SERVICES
Date: 4/14/2016
POWER ENGINEERS
Inset 1
Leander Substation
Leander
North Fork Brushy Creek
Hero Way
South Fork Brushy Creek
Brushy Creek
183A
TOLL
2243
CR 269
Mason Cr
Inset 4
Round Rock Substation
Hairy Man Rd
Sam Bass Rd
Brushy Creek
Somerset Dr
Round Rock
Inset 2
Substation Siting Area 2
Ronald W Reagan Blvd
Sam Bass Rd
Brushy Creek
CR 177
E Crystal Falls Pkwy
2243
2-1
2-2
2-3
2-4
2-5
2-6
2-7
2-8
Inset 3
Substation Siting Area 1
Brushy Creek
CR 177
Journey Pkwy
Dry Fork Creek
Acacia Dr
The Outer Ave
Sam Bass Rd
Ronald W Reagan Blvd
Block House Creek
CR 272
Spanish Oak Creek
1431
1-1
1-2
1-3
1-4
1-5
1-6
1-7
1-8
2-7

Leander –Round Rock 138-kV Transmission Line Project
Segment Descriptions

Primary Alternative Routes	Segment Combinations
1	A-B-G-L-M-P-Q-Q4-V-W-T4-**2-3**-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-M5-V2-X2-C3-H3-I3-J4
2	A-B-G-L-M-P-**2-5**-Q-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-**1-8**-V5-D2-K4-J2-Q2-S2-Y2-Z2-P5-B3-C3-H3-I3-J4
3	A-B-G-L-F6-**2-8**-G6-H6-U4-O-D1-G1-F5-D5-M1-O1*-**1-6**-N1-L1-A5-J1-X-T4-Y-Z-A1-J5-K5-X2-C3-H3-I3-J4
4	D-F-Y5-I-H-D1-G1-F5-D5-M1-O1*-**1-6**-N1-L1-A5-J1-X-T4-W-V-P4-R4-M4*-**2-6**-S-Z-A1-I5-K5-X2-C3-E3-G3-I3-J4
5	A-C-H-C1-E1*-**2-2**-H1-K1-B5-L1-P1-T1-W5-**1-8**-E6-B1-A1-J5-K5-X2-C3-H3-I3-J4
6	D-F-X5-Z5-A6-C6-M-N-H6-U4-**2-4**-O-D1-G1-R1-L5-B2-E2-**1-4**-F2-G2-H2-I2-J2-T2-U5-B1-A1-J5-K5-X2-C3-H3-I3-J4
7	D-E-J-Z5-B6-L-M-P-Q-R-O4-T-**2-1**-U-W-T4-X-J1-A5-L1-P1-Q1*-**1-6**-T1-V5-D2-K4-T2-U2-N5-V2-X2-C3-E3-G3-I3-J4
8	D-E-K-L4-**2-6**-N4-R-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-K4-J2-I2-N2-**1-3**-O2-P2-L3-O3-U3-A4-E4-H4-I4
9	D-E-K-S4-C6-M-N-H6-V4-X4-Z4*-**2-7**-Y4-A5-L1-P1-T1-V5-D2-K4-J2-I2-H2-L2-**1-5**-M2-K3-L3-O3-U3-A4-E4-G4-J4
10	D-F-X5-Z5-A6-C6-M-N-H6-V4-X4-Z4-**2-7**-D6-C5-D5-E5-H5-X1-C2-G2-L2-**1-5**-M2-K3-L3-O3-U3-A4-D4-S5-F4-T5-I4
11	A-B-G-L-M-P-**2-5**-Q-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-**1-8**-V5-D2-K4-J2-Q2-S2-M3-O3-U3-B4-F4-T5-I4
12	A-B-G-L-M-P-**2-5**-Q-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-**1-8**-V5-D2-K4-J2-Q2-S2-M3-O3-U3-B4a-F4a-T5-I4
13	D-F-X5-Z5-A6-C6-M-N-H6-U4-**2-4**-O-D1-G1-R1-L5-U1-V1-W1-Z1-**1-2**-A2-D2-K4-T2-U2-W2-Z2-A3-D3-G3-I3-J4
14	D-F-X5-Z5-A6-C6-M-N-H6-U4-**2-4**-O-D1-G1-R1-U1a-V1a-G5-Z1-**1-2**-A2-D2-K4-T2-U2-W2a-Q5-A3a-D3a-G3-I3-J4
15	D-E-K-S4-C6-M-N-H6-U4-**2-4**-O-D1-G1-R1-L5-U1*-**1-1**-B2-K2-N3-A4-E4-G4-J4
16	D-F-X5-Z5-A6-C6-M-P-Q-Q4-V-W-T4-X-W4-I1-H1-E1-**2-2**-F1-G1-R1-L5-B2-K2-J3-M2*-**1-5**-K3-P2-R2-S2-Y2-O5-Q5-A3a-R5-F3-U3-B4-F4-T5-I4
17	D-F-Y5-I-H-C1-E1*-**2-2**-H1-K1-C5-M1-O1-S1-Y1-C2-G2-H2-N2-**1-3**-O2-P2-L3-O3-U3-A4-E4-H4-I4
18	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-**1-8**-V5-D2-K4-T2-U2-W2-Z2-P5-B3-C3-E3-G3-I3-J4
19	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-**1-8**-V5-D2-K4-T2-U2-W2A-Q5-B3-C3-E3-G3-I3-J4

Primary Alternative Routes	Segment Combinations
20	D-F-X5-Z5-A6-S4-L4-**2-6**-N4-R-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-**1-8**-V5-D2-K4-J2-Q2-S2-Y2-Z2-P5-B3-C3-H3-I3-J4
21	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5-**1-8**-E6-U5-U2-W2A-Q5-B3-C3-E3-G3-I3-J4
22	A-B-G-L-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5-**1-8**-E6-U5-U2-W2A-Q5-B3-C3-E3-G3-I3-J4
23	D-E-J-Z5-B6-L-M-N-H6-V4-X4-Z4-**2-7**-D6-C5-D5-E5-G5-Y1-C2-G2-H2-N2-**1-3**-O2-R2-S2-Y2-O5-Q5-A3a-R5-F3-U3-B4a-F4a-T5-I4
24	D-E-J-Z5-B6-L-M-N-H6-V4-X4-Z4-**2-7**-D6-C5-D5-E5-G5-Y1-C2-G2-H2-N2-**1-3**-O2-R2-S2-Y2-Z2-A3-F3-U3-B4-F4-T5-I4
25	D-E-K-L4-**2-6**-N4-R-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-W2-Z2-P5-B3-C3-E3-G3-I3-J4
26	D-E-K-L4-**2-6**-N4-R-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-W2a-Q5-B3-C3-E3-G3-I3-J4
27	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-W2-Z2-P5-B3-C3-H3-I3-J4
28	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-W2a-Q5-B3-C3-H3-I3-J4
29	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-M5-V2-X2-C3-E3-G3-I3-J4
30	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-N5-V2-X2-C3-H3-I3-J4
31	D-F-X5-Z5-A6-C6-F6*-**2-8**-M-P-Q-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-J2-Q2-S2-Y2-Z2-P5-B3-C3-E3-G3-I3-J4

*These segments will be used entering and exiting the substation sites.

Segment A

Segment A begins at the Leander Substation, located approximately .10 mile southwest from the intersection of US Highway (US Hwy) 183A and Hero Way. The segment proceeds southwest for approximately .05 mile, crossing an existing transmission line. It then turns southeast for approximately .25 mile while paralleling the west side of an existing transmission line, crossing Farm-to-Market (FM) 2243 and Brushy Creek. The segment then angles to the east-southeast for approximately .05 mile, crossing an existing transmission line. It then turns southeast for approximately .03 mile while paralleling the east side of an existing transmission line. The termination of Segment A is at the intersection of segments A, B, and C.

Segment B

Segment B begins at the intersection of segments A, B, and C, located southwest from the intersection of US Hwy 183A and FM 2243. The segment proceeds east for approximately .20 mile, crossing Mason Creek. The termination of Segment B is at the intersection of segments B, G, I, and Y5.

Segment C

Segment C begins at the intersection of segments A, B, and C, located southwest from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .41 mile while paralleling the east side of an existing transmission line, crossing Mason Creek. The segment then turns northeast for approximately .27 mile. The termination of Segment C is at the intersection of segments C, I, and H.

Segment D

Segment D begins at the Leander Substation, located approximately .10 mile southwest from the intersection of US Hwy 183A and Hero Way. The segment proceeds northeast for approximately .02 mile. The termination of Segment D is at the intersection of segments D, E, and F.

Segment E

Segment E begins at the intersection of segments D, E, and F, located southwest from the intersection of US Hwy 183A and Hero Way. The segment proceeds northwest for approximately .11 mile, crossing Hero Way. The segment then turns northeast for approximately .31 mile while paralleling the north side of Hero Way, crossing US Hwy 183A. It then angles to the southeast for approximately .08 mile. The segment continues to the northeast for approximately .42 mile while paralleling the north side of Hero Way. The termination of Segment E is at the intersection of segments E, J, and K.

Segment F

Segment F begins at the intersection of segments D, E, and F, located southwest from the intersection of US Hwy 183A and Hero Way. The segment proceeds northeast for approximately .10 mile. It then turns southeast for approximately .19 mile while paralleling the west side of US Hwy 183A. The termination of Segment F is at the intersection of segments F, X5, and Y5.

Segment G

Segment G begins at the intersection of segment B, G, I, and Y5, located south from the intersection of US Hwy 183A and FM 2243. The segment proceeds northeast for approximately .10 mile, crossing US Hwy 183A. It then angles to the southeast for approximately .18 mile and then angles to the east for approximately .24 mile. The segment then angles to the southeast for approximately .15 mile and then turns northeast for approximately .07 mile, crossing Brushy Creek and FM 2243. The termination of Segment G is at the intersection of segments G, L, and B6.

Segment H

Segment H begins at the intersection of segments C, H, and I, located south from the intersection of US Hwy 183Aand FM 2243. The segment proceeds northeast for approximately .09 mile, crossing US Hwy 183A. It then turns southeast for approximately .36 mile while paralleling the east side of US Hwy 183A. The segment then turns east for approximately .06 mile and then turns to the south for approximately .18 mile. The segment continues southeast for approximately .42 mile while paralleling the east side of US Hwy 183A. It then turns northeast for approximately 1.39 miles while paralleling the north side of East Crystal Falls Parkway, crossing Ronald Reagan Blvd. The termination of Segment H is at the intersection of segments H, O, C1, and D1.

Segment I

Segment I begins at the intersection of segments B, G, I, and Y5, located south from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .40 mile while paralleling the west side of US Hwy 183A. The termination of Segment I is at the intersection of segments C, H, and I.

Segment J

Segment J begins at the intersection of segments E, J, and K, located east from the intersection of US Hwy 183A and Hero Way. The segment proceeds southeast for approximately 0.30 mile, crossing Hero Way. The termination of Segment J is at the intersection of segments J, X5, and Z5.

Segment K

Segment K begins at the intersection of segments E, J, and K, located east from the intersection of US Hwy 183A and Hero Way. The segment proceeds northeast for approximately .43 mile while paralleling the north side of Hero Way and then angles to the southeast for approximately .09 mile, crossing Hero Way. It then continues northeast for approximately .42 mile while paralleling the south side of Hero Way. The termination of Segment K is at the intersection of segments K, L4, and S4.

Segment L

Segment L begins at the intersection of segments G, L, and B6, located east from the intersection of US Hwy 183A and FM 2243. The segment proceeds in an easterly direction for approximately 1.00 mile while paralleling the north side of FM 2243. The termination of Segment L is at the intersection of segments L, M, C6, and F6.

Segment M

Segment M begins at the intersection of Segments L, M, C6, and F6, located west from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .10 mile while paralleling the north side of FM 2243. The termination of Segment M is at the intersection of segments M, N, and P.

Segment N

Segment N begins at the intersection of segments M, N, and P, located east from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .20 mile while paralleling the east side of Ronald Reagan Blvd., crossing FM 2243. The termination of Segment N is at the intersection of segments N, G6, and H6.

Segment O

Segment O begins at the intersection of segments O, U4, and Substation Site 2-4, located south from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .60 mile while paralleling the east side of Ronald Reagan Blvd. The termination of Segment O is at the intersection of segments H, O, C1, and D1.

Segment P

Segment P begins at the intersection of segments M, N, and P, located east from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds in an easterly direction for approximately .20 mile while paralleling the north side of FM 2243. The termination of Segment P is at the intersection of segments P, Q, and Substation Site 2-5.

Segment Q

Segment Q begins at the intersection of segments P, Q, and Substation Site 2-5, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .10 mile while paralleling the north side of FM 2243. The termination of Segment Q is at the intersection of segments Q, R, and Q4.

Segment R

Segment R begins at the intersection of segments Q, R, and Q4, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .04 mile while paralleling the north side of FM 2243. The termination of Segment R is at the intersection of segments R, N4, and O4.

Segment S

Segment S begins at the intersection of segments S, M4, and R4, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment curves around in an easterly direction for approximately 1.18 miles while paralleling the south side of FM 2243. It then angles to the southeast for approximately .09 mile and then angles to the northeast for approximately .09 mile. The segment continues east for approximately .52 mile while paralleling the south side of FM 2243. The termination of Segment S is at the intersection of segments S, Y, and Z.

Segment T

Segment T begins at the intersection of segments T, O4, P4, and R4, located east from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .21 mile while paralleling the north side of Sam Bass Road. The segment continues southeast for approximately .10 mile. The termination of Segment T is at the intersection of segments T, U, and Substation Site 2-1.

Segment U

Segment U begins at the intersection of segments T, U, and Substation Site 2-1, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .17 mile. It then turns southwest for approximately .16 mile, crossing Sam Bass Road. The termination of Segment U is at the intersection of segments U, V, and W.

Segment V

Segment V begins at the intersection of segments V, P4, and Q4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds in a southeasterly direction for approximately .50 mile while paralleling the south side of Sam Bass Road. The termination of Segment V is at the intersection of segments U, V, and W.

Segment W

Segment W begins at the intersection of segments U, V, and W, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .30 mile while paralleling the south side of Sam Bass Road. The termination of Segment W is at the intersection of segments W, Y, and T4.

Segment X

Segment X begins at the intersection of segments X, T4, and Substation Site 2-3, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .06 mile and then angles east-southeast for approximately .06 mile. The termination point of Segment X is at the intersection of segments X, J1, and W4.

Segment Y

Segment Y begins at the intersection of segments W, Y, and T4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment curves around to the north-northeast for approximately .50 mile. It then continues to the northeast for approximately 1.00 mile. At this point, the segment angles to the north-northeast for approximately .10 mile. The termination point of Segment Y is at the intersection of segments S, Y, and Z.

Segment Z

Segment Z begins at the intersection of segments S, Y, and Z, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds in an easterly direction for approximately 1.10 miles while paralleling the south side of FM 2243, crossing County Road (CR) 176. The termination of Segment Z is at the intersection of segments Z, A1, and B1.

Segment A1

Segment A1 begins at the intersection of segments Z, A1, and B1, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .57 mile. It then continues in an easterly direction for approximately 2.13 miles while paralleling the south side of FM 2243. The termination of Segment A1 is at the intersection of segments A1, I5, and J5.

Segment B1

Segment B1 begins at the intersection of segments Z, A1, and B1, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately 1.60 miles, crossing Chandler Branch. The termination point of Segment B1 is at the intersection of segments B1, U5, and E6.

Segment C1

Segment C1 begins at the intersection of segments H, O, C1, and D1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds northeast for approximately .10 mile. The termination point of Segment C1 is at the intersection of segments C1, E1, and H1.

Segment D1

Segment D1 begins at the intersection of segments H, O, C1, and D1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .10 mile while paralleling the east side of Ronald Reagan Blvd. The termination point of Segment D1 is at the intersection of segments D1, F1, and G1.

Segment E1

Segment E1 begins at the intersection of segments C1, E1, and H1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .10 mile. The termination of Segment E1 is at the intersection of segments E1, F1, and Substation Site 2-2.

Segment F1

Segment F1 begins at the intersection of segments E1, F1, and Substation Site 2-2, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .15 mile. It then turns southwest for approximately .12 mile while paralleling the north side of CR177. The termination point of Segment F1 is at the intersection of segments D1, F1, and G1.

Segment G1

Segment G1 begins at the intersection of segments D1, F1, and G1, located south from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .60 mile while paralleling the east side of Ronald Reagan Blvd., crossing CR 177 and Journey Parkway. The termination of Segment G1 is at the intersection of segments G1, R1, and F5.

Segment H1

Segment H1 begins at the intersection of segments C1, E1, and H1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds northeast for approximately .30 mile. The termination point of Segment H1 is at the intersection of segments H1, I1, and K1.

Segment I1

Segment I1 begins at the intersection of segments I1, V4, W4, and X4, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southwest for approximately .30 mile. The termination point of Segment I1 is at the intersection of segments H1, I1, and K1.

Segment J1

Segment J1 begins at the intersection of segments X, J1, and W4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds in a southeasterly direction for approximately .35 mile while paralleling the west side of Sam Bass Road. It then angles south-southeast for approximately .11 mile. The segment then continues southeast for approximately .13 mile while paralleling the west side of Sam Bass Road. The termination point of Segment J1 is at the intersection of segments J1, Y4, and A5.

Segment K1

Segment K1 begins at the intersection of segments H1, I1, and K1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .70 mile, crossing CR 177 and Brushy Creek twice. The termination point of Segment K1 is at the intersection of segments K1, B5, C5, and D6.

Segment L1

Segment L1 begins at the intersection of segments L1, A5, and B5, located southeast from the intersection of CR 177 and Sam Bass Road. The segment proceeds southeast for approximately .30 mile while paralleling the west side of Sam Bass Road. The termination point of Segment L1 is at the intersection of segments L1, N1, and P1.

Segment M1

Segment M1 begins at the intersection of segments M1, C5, and D5, located northeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .40 mile while paralleling the north side of Journey Parkway, crossing Brushy Creek. The termination of Segment M1 is at the intersection of segments M1, N1, and O1.

Segment N1

Segment N1 begins at the intersections of segments M1, N1, and O1, located west from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds northeast for approximately .20 mile. The termination of Segment of N1 is at the intersection of segments L1, N1, and P1.

Segment O1

Segment O1 begins at the intersection of segments M1, N1, and O1, located west from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .20 mile, crossing Journey Parkway. The termination point of Segment O1 is at the intersection of segments O1, Q1, S1, and Substation Site 1-6.

Segment P1

Segment P1 begins at the intersection of segments L1, N1, and P1, located west from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .20 mile while paralleling the west side of Sam Bass Road, crossing Journey Parkway. The termination point of Segment P1 is at the intersection of segments P1, Q1, and T1.

Segment Q1

Segment Q1 begins at the intersection of segments O1, Q1, S1, and Substation Site 1-6, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds northeast for approximately .30 mile. The termination point of Segment Q1 is at the intersection of segments P1, Q1, and T1.

Segment R1

Segment R1 begins at the intersection of segments G1, R1 and F5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .60 mile while paralleling the east side of Ronald Reagan Blvd., crossing Block House Creek. The termination point of Segment R1 is at the intersection of segments R1, U1a, and L5.

Segment S1

Segment S1 begins at the intersection of segments O1, Q1, and Substation Site 1-6, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .23 mile and then angles to the southwest for approximately .29 mile. The segment then angles south-southwest for approximately .12 mile. The termination of Segment S1 is at the intersection of segments S1, W1, Y1, Z1, and G5.

Segment T1

Segment T1 begins at the intersection of segments P1, Q1, and T1, located south from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .14 mile while paralleling the west side of Sam Bass Road. It then angles to the south-southeast for approximately .10 mile. The segment then angles southeast for approximately .05 mile. The termination of Segment T1 is at the intersection of segments T1, V5, and W5.

Segment U1

Segment U1 begins at the intersection of segments U1, B2, and L5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .30 mile, crossing Block House Creek. The termination of Segment U1 is at the intersection of segments U1, V1, and Substation Site 1-1.

Segment U1a

Segment U1a begins at the intersection of segments R1, U1a, and L5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .30 mile, crossing Block House Creek.

The termination of Segment U1a is at the intersection of segments U1a, V1a, and Substation Site 1-1.

Segment V1

Segment V1 begins at the intersection of segments U1, V1, and Substation Site 1-1, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .40 mile. The termination of Segment V1 is at the intersection of segments V1, W1, X1, and H5.

Segment V1a

Segment V1a begins at the intersection of segments U1a, V1a, and Substation Site 1-1, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .40 mile. The termination of Segment V1a is at the intersection of segments V1a, E5, G5, and H5.

Segment W1

Segment W1 begins at the intersection of segments V1, W1, X1, and H5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .10 mile, crossing Brushy Creek. The termination of Segment W1 is at the intersection of segments S1, W1, Y1, Z1, and G5.

Segment X1

Segment X1 begins at the intersection of segments V1, W1, X1, and H5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .20 mile, crossing Brushy Creek. The termination of Segment X1 is at the intersection of segments X1, Y1, and C2.

Segment Y1

Segment Y1 begins at the intersection of segments S1, W1, Y1, Z1, and G5, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southwest for approximately .20 mile. The termination of Segment Y1 is at the intersection of segments X1, Y1, and C2.

Segment Z1

Segment Z1 begins at the intersection of segments S1, W1, Y1, Z1, and G5, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds northeast for approximately .30 mile. The termination of Segment Z1 is at the intersection of segments Z1, A2 and Substation Site 1-2.

Segment A2

Segment A2 begins at the intersection of segments Z1, A2 and Substation Site 1-2, located west from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately .18 mile, crossing Acacia Drive. It then turns southeast for approximately .08 mile while paralleling the east side of Acacia Drive, crossing The Outer Avenue. The segment turns northeast for approximately .21 mile while paralleling the south side of The Outer Avenue. The termination of Segment A2 is at the intersection of segments A2, D2, and V5.

Segment B2

Segment B2 begins at the intersection of segments U1, B2, and L5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .58 mile while paralleling the east side of Ronald Reagan Blvd. It then turns northeast for approximately .05 mile. The segment turns southeast for approximately .16 mile, crossing CR 272. The termination of Segment B2 is at the intersection of segments B2, E2, and K2.

Segment C2

Segment C2 begins at the intersection of segments X1, Y1, and C2, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .50 mile. The termination point of Segment C2 is at the intersection of segments C2, F2, and G2.

Segment D2

Segment D2 begins at the intersection of segments A2, D2, and V5, located southwest from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds in a southeasterly direction for approximately .30 mile while paralleling the west side of Sam Bass Road. The termination of Segment D2 is at the intersection of segments D2, K4, and Substation Site 1-7.

Segment E2

Segment E2 begins at the intersection of segments B2, E2, and K2, located southeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds north-northeast for approximately .05 mile and then angles to the northeast for approximately .48 mile. The termination point of Segment E2 is at the intersection of segments E2, F2, and Substation Site 1-4.

Segment F2

Segment F2 begins at the intersection of segments E2, F2, and Substation Site 1-4, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds northeast for approximately .10 mile, crossing CR 272 and Brushy

Creek. It then angles to the north-northeast for approximately .10 mile. The termination of Segment F2 is at the intersection of segments C2, F2, and G2.

Segment G2

Segment G2 begins at the intersection of segments C2, F2, and G2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds northeast for approximately .10 mile. The termination of Segment G2 is at the intersection of segments G2, H2, and L2.

Segment H2

Segment H2 begins at the intersection of segments G2, H2, and L2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds northeast for approximately .20 mile. The termination of Segment H2 is at the intersection of segments H2, I2, and N2.

Segment I2

Segment I2 begins at the intersection of segments H2, I2, and N2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .14 mile and then angles to the northeast for approximately .50 mile. The termination of Segment I2 is at the intersection of segments I2, J2, and Q2.

Segment J2

Segment J2 begins at the intersection of segments J2, T2 and K4, located southeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .02 mile while paralleling the west side of Sam Bass Road. The termination of Segment J2 is at the intersection of segments I2, J2 and Q2.

Segment K2

Segment K2 begins at the intersection of segments B2, E2, and K2, located southeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .09 mile. It then angles to the east-southeast for approximately .67 mile while paralleling the east side of Ronald Reagan Blvd., crossing Spanish Oak Creek and FM 1431/East Whitestone Blvd. The termination of Segment K2 is at the intersection of segments K2, J3, and N3.

Segment L2

Segment L2 begins at the intersection of segments G2, H2, and L2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .50 mile. The termination of Segment L2 is at the intersection of segments L2, M2, and Substation Site 1-5.

Segment M2

Segment M2 begins at the intersection of segments L2, M2, and Substation Site 1-5, located northeast from the intersection of Ronald Reagan Blvd. and FM 1431. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment M2 is at the intersection of segments M2, J3, and K3.

Segment N2

Segment N2 begins at the intersection of segments H2, I2, and N2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .10 mile. The termination of Segment N2 is at the intersection of segments N2, O2, and Substation Site 1-3.

Segment O2

Segment O2 begins at the intersection of segments N2, O2, and Substation Site 1-3, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .40 mile. The termination of Segment O2 is at the intersection of segments O2, P2, and R2.

Segment P2

Segment P2 begins at the intersection of segments O2, P2, and R2, located northeast from the intersection of Ronald Reagan Blvd. and FM 1431. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment P2 is at the intersection of segments P2, K3, and L3.

Segment Q2

Segment Q2 begins at the intersection of segments I2, J2 and Q2, located southeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .09 mile while paralleling the west side of Sam Bass Road. It then angles to the south for approximately .12 mile and then angles to the east-southeast for approximately .07 mile. The segment then angles southeast for approximately .21 mile while paralleling the west side of Sam Bass Road. The termination of Segment Q2 is at the intersection of segments Q2, R2 and S2.

Segment R2

Segment R2 begins at the intersection of segments O2, P2 and R2, located northeast from the intersection of Ronald Reagan Blvd. and FM 1431. The segment proceeds northeast for approximately .60 mile while paralleling the north side of FM 1431/East Whitestone Blvd. The termination of Segment R2 is at the intersection of segments Q2, R2 and S2.

Segment S2

Segment S2 begins at the intersection of segments Q2, R2 and S2, located northwest from the intersection of Sam Bass Road and FM 1431. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment S2 is at the intersection of segments S2, Y2, and M3.

Segment T2

Segment T2 begins at the intersection of segments J2, T2 and K4, located southeast from the intersection of Sam Bass Road and The Outer Avenue. The segment curves around to the east-northeast for approximately .70 mile, crossing Sam Bass Road. It then angles to the northeast for approximately .14 mile, crossing Dry Fork Creek. The segment continues northeast for approximately .51 mile while paralleling the north side of Arterial H. At this point, the segment continues northeast for approximately .34 mile. The termination of Segment T2 is at the intersection of segments T2, U2 and U5.

Segment U2

Segment U2 begins at the intersection of segments T2, U2 and U5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately .60 mile. The termination of Segment U2 is at the intersection of segments U2, W2, W2a, M5, and N5.

Segment V2

Segment V2 begins at the intersection of segments V2, M5 and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately 1.10 mile, crossing Chandler Branch. The termination of Segment V2 is at the intersection of segments V2, X2, and K5.

Segment W2

Segment W2 begins at the intersection of segments U2, W2, W2a, M5, and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .25 mile and then turns southwest for approximately.19 mile. The segment turns southeast for approximately .68 mile. The termination of Segment W2 is at the intersection of segments W2, Y2, Z2, and O5.

Segment W2a

Segment W2a begins at the intersection of segments U2, W2, W2a, M5, and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .15 mile and then angles to the south-southeast for approximately.11 mile. The segment turns southwest for approximately .20 mile. It then turns southeast for approximately .60 mile. The termination of Segment W2a is at the intersection of segments W2a, O5, and Q5.

Segment X2

Segment X2 begins at the intersection of segments V2, X2, and K5, located west from the intersection of Interstate Highway 35 (I-35) and Westinghouse Road. The segment proceeds in a southerly direction for approximately 1.30 miles by rebuilding an existing transmission line, crossing Chandler Branch, and FM 1431/East Whitestone Blvd. The termination of Segment X2 is at the intersection of segments X2, B3, and C3.

Segment Y2

Segment Y2 begins at the intersection of segments S2, Y2, and M3, located southwest from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .95 mile while paralleling the south side of FM 1431/East Whitestone Blvd., crossing Sam Bass Road and Dry Fork Creek. It then angles to the north-northeast for approximately .05 mile, crossing FM 1431/East Whitestone Blvd. The segment continues northeast for approximately .98 mile while paralleling the north side of FM 1431/East Whitestone Blvd. The termination of Segment Y2 is at the intersection of segments W2, Y2, Z2, and O5.

Segment Z2

Segment Z2 begins at the intersection of segments W2, Y2, Z2, and O5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment Z2 is at the intersection of segments Z2, A3, and P5.

Segment A3

Segment A3 begins at the intersection of segments Z2, A3, and P5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .82 mile. It then turns northeast for approximately .70 mile. The termination of Segment A3 is at the intersection of segments A3, D3, F3, and R5.

Segment A3a

Segment A3a begins at the intersection of segments A3a, B3, P5, and Q5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .27 mile and then angles south for approximately .14 mile. The segment angles southeast for approximately .36 mile. It then turns northeast for approximately .68 mile. The termination of Segment A3a is at the intersection of segments A3a, D3a, and R5.

Segment B3

Segment B3 begins at the intersection of segments A3a, B3, P5, and Q5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately 1.66 mile while paralleling the south side of FM 1431/East Whitestone Blvd., crossing Onion Branch. It then angles to the southeast for approximately .14 mile. The termination of Segment B3 is at the intersection of segments X2, B3, and C3.

Segment C3

Segment C3 begins at the intersection of segments X2, B3, and C3, located west from the intersection of Interstate Highway 35 (I-35) and FM 1431/East Whitestone Blvd. The segment proceeds south for approximately .60 mile by rebuilding an existing transmission line. The termination of Segment C3 is at the intersection of segments C3, E3, and H3.

Segment D3

Segment D3 begins at the intersection of segments A3, D3, F3, and R5, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .30 mile, crosses Onion Branch, and then proceeds northeast for approximately .30 mile. It then angles north-northeast for approximately .10 mile. The termination of Segment D3 is at the intersection of segments D3, D3a, E3, and G3.

Segment D3a

Segment D3a begins at the intersection of segments A3a, D3a, and R5, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .25 mile, crosses Onion Branch, and then proceeds northeast for approximately .35 mile. It then angles east for approximately .10 mile. The termination of Segment D3a is at the intersection of segments D3, D3a, E3, and G3.

Segment E3

Segment E3 begins at the intersection of segments D3, D3a, E3, and G3, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds east for approximately .20 mile. The termination of Segment E3 is at the intersection of segments C3, E3, and H3.

Segment F3

Segment F3 begins at the intersection of segments A3, D3, F3, and R5, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .34 mile and then angles southwest for approximately .73 mile. The segment turns northwest for approximately .11 mile while paralleling the north side of Sam Bass Road. It then turns southwest for approximately .04 mile, crossing Sam Bass Road. The termination of Segment F3 is at the intersection of segments F3, O3, and U3.

Segment G3

Segment G3 begins at the intersection of segments D3, D3a, E3, and G3, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds south for approximately 1.00 mile by rebuilding an existing transmission line, crossing Onion Branch. The termination of Segment G3 is at the intersection of segments G3, H3, and I3.

Segment H3

Segment H3 begins at the intersection of segments C3, E3, and H3, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .05 mile, crossing an existing transmission line, a railroad, and an existing transmission line. It then turns south for approximately .86 mile while paralleling the east side of an existing transmission line. The segment turns southwest for approximately .07 mile, crossing an existing transmission line and a railroad. It then angles to the west-southwest for approximately .16 mile while paralleling the north side of FM 3406/W. Old Settlers Blvd., crossing Onion Branch and an existing transmission line. The termination of Segment H3 is at the intersection of segments G3, H3, and I3.

Segment I3

Segment I3 begins at the intersection of segments G3, H3, and I3, located west from the intersection of I-35 and FM 3406/W. Old Settlers Blvd. The segment proceeds south for approximately .80 mile by rebuilding an existing transmission line, crossing FM 3409 and Onion Branch twice. It then angles to the southeast for approximately .03 mile while paralleling the east side of an existing transmission line. The segment turns southwest for approximately .03 mile while paralleling the north side of an existing transmission line, crossing two existing transmission lines. The termination of Segment I3 is at the intersection of segments I3, G4, and J4.

Segment J3

Segment J3 begins at the intersection of segments K2, J3, and N3, located southeast from the intersection of West Parmer Lane and FM 1431/East Whitestone Blvd. The segment proceeds in a northeasterly direction for approximately .60 mile while paralleling the south side of FM 1431/East Whitestone Blvd., crossing Brushy Creek. The termination of Segment J3 is at the intersection of segments M2, J3, and K3.

Segment K3

Segment K3 begins at the intersection of segments M2, J3, and K3, located northeast from the intersection of West Parmer Lane and FM 1431/East Whitestone Blvd. The segment proceeds in a northeasterly direction for approximately .20 mile while paralleling the south side of FM 1431/East Whitestone Blvd. The termination of Segment K3 is at the intersection of segments P2, K3, and L3.

Segment L3

Segment L3 begins at the intersection of segments P2, K3, and L3, located northeast from the intersection of West Parmer Lane and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .37 mile. It then turns northeast for approximately .28 mile. The segment continues northeast for approximately .20 mile while paralleling the south side of Thousand Oaks Drive. The termination of Segment L3 is at the intersection of segments L3, M3, and O3.

Segment M3

Segment M3 begins at the intersection of segments S2, Y2, and M3, located southwest from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .30 mile while paralleling the west side of Sam Bass Road. It then continues southeast for approximately .06 mile, crossing Thousand Oaks Drive. The termination of Segment M3 is at the intersection of segments L3, M3, and O3.

Segment N3

Segment N3 begins at the intersection of segments K2, J3, and N3, located southeast from the intersection of West Parmer Lane and FM 1431/East Whitestone Blvd. The segment proceeds in a southerly direction for approximately 1.38 miles while paralleling the east side of West Parmer Lane. It then continues south for approximately .28 mile and turns east for approximately .21 mile. The segment angles southeast for approximately .15 mile, crossing Brushy Creek Road. The segment turns east for approximately .43 mile and then angles to the northeast for approximately .28 mile, crossing Brushy Creek Road. It then angles in a northeasterly direction for approximately .66 mile while paralleling the north side of Brushy Creek Road. At this point, the segment then turns east for approximately .06 mile, crossing Brushy Creek Road and South Brushy Creek, and then angles northeast for approximately .04 mile. It then continues in a northeasterly direction for approximately .62 miles while paralleling the south side of Brushy Creek Road. The segment angles east for approximately .06 mile, crossing Great Oaks Drive. It then angles in a northeasterly direction for approximately .44 mile while paralleling the south side of Hairy Man Road, crossing Hairy Man Road. Finally, the segment continues northeast for approximately .30 mile while paralleling the north side of Hairy Man Road, crossing Brushy Creek, and then angles east for approximately .11 mile. The termination of Segment N3 is at the intersection of segments N3, U3, A4, B4, and B4a.

Segment O3

Segment O3 begins at the intersection of segments L3, M3, and O3, located south from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds east for approximately .15 mile. It then angles southeast for approximately .41 mile and then angles south-southeast for approximately .13 mile. The segment continues in a southeasterly direction for approximately .82 mile while paralleling the south side of Sam Bass Road. At this point, the segment then turns east for approximately .07 mile, crossing Sam Bass. It then continues in an easterly direction for approximately .29 mile while paralleling the north side of Sam Bass Road. The segment angles south-southeast for approximately .09 mile, crossing Sam Bass Road. Finally, the segment continues in a southeasterly direction for approximately .32 mile while paralleling the south side of Sam Bass Road. The termination of Segment O3 is at the intersection of segments F3, O3, and U3.

Segment U3

Segment U3 begins at the intersection of segments F3, O3, and U3, located west from the intersection of Sam Bass Road and FM 3406/W. Old Settlers Blvd. The segment proceeds southwest for approximately .12 mile, crossing Dry Fork Creek. It then angles southeast for approximately .20 mile. The termination of Segment U3 is at the intersection of segments N3, U3, A4, B4, and B4a.

Segment A4

Segment A4 begins at the intersection of segments N3, U3, A4, B4, and B4a, located southwest from the intersection of Sam Bass Road and FM 3406/W. Old Settlers Blvd. The segment proceeds southeast for approximately .12 mile, crossing Brushy Creek and Hairy Man Road. It then continues in a southeasterly direction for approximately .36 mile while paralleling the south side of Hairy Man Road. The segment continues southeast for approximately .05 mile and then angles to the northeast for approximately .08 mile, crossing Brushy Creek. The segment continues in a northeasterly direction for approximately .34 mile while paralleling the south side of Hairy Man Road. Finally, the segment turns in a southeasterly direction for approximately .14 mile while paralleling the west side of Sam Bass Road. The termination of Segment A4 is at the intersection of segments A4, D4, and E4.

Segment B4

Segment B4 begins at the intersection of segments N3, U3, A4, B4, and B4a, located southwest from the intersection of Sam Bass Road and FM 3406/W. Old Settlers Blvd. The segment proceeds southeast for approximately .53 mile, crossing Brushy Creek and Hairy Man Road. It then turns northeast for approximately .56 mile. The termination of Segment B4 is at the intersection of segments B4, F4, and S5.

Segment B4a

Segment B4a begins at the intersection of segments N3, U3, A4, B4, and B4a, located southwest from the intersection of Sam Bass Road and FM 3406/W. Old Settlers Blvd. The segment proceeds southeast for approximately .50 mile, crossing Brushy Creek and Hairy Man Road. It then turns northeast for approximately .48 mile and angles to the southeast for approximately .07 mile. The termination of Segment B4a is at the intersection of segments B4a, D4, F4a, and S5.

Segment D4

Segment D4 begins at the intersection of segments A4, D4, and E4, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southwest for approximately .14 mile. It then angles west-southwest for approximately .11 mile, crossing Brushy Creek. The termination of Segment D4 is at the intersection of segments B4a, D4, F4a, and S5.

Segment E4

Segment E4 begins at the intersection of segments A4, D4, and E4, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southeast for approximately .30 mile while paralleling the west side of Sam Bass Road. The termination of Segment E4 is at the intersection of segments E4, G4, and H4.

Segment F4

Segment F4 begins at the intersection of segments B4, F4, and S5, located south from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds south-southeast for approximately .10 mile and then angles southeast for approximately .14 mile. It then angles to the northeast for approximately .25 mile, crossing Brushy Creek, and then turns north for approximately .02 mile. The termination of Segment F4 is at the intersection of segments F4, F4a, and T5.

Segment F4a

Segment F4a begins at the intersection of segments B4a, D4, F4a, and S5, located south from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds south-southeast for approximately .12 mile and then angles southeast for approximately .09 mile. It then angles to the northeast for approximately .23 mile, crossing Brushy Creek. The termination of Segment F4a is at the intersection of segments F4, F4a, and T5.

Segment G4

Segment G4 begins at the intersection of segments E4, G4, and H4, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds northeast for approximately .10 mile crossing Sam Bass Road and paralleling the south side of Somerset Drive. It then turns southeast for approximately .03 mile. The termination of Segment G4 is at the intersection of segments I3, G4, and J4.

Segment H4

Segment H4 begins at the intersection of segments E4, G4, and H4, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southeast for approximately .10 mile while paralleling the west side of Sam Bass Road. The termination of Segment H4 is at the intersection of segments H4, I4, and T5.

Segment I4

Segment I4 begins at the intersection of segments H4, I4, and T5, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southeast for approximately .03 mile while paralleling the west side of Sam Bass Road. It then turns northeast for approximately .07 mile crossing Sam Bass Road while paralleling the south side of an existing transmission line. The termination of Segment I4 is at the Round Rock Substation, located approximately 1.00 mile west from the intersection of I-35 and Sam Bass Road.

Segment J4

Segment J4 begins at the intersection of segments I3, G4, and J4, located east from the intersection of Sam Bass Road and Somerset Drive. The segment proceeds southwest for approximately .03 mile while paralleling the north side of an existing transmission line. The termination of Segment J4 is at the Round Rock Substation, located approximately 1.00 mile west from the intersection of I-35 and Sam Bass Road.

Segment K4

Segment K4 begins at the intersection of segments D2, K4, and Substation Site 1-7, located southeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds in a southeasterly direction for approximately .30 mile while paralleling the west side of Sam Bass Road. The termination of Segment K4 is at the intersection of segments J2, T2, and K4.

Segment L4

Segment L4 begins at the intersection of segments K, L4, and S4, located southwest from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds northeast for approximately .13 mile, crossing Ronald Reagan Blvd., and then angles east-southeast for approximately .41 mile. The segment angles southeast for approximately .16 mile. The termination of Segment L4 is at the intersection of segments L4, M4, N4, and Substation Site 2-6.

Segment M4

Segment M4 begins at the intersection of segments L4, M4, N4, and Substation Site 2-6, located southeast from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds southeast for approximately .04 mile, crossing FM 2243. The termination of Segment M4 is at the intersection of segments S, M4, and R4.

Segment N4

Segment N4 begins at the intersection of segments L4, M4, N4, and Substation Site 2-6, located southeast from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds southwest for approximately .20 mile while paralleling the west side of FM 2243. The termination of Segment N4 is at the intersection of segments R, N4, and O4.

Segment O4

Segment O4 begins at the intersection of segments R, N4, and O4, located northeast from the intersection of Ronald Reagan Blvd. and FM 2243. The segment proceeds east for approximately .04 mile, crossing FM 2243. The termination of Segment O4 is at the intersection of segments T, O4, P4, and R4.

Segment P4

Segment P4 begins at the intersection of segments V, P4, and Q4, located northeast from the intersection of Ronald Reagan Blvd. and FM 2243. The segment proceeds northeast for approximately .04 mile, crossing Sam Bass Road. The termination of Segment P4 is at the intersection of segments T, O4, P4, and R4.

Segment Q4

Segment Q4 begins at the intersection of segments Q, R, and Q4, located northeast from the intersection of Ronald Reagan Blvd. and FM 2243. The segment proceeds east for approximately .04 mile, crossing FM 2243. The termination of Segment Q4 is at the intersection of segments V, P4, and Q4.

Segment R4

Segment R4 begins at the intersection of segments T, O4, P4, and R4, located northeast from the intersection of Ronald Reagan Blvd. and FM 2243. The segment proceeds northeast for approximately .20 mile while paralleling the east side of FM 2243. The termination of Segment R4 is at the intersection of segments S, M4, andR4.

Segment S4

Segment S4 begins at the intersection of segments K, L4, and S4, located southwest from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds southeast for approximately .40 mile while paralleling the west side of Ronald Reagan Blvd. The termination of Segment S4 is at the intersection of segments S4, A6, and C6.

Segment T4

Segment T4 begins at the intersection of segments W, Y, and T4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .10 mile. The termination of Segment T4 is at the intersection of segments X, T4, and Substation Site 2-3.

Segment U4

Segment U4 begins at the intersection of segments U4, V4, and H6, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .20 mile while paralleling the east side of Ronald Reagan Blvd, crossing Brushy Creek. The termination of Segment U4 is at the intersection of segments O, U4, and Substation Site 2-4.

Segment V4

Segment V4 begins at the intersection of segments U4, V4, and H6, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds east-southeast for approximately .46 mile and then angles southeast for approximately .19 mile. The segment angles east-southeast for approximately .15 mile. The termination of Segment V4 is at the intersection of segments I1, V4, W4, and X4.

Segment W4

Segment W4 begins at the intersection of segments X, J1, and W4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southwest for approximately .20 mile. The termination of Segment W4 is at the intersection of segments I1, V4, W4, and X4.

Segment X4

Segment X4 begins at the intersection of segments I1, V4, W4, and X4, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds east-southeast for approximately .07 mile and then angles south-southeast for approximately .22 mile. The segment angles southeast for approximately .20 mile. The termination of Segment X4 is at the intersection of segments X4, Y4, and Z4.

Segment Y4

Segment Y4 begins at the intersection of segments X4, Y4, and Z4, located west from the intersection of Sam Bass Road and CR 177. The segment proceeds northeast for approximately .20 mile while paralleling the north side of CR 177. The termination of Segment Y4 is at the intersection of segments J1, Y4, and A5.

Segment Z4

Segment Z4 begins at the intersection of segments X4, Y4, and Z4, located west from the intersection of Sam Bass Road and CR 177. The segment proceeds southeast for approximately .10 mile, crossing CR 177. The termination of Segment Z4 is at the intersection of segments Z4, D6, and Substation Site 2-7.

Segment A5

Segment A5 begins at the intersection of segments J1, Y4, and A5, located west from the intersection of Sam Bass Road and CR 177. The segment proceeds in a southeasterly direction for approximately .40 mile while paralleling the west side of Sam Bass Road, crossing CR 177. The termination point of Segment A5 is at the intersection of segments L1, A5, and B5.

Segment B5

Segment B5 begins at the intersection of segments K1, B5, C5, and D6, located northwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds northeast for approximately .40 mile, crossing Brushy Creek. The termination of Segment B5 is at the intersection of segments L1, A5, and B5.

Segment C5

Segment C5 begins at the intersection of segments K1, B5, C5, and D6, located northwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .21 mile. It then angles southwest for approximately .06 mile and then angles southeast for approximately .04 mile. The termination of Segment C5 is at the intersection of segments M1, C5, and D5.

Segment D5

Segment D5 begins at the intersection of segments M1, C5, and D5, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .04 mile, crossing Journey Parkway. The termination of Segment D5 is at the intersection of segments D5, E5, and F5.

Segment E5

Segment E5 begins at the intersection of segments D5, E5, and F5, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds south for approximately .07 mile and then curves around to the southeast for approximately .33 mile. It then angles south-southeast for approximately .14 mile and then angles to the southwest for approximately .10 mile. The termination of Segment E5 is at the intersection of segments V1a, E5, G5, and H5.

Segment F5

Segment F5 begins at the intersection of segments G1, R1 and F5, located south from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .80 mile while paralleling the south side of Journey Parkway. The termination point of Segment F5 is at the intersection of segments D5, E5, and F5.

Segment G5

Segment G5 begins at the intersection of segments V1a, E5, G5, and H5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .10 mile, crossing Brushy Creek. The termination point of Segment G5 is at the intersection of segments S1, W1, Y1, Z1, and G5.

Segment H5

Segment H5 begins at the intersection of segments V1a, E5, G5, and H5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .03 mile. The termination point of Segment H5 is at the intersection of segments V1, W1, X1, and H5.

Segment I5

Segment I5 begins at the intersection of segments A1, I5, and J5, located northwest from the intersection of I-35 and Westinghouse Road. The segment proceeds northeast for approximately .51 mile. It then turns east for approximately .09 mile and then turns southeast for approximately .49 mile. The termination of Segment I5 is at the intersection of segments I5, J5 and K5.

Segment J5

Segment J5 begins at the intersection of segments A1, I5, and J5, located northwest from the intersection of I-35 and Westinghouse Road. The segment proceeds southeast for approximately .70 mile. The termination of Segment J5 is at the intersection of segments I5, J5 and K5.

Segment K5

Segment K5 begins at the intersection of segments I5, J5, and K5, located northwest from the intersection of I-35 and Westinghouse Road. The segment proceeds southeast for approximately .18 mile. It continues in a southerly direction for approximately .76 mile by rebuilding an existing transmission line, crossing West Fork Smith Branch twice. The segment angles southwest for approximately .03 mile and then turns south for approximately .08 mile. It then angles southeast for approximately .05 mile. The segment continues south for approximately .96 mile by rebuilding an existing transmission line. The termination of Segment K5 is at the intersection of segments V2, X2, and K5.

Segment L5

Segment L5 begins at the intersection of segments R1, U1a, and L5, located south from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .04 mile while paralleling the east side of Ronald Reagan Blvd. The termination point of Segment L5 is at the intersection of segments U1, B2, and L5.

Segment M5

Segment M5 begins at the intersection of segments U2, W2, W2a, M5, and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately 1.00 mile. The termination of Segment M5 is at the intersection of segments V2, M5, and N5.

Segment N5

Segment N5 begins at the intersection of segments U2, W2, W2a, M5, and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds north-northeast for approximately .60 mile and then angles to the northeast for approximately.30 mile. It then angles southeast for approximately .32 mile. The termination of Segment N5 is at the intersection of segments V2, M5, and N5.

Segment O5

Segment O5 begins at the intersection of segments W2, Y2, Z2, and O5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .04 mile while paralleling the north side of FM 1431/East Whitestone Blvd. The termination of Segment O5 is at the intersection of segments W2a, O5, and Q5.

Segment P5

Segment P5 begins at the intersection of segments Z2, A3, and P5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .04 mile while paralleling the south side of FM 1431/East Whitestone Blvd. The termination of Segment P5 is at the intersection of segments A3a, B3, P5, and Q5.

Segment Q5

Segment Q5 begins at the intersection of segments W2a, O5, and Q5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment Q5 is at the intersection of segments A3a, B3, P5, and Q5.

Segment R5

Segment R5 begins at the intersection of segments A3a, D3a, and R5, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .04 mile. The termination of Segment R5 is at the intersection of segments A3, D3, F3, and R5.

Segment S5

Segment S5 begins at the intersection of segments B4a, D4, F4a, and S5, located south from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southwest for approximately .04 mile. The termination of Segment S5 is at the intersection of segments B4, F4, and S5.

Segment T5

Segment T5 begins at the intersection of segments F4, F4a, and T5, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds north for approximately .04 mile while paralleling the west side of an existing transmission line. It then turns northeast for approximately .03 mile while paralleling the north side of an existing transmission line. The termination of Segment T5 is at the intersection of segments I4, H4, and T5.

Segment U5

Segment U5 begins at the intersection of segments B1, U5, and E6, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .37 mile and then turns southwest for approximately .11 mile. It then turns southeast for approximately .53 mile. The termination of Segment U5 is at the intersection of segments T2, U2, and U5.

Segment V5

Segment V5 begins at the intersection of segments T1, V5, and W5, located northwest from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .08 mile. It then angles south-southeasterly for approximately .24 mile while paralleling the west side of Sam Bass Road, crossing The Outer Avenue. The termination of Segment V5 is at the intersection of segments A2, D2, and V5.

Segment W5

Segment W5 begins at the intersection of segments T1, V5, and W5, located northwest from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately .10 mile, crossing Sam Bass Road. The termination of Segment W5 is at the intersection of segments W5, E6, and Substation Site 1-8.

Segment X5

Segment X5 begins at the intersection of segments F, X5, and Y5, located northwest from the intersection of US Hwy 183A and FM 2243. The segment proceeds northeast for approximately .70 mile, crossing US Hwy 183A and CR 269. The termination of Segment X5 is at the intersection of segments J, X5, and Z5.

Segment Y5

Segment Y5 begins at the intersection of segments F, X5, and Y5, located northwest from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .20 mile while paralleling the west side of US Hwy 183A, crossing FM 2243 and Brushy Creek. The termination of Segment Y5 is at the intersection of segments B, I, G, and Y5.

Segment Z5

Segment Z5 begins at the intersection of segments J, X5, and Z5, located northeast from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .10 mile. The termination of Segment Z5 is at the intersection of segments Z5, A6, and B6.

Segment A6

Segment A6 begins at the intersection of segments Z5, A6, and B6, located northeast from the intersection of US Hwy 183A and FM 2243. The segment proceeds northeast for approximately .90 mile. The termination of Segment A6 is at the intersection of segments S4, A6, and C6.

Segment B6

Segment B6 begins at the intersection of segments Z5, A6, and B6, located northeast from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .20 mile. It then turns east-southeast for approximately .02 mile while paralleling the north side of FM 2243. The termination of Segment B6 is at the intersection of segments G, L, and B6.

Segment C6

Segment C6 begins at the intersection of segments S4, A6, and C6, located southwest from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds southeast for approximately .20 mile while paralleling the west side of Ronald Reagan Blvd. The termination of Segment C6 is at the intersection of segments L, M, C6, and F6.

Segment D6

Segment D6 begins at the intersection of segments Z4, D6, and Substation Site 2-7, located southwest from the intersection of Sam Bass Road and CR 177. The segment proceeds southeast for approximately .30 mile, crossing Brushy Creek. The termination of Segment D6 is at the intersection of segments K1, B5, C5, and D6.

Segment E6

Segment E6 begins at the intersection of segments W5, E6, and Substation Site 1-8, located north from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately .27 mile and then turns northwest for approximately .38 mile. It then turns northeast for approximately 1.55 miles, crossing Dry Fork Creek. The termination of Segment E6 is at the intersection of segments B1, U5, and E6.

Segment F6

Segment F6 begins at the intersection of segments L, M, C6, and F6, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .20 mile crossing FM 2243 while paralleling the west side of Ronald Reagan Blvd. The termination of Segment F6 is at the intersection of segments F6, G6, and Substation Site 2-8.

Segment G6

Segment G6 begins at the intersection of segments F6, G6, and Substation Site 2-8, located south from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .10 mile, crossing Ronald Reagan Blvd. The termination of Segment G6 is at the intersection of segments N, G6, and H6.

Segment H6

Segment H6 begins at the intersection of segments N, G6, and H6, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .10 mile while paralleling the east side of Ronald Reagan Blvd. The termination of Segment H6 is at the intersection of segments U4, V4, and H6.

Landowners and Transmission Line Cases at the PUC

Public Utility Commission of Texas

1701 N. Congress Avenue
P.O. Box 13326
Austin, Texas 78711-3326
(512) 936-7261
www.puc.state.tx.us

Effective: June 1, 2011

Purpose of This Brochure

This brochure is intended to provide landowners with information about proposed new transmission lines and the Public Utility Commission's ("PUC" or "Commission") process for evaluating these proposals. At the end of the brochure is a list of sources for additional information.

The following topics are covered in this brochure:

- How the PUC evaluates whether a new transmission line should be built,
- How you can participate in the PUC's evaluation of a line, and
- How utilities acquire the right to build a transmission line on private property.

You are receiving the enclosed formal notice because one or more of the routes for a proposed transmission line may require an easement or other property interest across your property, or the centerline of the proposed project may come within 300 feet of a house or other habitable structure on your property. This distance is expanded to 500 feet if the proposed line is greater than 230 kilovolts (kV). For this reason, your property is considered **directly affected land.** This brochure is being included as part of the formal notice process.

If you have questions about the proposed routes for a transmission line, you may contact the applicant. The applicant also has a more detailed map of the proposed routes for the transmission line and nearby habitable structures. The applicant may help you understand the routing of the project and the application approval process in a transmission line case but cannot provide legal advice or represent you. ***The applicant cannot predict which route may or may not be approved by the PUC. The PUC decides which route to use for the transmission line, and the applicant is not obligated to keep you informed of the PUC's proceedings. The only way to fully participate in the PUC's decision on where to locate the transmission line is to intervene, which is discussed below.***

The PUC is sensitive to the impact that transmission lines have on private property. At the same time, transmission lines deliver electricity to millions of homes and businesses in Texas, and new lines are sometimes needed so that customers can obtain reliable, economical power.

The PUC's job is to decide whether a transmission line application should be approved and on which route the line should be constructed. The PUC values input from landowners and encourages you to participate in this process by intervening in the docket.

PUC Transmission Line Case

Texas law provides that most utilities must file an application with the PUC to obtain or amend a Certificate of Convenience and Necessity (CCN) in order to build a new transmission line in Texas. The law requires the PUC to consider a number of factors in deciding whether to approve a proposed new transmission line.

The PUC may approve an application to obtain or amend a CCN for a transmission line after considering the following factors:

- Adequacy of existing service;
- Need for additional service;
- The effect of approving the application on the applicant and any utility serving the proximate area;
- Whether the route utilizes existing compatible rights-of-way, including the use of vacant positions on existing multiple-circuit transmission lines;
- Whether the route parallels existing compatible rights-of-way;
- Whether the route parallels property lines or other natural or cultural features;
- Whether the route conforms with the policy of prudent avoidance (which is defined as the limiting of exposures to electric and magnetic fields that can be avoided with reasonable investments of money and effort); and
- Other factors such as community values, recreational and park areas, historical and aesthetic values, environmental integrity, and the probable improvement of service or lowering of cost to consumers in the area.

If the PUC decides an application should be approved, it will grant to the applicant a CCN or CCN amendment to allow for the construction and operation of the new transmission line.

Application to Obtain or Amend a CCN:

An application to obtain or amend a CCN describes the proposed line and includes a statement from the applicant describing the need for the line and the impact of building it. In addition to the routes proposed by the applicant in its application, the possibility exists that additional routes may be developed, during the course of a CCN case, that could affect property in a different manner than the original routes proposed by the applicant.

The PUC conducts a case to evaluate the impact of the proposed line and to decide which route should be approved. Landowners who would be affected by a new line can:

- informally file a protest, or
- formally participate in the case as an intervenor.

Filing a Protest (informal comments):

If you do not wish to intervene and participate in a hearing in a CCN case, you may file **comments.** An individual or business or a group who files only comments for or against any aspect of the transmission line application is considered a "protestor."

Protestors make a written or verbal statement in support of or in opposition to the utility's application and give information to the PUC staff that they believe supports their position.

Protestors are ***not*** parties to the case, however, and <u>*do **not** have the right to*</u>:

- Obtain facts about the case from other parties;
- Receive notice of a hearing, or copies of testimony and other documents that are filed in the case;
- Receive notice of the time and place for negotiations;
- File testimony and/or cross-examine witnesses;
- Submit evidence at the hearing; or
- Appeal P.U.C. decisions to the courts.

If you want to make comments, you may either send written comments stating your position, or you may make a statement on the first day of the hearing. If you have not intervened, however, you will not be able to participate as a party in the hearing. Only parties may submit evidence and ***the PUC must base its decision on the evidence.***

Intervening in a Case:

To become an intervenor, you must file a statement with the PUC, no later than the date specified in the notice letter sent to you with this brochure, requesting intervenor status (also referred to as a party). This statement should describe how the proposed transmission line would affect your property. Typically, intervention is granted only to directly affected landowners. However, any landowner may request to intervene and obtain a ruling on his or her specific fact situation and concerns. A sample form for intervention and the filing address are attached to this brochure, and may be used to make your filing. A letter requesting intervention may also be used in lieu of the sample form for intervention.

If you decide to intervene and become a party in a case, you will be required to follow certain procedural rules:

- You are required to timely respond to requests for information from other parties who seek information.
- If you file testimony, you must appear at a hearing to be cross-examined.
- If you file testimony or any letters or other documents in the case, you must send copies of the documents to every party in the case and you must file multiple copies with the PUC.
- If you intend to participate at the hearing and you do not file testimony, you must at least file a statement of position, which is a document that describes your position in the case.
- Failure to comply with these procedural rules may serve as grounds for you to be dismissed as an intervenor in the case.
- If you wish to participate in the proceedings it is very important to attend any prehearing conferences.

Intervenors may represent themselves or have an attorney to represent them in a CCN case. If you intervene in a case, you may want an attorney to help you understand the PUC's procedures and the laws and rules that the PUC applies in deciding whether to approve a transmission line. The PUC encourages landowners to intervene and become parties.

Stages of a CCN Case:

If there are persons who intervene in the case and oppose the approval of the line, the PUC may refer the case to an administrative law judge (ALJ) at the State Office of Administrative Hearings (SOAH) to conduct a hearing, or the Commission may elect to conduct a hearing itself. The hearing is a formal proceeding, much like a trial, in which testimony is presented. In the event the case is referred to SOAH, the ALJ makes a recommendation to the PUC on whether the application should be approved and where and how the line should be routed.

There are several stages of a CCN case:

- The ALJ holds a prehearing conference (usually in Austin) to set a schedule for the case.
- Parties to the case have the opportunity to conduct discovery; that is, obtain facts about the case from other parties.
- A hearing is held (usually in Austin), and parties have an opportunity to cross-examine the witnesses.
- Parties file written testimony before the date of the hearing. Parties that do not file written testimony or statements of position by the deadline established by the ALJ may not be allowed to participate in the hearing on the merits.
- Parties may file written briefs concerning the evidence presented at the hearing, but are not required to do so.
- In deciding where to locate the transmission line and other issues presented by the application, the ALJ and Commission rely on factual information submitted as evidence at the hearing by the parties in the case. In order to submit factual information as evidence (other than through cross-examination of other parties' witnesses), a party must have intervened in the docket and filed written testimony on or before the deadline set by the ALJ.
- The ALJ makes a recommendation, called a **proposal for decision**, to the Commission regarding the case. Parties who disagree with the ALJ's recommendation may file exceptions.
- The Commissioners discuss the case and decide whether to approve the application. The Commission may approve the ALJ's recommendation, approve it with specified changes, send the case back to the ALJ for further consideration, or deny the application. The written decision rendered by the Commission is called a **final order**. Parties who believe that the Commission's decision is in error may file motions for rehearing, asking the Commission to reconsider the decision.
- After the Commission rule on the motion for rehearing, parties have the right to appeal the decision to district court in Travis County.
-

Right to Use Private Property

The Commission is responsible for deciding whether to approve a CCN application for a proposed transmission line. If a transmission line route is approved that impacts your property, the electric utility must obtain the right from you to enter your property and to build, operate, and maintain the transmission line. This right is typically called an easement.

Utilities may buy easements through a negotiated agreement, but they also have the power of eminent domain (condemnation) under Texas law. Local courts, not the PUC, decide issues concerning easements for rights-of-way. The PUC does not determine the value of property.

The PUC final order in a transmission case normally requires a utility to take certain steps to minimize the impact of the new transmission line on landowners' property and on the environment. For example, the order normally requires steps to minimize the possibility of erosion during construction and maintenance activities.

HOW TO OBTAIN MORE INFORMATION

The PUC's online filings interchange on the PUC website provides free access to documents that are filed with the Commission in Central Records. The docket number, also called a control number on the PUC website, of a case is a key piece of information used in locating documents in the case. You may access the Interchange by visiting the PUC's website home page at www.puc.state.tx.us and navigate the website as follows:

- Select "Filings."
- Select "Filings Search."
- Select "Filings Search."
- Enter 5-digit Control (Docket) Number. *No other information is necessary*.
- Select "Search." *All of the filings in the docket will appear in order of date filed.*
- Scroll down to select desired filing.
- Click on a blue "Item" number at left.
- Click on a "Download" icon at left.

Documents may also be purchased from and filed in Central Records. For more information on how to purchase or file documents, call Central Records at the PUC at 512-936-7180.

PUC Substantive Rule 25.101, Certification Criteria, addresses transmission line CCNs and is available on the PUC's website, or you may obtain copies of PUC rules from Central Records.

Always include the docket number on all filings with the PUC. You can find the docket number on the enclosed formal notice. Send documents to the PUC at the following address.

Public Utility Commission of Texas
Central Records
Attn: Filing Clerk
1701 N. Congress Avenue
P.O. Box 13326
Austin, TX 78711-3326

The information contained within this brochure is not intended to provide a comprehensive guide to landowner rights and responsibilities in transmission line cases at the PUC. This brochure should neither be regarded as legal advice nor should it be a substitute for the PUC's rules. However, if you have questions about the process in transmission line cases, you may call the PUC's Legal Division at 512-936-7261. The PUC's Legal Division may help you understand the process in a transmission line case but cannot provide legal advice or represent you in a case. You may choose to hire an attorney to decide whether to intervene in a transmission line case, and an attorney may represent you if you choose to intervene.

Communicating with Decision-Makers

Do not contact the ALJ or the Commissioners by telephone or email. They are not allowed to discuss pending cases with you. They may make their recommendations and decisions only by relying on the evidence, written pleadings, and arguments that are presented in the case.

Request to Intervene in PUC Docket No. __________

The following information must be submitted by the person requesting to intervene in this proceeding. This completed form will be provided to all parties in this docket. **If you DO NOT want to be an intervenor, but still want to file comments, please complete the "Comments" page.**

Mail this completed form and 10 copies to:

Public Utility Commission of Texas
Central Records
Attn: Filing Clerk
1701 N. Congress Ave.
P.O. Box 13326
Austin, TX 78711-3326

First Name: ________________________________ Last Name: __________________________________

Phone Number: ___________________________ Fax Number: __________________________________

Address, City, State: ____

I am requesting to intervene in this proceeding. As an INTERVENOR, I understand the following:

- I am a party to the case;
- I am required to respond to all discovery requests from other parties in the case;
- If I file testimony, I may be cross-examined in the hearing;
- If I file any documents in the case, I will have to provide a copy of that document to every other party in the case; and
- I acknowledge that I am bound by the Procedural Rules of the Public Utility Commission of Texas (PUC) and the State Office of Administrative Hearings (SOAH).

Please check one of the following:

☐ I own property with a habitable structure located near one or more of the utility's proposed routes for a transmission line.

☐ One or more of the utility's proposed routes would cross my property.

☐ Other. Please describe and provide comments. You may attach a separate page, if necessary. ____________

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Signature of person requesting intervention:

____ Date: _______________

Comments in Docket No. ___________

If you want to be a PROTESTOR only, please complete this form. Although public comments are not treated as evidence, they help inform the PUC and its staff of the public concerns and identify issues to be explored. The PUC welcomes such participation in its proceedings.

Mail this completed form and 10 copies to:

Public Utility Commission of Texas
Central Records
Attn: Filing Clerk
1701 N. Congress Ave.
P.O. Box 13326
Austin, TX 78711-3326

First Name: ________________________________ Last Name: __________________________________

Phone Number: ___________________________ Fax Number: __________________________________

Address, City, State: ____

I am NOT requesting to intervene in this proceeding. As a PROTESTOR, I understand the following:

- I am NOT a party to this case;
- My comments are not considered evidence in this case; and
- I have no further obligation to participate in the proceeding.

Please check one of the following:

☐ I own property with a habitable structure located near one or more of the utility's proposed routes for a transmission line.

☐ One or more of the utility's proposed routes would cross my property.

☐ Other. Please describe and provide comments. You may attach a separate page, if necessary. ____________

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____

____

Signature of person submitting comments:

____ Date: _______________

ENERGY • WATER • COMMUNITY SERVICES

LCRA TRANSMISSION SERVICES CORPORATION

April 28, 2016

«Prefix» «Contact»
«FormalTitle»
«Organization»
«Address1»
«City», «State» «Zip»

RE: Application of LCRA Transmission Services Corporation to Amend its Certificate of Convenience and Necessity for the Proposed Leander-Round Rock 138-kV Transmission Line Project in Williamson County, Texas
PUBLIC UTILITY COMMISSION OF TEXAS (PUC) DOCKET NO. 45866

Dear «Formal»:

As part of our efforts to keep you and the public informed about electric transmission projects, we want you to know that LCRA Transmission Services Corporation (LCRA TSC) is requesting approval from the Public Utility Commission of Texas (PUC) to amend its Certificate of Convenience and Necessity (CCN) to construct the Leander-Round Rock 138-kV Transmission Line Project in southwestern Williamson County, Texas.

All routes and route segments included in this notice are available for selection and approval by the PUC.

The proposed transmission line will connect two new substations to the existing Leander and Round Rock substations. The entire project will be about 12 to 21 miles in length, and is estimated to cost approximately $67.8 million to $99.6 million, depending upon the final route chosen by the PUC.

If you have questions about the transmission line, you can call Senior Regulatory Case Manager Christian Powell at 512-578-4454 or 800-776-5272, ext. 4454. The descriptions of the proposed routing alternatives and a map showing the proposed alternative routes are enclosed for your convenience.

The CCN application, including detailed routing maps illustrating the proposed transmission line project and project area, may be reviewed on the project website at www.lcra.org/LRR, and at the LCRA office located at 3505 Montopolis Drive, Building D, Austin, Texas 78744. To make an appointment to obtain or review the map at LCRA, call 512-578-4454 or 800-776-5272, ext. 4454.

As discussed in the enclosed brochure, "Landowners and Transmission Line Cases at the PUC," any one of the proposed routes or a new combination of route segments filed in this application may be selected by the PUC. Additionally, the PUC may modify the proposed routes and segments into different configurations than those proposed, so long as they affect only noticed landowners.

The brochure (available from the PUC's website at www.puc.state.tx.us) also provides basic information about how you may participate in this docket, and how you may contact the PUC. Please read this brochure carefully. The brochure includes sample forms for making comments and for making a request to intervene as a party in this docket.

The only way to fully participate in the PUC's decision on where to locate the transmission line is to intervene in the docket. It is important for an affected person to intervene because LCRA TSC is not obligated to keep affected people informed of the PUC's proceedings and cannot predict which route may or may not be approved by the PUC.

In addition to the contacts listed in the brochure, you may call the PUC's Customer Assistance Hotline at 888-782-8477. Hearing- and speech-impaired individuals with text telephones (TTY) may contact the PUC's Customer Assistance Hotline at 512-936-7136, or toll free at 800-735-2989. If you wish to participate in this proceeding by becoming an intervenor, the deadline for intervention in the proceeding is June 13, 2016, and the PUC should receive a letter from you requesting intervention by that date. Mail the request for intervention and 10 copies of the request to:

Public Utility Commission of Texas
Central Records
Attn: Filing Clerk
1701 N. Congress Ave.
P.O. Box 13326
Austin, Texas 78711-3326

People who wish to intervene in the docket also must mail a copy of their request for intervention to all parties in the docket and all people who have pending motions to intervene at or before the time the request for intervention is mailed to the PUC. In addition to the intervention deadline, other important deadlines may already exist that affect your participation in this docket. You should review the orders and other filings already made in the docket. The enclosed brochure explains how you can access these filings.

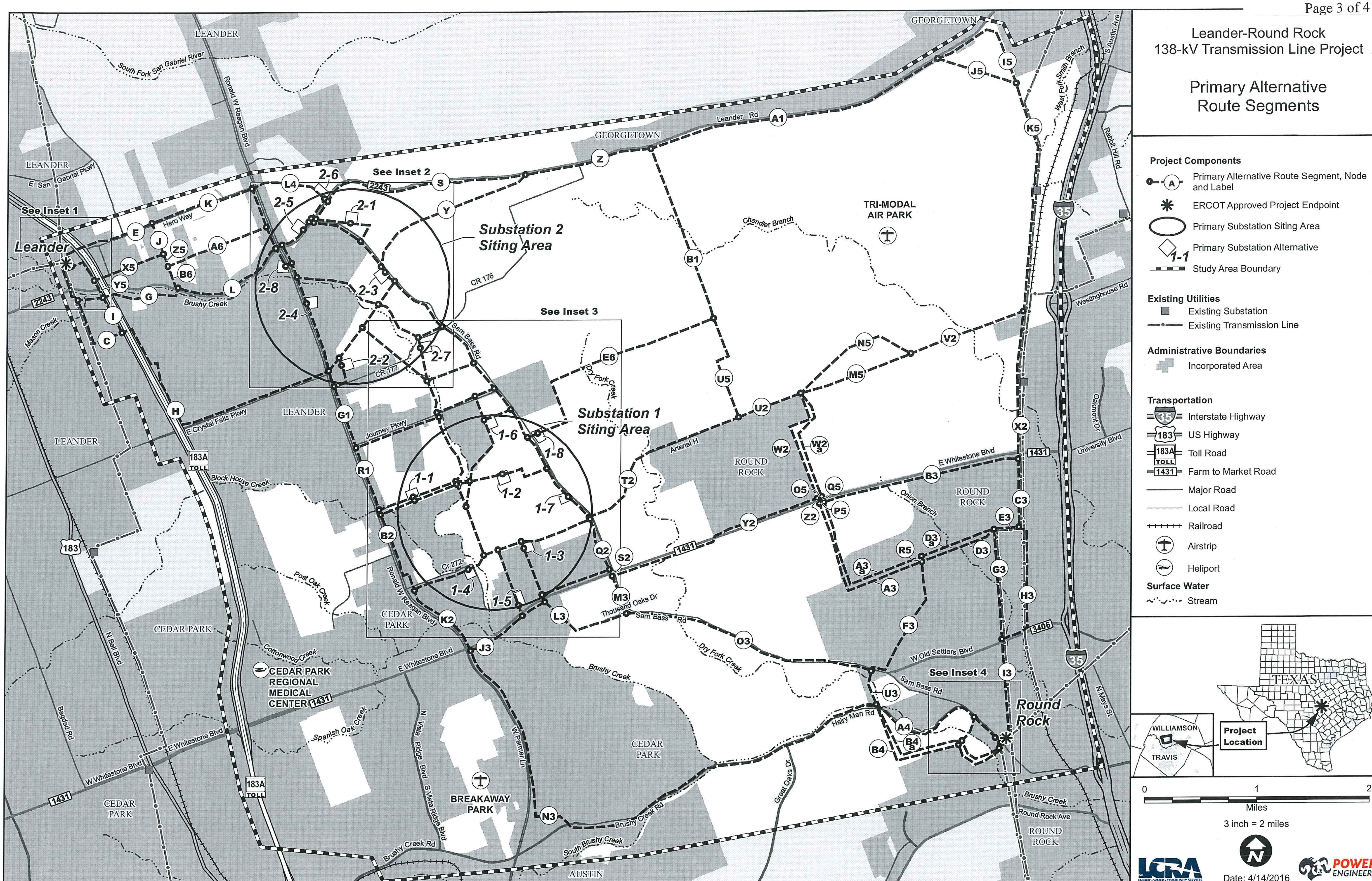
Thank you for your interest in this project.

Sincerely,

C Powell

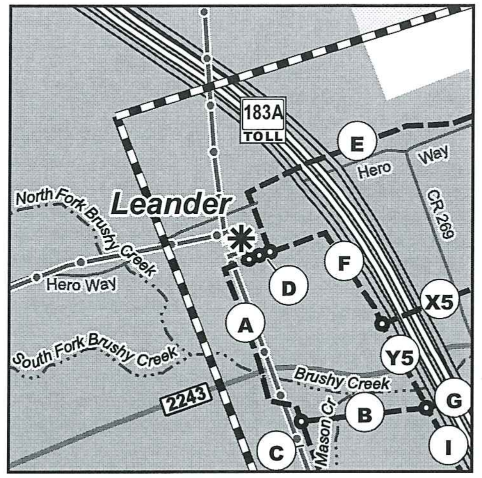
Christian Powell
Senior Regulatory Case Manager
Lower Colorado River Authority
P.O. Box 220, MS DSC-D204
Austin, Texas 78767-0220

Enclosures


Leander-Round Rock
138-kV Transmission Line Project
Primary Alternative
Route Segments
Project Components
Primary Alternative Route Segment, Node and Label
ERCOT Approved Project Endpoint
Primary Substation Siting Area
Primary Substation Alternative
Study Area Boundary
Existing Utilities
Existing Substation
Existing Transmission Line
Administrative Boundaries
Incorporated Area
Transportation
Interstate Highway
US Highway
Toll Road
Farm to Market Road
Major Road
Local Road
Railroad
Airstrip
Heliport
Surface Water
Stream
TEXAS
WILLIAMSON
TRAVIS
Project Location
0
1
2
Miles
3 inch = 2 miles
Date: 4/14/2016
POWER ENGINEERS
Substation 2 Siting Area
Substation 1 Siting Area
See Inset 1
See Inset 2
See Inset 3
See Inset 4
TRI-MODAL AIR PARK
CEDAR PARK REGIONAL MEDICAL CENTER
BREAKAWAY PARK
Leander
Round Rock
LEANDER
GEORGETOWN
ROUND ROCK
CEDAR PARK
AUSTIN

Leander-Round Rock
138-kV Transmission Line Project

Primary Alternative Route Segments



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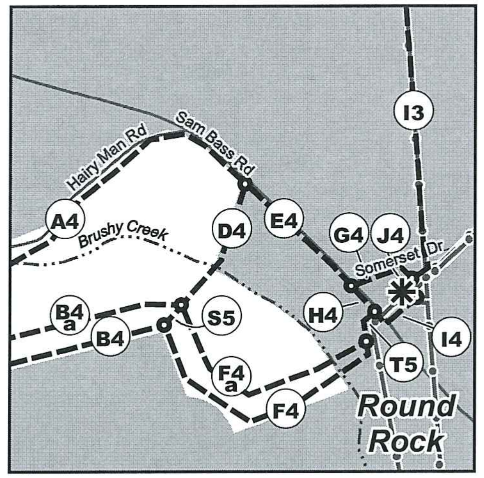
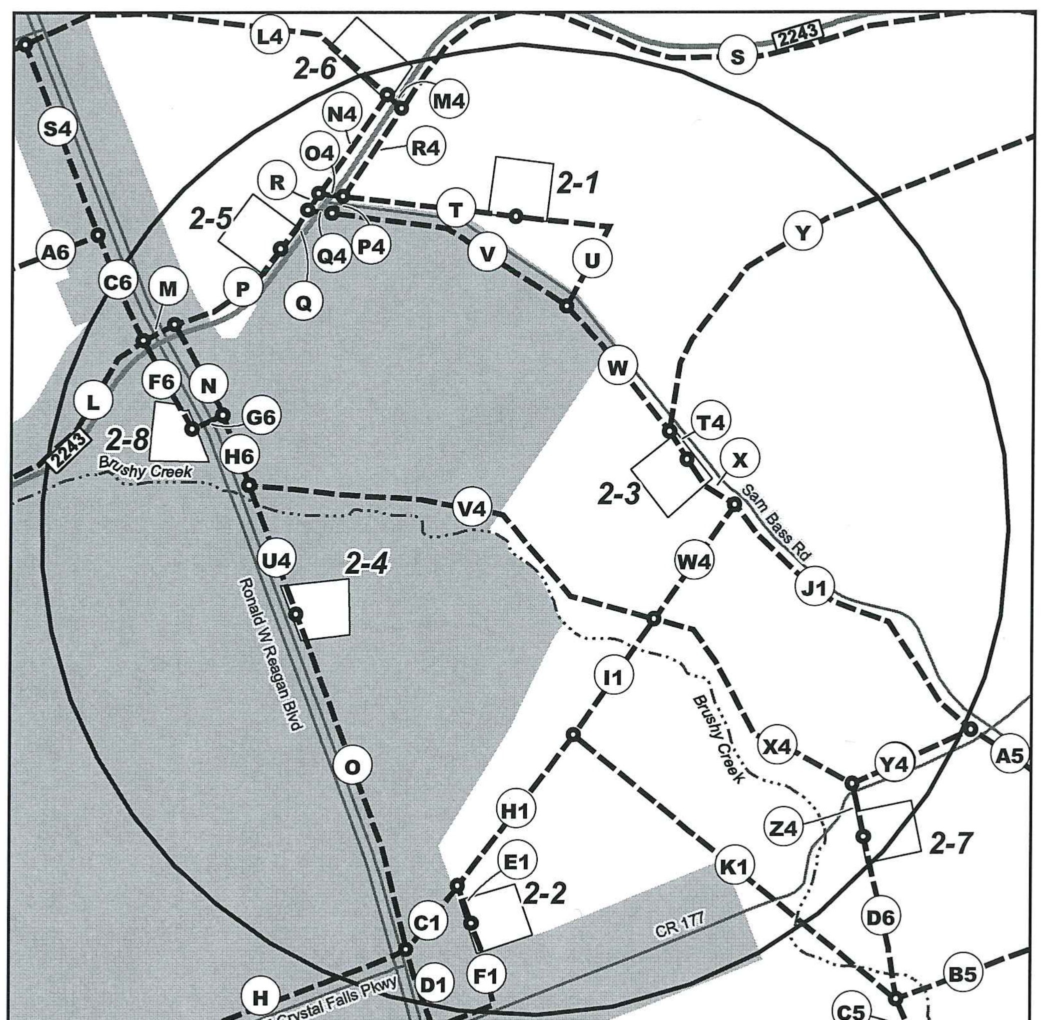
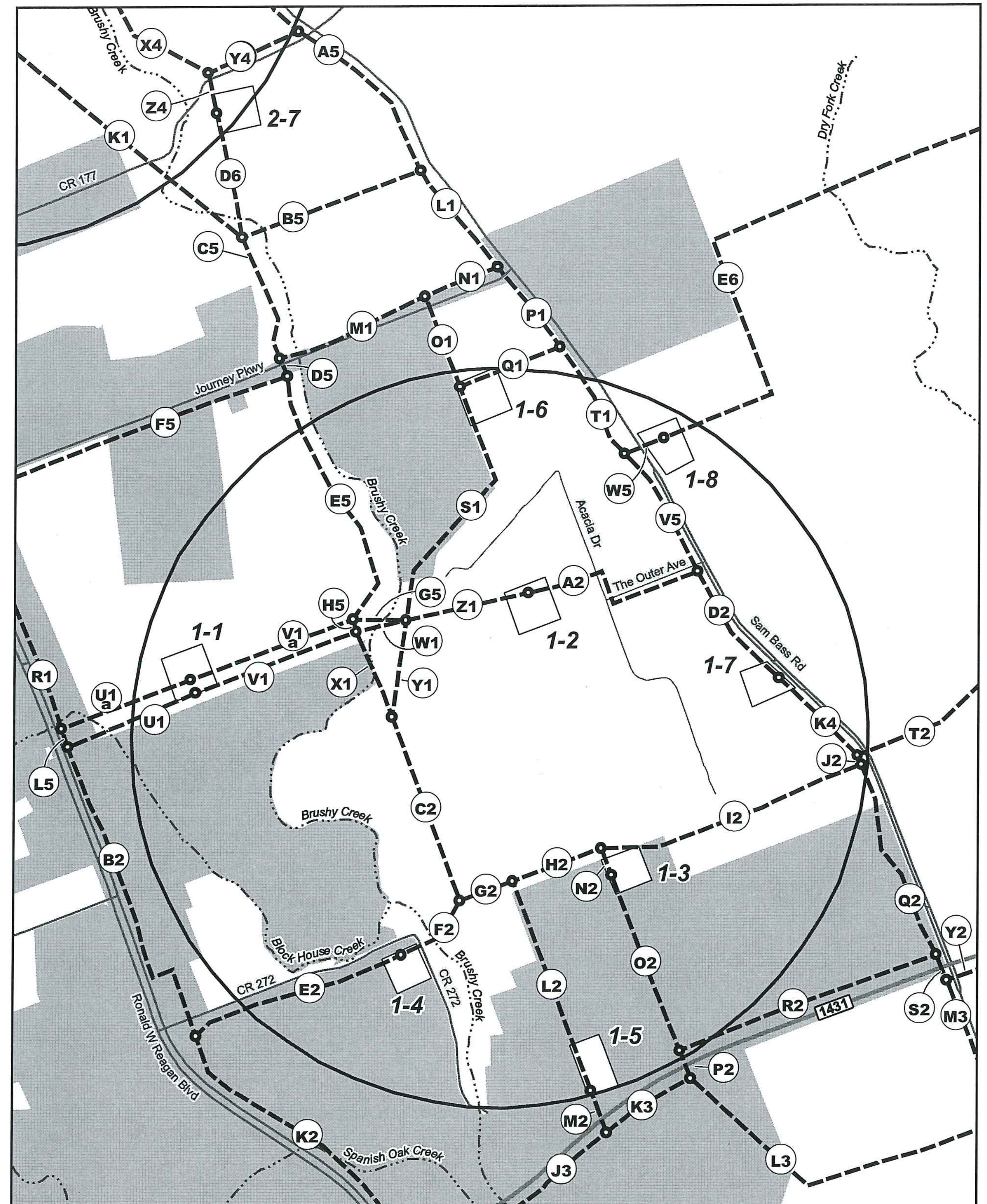
Leander Substation



Inset 4
Round Rock Substation



Inset 2
Substation Siting Area 2



Inset 3
Substation Siting Area 1

Project Components

- Primary Alternative Route Segment, Node and Label
- ERCOT Approved Project Endpoint
- Primary Substation Siting Area
- 1-1 Primary Substation Alternative
- Study Area Boundary

Existing Utilities

- Existing Transmission Line

Administrative Boundaries

- Incorporated Area

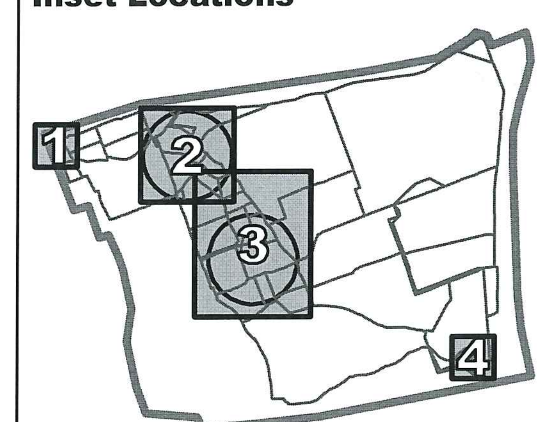
Transportation

- 1431 Farm to Market Road
- Major Road

Surface Water

- Stream

Inset Locations



0 2/3
Miles
3 inch = 1 mile

LCRA ENERGY • WATER • COMMUNITY SERVICES

Date: 4/14/2016

POWER ENGINEERS

Leander –Round Rock 138-kV Transmission Line Project
Segment Descriptions

Primary Alternative Routes	Segment Combinations
1	A-B-G-L-M-P-Q-Q4-V-W-T4-**2-3**-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-M5-V2-X2-C3-H3-I3-J4
2	A-B-G-L-M-P-**2-5**-Q-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-**1-8**-V5-D2-K4-J2-Q2-S2-Y2-Z2-P5-B3-C3-H3-I3-J4
3	A-B-G-L-F6-**2-8**-G6-H6-U4-O-D1-G1-F5-D5-M1-O1*-**1-6**-N1-L1-A5-J1-X-T4-Y-Z-A1-J5-K5-X2-C3-H3-I3-J4
4	D-F-Y5-I-H-D1-G1-F5-D5-M1-O1*-**1-6**-N1-L1-A5-J1-X-T4-W-V-P4-R4-M4*-**2-6**-S-Z-A1-I5-K5-X2-C3-E3-G3-I3-J4
5	A-C-H-C1-E1*-**2-2**-H1-K1-B5-L1-P1-T1-W5-**1-8**-E6-B1-A1-J5-K5-X2-C3-H3-I3-J4
6	D-F-X5-Z5-A6-C6-M-N-H6-U4-**2-4**-O-D1-G1-R1-L5-B2-E2-**1-4**-F2-G2-H2-I2-J2-T2-U5-B1-A1-J5-K5-X2-C3-H3-I3-J4
7	D-E-J-Z5-B6-L-M-P-Q-R-O4-T-**2-1**-U-W-T4-X-J1-A5-L1-P1-Q1*-**1-6**-T1-V5-D2-K4-T2-U2-N5-V2-X2-C3-E3-G3-I3-J4
8	D-E-K-L4-**2-6**-N4-R-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-K4-J2-I2-N2-**1-3**-O2-P2-L3-O3-U3-A4-E4-H4-I4
9	D-E-K-S4-C6-M-N-H6-V4-X4-Z4*-**2-7**-Y4-A5-L1-P1-T1-V5-D2-K4-J2-I2-H2-L2-**1-5**-M2-K3-L3-O3-U3-A4-E4-G4-J4
10	D-F-X5-Z5-A6-C6-M-N-H6-V4-X4-Z4-**2-7**-D6-C5-D5-E5-H5-X1-C2-G2-L2-**1-5**-M2-K3-L3-O3-U3-A4-D4-S5-F4-T5-I4
11	A-B-G-L-M-P-**2-5**-Q-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-**1-8**-V5-D2-K4-J2-Q2-S2-M3-O3-U3-B4-F4-T5-I4
12	A-B-G-L-M-P-**2-5**-Q-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-**1-8**-V5-D2-K4-J2-Q2-S2-M3-O3-U3-B4a-F4a-T5-I4
13	D-F-X5-Z5-A6-C6-M-N-H6-U4-**2-4**-O-D1-G1-R1-L5-U1-V1-W1-Z1-**1-2**-A2-D2-K4-T2-U2-W2-Z2-A3-D3-G3-I3-J4
14	D-F-X5-Z5-A6-C6-M-N-H6-U4-**2-4**-O-D1-G1-R1-U1a-V1a-G5-Z1-**1-2**-A2-D2-K4-T2-U2-W2a-Q5-A3a-D3a-G3-I3-J4
15	D-E-K-S4-C6-M-N-H6-U4-**2-4**-O-D1-G1-R1-L5-U1*-**1-1**-B2-K2-N3-A4-E4-G4-J4
16	D-F-X5-Z5-A6-C6-M-P-Q-Q4-V-W-T4-X-W4-I1-H1-E1-**2-2**-F1-G1-R1-L5-B2-K2-J3-M2*-**1-5**-K3-P2-R2-S2-Y2-O5-Q5-A3a-R5-F3-U3-B4-F4-T5-I4
17	D-F-Y5-I-H-C1-E1*-**2-2**-H1-K1-C5-M1-O1-S1-Y1-C2-G2-H2-N2-**1-3**-O2-P2-L3-O3-U3-A4-E4-H4-I4
18	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-**1-8**-V5-D2-K4-T2-U2-W2-Z2-P5-B3-C3-E3-G3-I3-J4
19	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-**1-8**-V5-D2-K4-T2-U2-W2A-Q5-B3-C3-E3-G3-I3-J4

Primary Alternative Routes	Segment Combinations
20	D-F-X5-Z5-A6-S4-L4-**2-6**-N4-R-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-**1-8**-V5-D2-K4-J2-Q2-S2-Y2-Z2-P5-B3-C3-H3-I3-J4
21	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5-**1-8**-E6-U5-U2-W2A-Q5-B3-C3-E3-G3-I3-J4
22	A-B-G-L-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5-**1-8**-E6-U5-U2-W2A-Q5-B3-C3-E3-G3-I3-J4
23	D-E-J-Z5-B6-L-M-N-H6-V4-X4-Z4-**2-7**-D6-C5-D5-E5-G5-Y1-C2-G2-H2-N2-**1-3**-O2-R2-S2-Y2-O5-Q5-A3a-R5-F3-U3-B4a-F4a-T5-I4
24	D-E-J-Z5-B6-L-M-N-H6-V4-X4-Z4-**2-7**-D6-C5-D5-E5-G5-Y1-C2-G2-H2-N2-**1-3**-O2-R2-S2-Y2-Z2-A3-F3-U3-B4-F4-T5-I4
25	D-E-K-L4-**2-6**-N4-R-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-W2-Z2-P5-B3-C3-E3-G3-I3-J4
26	D-E-K-L4-**2-6**-N4-R-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-W2a-Q5-B3-C3-E3-G3-I3-J4
27	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-W2-Z2-P5-B3-C3-H3-I3-J4
28	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-W2a-Q5-B3-C3-H3-I3-J4
29	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-M5-V2-X2-C3-E3-G3-I3-J4
30	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-**2-6**-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-T2-U2-N5-V2-X2-C3-H3-I3-J4
31	D-F-X5-Z5-A6-C6-F6*-**2-8**-M-P-Q-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-**1-7**-K4-J2-Q2-S2-Y2-Z2-P5-B3-C3-E3-G3-I3-J4

*These segments will be used entering and exiting the substation sites.

Segment A

Segment A begins at the Leander Substation, located approximately .10 mile southwest from the intersection of US Highway (US Hwy) 183A and Hero Way. The segment proceeds southwest for approximately .05 mile, crossing an existing transmission line. It then turns southeast for approximately .25 mile while paralleling the west side of an existing transmission line, crossing Farm-to-Market (FM) 2243 and Brushy Creek. The segment then angles to the east-southeast for approximately .05 mile, crossing an existing transmission line. It then turns southeast for approximately .03 mile while paralleling the east side of an existing transmission line. The termination of Segment A is at the intersection of segments A, B, and C.

Segment B

Segment B begins at the intersection of segments A, B, and C, located southwest from the intersection of US Hwy 183A and FM 2243. The segment proceeds east for approximately .20 mile, crossing Mason Creek. The termination of Segment B is at the intersection of segments B, G, I, and Y5.

Segment C

Segment C begins at the intersection of segments A, B, and C, located southwest from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .41 mile while paralleling the east side of an existing transmission line, crossing Mason Creek. The segment then turns northeast for approximately .27 mile. The termination of Segment C is at the intersection of segments C, I, and H.

Segment D

Segment D begins at the Leander Substation, located approximately .10 mile southwest from the intersection of US Hwy 183A and Hero Way. The segment proceeds northeast for approximately .02 mile. The termination of Segment D is at the intersection of segments D, E, and F.

Segment E

Segment E begins at the intersection of segments D, E, and F, located southwest from the intersection of US Hwy 183A and Hero Way. The segment proceeds northwest for approximately .11 mile, crossing Hero Way. The segment then turns northeast for approximately .31 mile while paralleling the north side of Hero Way, crossing US Hwy 183A. It then angles to the southeast for approximately .08 mile. The segment continues to the northeast for approximately .42 mile while paralleling the north side of Hero Way. The termination of Segment E is at the intersection of segments E, J, and K.

Segment F

Segment F begins at the intersection of segments D, E, and F, located southwest from the intersection of US Hwy 183A and Hero Way. The segment proceeds northeast for approximately .10 mile. It then turns southeast for approximately .19 mile while paralleling the west side of US Hwy 183A. The termination of Segment F is at the intersection of segments F, X5, and Y5.

Segment G

Segment G begins at the intersection of segment B, G, I, and Y5, located south from the intersection of US Hwy 183A and FM 2243. The segment proceeds northeast for approximately .10 mile, crossing US Hwy 183A. It then angles to the southeast for approximately .18 mile and then angles to the east for approximately .24 mile. The segment then angles to the southeast for approximately .15 mile and then turns northeast for approximately .07 mile, crossing Brushy Creek and FM 2243. The termination of Segment G is at the intersection of segments G, L, and B6.

Segment H

Segment H begins at the intersection of segments C, H, and I, located south from the intersection of US Hwy 183Aand FM 2243. The segment proceeds northeast for approximately .09 mile, crossing US Hwy 183A. It then turns southeast for approximately .36 mile while paralleling the east side of US Hwy 183A. The segment then turns east for approximately .06 mile and then turns to the south for approximately .18 mile. The segment continues southeast for approximately .42 mile while paralleling the east side of US Hwy 183A. It then turns northeast for approximately 1.39 miles while paralleling the north side of East Crystal Falls Parkway, crossing Ronald Reagan Blvd. The termination of Segment H is at the intersection of segments H, O, C1, and D1.

Segment I

Segment I begins at the intersection of segments B, G, I, and Y5, located south from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .40 mile while paralleling the west side of US Hwy 183A. The termination of Segment I is at the intersection of segments C, H, and I.

Segment J

Segment J begins at the intersection of segments E, J, and K, located east from the intersection of US Hwy 183A and Hero Way. The segment proceeds southeast for approximately 0.30 mile, crossing Hero Way. The termination of Segment J is at the intersection of segments J, X5, and Z5.

Segment K

Segment K begins at the intersection of segments E, J, and K, located east from the intersection of US Hwy 183A and Hero Way. The segment proceeds northeast for approximately .43 mile while paralleling the north side of Hero Way and then angles to the southeast for approximately .09 mile, crossing Hero Way. It then continues northeast for approximately .42 mile while paralleling the south side of Hero Way. The termination of Segment K is at the intersection of segments K, L4, and S4.

Segment L

Segment L begins at the intersection of segments G, L, and B6, located east from the intersection of US Hwy 183A and FM 2243. The segment proceeds in an easterly direction for approximately 1.00 mile while paralleling the north side of FM 2243. The termination of Segment L is at the intersection of segments L, M, C6, and F6.

Segment M

Segment M begins at the intersection of Segments L, M, C6, and F6, located west from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .10 mile while paralleling the north side of FM 2243. The termination of Segment M is at the intersection of segments M, N, and P.

Segment N

Segment N begins at the intersection of segments M, N, and P, located east from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .20 mile while paralleling the east side of Ronald Reagan Blvd., crossing FM 2243. The termination of Segment N is at the intersection of segments N, G6, and H6.

Segment O

Segment O begins at the intersection of segments O, U4, and Substation Site 2-4, located south from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .60 mile while paralleling the east side of Ronald Reagan Blvd. The termination of Segment O is at the intersection of segments H, O, C1, and D1.

Segment P

Segment P begins at the intersection of segments M, N, and P, located east from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds in an easterly direction for approximately .20 mile while paralleling the north side of FM 2243. The termination of Segment P is at the intersection of segments P, Q, and Substation Site 2-5.

Segment Q

Segment Q begins at the intersection of segments P, Q, and Substation Site 2-5, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .10 mile while paralleling the north side of FM 2243. The termination of Segment Q is at the intersection of segments Q, R, and Q4.

Segment R

Segment R begins at the intersection of segments Q, R, and Q4, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .04 mile while paralleling the north side of FM 2243. The termination of Segment R is at the intersection of segments R, N4, and O4.

Segment S

Segment S begins at the intersection of segments S, M4, and R4, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment curves around in an easterly direction for approximately 1.18 miles while paralleling the south side of FM 2243. It then angles to the southeast for approximately .09 mile and then angles to the northeast for approximately .09 mile. The segment continues east for approximately .52 mile while paralleling the south side of FM 2243. The termination of Segment S is at the intersection of segments S, Y, and Z.

Segment T

Segment T begins at the intersection of segments T, O4, P4, and R4, located east from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .21 mile while paralleling the north side of Sam Bass Road. The segment continues southeast for approximately .10 mile. The termination of Segment T is at the intersection of segments T, U, and Substation Site 2-1.

Segment U

Segment U begins at the intersection of segments T, U, and Substation Site 2-1, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .17 mile. It then turns southwest for approximately .16 mile, crossing Sam Bass Road. The termination of Segment U is at the intersection of segments U, V, and W.

Segment V

Segment V begins at the intersection of segments V, P4, and Q4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds in a southeasterly direction for approximately .50 mile while paralleling the south side of Sam Bass Road. The termination of Segment V is at the intersection of segments U, V, and W.

Segment W

Segment W begins at the intersection of segments U, V, and W, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .30 mile while paralleling the south side of Sam Bass Road. The termination of Segment W is at the intersection of segments W, Y, and T4.

Segment X

Segment X begins at the intersection of segments X, T4, and Substation Site 2-3, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .06 mile and then angles east-southeast for approximately .06 mile. The termination point of Segment X is at the intersection of segments X, J1, and W4.

Segment Y

Segment Y begins at the intersection of segments W, Y, and T4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment curves around to the north-northeast for approximately .50 mile. It then continues to the northeast for approximately 1.00 mile. At this point, the segment angles to the north-northeast for approximately .10 mile. The termination point of Segment Y is at the intersection of segments S, Y, and Z.

Segment Z

Segment Z begins at the intersection of segments S, Y, and Z, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds in an easterly direction for approximately 1.10 miles while paralleling the south side of FM 2243, crossing County Road (CR) 176. The termination of Segment Z is at the intersection of segments Z, A1, and B1.

Segment A1

Segment A1 begins at the intersection of segments Z, A1, and B1, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .57 mile. It then continues in an easterly direction for approximately 2.13 miles while paralleling the south side of FM 2243. The termination of Segment A1 is at the intersection of segments A1, I5, and J5.

Segment B1

Segment B1 begins at the intersection of segments Z, A1, and B1, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately 1.60 miles, crossing Chandler Branch. The termination point of Segment B1 is at the intersection of segments B1, U5, and E6.

Segment C1

Segment C1 begins at the intersection of segments H, O, C1, and D1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds northeast for approximately .10 mile. The termination point of Segment C1 is at the intersection of segments C1, E1, and H1.

Segment D1

Segment D1 begins at the intersection of segments H, O, C1, and D1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .10 mile while paralleling the east side of Ronald Reagan Blvd. The termination point of Segment D1 is at the intersection of segments D1, F1, and G1.

Segment E1

Segment E1 begins at the intersection of segments C1, E1, and H1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .10 mile. The termination of Segment E1 is at the intersection of segments E1, F1, and Substation Site 2-2.

Segment F1

Segment F1 begins at the intersection of segments E1, F1, and Substation Site 2-2, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .15 mile. It then turns southwest for approximately .12 mile while paralleling the north side of CR177. The termination point of Segment F1 is at the intersection of segments D1, F1, and G1.

Segment G1

Segment G1 begins at the intersection of segments D1, F1, and G1, located south from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .60 mile while paralleling the east side of Ronald Reagan Blvd., crossing CR 177 and Journey Parkway. The termination of Segment G1 is at the intersection of segments G1, R1, and F5.

Segment H1

Segment H1 begins at the intersection of segments C1, E1, and H1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds northeast for approximately .30 mile. The termination point of Segment H1 is at the intersection of segments H1, I1, and K1.

Segment I1

Segment I1 begins at the intersection of segments I1, V4, W4, and X4, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southwest for approximately .30 mile. The termination point of Segment I1 is at the intersection of segments H1, I1, and K1.

Segment J1

Segment J1 begins at the intersection of segments X, J1, and W4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds in a southeasterly direction for approximately .35 mile while paralleling the west side of Sam Bass Road. It then angles south-southeast for approximately .11 mile. The segment then continues southeast for approximately .13 mile while paralleling the west side of Sam Bass Road. The termination point of Segment J1 is at the intersection of segments J1, Y4, and A5.

Segment K1

Segment K1 begins at the intersection of segments H1, I1, and K1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .70 mile, crossing CR 177 and Brushy Creek twice. The termination point of Segment K1 is at the intersection of segments K1, B5, C5, and D6.

Segment L1

Segment L1 begins at the intersection of segments L1, A5, and B5, located southeast from the intersection of CR 177 and Sam Bass Road. The segment proceeds southeast for approximately .30 mile while paralleling the west side of Sam Bass Road. The termination point of Segment L1 is at the intersection of segments L1, N1, and P1.

Segment M1

Segment M1 begins at the intersection of segments M1, C5, and D5, located northeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .40 mile while paralleling the north side of Journey Parkway, crossing Brushy Creek. The termination of Segment M1 is at the intersection of segments M1, N1, and O1.

Segment N1

Segment N1 begins at the intersections of segments M1, N1, and O1, located west from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds northeast for approximately .20 mile. The termination of Segment of N1 is at the intersection of segments L1, N1, and P1.

Segment O1

Segment O1 begins at the intersection of segments M1, N1, and O1, located west from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .20 mile, crossing Journey Parkway. The termination point of Segment O1 is at the intersection of segments O1, Q1, S1, and Substation Site 1-6.

Segment P1

Segment P1 begins at the intersection of segments L1, N1, and P1, located west from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .20 mile while paralleling the west side of Sam Bass Road, crossing Journey Parkway. The termination point of Segment P1 is at the intersection of segments P1, Q1, and T1.

Segment Q1

Segment Q1 begins at the intersection of segments O1, Q1, S1, and Substation Site 1-6, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds northeast for approximately .30 mile. The termination point of Segment Q1 is at the intersection of segments P1, Q1, and T1.

Segment R1

Segment R1 begins at the intersection of segments G1, R1 and F5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .60 mile while paralleling the east side of Ronald Reagan Blvd., crossing Block House Creek. The termination point of Segment R1 is at the intersection of segments R1, U1a, and L5.

Segment S1

Segment S1 begins at the intersection of segments O1, Q1, and Substation Site 1-6, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .23 mile and then angles to the southwest for approximately .29 mile. The segment then angles south-southwest for approximately .12 mile. The termination of Segment S1 is at the intersection of segments S1, W1, Y1, Z1, and G5.

Segment T1

Segment T1 begins at the intersection of segments P1, Q1, and T1, located south from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .14 mile while paralleling the west side of Sam Bass Road. It then angles to the south-southeast for approximately .10 mile. The segment then angles southeast for approximately .05 mile. The termination of Segment T1 is at the intersection of segments T1, V5, and W5.

Segment U1

Segment U1 begins at the intersection of segments U1, B2, and L5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .30 mile, crossing Block House Creek. The termination of Segment U1 is at the intersection of segments U1, V1, and Substation Site 1-1.

Segment U1a

Segment U1a begins at the intersection of segments R1, U1a, and L5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .30 mile, crossing Block House Creek.

The termination of Segment U1a is at the intersection of segments U1a, V1a, and Substation Site 1-1.

Segment V1

Segment V1 begins at the intersection of segments U1, V1, and Substation Site 1-1, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .40 mile. The termination of Segment V1 is at the intersection of segments V1, W1, X1, and H5.

Segment V1a

Segment V1a begins at the intersection of segments U1a, V1a, and Substation Site 1-1, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .40 mile. The termination of Segment V1a is at the intersection of segments V1a, E5, G5, and H5.

Segment W1

Segment W1 begins at the intersection of segments V1, W1, X1, and H5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .10 mile, crossing Brushy Creek. The termination of Segment W1 is at the intersection of segments S1, W1, Y1, Z1, and G5.

Segment X1

Segment X1 begins at the intersection of segments V1, W1, X1, and H5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .20 mile, crossing Brushy Creek. The termination of Segment X1 is at the intersection of segments X1, Y1, and C2.

Segment Y1

Segment Y1 begins at the intersection of segments S1, W1, Y1, Z1, and G5, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southwest for approximately .20 mile. The termination of Segment Y1 is at the intersection of segments X1, Y1, and C2.

Segment Z1

Segment Z1 begins at the intersection of segments S1, W1, Y1, Z1, and G5, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds northeast for approximately .30 mile. The termination of Segment Z1 is at the intersection of segments Z1, A2 and Substation Site 1-2.

Segment A2

Segment A2 begins at the intersection of segments Z1, A2 and Substation Site 1-2, located west from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately .18 mile, crossing Acacia Drive. It then turns southeast for approximately .08 mile while paralleling the east side of Acacia Drive, crossing The Outer Avenue. The segment turns northeast for approximately .21 mile while paralleling the south side of The Outer Avenue. The termination of Segment A2 is at the intersection of segments A2, D2, and V5.

Segment B2

Segment B2 begins at the intersection of segments U1, B2, and L5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .58 mile while paralleling the east side of Ronald Reagan Blvd. It then turns northeast for approximately .05 mile. The segment turns southeast for approximately .16 mile, crossing CR 272. The termination of Segment B2 is at the intersection of segments B2, E2, and K2.

Segment C2

Segment C2 begins at the intersection of segments X1, Y1, and C2, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .50 mile. The termination point of Segment C2 is at the intersection of segments C2, F2, and G2.

Segment D2

Segment D2 begins at the intersection of segments A2, D2, and V5, located southwest from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds in a southeasterly direction for approximately .30 mile while paralleling the west side of Sam Bass Road. The termination of Segment D2 is at the intersection of segments D2, K4, and Substation Site 1-7.

Segment E2

Segment E2 begins at the intersection of segments B2, E2, and K2, located southeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds north-northeast for approximately .05 mile and then angles to the northeast for approximately .48 mile. The termination point of Segment E2 is at the intersection of segments E2, F2, and Substation Site 1-4.

Segment F2

Segment F2 begins at the intersection of segments E2, F2, and Substation Site 1-4, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds northeast for approximately .10 mile, crossing CR 272 and Brushy

Creek. It then angles to the north-northeast for approximately .10 mile. The termination of Segment F2 is at the intersection of segments C2, F2, and G2.

Segment G2

Segment G2 begins at the intersection of segments C2, F2, and G2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds northeast for approximately .10 mile. The termination of Segment G2 is at the intersection of segments G2, H2, and L2.

Segment H2

Segment H2 begins at the intersection of segments G2, H2, and L2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds northeast for approximately .20 mile. The termination of Segment H2 is at the intersection of segments H2, I2, and N2.

Segment I2

Segment I2 begins at the intersection of segments H2, I2, and N2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .14 mile and then angles to the northeast for approximately .50 mile. The termination of Segment I2 is at the intersection of segments I2, J2, and Q2.

Segment J2

Segment J2 begins at the intersection of segments J2, T2 and K4, located southeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .02 mile while paralleling the west side of Sam Bass Road. The termination of Segment J2 is at the intersection of segments I2, J2 and Q2.

Segment K2

Segment K2 begins at the intersection of segments B2, E2, and K2, located southeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .09 mile. It then angles to the east-southeast for approximately .67 mile while paralleling the east side of Ronald Reagan Blvd., crossing Spanish Oak Creek and FM 1431/East Whitestone Blvd. The termination of Segment K2 is at the intersection of segments K2, J3, and N3.

Segment L2

Segment L2 begins at the intersection of segments G2, H2, and L2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .50 mile. The termination of Segment L2 is at the intersection of segments L2, M2, and Substation Site 1-5.

Segment M2

Segment M2 begins at the intersection of segments L2, M2, and Substation Site 1-5, located northeast from the intersection of Ronald Reagan Blvd. and FM 1431. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment M2 is at the intersection of segments M2, J3, and K3.

Segment N2

Segment N2 begins at the intersection of segments H2, I2, and N2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .10 mile. The termination of Segment N2 is at the intersection of segments N2, O2, and Substation Site 1-3.

Segment O2

Segment O2 begins at the intersection of segments N2, O2, and Substation Site 1-3, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .40 mile. The termination of Segment O2 is at the intersection of segments O2, P2, and R2.

Segment P2

Segment P2 begins at the intersection of segments O2, P2, and R2, located northeast from the intersection of Ronald Reagan Blvd. and FM 1431. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment P2 is at the intersection of segments P2, K3, and L3.

Segment Q2

Segment Q2 begins at the intersection of segments I2, J2 and Q2, located southeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .09 mile while paralleling the west side of Sam Bass Road. It then angles to the south for approximately .12 mile and then angles to the east-southeast for approximately .07 mile. The segment then angles southeast for approximately .21 mile while paralleling the west side of Sam Bass Road. The termination of Segment Q2 is at the intersection of segments Q2, R2 and S2.

Segment R2

Segment R2 begins at the intersection of segments O2, P2 and R2, located northeast from the intersection of Ronald Reagan Blvd. and FM 1431. The segment proceeds northeast for approximately .60 mile while paralleling the north side of FM 1431/East Whitestone Blvd. The termination of Segment R2 is at the intersection of segments Q2, R2 and S2.

Segment S2

Segment S2 begins at the intersection of segments Q2, R2 and S2, located northwest from the intersection of Sam Bass Road and FM 1431. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment S2 is at the intersection of segments S2, Y2, and M3.

Segment T2

Segment T2 begins at the intersection of segments J2, T2 and K4, located southeast from the intersection of Sam Bass Road and The Outer Avenue. The segment curves around to the east-northeast for approximately .70 mile, crossing Sam Bass Road. It then angles to the northeast for approximately .14 mile, crossing Dry Fork Creek. The segment continues northeast for approximately .51 mile while paralleling the north side of Arterial H. At this point, the segment continues northeast for approximately .34 mile. The termination of Segment T2 is at the intersection of segments T2, U2 and U5.

Segment U2

Segment U2 begins at the intersection of segments T2, U2 and U5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately .60 mile. The termination of Segment U2 is at the intersection of segments U2, W2, W2a, M5, and N5.

Segment V2

Segment V2 begins at the intersection of segments V2, M5 and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately 1.10 mile, crossing Chandler Branch. The termination of Segment V2 is at the intersection of segments V2, X2, and K5.

Segment W2

Segment W2 begins at the intersection of segments U2, W2, W2a, M5, and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .25 mile and then turns southwest for approximately.19 mile. The segment turns southeast for approximately .68 mile. The termination of Segment W2 is at the intersection of segments W2, Y2, Z2, and O5.

Segment W2a

Segment W2a begins at the intersection of segments U2, W2, W2a, M5, and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .15 mile and then angles to the south-southeast for approximately.11 mile. The segment turns southwest for approximately .20 mile. It then turns southeast for approximately .60 mile. The termination of Segment W2a is at the intersection of segments W2a, O5, and Q5.

Segment X2

Segment X2 begins at the intersection of segments V2, X2, and K5, located west from the intersection of Interstate Highway 35 (I-35) and Westinghouse Road. The segment proceeds in a southerly direction for approximately 1.30 miles by rebuilding an existing transmission line, crossing Chandler Branch, and FM 1431/East Whitestone Blvd. The termination of Segment X2 is at the intersection of segments X2, B3, and C3.

Segment Y2

Segment Y2 begins at the intersection of segments S2, Y2, and M3, located southwest from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .95 mile while paralleling the south side of FM 1431/East Whitestone Blvd., crossing Sam Bass Road and Dry Fork Creek. It then angles to the north-northeast for approximately .05 mile, crossing FM 1431/East Whitestone Blvd. The segment continues northeast for approximately .98 mile while paralleling the north side of FM 1431/East Whitestone Blvd. The termination of Segment Y2 is at the intersection of segments W2, Y2, Z2, and O5.

Segment Z2

Segment Z2 begins at the intersection of segments W2, Y2, Z2, and O5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment Z2 is at the intersection of segments Z2, A3, and P5.

Segment A3

Segment A3 begins at the intersection of segments Z2, A3, and P5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .82 mile. It then turns northeast for approximately .70 mile. The termination of Segment A3 is at the intersection of segments A3, D3, F3, and R5.

Segment A3a

Segment A3a begins at the intersection of segments A3a, B3, P5, and Q5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .27 mile and then angles south for approximately .14 mile. The segment angles southeast for approximately .36 mile. It then turns northeast for approximately .68 mile. The termination of Segment A3a is at the intersection of segments A3a, D3a, and R5.

Segment B3

Segment B3 begins at the intersection of segments A3a, B3, P5, and Q5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately 1.66 mile while paralleling the south side of FM 1431/East Whitestone Blvd., crossing Onion Branch. It then angles to the southeast for approximately .14 mile. The termination of Segment B3 is at the intersection of segments X2, B3, and C3.

Segment C3

Segment C3 begins at the intersection of segments X2, B3, and C3, located west from the intersection of Interstate Highway 35 (I-35) and FM 1431/East Whitestone Blvd. The segment proceeds south for approximately .60 mile by rebuilding an existing transmission line. The termination of Segment C3 is at the intersection of segments C3, E3, and H3.

Segment D3

Segment D3 begins at the intersection of segments A3, D3, F3, and R5, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .30 mile, crosses Onion Branch, and then proceeds northeast for approximately .30 mile. It then angles north-northeast for approximately .10 mile. The termination of Segment D3 is at the intersection of segments D3, D3a, E3, and G3.

Segment D3a

Segment D3a begins at the intersection of segments A3a, D3a, and R5, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .25 mile, crosses Onion Branch, and then proceeds northeast for approximately .35 mile. It then angles east for approximately .10 mile. The termination of Segment D3a is at the intersection of segments D3, D3a, E3, and G3.

Segment E3

Segment E3 begins at the intersection of segments D3, D3a, E3, and G3, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds east for approximately .20 mile. The termination of Segment E3 is at the intersection of segments C3, E3, and H3.

Segment F3

Segment F3 begins at the intersection of segments A3, D3, F3, and R5, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .34 mile and then angles southwest for approximately .73 mile. The segment turns northwest for approximately .11 mile while paralleling the north side of Sam Bass Road. It then turns southwest for approximately .04 mile, crossing Sam Bass Road. The termination of Segment F3 is at the intersection of segments F3, O3, and U3.

Segment G3

Segment G3 begins at the intersection of segments D3, D3a, E3, and G3, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds south for approximately 1.00 mile by rebuilding an existing transmission line, crossing Onion Branch. The termination of Segment G3 is at the intersection of segments G3, H3, and I3.

Segment H3

Segment H3 begins at the intersection of segments C3, E3, and H3, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .05 mile, crossing an existing transmission line, a railroad, and an existing transmission line. It then turns south for approximately .86 mile while paralleling the east side of an existing transmission line. The segment turns southwest for approximately .07 mile, crossing an existing transmission line and a railroad. It then angles to the west-southwest for approximately .16 mile while paralleling the north side of FM 3406/W. Old Settlers Blvd., crossing Onion Branch and an existing transmission line. The termination of Segment H3 is at the intersection of segments G3, H3, and I3.

Segment I3

Segment I3 begins at the intersection of segments G3, H3, and I3, located west from the intersection of I-35 and FM 3406/W. Old Settlers Blvd. The segment proceeds south for approximately .80 mile by rebuilding an existing transmission line, crossing FM 3409 and Onion Branch twice. It then angles to the southeast for approximately .03 mile while paralleling the east side of an existing transmission line. The segment turns southwest for approximately .03 mile while paralleling the north side of an existing transmission line, crossing two existing transmission lines. The termination of Segment I3 is at the intersection of segments I3, G4, and J4.

Segment J3

Segment J3 begins at the intersection of segments K2, J3, and N3, located southeast from the intersection of West Parmer Lane and FM 1431/East Whitestone Blvd. The segment proceeds in a northeasterly direction for approximately .60 mile while paralleling the south side of FM 1431/East Whitestone Blvd., crossing Brushy Creek. The termination of Segment J3 is at the intersection of segments M2, J3, and K3.

Segment K3

Segment K3 begins at the intersection of segments M2, J3, and K3, located northeast from the intersection of West Parmer Lane and FM 1431/East Whitestone Blvd. The segment proceeds in a northeasterly direction for approximately .20 mile while paralleling the south side of FM 1431/East Whitestone Blvd. The termination of Segment K3 is at the intersection of segments P2, K3, and L3.

Segment L3

Segment L3 begins at the intersection of segments P2, K3, and L3, located northeast from the intersection of West Parmer Lane and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .37 mile. It then turns northeast for approximately .28 mile. The segment continues northeast for approximately .20 mile while paralleling the south side of Thousand Oaks Drive. The termination of Segment L3 is at the intersection of segments L3, M3, and O3.

Segment M3

Segment M3 begins at the intersection of segments S2, Y2, and M3, located southwest from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .30 mile while paralleling the west side of Sam Bass Road. It then continues southeast for approximately .06 mile, crossing Thousand Oaks Drive. The termination of Segment M3 is at the intersection of segments L3, M3, and O3.

Segment N3

Segment N3 begins at the intersection of segments K2, J3, and N3, located southeast from the intersection of West Parmer Lane and FM 1431/East Whitestone Blvd. The segment proceeds in a southerly direction for approximately 1.38 miles while paralleling the east side of West Parmer Lane. It then continues south for approximately .28 mile and turns east for approximately .21 mile. The segment angles southeast for approximately .15 mile, crossing Brushy Creek Road. The segment turns east for approximately .43 mile and then angles to the northeast for approximately .28 mile, crossing Brushy Creek Road. It then angles in a northeasterly direction for approximately .66 mile while paralleling the north side of Brushy Creek Road. At this point, the segment then turns east for approximately .06 mile, crossing Brushy Creek Road and South Brushy Creek, and then angles northeast for approximately .04 mile. It then continues in a northeasterly direction for approximately .62 miles while paralleling the south side of Brushy Creek Road. The segment angles east for approximately .06 mile, crossing Great Oaks Drive. It then angles in a northeasterly direction for approximately .44 mile while paralleling the south side of Hairy Man Road, crossing Hairy Man Road. Finally, the segment continues northeast for approximately .30 mile while paralleling the north side of Hairy Man Road, crossing Brushy Creek, and then angles east for approximately .11 mile. The termination of Segment N3 is at the intersection of segments N3, U3, A4, B4, and B4a.

Segment O3

Segment O3 begins at the intersection of segments L3, M3, and O3, located south from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds east for approximately .15 mile. It then angles southeast for approximately .41 mile and then angles south-southeast for approximately .13 mile. The segment continues in a southeasterly direction for approximately .82 mile while paralleling the south side of Sam Bass Road. At this point, the segment then turns east for approximately .07 mile, crossing Sam Bass. It then continues in an easterly direction for approximately .29 mile while paralleling the north side of Sam Bass Road. The segment angles south-southeast for approximately .09 mile, crossing Sam Bass Road. Finally, the segment continues in a southeasterly direction for approximately .32 mile while paralleling the south side of Sam Bass Road. The termination of Segment O3 is at the intersection of segments F3, O3, and U3.

Segment U3

Segment U3 begins at the intersection of segments F3, O3, and U3, located west from the intersection of Sam Bass Road and FM 3406/W. Old Settlers Blvd. The segment proceeds southwest for approximately .12 mile, crossing Dry Fork Creek. It then angles southeast for approximately .20 mile. The termination of Segment U3 is at the intersection of segments N3, U3, A4, B4, and B4a.

Segment A4

Segment A4 begins at the intersection of segments N3, U3, A4, B4, and B4a, located southwest from the intersection of Sam Bass Road and FM 3406/W. Old Settlers Blvd. The segment proceeds southeast for approximately .12 mile, crossing Brushy Creek and Hairy Man Road. It then continues in a southeasterly direction for approximately .36 mile while paralleling the south side of Hairy Man Road. The segment continues southeast for approximately .05 mile and then angles to the northeast for approximately .08 mile, crossing Brushy Creek. The segment continues in a northeasterly direction for approximately .34 mile while paralleling the south side of Hairy Man Road. Finally, the segment turns in a southeasterly direction for approximately .14 mile while paralleling the west side of Sam Bass Road. The termination of Segment A4 is at the intersection of segments A4, D4, and E4.

Segment B4

Segment B4 begins at the intersection of segments N3, U3, A4, B4, and B4a, located southwest from the intersection of Sam Bass Road and FM 3406/W. Old Settlers Blvd. The segment proceeds southeast for approximately .53 mile, crossing Brushy Creek and Hairy Man Road. It then turns northeast for approximately .56 mile. The termination of Segment B4 is at the intersection of segments B4, F4, and S5.

Segment B4a

Segment B4a begins at the intersection of segments N3, U3, A4, B4, and B4a, located southwest from the intersection of Sam Bass Road and FM 3406/W. Old Settlers Blvd. The segment proceeds southeast for approximately .50 mile, crossing Brushy Creek and Hairy Man Road. It then turns northeast for approximately .48 mile and angles to the southeast for approximately .07 mile. The termination of Segment B4a is at the intersection of segments B4a, D4, F4a, and S5.

Segment D4

Segment D4 begins at the intersection of segments A4, D4, and E4, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southwest for approximately .14 mile. It then angles west-southwest for approximately .11 mile, crossing Brushy Creek. The termination of Segment D4 is at the intersection of segments B4a, D4, F4a, and S5.

Segment E4

Segment E4 begins at the intersection of segments A4, D4, and E4, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southeast for approximately .30 mile while paralleling the west side of Sam Bass Road. The termination of Segment E4 is at the intersection of segments E4, G4, and H4.

Segment F4

Segment F4 begins at the intersection of segments B4, F4, and S5, located south from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds south-southeast for approximately .10 mile and then angles southeast for approximately .14 mile. It then angles to the northeast for approximately .25 mile, crossing Brushy Creek, and then turns north for approximately .02 mile. The termination of Segment F4 is at the intersection of segments F4, F4a, and T5.

Segment F4a

Segment F4a begins at the intersection of segments B4a, D4, F4a, and S5, located south from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds south-southeast for approximately .12 mile and then angles southeast for approximately .09 mile. It then angles to the northeast for approximately .23 mile, crossing Brushy Creek. The termination of Segment F4a is at the intersection of segments F4, F4a, and T5.

Segment G4

Segment G4 begins at the intersection of segments E4, G4, and H4, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds northeast for approximately .10 mile crossing Sam Bass Road and paralleling the south side of Somerset Drive. It then turns southeast for approximately .03 mile. The termination of Segment G4 is at the intersection of segments I3, G4, and J4.

Segment H4

Segment H4 begins at the intersection of segments E4, G4, and H4, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southeast for approximately .10 mile while paralleling the west side of Sam Bass Road. The termination of Segment H4 is at the intersection of segments H4, I4, and T5.

Segment I4

Segment I4 begins at the intersection of segments H4, I4, and T5, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southeast for approximately .03 mile while paralleling the west side of Sam Bass Road. It then turns northeast for approximately .07 mile crossing Sam Bass Road while paralleling the south side of an existing transmission line. The termination of Segment I4 is at the Round Rock Substation, located approximately 1.00 mile west from the intersection of I-35 and Sam Bass Road.

Segment J4

Segment J4 begins at the intersection of segments I3, G4, and J4, located east from the intersection of Sam Bass Road and Somerset Drive. The segment proceeds southwest for approximately .03 mile while paralleling the north side of an existing transmission line. The termination of Segment J4 is at the Round Rock Substation, located approximately 1.00 mile west from the intersection of I-35 and Sam Bass Road.

Segment K4

Segment K4 begins at the intersection of segments D2, K4, and Substation Site 1-7, located southeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds in a southeasterly direction for approximately .30 mile while paralleling the west side of Sam Bass Road. The termination of Segment K4 is at the intersection of segments J2, T2, and K4.

Segment L4

Segment L4 begins at the intersection of segments K, L4, and S4, located southwest from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds northeast for approximately .13 mile, crossing Ronald Reagan Blvd., and then angles east-southeast for approximately .41 mile. The segment angles southeast for approximately .16 mile. The termination of Segment L4 is at the intersection of segments L4, M4, N4, and Substation Site 2-6.

Segment M4

Segment M4 begins at the intersection of segments L4, M4, N4, and Substation Site 2-6, located southeast from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds southeast for approximately .04 mile, crossing FM 2243. The termination of Segment M4 is at the intersection of segments S, M4, and R4.

Segment N4

Segment N4 begins at the intersection of segments L4, M4, N4, and Substation Site 2-6, located southeast from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds southwest for approximately .20 mile while paralleling the west side of FM 2243. The termination of Segment N4 is at the intersection of segments R, N4, and O4.

Segment O4

Segment O4 begins at the intersection of segments R, N4, and O4, located northeast from the intersection of Ronald Reagan Blvd. and FM 2243. The segment proceeds east for approximately .04 mile, crossing FM 2243. The termination of Segment O4 is at the intersection of segments T, O4, P4, and R4.

Segment P4

Segment P4 begins at the intersection of segments V, P4, and Q4, located northeast from the intersection of Ronald Reagan Blvd. and FM 2243. The segment proceeds northeast for approximately .04 mile, crossing Sam Bass Road. The termination of Segment P4 is at the intersection of segments T, O4, P4, and R4.

Segment Q4

Segment Q4 begins at the intersection of segments Q, R, and Q4, located northeast from the intersection of Ronald Reagan Blvd. and FM 2243. The segment proceeds east for approximately .04 mile, crossing FM 2243. The termination of Segment Q4 is at the intersection of segments V, P4, and Q4.

Segment R4

Segment R4 begins at the intersection of segments T, O4, P4, and R4, located northeast from the intersection of Ronald Reagan Blvd. and FM 2243. The segment proceeds northeast for approximately .20 mile while paralleling the east side of FM 2243. The termination of Segment R4 is at the intersection of segments S, M4, andR4.

Segment S4

Segment S4 begins at the intersection of segments K, L4, and S4, located southwest from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds southeast for approximately .40 mile while paralleling the west side of Ronald Reagan Blvd. The termination of Segment S4 is at the intersection of segments S4, A6, and C6.

Segment T4

Segment T4 begins at the intersection of segments W, Y, and T4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .10 mile. The termination of Segment T4 is at the intersection of segments X, T4, and Substation Site 2-3.

Segment U4

Segment U4 begins at the intersection of segments U4, V4, and H6, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .20 mile while paralleling the east side of Ronald Reagan Blvd, crossing Brushy Creek. The termination of Segment U4 is at the intersection of segments O, U4, and Substation Site 2-4.

Segment V4

Segment V4 begins at the intersection of segments U4, V4, and H6, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds east-southeast for approximately .46 mile and then angles southeast for approximately .19 mile. The segment angles east-southeast for approximately .15 mile. The termination of Segment V4 is at the intersection of segments I1, V4, W4, and X4.

Segment W4

Segment W4 begins at the intersection of segments X, J1, and W4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southwest for approximately .20 mile. The termination of Segment W4 is at the intersection of segments I1, V4, W4, and X4.

Segment X4

Segment X4 begins at the intersection of segments I1, V4, W4, and X4, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds east-southeast for approximately .07 mile and then angles south-southeast for approximately .22 mile. The segment angles southeast for approximately .20 mile. The termination of Segment X4 is at the intersection of segments X4, Y4, and Z4.

Segment Y4

Segment Y4 begins at the intersection of segments X4, Y4, and Z4, located west from the intersection of Sam Bass Road and CR 177. The segment proceeds northeast for approximately .20 mile while paralleling the north side of CR 177. The termination of Segment Y4 is at the intersection of segments J1, Y4, and A5.

Segment Z4

Segment Z4 begins at the intersection of segments X4, Y4, and Z4, located west from the intersection of Sam Bass Road and CR 177. The segment proceeds southeast for approximately .10 mile, crossing CR 177. The termination of Segment Z4 is at the intersection of segments Z4, D6, and Substation Site 2-7.

Segment A5

Segment A5 begins at the intersection of segments J1, Y4, and A5, located west from the intersection of Sam Bass Road and CR 177. The segment proceeds in a southeasterly direction for approximately .40 mile while paralleling the west side of Sam Bass Road, crossing CR 177. The termination point of Segment A5 is at the intersection of segments L1, A5, and B5.

Segment B5

Segment B5 begins at the intersection of segments K1, B5, C5, and D6, located northwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds northeast for approximately .40 mile, crossing Brushy Creek. The termination of Segment B5 is at the intersection of segments L1, A5, and B5.

Segment C5

Segment C5 begins at the intersection of segments K1, B5, C5, and D6, located northwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .21 mile. It then angles southwest for approximately .06 mile and then angles southeast for approximately .04 mile. The termination of Segment C5 is at the intersection of segments M1, C5, and D5.

Segment D5

Segment D5 begins at the intersection of segments M1, C5, and D5, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .04 mile, crossing Journey Parkway. The termination of Segment D5 is at the intersection of segments D5, E5, and F5.

Segment E5

Segment E5 begins at the intersection of segments D5, E5, and F5, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds south for approximately .07 mile and then curves around to the southeast for approximately .33 mile. It then angles south-southeast for approximately .14 mile and then angles to the southwest for approximately .10 mile. The termination of Segment E5 is at the intersection of segments V1a, E5, G5, and H5.

Segment F5

Segment F5 begins at the intersection of segments G1, R1 and F5, located south from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .80 mile while paralleling the south side of Journey Parkway. The termination point of Segment F5 is at the intersection of segments D5, E5, and F5.

Segment G5

Segment G5 begins at the intersection of segments V1a, E5, G5, and H5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .10 mile, crossing Brushy Creek. The termination point of Segment G5 is at the intersection of segments S1, W1, Y1, Z1, and G5.

Segment H5

Segment H5 begins at the intersection of segments V1a, E5, G5, and H5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .03 mile. The termination point of Segment H5 is at the intersection of segments V1, W1, X1, and H5.

Segment I5

Segment I5 begins at the intersection of segments A1, I5, and J5, located northwest from the intersection of I-35 and Westinghouse Road. The segment proceeds northeast for approximately .51 mile. It then turns east for approximately .09 mile and then turns southeast for approximately .49 mile. The termination of Segment I5 is at the intersection of segments I5, J5 and K5.

Segment J5

Segment J5 begins at the intersection of segments A1, I5, and J5, located northwest from the intersection of I-35 and Westinghouse Road. The segment proceeds southeast for approximately .70 mile. The termination of Segment J5 is at the intersection of segments I5, J5 and K5.

Segment K5

Segment K5 begins at the intersection of segments I5, J5, and K5, located northwest from the intersection of I-35 and Westinghouse Road. The segment proceeds southeast for approximately .18 mile. It continues in a southerly direction for approximately .76 mile by rebuilding an existing transmission line, crossing West Fork Smith Branch twice. The segment angles southwest for approximately .03 mile and then turns south for approximately .08 mile. It then angles southeast for approximately .05 mile. The segment continues south for approximately .96 mile by rebuilding an existing transmission line. The termination of Segment K5 is at the intersection of segments V2, X2, and K5.

Segment L5

Segment L5 begins at the intersection of segments R1, U1a, and L5, located south from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .04 mile while paralleling the east side of Ronald Reagan Blvd. The termination point of Segment L5 is at the intersection of segments U1, B2, and L5.

Segment M5

Segment M5 begins at the intersection of segments U2, W2, W2a, M5, and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately 1.00 mile. The termination of Segment M5 is at the intersection of segments V2, M5, and N5.

Segment N5

Segment N5 begins at the intersection of segments U2, W2, W2a, M5, and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds north-northeast for approximately .60 mile and then angles to the northeast for approximately.30 mile. It then angles southeast for approximately .32 mile. The termination of Segment N5 is at the intersection of segments V2, M5, and N5.

Segment O5

Segment O5 begins at the intersection of segments W2, Y2, Z2, and O5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .04 mile while paralleling the north side of FM 1431/East Whitestone Blvd. The termination of Segment O5 is at the intersection of segments W2a, O5, and Q5.

Segment P5

Segment P5 begins at the intersection of segments Z2, A3, and P5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .04 mile while paralleling the south side of FM 1431/East Whitestone Blvd. The termination of Segment P5 is at the intersection of segments A3a, B3, P5, and Q5.

Segment Q5

Segment Q5 begins at the intersection of segments W2a, O5, and Q5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment Q5 is at the intersection of segments A3a, B3, P5, and Q5.

Segment R5

Segment R5 begins at the intersection of segments A3a, D3a, and R5, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .04 mile. The termination of Segment R5 is at the intersection of segments A3, D3, F3, and R5.

Segment S5

Segment S5 begins at the intersection of segments B4a, D4, F4a, and S5, located south from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southwest for approximately .04 mile. The termination of Segment S5 is at the intersection of segments B4, F4, and S5.

Segment T5

Segment T5 begins at the intersection of segments F4, F4a, and T5, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds north for approximately .04 mile while paralleling the west side of an existing transmission line. It then turns northeast for approximately .03 mile while paralleling the north side of an existing transmission line. The termination of Segment T5 is at the intersection of segments I4, H4, and T5.

Segment U5

Segment U5 begins at the intersection of segments B1, U5, and E6, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .37 mile and then turns southwest for approximately .11 mile. It then turns southeast for approximately .53 mile. The termination of Segment U5 is at the intersection of segments T2, U2, and U5.

Segment V5

Segment V5 begins at the intersection of segments T1, V5, and W5, located northwest from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .08 mile. It then angles south-southeasterly for approximately .24 mile while paralleling the west side of Sam Bass Road, crossing The Outer Avenue. The termination of Segment V5 is at the intersection of segments A2, D2, and V5.

Segment W5

Segment W5 begins at the intersection of segments T1, V5, and W5, located northwest from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately .10 mile, crossing Sam Bass Road. The termination of Segment W5 is at the intersection of segments W5, E6, and Substation Site 1-8.

Segment X5

Segment X5 begins at the intersection of segments F, X5, and Y5, located northwest from the intersection of US Hwy 183A and FM 2243. The segment proceeds northeast for approximately .70 mile, crossing US Hwy 183A and CR 269. The termination of Segment X5 is at the intersection of segments J, X5, and Z5.

Segment Y5

Segment Y5 begins at the intersection of segments F, X5, and Y5, located northwest from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .20 mile while paralleling the west side of US Hwy 183A, crossing FM 2243 and Brushy Creek. The termination of Segment Y5 is at the intersection of segments B, I, G, and Y5.

Segment Z5

Segment Z5 begins at the intersection of segments J, X5, and Z5, located northeast from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .10 mile. The termination of Segment Z5 is at the intersection of segments Z5, A6, and B6.

Segment A6

Segment A6 begins at the intersection of segments Z5, A6, and B6, located northeast from the intersection of US Hwy 183A and FM 2243. The segment proceeds northeast for approximately .90 mile. The termination of Segment A6 is at the intersection of segments S4, A6, and C6.

Segment B6

Segment B6 begins at the intersection of segments Z5, A6, and B6, located northeast from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .20 mile. It then turns east-southeast for approximately .02 mile while paralleling the north side of FM 2243. The termination of Segment B6 is at the intersection of segments G, L, and B6.

Segment C6

Segment C6 begins at the intersection of segments S4, A6, and C6, located southwest from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds southeast for approximately .20 mile while paralleling the west side of Ronald Reagan Blvd. The termination of Segment C6 is at the intersection of segments L, M, C6, and F6.

Segment D6

Segment D6 begins at the intersection of segments Z4, D6, and Substation Site 2-7, located southwest from the intersection of Sam Bass Road and CR 177. The segment proceeds southeast for approximately .30 mile, crossing Brushy Creek. The termination of Segment D6 is at the intersection of segments K1, B5, C5, and D6.

Segment E6

Segment E6 begins at the intersection of segments W5, E6, and Substation Site 1-8, located north from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately .27 mile and then turns northwest for approximately .38 mile. It then turns northeast for approximately 1.55 miles, crossing Dry Fork Creek. The termination of Segment E6 is at the intersection of segments B1, U5, and E6.

Segment F6

Segment F6 begins at the intersection of segments L, M, C6, and F6, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .20 mile crossing FM 2243 while paralleling the west side of Ronald Reagan Blvd. The termination of Segment F6 is at the intersection of segments F6, G6, and Substation Site 2-8.

Segment G6

Segment G6 begins at the intersection of segments F6, G6, and Substation Site 2-8, located south from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .10 mile, crossing Ronald Reagan Blvd. The termination of Segment G6 is at the intersection of segments N, G6, and H6.

Segment H6

Segment H6 begins at the intersection of segments N, G6, and H6, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .10 mile while paralleling the east side of Ronald Reagan Blvd. The termination of Segment H6 is at the intersection of segments U4, V4, and H6.

Landowners and Transmission Line Cases at the PUC

Public Utility Commission of Texas

1701 N. Congress Avenue
P.O. Box 13326
Austin, Texas 78711-3326
(512) 936-7261
www.puc.state.tx.us

Effective: June 1, 2011

Purpose of This Brochure

This brochure is intended to provide landowners with information about proposed new transmission lines and the Public Utility Commission's ("PUC" or "Commission") process for evaluating these proposals. At the end of the brochure is a list of sources for additional information.

The following topics are covered in this brochure:
- How the PUC evaluates whether a new transmission line should be built,
- How you can participate in the PUC's evaluation of a line, and
- How utilities acquire the right to build a transmission line on private property.

You are receiving the enclosed formal notice because one or more of the routes for a proposed transmission line may require an easement or other property interest across your property, or the centerline of the proposed project may come within 300 feet of a house or other habitable structure on your property. This distance is expanded to 500 feet if the proposed line is greater than 230 kilovolts (kV). For this reason, your property is considered **directly affected land.** This brochure is being included as part of the formal notice process.

If you have questions about the proposed routes for a transmission line, you may contact the applicant. The applicant also has a more detailed map of the proposed routes for the transmission line and nearby habitable structures. The applicant may help you understand the routing of the project and the application approval process in a transmission line case but cannot provide legal advice or represent you. ***The applicant cannot predict which route may or may not be approved by the PUC. The PUC decides which route to use for the transmission line, and the applicant is not obligated to keep you informed of the PUC's proceedings. The only way to fully participate in the PUC's decision on where to locate the transmission line is to intervene, which is discussed below.***

The PUC is sensitive to the impact that transmission lines have on private property. At the same time, transmission lines deliver electricity to millions of homes and businesses in Texas, and new lines are sometimes needed so that customers can obtain reliable, economical power.

The PUC's job is to decide whether a transmission line application should be approved and on which route the line should be constructed. The PUC values input from landowners and encourages you to participate in this process by intervening in the docket.

PUC Transmission Line Case

Texas law provides that most utilities must file an application with the PUC to obtain or amend a Certificate of Convenience and Necessity (CCN) in order to build a new transmission line in Texas. The law requires the PUC to consider a number of factors in deciding whether to approve a proposed new transmission line.

The PUC may approve an application to obtain or amend a CCN for a transmission line after considering the following factors:
- Adequacy of existing service;
- Need for additional service;
- The effect of approving the application on the applicant and any utility serving the proximate area;
- Whether the route utilizes existing compatible rights-of-way, including the use of vacant positions on existing multiple-circuit transmission lines;
- Whether the route parallels existing compatible rights-of-way;
- Whether the route parallels property lines or other natural or cultural features;
- Whether the route conforms with the policy of prudent avoidance (which is defined as the limiting of exposures to electric and magnetic fields that can be avoided with reasonable investments of money and effort); and
- Other factors such as community values, recreational and park areas, historical and aesthetic values, environmental integrity, and the probable improvement of service or lowering of cost to consumers in the area.

If the PUC decides an application should be approved, it will grant to the applicant a CCN or CCN amendment to allow for the construction and operation of the new transmission line.

Application to Obtain or Amend a CCN:

An application to obtain or amend a CCN describes the proposed line and includes a statement from the applicant describing the need for the line and the impact of building it. In addition to the routes proposed by the applicant in its application, the possibility exists that additional routes may be developed, during the course of a CCN case, that could affect property in a different manner than the original routes proposed by the applicant.

The PUC conducts a case to evaluate the impact of the proposed line and to decide which route should be approved. Landowners who would be affected by a new line can:

- informally file a protest, or
- formally participate in the case as an intervenor.

Filing a Protest (informal comments):

If you do not wish to intervene and participate in a hearing in a CCN case, you may file **comments.** An individual or business or a group who files only comments for or against any aspect of the transmission line application is considered a "protestor."

Protestors make a written or verbal statement in support of or in opposition to the utility's application and give information to the PUC staff that they believe supports their position.

Protestors are ***not*** parties to the case, however, and <u>*do **not** have the right to*</u>:

- Obtain facts about the case from other parties;
- Receive notice of a hearing, or copies of testimony and other documents that are filed in the case;
- Receive notice of the time and place for negotiations;
- File testimony and/or cross-examine witnesses;
- Submit evidence at the hearing; or
- Appeal P.U.C. decisions to the courts.

If you want to make comments, you may either send written comments stating your position, or you may make a statement on the first day of the hearing. If you have not intervened, however, you will not be able to participate as a party in the hearing. Only parties may submit evidence and ***the PUC must base its decision on the evidence.***

Intervening in a Case:

To become an intervenor, you must file a statement with the PUC, no later than the date specified in the notice letter sent to you with this brochure, requesting intervenor status (also referred to as a party). This statement should describe how the proposed transmission line would affect your property. Typically, intervention is granted only to directly affected landowners. However, any landowner may request to intervene and obtain a ruling on his or her specific fact situation and concerns. A sample form for intervention and the filing address are attached to this brochure, and may be used to make your filing. A letter requesting intervention may also be used in lieu of the sample form for intervention.

If you decide to intervene and become a party in a case, you will be required to follow certain procedural rules:

- You are required to timely respond to requests for information from other parties who seek information.
- If you file testimony, you must appear at a hearing to be cross-examined.
- If you file testimony or any letters or other documents in the case, you must send copies of the documents to every party in the case and you must file multiple copies with the PUC.
- If you intend to participate at the hearing and you do not file testimony, you must at least file a statement of position, which is a document that describes your position in the case.
- Failure to comply with these procedural rules may serve as grounds for you to be dismissed as an intervenor in the case.
- If you wish to participate in the proceedings it is very important to attend any prehearing conferences.

Intervenors may represent themselves or have an attorney to represent them in a CCN case. If you intervene in a case, you may want an attorney to help you understand the PUC's procedures and the laws and rules that the PUC applies in deciding whether to approve a transmission line. The PUC encourages landowners to intervene and become parties.

Stages of a CCN Case:

If there are persons who intervene in the case and oppose the approval of the line, the PUC may refer the case to an administrative law judge (ALJ) at the State Office of Administrative Hearings (SOAH) to conduct a hearing, or the Commission may elect to conduct a hearing itself. The hearing is a formal proceeding, much like a trial, in which testimony is presented. In the event the case is referred to SOAH, the ALJ makes a recommendation to the PUC on whether the application should be approved and where and how the line should be routed.

There are several stages of a CCN case:

- The ALJ holds a prehearing conference (usually in Austin) to set a schedule for the case.
- Parties to the case have the opportunity to conduct discovery; that is, obtain facts about the case from other parties.
- A hearing is held (usually in Austin), and parties have an opportunity to cross-examine the witnesses.
- Parties file written testimony before the date of the hearing. Parties that do not file written testimony or statements of position by the deadline established by the ALJ may not be allowed to participate in the hearing on the merits.
- Parties may file written briefs concerning the evidence presented at the hearing, but are not required to do so.
- In deciding where to locate the transmission line and other issues presented by the application, the ALJ and Commission rely on factual information submitted as evidence at the hearing by the parties in the case. In order to submit factual information as evidence (other than through cross-examination of other parties' witnesses), a party must have intervened in the docket and filed written testimony on or before the deadline set by the ALJ.
- The ALJ makes a recommendation, called a **proposal for decision**, to the Commission regarding the case. Parties who disagree with the ALJ's recommendation may file exceptions.
- The Commissioners discuss the case and decide whether to approve the application. The Commission may approve the ALJ's recommendation, approve it with specified changes, send the case back to the ALJ for further consideration, or deny the application. The written decision rendered by the Commission is called a **final order**. Parties who believe that the Commission's decision is in error may file motions for rehearing, asking the Commission to reconsider the decision.
- After the Commission rule on the motion for rehearing, parties have the right to appeal the decision to district court in Travis County.

Right to Use Private Property

The Commission is responsible for deciding whether to approve a CCN application for a proposed transmission line. If a transmission line route is approved that impacts your property, the electric utility must obtain the right from you to enter your property and to build, operate, and maintain the transmission line. This right is typically called an easement.

Utilities may buy easements through a negotiated agreement, but they also have the power of eminent domain (condemnation) under Texas law. Local courts, not the PUC, decide issues concerning easements for rights-of-way. The PUC does not determine the value of property.

The PUC final order in a transmission case normally requires a utility to take certain steps to minimize the impact of the new transmission line on landowners' property and on the environment. For example, the order normally requires steps to minimize the possibility of erosion during construction and maintenance activities.

HOW TO OBTAIN MORE INFORMATION

The PUC's online filings interchange on the PUC website provides free access to documents that are filed with the Commission in Central Records. The docket number, also called a control number on the PUC website, of a case is a key piece of information used in locating documents in the case. You may access the Interchange by visiting the PUC's website home page at www.puc.state.tx.us and navigate the website as follows:

- Select "Filings."
- Select "Filings Search."
- Select "Filings Search."
- Enter 5-digit Control (Docket) Number. *No other information is necessary*.
- Select "Search." *All of the filings in the docket will appear in order of date filed.*
- Scroll down to select desired filing.
- Click on a blue "Item" number at left.
- Click on a "Download" icon at left.

Documents may also be purchased from and filed in Central Records. For more information on how to purchase or file documents, call Central Records at the PUC at 512-936-7180.

PUC Substantive Rule 25.101, Certification Criteria, addresses transmission line CCNs and is available on the PUC's website, or you may obtain copies of PUC rules from Central Records.

Always include the docket number on all filings with the PUC. You can find the docket number on the enclosed formal notice. Send documents to the PUC at the following address.

Public Utility Commission of Texas
Central Records
Attn: Filing Clerk
1701 N. Congress Avenue
P.O. Box 13326
Austin, TX 78711-3326

The information contained within this brochure is not intended to provide a comprehensive guide to landowner rights and responsibilities in transmission line cases at the PUC. This brochure should neither be regarded as legal advice nor should it be a substitute for the PUC's rules. However, if you have questions about the process in transmission line cases, you may call the PUC's Legal Division at 512-936-7261. The PUC's Legal Division may help you understand the process in a transmission line case but cannot provide legal advice or represent you in a case. You may choose to hire an attorney to decide whether to intervene in a transmission line case, and an attorney may represent you if you choose to intervene.

Communicating with Decision-Makers

Do not contact the ALJ or the Commissioners by telephone or email. They are not allowed to discuss pending cases with you. They may make their recommendations and decisions only by relying on the evidence, written pleadings, and arguments that are presented in the case.

Request to Intervene in PUC Docket No. __________

The following information must be submitted by the person requesting to intervene in this proceeding. This completed form will be provided to all parties in this docket. **If you DO NOT want to be an intervenor, but still want to file comments, please complete the "Comments" page.**

Mail this completed form and 10 copies to:

Public Utility Commission of Texas
Central Records
Attn: Filing Clerk
1701 N. Congress Ave.
P.O. Box 13326
Austin, TX 78711-3326

First Name: ________________________________ Last Name: __________________________________

Phone Number: ___________________________ Fax Number: __________________________________

Address, City, State: ____

I am requesting to intervene in this proceeding. As an INTERVENOR, I understand the following:

- I am a party to the case;
- I am required to respond to all discovery requests from other parties in the case;
- If I file testimony, I may be cross-examined in the hearing;
- If I file any documents in the case, I will have to provide a copy of that document to every other party in the case; and
- I acknowledge that I am bound by the Procedural Rules of the Public Utility Commission of Texas (PUC) and the State Office of Administrative Hearings (SOAH).

Please check one of the following:

☐ I own property with a habitable structure located near one or more of the utility's proposed routes for a transmission line.

☐ One or more of the utility's proposed routes would cross my property.

☐ Other. Please describe and provide comments. You may attach a separate page, if necessary. ____________

____

____

____

____

Signature of person requesting intervention:

____ Date: _______________

Comments in Docket No. ___________

<u>If you want to be a PROTESTOR only, please complete this form.</u> Although public comments are not treated as evidence, they help inform the PUC and its staff of the public concerns and identify issues to be explored. The PUC welcomes such participation in its proceedings.

Mail this completed form and 10 copies to:

Public Utility Commission of Texas
Central Records
Attn: Filing Clerk
1701 N. Congress Ave.
P.O. Box 13326
Austin, TX 78711-3326

First Name: ________________________________ Last Name: __________________________________

Phone Number: ____________________________ Fax Number: __________________________________

Address, City, State: ____

I am NOT requesting to intervene in this proceeding. As a PROTESTOR, I understand the following:

- I am NOT a party to this case;
- My comments are not considered evidence in this case; and
- I have no further obligation to participate in the proceeding.

Please check one of the following:

☐ I own property with a habitable structure located near one or more of the utility's proposed routes for a transmission line.

☐ One or more of the utility's proposed routes would cross my property.

☐ Other. Please describe and provide comments. You may attach a separate page, if necessary. ____________

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Signature of person submitting comments:

____ Date: _______________

Organization	Prefix	Contact	Formal	FormalTitle	Address1	City	State	Zip
Oncor Electric	Mr.	Bob Shapard	Mr. Shapard	Chief Executive Officer	1616 Woodall Rodgers Fwy.	Dallas	TX	75202
Oncor Electric	Mr.	Jim Greer	Mr. Greer	Chief Operating Officer	1616 Woodall Rodgers Fwy.	Dallas	TX	75202
Georgetown Utility Systems	Mr.	Jim Briggs	Mr. Briggs	General Manager	113 E. 8th St	Georgetown	TX	78626
Georgetown Utility Systems	Mr.	Jimmy Sikes	Mr. Sikes	T & D Service Manager	113 E. 8th St	Georgetown	TX	78626
Austin Energy	Mr.	Mark Dombroski	Mr. Dombroski	Interim General Manager	721 Barton Springs Rd.	Austin	TX	78704
Pedernales Electric Cooperative	Mr.	John Hewa	Mr. Hewa	Chief Executive Officer	P.O. Box 1	Johnson City	TX	78636
Pedernales Electric Cooperative	Mr.	Brad Hicks	Mr. Hicks	VP, Engineering and Energy Innovations	P.O. Box 1	Johnson City	TX	78636
Atmos Energy	Mr.	Randy Hartford	Mr. Hartford	Mgr, Public Affairs	3110 N. IH 35	Round Rock	TX	78681
Atmos Energy	Mr.	Kim Cocklin	Mr. Cocklin	President & CEO	P.O. Box 650205	Dallas	TX	75265
Oncor Electric	Mr.	Robert Holt	Mr. Holt	Regulatory Manager	1616 Woodall Rodgers Fwy.	Dallas	TX	75202
Georgetown Utility Systems	Mr.	Paul Elkins	Mr. Elkins	Electric Engineering Manager	113 E. 8th St	Georgetown	TX	78626
Atmos Energy	Mr.	Randy Erskine	Mr. Erskine	President, Atmos Pipeline-Texas	P.O. Box 650205	Dallas	TX	75265
Texas Dept. of Transportation	Mr.	Mark Olsen	Mr. Olsen	Georgetown Area Engineering Office	2727 S. Austin Ave.	Georgetown	TX	78626
Texas Dept. of Transportation	Ms.	Michelle Cooper	Ms. Cooper	Georgetown Area Engineering Office	2727 S. Austin Ave.	Georgetown	TX	78626
Texas Dept. of Transportation	Mr.	Greg Malatek	Mr. Malatek	District Engineer	P.O. Drawer 15426	Austin	TX	78761
Office of Public Utility Counsel	Ms.	Michelle Gregg	Ms. Gregg	Director of External Relations	1701 N. Congress Ave. Ste. 9-180	Austin	TX	78711
Public Utility Commission of Texas	Mr.	Tom Sweatman	Mr. Sweatman	Engineering Dept.	P.O. Box 13326	Austin	TX	78711
Pedernales Electric Cooperative	Mr.	Paul Lochte	Mr. Lochte	Director, Electrical Engineering	P.O. Box 1	Johnson City	TX	78636

Leander - Round Rock_Public Officials List 2016

Organization	FormalTitle	Prefix	Contact	Formal	Address1	City	State	Zip
City of Leander	City Manager	Mr.	Kent Cagle	Mr. Cagle	P.O. Box 319	Leander	TX	78646
City of Leander	Mayor Pro Tem	The Honorable	Andrea Navarrette	Mayor Pro Tem Navarrette	P.O. Box 319	Leander	TX	78646
City of Leander	Council Member	The Honorable	Michelle Stephenson	Council Member Stephenson	P.O. Box 319	Leander	TX	78646
City of Leander	Council Member	The Honorable	Shanan Shepherd	Council Member Shepherd	P.O. Box 319	Leander	TX	78646
City of Leander	Council Member	The Honorable	Ron Abruzzese	Council Member Abruzzese	P.O. Box 319	Leander	TX	78646
City of Leander	Council Member	The Honorable	Jeff Seiler	Council Member Seiler	P.O. Box 319	Leander	TX	78646
City of Leander	Council Member	The Honorable	Troy Hill	Council Member Hill	P.O. Box 319	Leander	TX	78646
City of Leander	Mayor	The Honorable	Christopher Fielder	Mayor Fielder	P.O. Box 319	Leander	TX	78646
City of Leander	Economic Development Manager	Mr.	Eric Zeno	Mr. Zeno	P.O. Box 319	Leander	TX	78646
Greater Leander Chamber of Commerce	President & CEO	Ms.	Bridget Brandt	Ms. Brandt	P.O. Box 556	Leander	TX	78646
City of Leander	Public Works Director	Mr.	Pat Womack	Mr. Womack	P.O. Box 319	Leander	TX	78646
City of Leander	Asst. City Manager	Mr.	Tom Yantis	Mr. Yantis	P.O. Box 319	Leander	TX	78646
City of Cedar Park	City Manager	Ms.	Brenda Eivens	Ms. Eivens	450 Cypress Creek Rd.	Cedar Park	TX	78613
City of Cedar Park	Mayor	The Honorable	Matt Powell	Mayor Powell	450 Cypress Creek Rd.	Cedar Park	TX	78613
City of Cedar Park	Council Member	The Honorable	Stephen Thomas	Council Member Thomas	450 Cypress Creek Rd.	Cedar Park	TX	78613
City of Cedar Park	Mayor Pro Tem	The Honorable	Corbin Van Arsdale	Mayor Pro Tem Van Arsdale	450 Cypress Creek Rd.	Cedar Park	TX	78613
City of Cedar Park	Council Member	The Honorable	Lyle Grimes	Council Member Grimes	450 Cypress Creek Rd.	Cedar Park	TX	78613
City of Cedar Park	Council Member	The Honorable	Lowell Moore	Council Member Moore	450 Cypress Creek Rd.	Cedar Park	TX	78613
City of Cedar Park	Council Member	The Honorable	Jon Lux	Council Member Lux	450 Cypress Creek Rd.	Cedar Park	TX	78613
City of Cedar Park	Council Member	The Honorable	Kristyne Bollier	Council Member Bollier	450 Cypress Creek Rd.	Cedar Park	TX	78613
City of Cedar Park	Asst. City Manager	Mr.	Sam Roberts	Mr. Roberts	450 Cypress Creek Rd.	Cedar Park	TX	78613
City of Cedar Park	Director of Business Services	Mr.	Daron Butler	Mr. Butler	450 Cypress Creek Rd.	Cedar Park	TX	78613
Cedar Park Chamber of Commerce	President & CEO	Mr.	Tony Moline	Mr. Moline	1460 E. Whitestone Blvd., Suite 180	Cedar Park	TX	78613
City of Cedar Park	Director of Economic Development	Mr.	Phil Brewer	Mr. Brewer	450 Cypress Creek Rd.	Cedar Park	TX	78613
Williamson County	Commissioner	The Honorable	Lisa Birkman	Commissioner Birkman	1801 East Old Settlers Blvd., Ste. 110	Round Rock	TX	78664
Williamson County	Commissioner	The Honorable	Cynthia Long	Commissioner Long	350 Discovery Blvd., Ste. 201	Cedar Park	TX	78613
Williamson County	Commissioner	The Honorable	Valerie Covey	Commissioner Covey	3010 Williams Dr., Ste. 153	Georgetown	TX	78628
Williamson County	Commissioner	The Honorable	Ron Morrison	Commissioner Morrison	350 Exchange Blvd., Ste. 100	Hutto	TX	78634
Williamson County	County Judge	The Honorable	Dan Gattis	Judge Gattis	710 S. Main St., Ste. 101	Georgetown	TX	78626
Williamson County	Director of Infrastructure	Mr.	Robert Daigh	Mr. Daigh	3151 SE Inner Loop	Georgetown	TX	78626
City of Austin	District 6 Council Member	The Honorable	Don Zimmerman	Council Member Zimmerman	P.O. Box 1088	Austin	TX	78767
City of Austin	Mayor	The Honorable	Steve Adler	Mayor Adler	P.O. Box 1088	Austin	TX	78767
City of Austin	Asst. City Manager	Mr.	Robert Goode	Mr. Goode	P.O. Box 1088	Austin	TX	78767
City of Austin	City Manager	Mr.	Marc Ott	Mr. Ott	P.O. Box 1088	Austin	TX	78767
City of Austin Economic Development	Director	Mr.	Kevin Johns	Mr. Johns	P.O. Box 1088	Austin	TX	78767

Organization	FormalTitle	Prefix	Contact	Formal	Address1	City	State	Zip
Austin Chamber of Commerce	President	Mr.	Michael Rollins	Mr. Rollins	535 East 5th Street	Austin	TX	78701
City of Round Rock	City Manager	Ms.	Laurie Hadley	Ms. Hadley	221 E. Main Street	Round Rock	TX	78664
City of Round Rock	Mayor	The Honorable	Alan McGraw	Mayor McGraw	221 E. Main Street	Round Rock	TX	78664
City of Round Rock	Council Member	The Honorable	Craig Morgan	Council Member Morgan	221 E. Main Street	Round Rock	TX	78664
City of Round Rock	Council Member	The Honorable	Kris Whitfield	Council Member Whitfield	221 E. Main Street	Round Rock	TX	78664
City of Round Rock	Council Member	The Honorable	George White	Council Member White	221 E. Main Street	Round Rock	TX	78664
City of Round Rock	Council Member	The Honorable	Frank Leffingwell	Council Member Leffingwell	221 E. Main Street	Round Rock	TX	78664
City of Round Rock	Council Member	The Honorable	Will Peckham	Council Member Peckham	221 E. Main Street	Round Rock	TX	78664
City of Round Rock	Council Member	The Honorable	Writ Baese	Council Member Baese	221 E. Main Street	Round Rock	TX	78664
City of Round Rock	Director of Utility & Environmental Services	Mr.	Michael Thane	Mr. Thane	2008 Enterprise Drive	Round Rock	TX	78664
City of Round Rock	Director of Planning and Development	Mr.	Brad Wiseman	Mr. Wiseman	301 W. Bagdad Avenue, Suite 210	Round Rock	TX	78664
Round Rock Chamber of Commerce	President & CEO	Mr.	Mike Odom	Mr. Odom	212 E. Main Street	Round Rock	TX	78664
Round Rock Economic Development Partnership	Vice President, Economic Development	Mr.	Ben White	Mr. White	212 E. Main Street	Round Rock	TX	78664
City of Georgetown	City Manager	Mr.	David Morgan	Mr. Morgan	113 E. 8th St.	Georgetown	TX	78626
City of Georgetown	District 1 Council Member	The Honorable	Anna Eby	Council Member Eby	113 E. 8th St.	Georgetown	TX	78626
City of Georgetown	District 2 Council Member	The Honorable	Keith Brainard	Council Member Brainard	113 E. 8th St.	Georgetown	TX	78626
City of Georgetown	Mayor	The Honorable	Dale Ross	Mayor Ross	113 E. 8th St.	Georgetown	TX	78626
Georgetown Department of Economic Development	Director of Economic Development	Mr.	Mark Thomas	Mr. Thomas	816 S. Main	Georgetown	TX	78627
Georgetown Chamber of Commerce	President	Ms.	Karen Sheldon	Ms. Sheldon	P.O. Box 346	Georgetown	TX	78627
City of Georgetown	Asst. City Manager	Ms.	Laurie Brewer	Ms. Brewer	113 E. 8th St.	Georgetown	TX	78626
Upper Brushy Creek Water Control & Improvement District	General Manager	Ms.	Ruth Haberman	Ms. Haberman	1850 Round Rock Avenue, Ste. 100	Round Rock	TX	78681

Organization	Prefix	Contact	Formal	FormalTitle	Address1	City	State	Zip
Leander ISD	Dr.	Bret Champion	Dr. Champion	Superintendent	P.O. Box 218	Leander	TX	78646
Leander ISD	Ms.	Trish Bode	Ms. Bode	Trustee	P.O. Box 218	Leander	TX	78646
Leander ISD	Mr.	Don Hisle	Mr. Hisle	Trustee	P.O. Box 218	Leander	TX	78646
Leander ISD	Ms.	Pamela Waggoner	Ms. Waggoner	Trustee	P.O. Box 218	Leander	TX	78646
Leander ISD	Ms.	Grace S. Barber-Jordan	Ms. Barber-Jordan	Trustee	P.O. Box 218	Leander	TX	78646
Leander ISD	Mr.	Russell Bundy	Mr. Bundy	Trustee	P.O. Box 218	Leander	TX	78646
Leander ISD	Mr.	Aaron Johnson	Mr. Johnson	Trustee	P.O. Box 218	Leander	TX	78646
Leander ISD	Mr.	Will Streit	Mr. Streit	Trustee	P.O. Box 218	Leander	TX	78646
Georgetown ISD	Dr.	Fred Brent	Dr. Brent	Superintendent	603 Lakeway Drive	Georgetown	TX	78628
Georgetown ISD	Mr.	Scott Stribling	Mr. Stribling	Trustee	603 Lakeway Drive	Georgetown	TX	78628
Georgetown ISD	Mr.	Scott Alarcon	Mr. Alarcon	Trustee	603 Lakeway Drive	Georgetown	TX	78628
Georgetown ISD	Mr.	Andy Webb	Mr. Webb	Trustee	603 Lakeway Drive	Georgetown	TX	78628
Georgetown ISD	Mr.	Fred Barhydt	Mr. Barhydt	Trustee	603 Lakeway Drive	Georgetown	TX	78628
Georgetown ISD	Ms.	Melanie Dunham	Ms. Dunham	Trustee	603 Lakeway Drive	Georgetown	TX	78628
Georgetown ISD	Mr.	Greg Eady	Mr. Eady	Trustee	603 Lakeway Drive	Georgetown	TX	78628
Georgetown ISD	Ms.	Ronna Johnson	Ms. Johnson	Trustee	603 Lakeway Drive	Georgetown	TX	78628
Round Rock ISD	Dr.	Steve Flores	Dr. Flores	Superintendent	1311 Round Rock Ave.	Round Rock	TX	78681
Round Rock ISD	Ms.	Nikki Gonzales	Ms. Gonzales	Trustee	1311 Round Rock Ave.	Round Rock	TX	78681
Round Rock ISD	Mr.	Charles Chadwell	Mr. Chadwell	Trustee	1311 Round Rock Ave.	Round Rock	TX	78681
Round Rock ISD	Ms.	Diane M. Cox	Ms. Cox	Trustee	1311 Round Rock Ave.	Round Rock	TX	78681
Round Rock ISD	Ms.	Terri Romere	Ms. Romere	Trustee	1311 Round Rock Ave.	Round Rock	TX	78681
Round Rock ISD	Ms.	Suzi David	Ms. David	Trustee	1311 Round Rock Ave.	Round Rock	TX	78681
Round Rock ISD	Mr.	Paul Tisch	Mr. Tisch	Trustee	1311 Round Rock Ave.	Round Rock	TX	78681
Round Rock ISD	Ms.	Pauline Law	Ms. Law	Trustee	1311 Round Rock Ave.	Round Rock	TX	78681

Organization	Prefix	Contact	Formal	FormalTitle	Address1	City	State	Zip
Texas House of Representatives	The Honorable	Tony Dale	Representative Dale	State Representative	P.O. Box 2910	Austin	TX	78768
Texas House of Representatives	The Honorable	Larry Gonzales	Representative Gonzales	State Representative	P.O. Box 2910	Austin	TX	78768
Texas House of Representatives	The Honorable	Larry Gonzales	Representative Gonzales	State Representative	P.O. Box 2501	Round Rock	TX	78680
Texas House of Representatives	The Honorable	Marsha Farney	Representative Farney	State Representative	P.O. Box 2910	Austin	TX	78768
Texas House of Representatives	The Honorable	Marsha Farney	Representative Farney	State Representative	1633 Williams Dr., Ste. 201	Georgetown	TX	78628
Texas Senate	The Honorable	Charles Schwertner	Senator Schwertner	State Senator	P.O. Box 12068	Austin	TX	78711
Texas Senate	The Honorable	Charles Schwertner	Senator Schwertner	State Senator	501 S. Austin Ave., Ste. 1250	Georgetown	TX	78626
United States House of Representatives	The Honorable	John Carter	Representative Carter	United States Representative	2110 Rayburn H.O.B.	Washington	DC	20515
United States House of Representatives	The Honorable	John Carter	Representative Carter	United States Representative	1717 N. IH 35, Ste. 303	Round Rock	TX	78664
United States Senate	The Honorable	John Cornyn	Senator Cornyn	United States Senator	517 Hart Senate Office Building	Washington	DC	20510
United States Senate	The Honorable	John Cornyn	Senator Cornyn	United States Senator	221 West Sixth Street, Suite 1530	Austin	TX	78701
United States Senate	The Honorable	Ted Cruz	Senator Cruz	United States Senator	404 Russell	Washington	DC	20510
United States Senate	The Honorable	Ted Cruz	Senator Cruz	United States Senator	300 East 8th Street, Suite 961	Austin	TX	78701

Application of LCRA Transmission Services Corporation to Amend its Certificate of Convenience and Necessity for the Proposed Leander-Round Rock 138-kV Transmission Line Project in Williamson County, Texas

PUBLIC UTILITY COMMISSION OF TEXAS (PUC) DOCKET NO. 45866

LCRA Transmission Services Corporation (LCRA TSC) provides this notice of intent to amend its Certificate of Convenience and Necessity (CCN) to construct the proposed Leander-Round Rock 138-kV Transmission Line Project in Williamson County, Texas.

The proposed transmission line will connect two new substations to the existing Leander and Round Rock substations. The entire project will be about 12 to 21 miles in length, and is estimated to cost approximately $67.8 million to $99.6 million, depending upon the final route chosen by the PUC.

People with questions about the transmission line can call LCRA at 800-776-5272, ext. 7051.

The CCN application, including detailed routing maps illustrating the proposed transmission line project and project area, may be reviewed on the project website at www.lcra.org/LRR, and at the LCRA office located at 3505 Montopolis Drive, Building D, Austin, Texas 78744. To make an appointment to obtain or review the map at LCRA, call 800-776-5272, ext. 7051.

All routes and route segments included in this notice are available for selection and approval by the PUC.

People affected by the proposed transmission line who wish to intervene in the docket or comment on LCRA TSC's application should mail their original request to intervene and 10 copies, or mail their original comments and 10 copies, to:

Public Utility Commission of Texas
Central Records
Attn: Filing Clerk
1701 N. Congress Ave.
P.O. Box 13326
Austin, Texas 78711-3326

People who wish to intervene in the docket must also mail a copy of their request for intervention to all parties in the docket and all people who have pending motions to intervene at or before the time the request for intervention is mailed to the PUC. The only way to fully participate in the PUC's decision on where to locate the transmission line is to intervene in the docket. It is important for an affected person to intervene because the utility is not obligated to keep affected people informed of the PUC's proceedings and cannot predict which route may or may not be approved by the PUC.

The deadline for intervention in the docket is June 13, 2016, and letters from anyone requesting to intervene should be received by the PUC by that date.

Copies of the PUC's brochure "Landowners and Transmission Line Cases at the PUC" are available from LCRA at 800-776-5272, ext. 7051, or may be downloaded from the PUC's website at www.puc.state.tx.us. For more information about this docket, contact the PUC's Customer Assistance Hotline at 512-936-7120 or 888-782-8477. Hearing- and speech-impaired people with text telephones (TTY) may call the PUC's Customer Assistance Hotline at 512-936-7136 or 800-735-2989.

In addition to the intervention deadline, other important deadlines may already exist that affect your participation in this docket. You should review the orders and other filings already made in the docket.

Leander-Round Rock 138-kV Transmission Line Project Segment Descriptions

Primary Alternative Routes	Segment Combinations
1	A-B-G-L-M-P-Q-Q4-V-W-T4-2-3-X-J1-A5-L1-P1-T1-V5-D2-1-7-K4-T2-U2-M5-V2-X2-C3-H3-I3-J4
2	A-B-G-L-M-P-2-5-Q-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-1-8-V5-D2-K4-J2-Q2-S2-Y2-Z2-P5-B3-C3-H3-I3-J4
3	A-B-G-L-F6-2-8-G6-H6-U4-O-D1-G1-F5-D5-M1-O1*-1-6-N1-L1-A5-J1-X-T4-Y-Z-A1-J5-K5-X2-C3-H3-I3-J4
4	D-F-Y5-I-H-D1-G1-F5-D5-M1-O1*-1-6-N1-L1-A5-J1-X-T4-W-V-P4-R4-M4*-2-6-S-Z-A1-I5-K5-X2-C3-E3-G3-I3-J4
5	A-C-H-C1-E1*-2-2-H1-K1-B5-L1-P1-T1-W5-1-8-E6-B1-A1-J5-K5-X2-C3-H3-I3-J4
6	D-F-X5-Z5-A6-C6-M-N-H6-U4-2-4-O-D1-G1-R1-L5-B2-E2-1-4-F2-G2-H2-I2-J2-T2-U5-B1-A1-J5-K5-X2-C3-H3-I3-J4
7	D-E-J-Z5-B6-L-M-P-Q-R-O4-T-2-1-U-W-T4-X-J1-A5-L1-P1-Q1*-1-6-T1-V5-D2-K4-T2-U2-N5-V2-X2-C3-E3-G3-I3-J4
8	D-E-K-L4-2-6-N4-R-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-K4-J2-I2-N2-1-3-O2-P2-L3-O3-U3-A4-E4-H4-I4
9	D-E-K-S4-C6-M-N-H6-V4-X4-Z4*-2-7-Y4-A5-L1-P1-T1-V5-D2-K4-J2-I2-H2-L2-1-5-M2-K3-L3-O3-U3-A4-E4-G4-J4
10	D-F-X5-Z5-A6-C6-M-N-H6-V4-X4-Z4-2-7-D6-C5-D5-E5-H5-X1-C2-G2-L2-1-5-M2-K3-L3-O3-U3-A4-D4-S5-F4-T5-I4
11	A-B-G-L-M-P-2-5-Q-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-1-8-V5-D2-K4-J2-Q2-S2-M3-O3-U3-B4-F4-T5-I4
12	A-B-G-L-M-P-2-5-Q-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-1-8-V5-D2-K4-J2-Q2-S2-M3-O3-U3-B4a-F4a-T5-I4
13	D-F-X5-Z5-A6-C6-M-N-H6-U4-2-4-O-D1-G1-R1-L5-U1-V1-W1-Z1-1-2-A2-D2-K4-T2-U2-W2-Z2-A3-D3-G3-I3-J4
14	D-F-X5-Z5-A6-C6-M-N-H6-U4-2-4-O-D1-G1-R1-U1a-V1a-G5-Z1-1-2-A2-D2-K4-T2-U2-W2a-Q5-A3a-D3a-G3-I3-J4
15	D-E-K-S4-C6-M-N-H6-U4-2-4-O-D1-G1-R1-L5-U1*-1-1-B2-K2-N3-A4-E4-G4-J4
16	D-F-X5-Z5-A6-C6-M-P-Q-Q4-V-W-T4-X-W4-I1-H1-E1-2-2-F1-G1-R1-L5-B2-K2-J3-M2*-1-5-K3-P2-R2-S2-Y2-O5-Q5-A3a-R5-F3-U3-B4-F4-T5-I4
17	D-F-Y5-I-H-C1-E1*-2-2-H1-K1-C5-M1-O1-S1-Y1-C2-G2-H2-N2-1-3-O2-P2-L3-O3-U3-A4-E4-H4-I4
18	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-2-6-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-1-8-V5-D2-K4-T2-U2-W2-Z2-P5-B3-C3-E3-G3-I3-J4
19	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-2-6-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-1-8-V5-D2-K4-T2-U2-W2A-Q5-B3-C3-E3-G3-I3-J4
20	D-F-X5-Z5-A6-S4-L4-2-6-N4-R-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5*-1-8-V5-D2-K4-J2-Q2-S2-Y2-Z2-P5-B3-C3-H3-I3-J4
21	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-2-6-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5-1-8-E6-U5-U2-W2A-Q5-B3-C3-E3-G3-I3-J4
22	A-B-G-L-M-P-Q-R*-N4*-2-6-Q4-V-W-T4-X-J1-A5-L1-P1-T1-W5-1-8-E6-U5-U2-W2A-Q5-B3-C3-E3-G3-I3-J4
23	D-E-J-Z5-B6-L-M-N-H6-V4-X4-Z4-2-7-D6-C5-D5-E5-G5-Y1-C2-G2-H2-N2-1-3-O2-R2-S2-Y2-O5-Q5-A3a-R5-F3-U3-B4a-F4a-T5-I4
24	D-E-J-Z5-B6-L-M-N-H6-V4-X4-Z4-2-7-D6-C5-D5-E5-G5-Y1-C2-G2-H2-N2-1-3-O2-R2-S2-Y2-Z2-A3-F3-U3-B4-F4-T5-I4
25	D-E-K-L4-2-6-N4-R-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-1-7-K4-T2-U2-W2-Z2-P5-B3-C3-E3-G3-I3-J4
26	D-E-K-L4-2-6-N4-R-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-1-7-K4-T2-U2-W2a-Q5-B3-C3-E3-G3-I3-J4
27	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-2-6-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-1-7-K4-T2-U2-W2-Z2-P5-B3-C3-H3-I3-J4
28	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-2-6-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-1-7-K4-T2-U2-W2a-Q5-B3-C3-H3-I3-J4
29	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-2-6-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-1-7-K4-T2-U2-M5-V2-X2-C3-E3-G3-I3-J4
30	D-F-X5-Z5-A6-C6-M-P-Q-R*-N4*-2-6-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-1-7-K4-T2-U2-N5-V2-X2-C3-H3-I3-J4
31	D-F-X5-Z5-A6-C6-F6*-2-8-M-P-Q-Q4-V-W-T4-X-J1-A5-L1-P1-T1-V5-D2-1-7-K4-J2-Q2-S2-Y2-Z2-P5-B3-C3-E3-G3-I3-J4

These segments will be used entering and exiting the substation sites.

Segment A — Segment A begins at the Leander Substation, located approximately .10 mile southwest from the intersection of US Highway (US Hwy) 183A and Hero Way. The segment proceeds southwest for approximately .05 mile, crossing an existing transmission line. It then turns southeast for approximately .25 mile while paralleling the west side of an existing transmission line, crossing Farm-to-Market (FM) 2243 and Brushy Creek. The segment then angles to the east-southeast for approximately .05 mile, crossing an existing transmission line. It then turns southeast for approximately .03 mile while paralleling the east side of an existing transmission line. The termination of Segment A is at the intersection of segments A, B, and C.

Segment B — Segment B begins at the intersection of segments A, B, and C, located southwest from the intersection of US Hwy 183A and FM 2243. The segment proceeds east for approximately .20 mile, crossing Mason Creek. The termination of Segment B is at the intersection of segments B, G, I, and Y5.

Segment C — Segment C begins at the intersection of segments A, B, and C, located southwest from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .41 mile while paralleling the east side of an existing transmission line, crossing Mason Creek. The segment then turns northeast for approximately .27 mile. The termination of Segment C is at the intersection of segments C, I, and H.

Segment D — Segment D begins at the Leander Substation, located approximately .10 mile southwest from the intersection of US Hwy 183A and Hero Way. The segment proceeds northeast for approximately .02 mile. The termination of Segment D is at the intersection of segments D, E, and F.

Segment E — Segment E begins at the intersection of segments D, E, and F, located southwest from the intersection of US Hwy 183A and Hero Way. The segment proceeds northwest for approximately .11 mile, crossing Hero Way. The segment then turns northeast for approximately .31 mile while paralleling the north side of Hero Way, crossing US Hwy 183A. It then angles to the southeast for approximately .08 mile. The segment continues to the northeast for approximately .42 mile while paralleling the north side of Hero Way. The termination of Segment E is at the intersection of segments E, J, and K.

Segment F — Segment F begins at the intersection of segments D, E, and F, located southwest from the intersection of US Hwy 183A and Hero Way. The segment proceeds northeast for approximately .10 mile. It then turns southeast for approximately .19 mile while paralleling the west side of US Hwy 183A. The termination of Segment F is at the intersection of segments F, X5, and Y5.

Segment G — Segment G begins at the intersection of segment B, G, I, and Y5, located south from the intersection of US Hwy 183A and FM 2243. The segment proceeds northeast for approximately .10 mile, crossing US Hwy 183A. It then angles to the southeast for approximately .18 mile and then angles to the east for approximately .24 mile. The segment then angles to the southeast for approximately .15 mile and then turns northeast for approximately .07 mile, crossing Brushy Creek and FM 2243. The termination of Segment G is at the intersection of segments G, L, and B6.

Segment H — Segment H begins at the intersection of segments C, H, and I, located south from the intersection of US Hwy 183Aand FM 2243. The segment proceeds northeast for approximately .09 mile, crossing US Hwy 183A. It then turns southeast for approximately .36 mile while paralleling the east side of US Hwy 183A. The segment then turns east for approximately .06 mile and then turns to the south for approximately .18 mile. The segment continues southeast for approximately .42 mile while paralleling the east side of US Hwy 183A. It then turns northeast for approximately 1.39 miles while paralleling the north side of East Crystal Falls Parkway, crossing Ronald Reagan Blvd. The termination of Segment H is at the intersection of segments H, O, C1, and D1.

Segment I — Segment I begins at the intersection of segments B, G, I, and Y5, located south from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .40 mile while paralleling the west side of US Hwy 183A. The termination of Segment I is at the intersection of segments C, H, and I.

Segment J — Segment J begins at the intersection of segments E, J, and K, located east from the intersection of US Hwy 183A and Hero Way. The segment proceeds southeast for approximately 0.30 mile, crossing Hero Way. The termination of Segment J is at the intersection of segments J, X5, and Z5.

Segment K — Segment K begins at the intersection of segments E, J, and K, located east from the intersection of US Hwy 183A and Hero Way. The segment proceeds northeast for approximately .43 mile while paralleling the north side of Hero Way and then angles to the southeast for approximately .09 mile, crossing Hero Way. It then continues northeast for approximately .42 mile while paralleling the south side of Hero Way. The termination of Segment K is at the intersection of segments K, L4, and S4.

Segment L — Segment L begins at the intersection of segments G, L, and B6, located east from the intersection of US Hwy 183A and FM 2243. The segment proceeds in an easterly direction for approximately 1.00 mile while paralleling the north side of FM 2243. The termination of Segment L is at the intersection of segments L, M, C6, and F6.

Segment M — Segment M begins at the intersection of Segments L, M, C6, and F6, located west from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .10 mile while paralleling the north side of FM 2243. The termination of Segment M is at the intersection of segments M, N, and P.

Segment N — Segment N begins at the intersection of segments M, N, and P, located east from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .20 mile while paralleling the east side of Ronald Reagan Blvd., crossing FM 2243. The termination of Segment N is at the intersection of segments N, G6, and H6.

Segment O — Segment O begins at the intersection of segments O, U4, and Substation Site 2-4, located south from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .60 mile while paralleling the east side of Ronald Reagan Blvd. The termination of Segment O is at the intersection of segments H, O, C1, and D1.

Segment P — Segment P begins at the intersection of segments M, N, and P, located east from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds in an easterly direction for approximately .20 mile while paralleling the north side of FM 2243. The termination of Segment P is at the intersection of segments P, Q, and Substation Site 2-5.

Segment Q — Segment Q begins at the intersection of segments P, Q, and Substation Site 2-5, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .10 mile while paralleling the north side of FM 2243. The termination of Segment Q is at the intersection of segments Q, R, and Q4.

Segment R — Segment R begins at the intersection of segments Q, R, and Q4, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .04 mile while paralleling the north side of FM 2243. The termination of Segment R is at the intersection of segments R, N4, and O4.

Segment S — Segment S begins at the intersection of segments S, M4, and R4, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment curves around in an easterly direction for approximately 1.18 miles while paralleling the south side of FM 2243. It then angles to the southeast for approximately .09 mile and then angles to the northeast for approximately .09 mile. The segment continues east for approximately .52 mile while paralleling the south side of FM 2243. The termination of Segment S is at the intersection of segments S, Y, and Z.

Segment T — Segment T begins at the intersection of segments T, O4, P4, and R4, located east from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .21 mile while paralleling the north side of Sam Bass Road. The segment continues southeast for approximately .10 mile. The termination of Segment T is at the intersection of segments T, U, and Substation Site 2-1.

Segment U — Segment U begins at the intersection of segments T, U, and Substation Site 2-1, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .17 mile. It then turns southwest for approximately .16 mile, crossing Sam Bass Road. The termination of Segment U is at the intersection of segments U, V, and W.

Segment V — Segment V begins at the intersection of segments V, P4, and Q4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds in a southeasterly direction for approximately .50 mile while paralleling the south side of Sam Bass Road. The termination of Segment V is at the intersection of segments U, V, and W.

Segment W — Segment W begins at the intersection of segments U, V, and W, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .30 mile while paralleling the south side of Sam Bass Road. The termination of Segment W is at the intersection of segments W, Y, and T4.

Segment X — Segment X begins at the intersection of segments X, T4, and Substation Site 2-3, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .06 mile and then angles east-southeast for approximately .06 mile. The termination point of Segment X is at the intersection of segments X, J1, and W4.

Segment Y — Segment Y begins at the intersection of segments W, Y, and T4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment curves around to the north-northeast for approximately .50 mile. It then continues to the northeast for approximately 1.00 mile. At this point, the segment angles to the north-northeast for approximately .10 mile. The termination point of Segment Y is at the intersection of segments S, Y, and Z.

Segment Z — Segment Z begins at the intersection of segments S, Y, and Z, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds in an easterly direction for approximately 1.10 miles while paralleling the south side of FM 2243, crossing County Road (CR) 176. The termination of Segment Z is at the intersection of segments Z, A1, and B1.

Segment A1 — Segment A1 begins at the intersection of segments Z, A1, and B1, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .57 mile. It then continues in an easterly direction for approximately 2.13 miles while paralleling the south side of FM 2243. The termination of Segment A1 is at the intersection of segments A1, I5, and J5.

Segment B1 — Segment B1 begins at the intersection of segments Z, A1, and B1, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately 1.60 miles, crossing Chandler Branch. The termination point of Segment B1 is at the intersection of segments B1, U5, and E6.

Segment C1 — Segment C1 begins at the intersection of segments H, O, C1, and D1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds northeast for approximately .10 mile. The termination point of Segment C1 is at the intersection of segments C1, E1, and H1.

Segment D1 — Segment D1 begins at the intersection of segments H, O, C1, and D1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .10 mile while paralleling the east side of Ronald Reagan Blvd. The termination point of Segment D1 is at the intersection of segments D1, F1, and G1.

Segment E1 — Segment E1 begins at the intersection of segments C1, E1, and H1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .10 mile. The termination of Segment E1 is at the intersection of segments E1, F1, and Substation Site 2-2.

Segment F1 — Segment F1 begins at the intersection of segments E1, F1, and Substation Site 2-2, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .15 mile. It then turns southwest for approximately .12 mile while paralleling the north side of CR177. The termination point of Segment F1 is at the intersection of segments D1, F1, and G1.

Segment G1 — Segment G1 begins at the intersection of segments D1, F1, and G1, located south from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .60 mile while paralleling the east side of Ronald Reagan Blvd., crossing CR 177 and Journey Parkway. The termination of Segment G1 is at the intersection of segments G1, R1, and F5.

Segment H1 — Segment H1 begins at the intersection of segments C1, E1, and H1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds northeast for approximately .30 mile. The termination point of Segment H1 is at the intersection of segments H1, I1, and K1.

Segment I1 — Segment I1 begins at the intersection of segments I1, V4, W4, and X4, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southwest for approximately .30 mile. The termination point of Segment I1 is at the intersection of segments H1, I1, and K1.

Segment J1 — Segment J1 begins at the intersection of segments X, J1, and W4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds in a southeasterly direction for approximately .35 mile while paralleling the west side of Sam Bass Road. It then angles south-southeast for approximately .11 mile. The segment then continues southeast for approximately .13 mile while paralleling the west side of Sam Bass Road. The termination point of Segment J1 is at the intersection of segments J1, Y4, and A5.

Segment K1 — Segment K1 begins at the intersection of segments H1, I1, and K1, located northeast from the intersection of Ronald Reagan Blvd. and East Crystal Falls Parkway. The segment proceeds southeast for approximately .70 mile, crossing CR 177 and Brushy Creek twice. The termination point of Segment K1 is at the intersection of segments K1, B5, C5, and D6.

Segment L1 — Segment L1 begins at the intersection of segments L1, A5, and B5, located southeast from the intersection of CR 177 and Sam Bass Road. The segment proceeds southeast for approximately .30 mile while paralleling the west side of Sam Bass Road. The termination point of Segment L1 is at the intersection of segments L1, N1, and P1.

Segment M1 — Segment M1 begins at the intersection of segments M1, C5, and D5, located northeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .40 mile while paralleling the north side of Journey Parkway, crossing Brushy Creek. The termination of Segment M1 is at the intersection of segments M1, N1, and O1.

Segment N1 — Segment N1 begins at the intersections of segments M1, N1, and O1, located west from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds northeast for approximately .20 mile. The termination of Segment of N1 is at the intersection of segments L1, N1, and P1.

Segment O1 — Segment O1 begins at the intersection of segments M1, N1, and O1, located west from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .20 mile, crossing Journey Parkway. The termination point of Segment O1 is at the intersection of segments O1, Q1, S1, and Substation Site 1-6.

Segment P1 — Segment P1 begins at the intersection of segments L1, N1, and P1, located west from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .20 mile while paralleling the west side of Sam Bass Road, crossing Journey Parkway. The termination point of Segment P1 is at the intersection of segments P1, Q1, and T1.

Segment Q1 — Segment Q1 begins at the intersection of segments O1, Q1, S1, and Substation Site 1-6, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds northeast for approximately .30 mile. The termination point of Segment Q1 is at the intersection of segments P1, Q1, and T1.

Segment R1 — Segment R1 begins at the intersection of segments G1, R1 and F5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .60 mile while paralleling the east side of Ronald Reagan Blvd., crossing Block House Creek. The termination point of Segment R1 is at the intersection of segments R1, U1a, and L5.

Segment S1 — Segment S1 begins at the intersection of segments O1, Q1, and Substation Site 1-6, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .23 mile and then angles to the southwest for approximately .29 mile. The segment then angles south-southwest for approximately .12 mile. The termination of Segment S1 is at the intersection of segments S1, W1, Y1, Z1, and G5.

Segment T1 — Segment T1 begins at the intersection of segments P1, Q1, and T1, located south from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .14 mile while paralleling the west side of Sam Bass Road. It then angles to the south-southeast for approximately .10 mile. The segment then angles southeast for approximately .05 mile. The termination of Segment T1 is at the intersection of segments T1, V5, and W5.

Segment U1 — Segment U1 begins at the intersection of segments U1, B2, and L5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .30 mile, crossing Block House Creek. The termination of Segment U1 is at the intersection of segments U1, V1, and Substation Site 1-1.

Segment U1a — Segment U1a begins at the intersection of segments R1, U1a, and L5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .30 mile, crossing Block House Creek. The termination of Segment U1a is at the intersection of segments U1a, V1a, and Substation Site 1-1.

Segment V1 — Segment V1 begins at the intersection of segments U1, V1, and Substation Site 1-1, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .40 mile. The termination of Segment V1 is at the intersection of segments V1, W1, X1, and H5.

Segment V1a — Segment V1a begins at the intersection of segments U1a, V1a, and Substation Site 1-1, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .40 mile. The termination of Segment V1a is at the intersection of segments V1a, E5, G5, and H5.

Segment W1 — Segment W1 begins at the intersection of segments V1, W1, X1, and H5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .10 mile, crossing Brushy Creek. The termination of Segment W1 is at the intersection of segments S1, W1, Y1, Z1, and G5.

Segment X1 — Segment X1 begins at the intersection of segments V1, W1, X1, and H5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .20 mile, crossing Brushy Creek. The termination of Segment X1 is at the intersection of segments X1, Y1, and C2.

Segment Y1 — Segment Y1 begins at the intersection of segments S1, W1, Y1, Z1, and G5, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southwest for approximately .20 mile. The termination of Segment Y1 is at the intersection of segments X1, Y1, and C2.

Segment Z1 — Segment Z1 begins at the intersection of segments S1, W1, Y1, Z1, and G5, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds northeast for approximately .30 mile. The termination of Segment Z1 is at the intersection of segments Z1, A2 and Substation Site 1-2.

Segment A2 — Segment A2 begins at the intersection of segments Z1, A2 and Substation Site 1-2, located west from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately .18 mile, crossing Acacia Drive. It then turns southeast for approximately .08 mile while paralleling the east side of Acacia Drive, crossing The Outer Avenue. The segment turns northeast for approximately .21 mile while paralleling the south side of The Outer Avenue. The termination of Segment A2 is at the intersection of segments A2, D2, and V5.

Segment B2 — Segment B2 begins at the intersection of segments U1, B2, and L5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .58 mile while paralleling the east side of Ronald Reagan Blvd. It then turns northeast for approximately .05 mile. The segment turns southeast for approximately .16 mile, crossing CR 272. The termination of Segment B2 is at the intersection of segments B2, E2, and K2.

Segment C2 — Segment C2 begins at the intersection of segments X1, Y1, and C2, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .50 mile. The termination point of Segment C2 is at the intersection of segments C2, F2, and G2.

Segment D2 — Segment D2 begins at the intersection of segments A2, D2, and V5, located southwest from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds in a southeasterly direction for approximately .30 mile while paralleling the west side of Sam Bass Road. The termination of Segment D2 is at the intersection of segments D2, K4, and Substation Site 1-7.

Segment E2 — Segment E2 begins at the intersection of segments B2, E2, and K2, located southeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds north-northeast for approximately .05 mile and then angles to the northeast for approximately .48 mile. The termination point of Segment E2 is at the intersection of segments E2, F2, and Substation Site 1-4.

Segment F2 — Segment F2 begins at the intersection of segments E2, F2, and Substation Site 1-4, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds northeast for approximately .10 mile, crossing CR 272 and Brushy Creek. It then angles to the north-northeast for approximately .10 mile. The termination of Segment F2 is at the intersection of segments C2, F2, and G2.

Segment G2 — Segment G2 begins at the intersection of segments C2, F2, and G2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds northeast for approximately .10 mile. The termination of Segment G2 is at the intersection of segments G2, H2, and L2.

Segment H2 — Segment H2 begins at the intersection of segments G2, H2, and L2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds northeast for approximately .20 mile. The termination of Segment H2 is at the intersection of segments H2, I2, and N2.

Segment I2 — Segment I2 begins at the intersection of segments H2, I2, and N2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .14 mile and then angles to the northeast for approximately .50 mile. The termination of Segment I2 is at the intersection of segments I2, J2, and Q2.

Segment J2 — Segment J2 begins at the intersection of segments J2, T2 and K4, located southeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .02 mile while paralleling the west side of Sam Bass Road. The termination of Segment J2 is at the intersection of segments I2, J2 and Q2.

Segment K2 — Segment K2 begins at the intersection of segments B2, E2, and K2, located southeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .09 mile. It then angles to the east-southeast for approximately .67 mile while paralleling the east side of Ronald Reagan Blvd., crossing Spanish Oak Creek and FM 1431/East Whitestone Blvd. The termination of Segment K2 is at the intersection of segments K2, J3, and N3.

Segment L2 — Segment L2 begins at the intersection of segments G2, H2, and L2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .50 mile. The termination of Segment L2 is at the intersection of segments L2, M2, and Substation Site 1-5.

Segment M2 — Segment M2 begins at the intersection of segments L2, M2, and Substation Site 1-5, located northeast from the intersection of Ronald Reagan Blvd. and FM 1431. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment M2 is at the intersection of segments M2, J3, and K3.

Segment N2 — Segment N2 begins at the intersection of segments H2, I2, and N2, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .10 mile. The termination of Segment N2 is at the intersection of segments N2, O2, and Substation Site 1-3.

Segment O2 — Segment O2 begins at the intersection of segments N2, O2, and Substation Site 1-3, located northeast from the intersection of Ronald Reagan Blvd. and CR 272. The segment proceeds southeast for approximately .40 mile. The termination of Segment O2 is at the intersection of segments O2, P2, and R2.

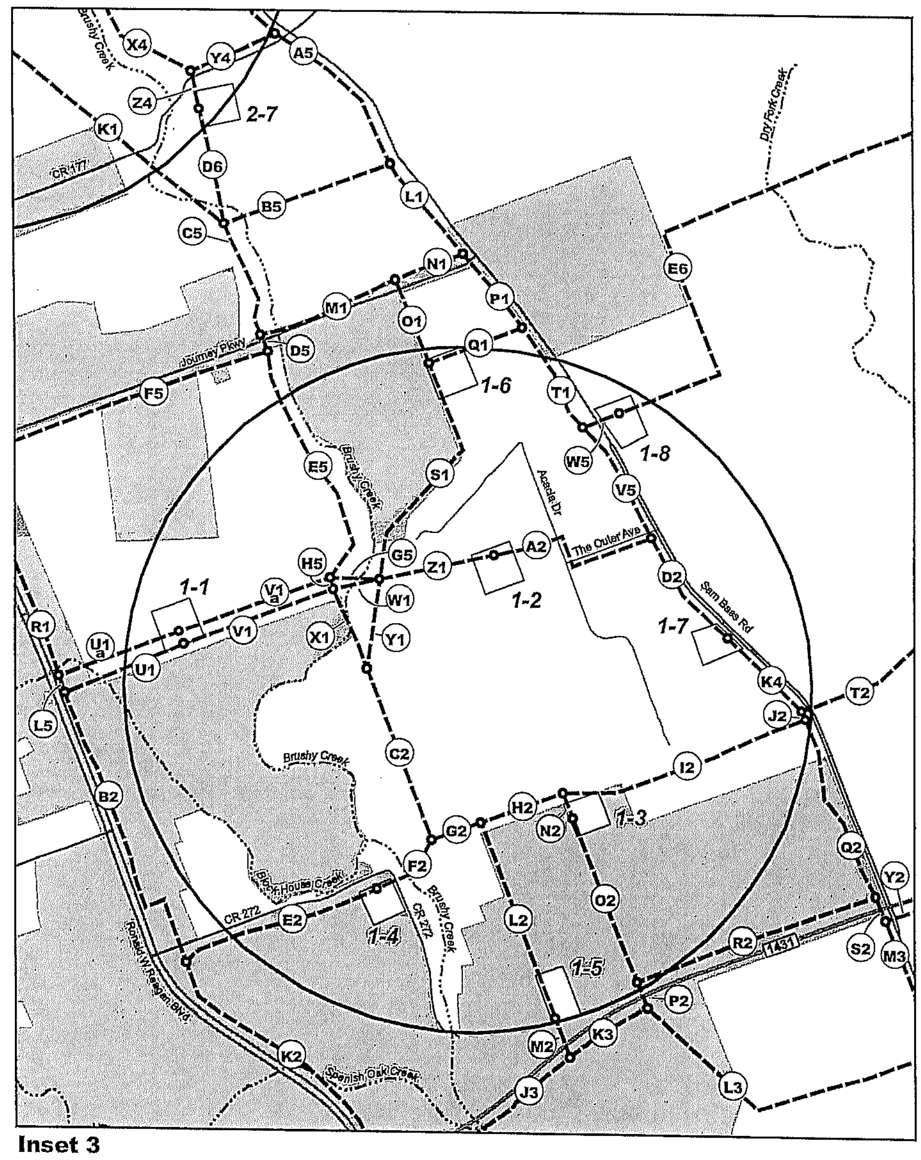
Segment P2 — Segment P2 begins at the intersection of segments O2, P2, and R2, located northeast from the intersection of Ronald Reagan Blvd. and FM 1431. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment P2 is at the intersection of segments P2, K3, and L3.

Segment Q2 — Segment Q2 begins at the intersection of segments I2, J2 and Q2, located southeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .09 mile while paralleling the west side of Sam Bass Road. It then angles to the south for approximately .12 mile and then angles to the east-southeast for approximately .07 mile. The segment then angles southeast for approximately .21 mile while paralleling the west side of Sam Bass Road. The termination of Segment Q2 is at the intersection of segments Q2, R2 and S2.

Segment R2 — Segment R2 begins at the intersection of segments O2, P2 and R2, located northeast from the intersection of Ronald Reagan Blvd. and FM 1431. The segment proceeds northeast for approximately .60 mile while paralleling the north side of FM 1431/East Whitestone Blvd. The termination of Segment R2 is at the intersection of segments Q2, R2 and S2.

Leander-Round Rock
138-kV Transmission Line Project

Primary Alternative
Route Segments



Inset 3
Substation Siting Area 1

Project Components
- Primary Alternative Route Segment, Node and Label
- ERCOT Approved Project Endpoint
- Primary Substation Siting Area
- 1-1 Primary Substation Alternative
- Study Area Boundary

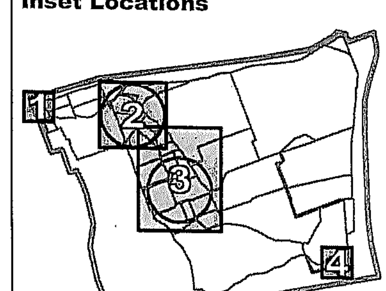
Existing Utilities
- Existing Transmission Line

Administrative Boundaries
- Incorporated Area

Transportation
- 1431 Farm to Market Road
- Major Road

Surface Water
- Stream

Inset Locations



0 — 2/3
Miles
3 inch = 1 mile

LCRA
POWER ENGINEERS
Date: 4/14/2016

Segment S2 — Segment S2 begins at the intersection of segments Q2, R2 and S2, located northwest from the intersection of Sam Bass Road and FM 1431. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment S2 is at the intersection of segments S2, Y2, and M3.

Segment T2 — Segment T2 begins at the intersection of segments J2, T2 and K4, located southeast from the intersection of Sam Bass Road and The Outer Avenue. The segment curves around to the east-northeast for approximately .70 mile, crossing Sam Bass Road. It then angles to the northeast for approximately .14 mile, crossing Dry Fork Creek. The segment continues northeast for approximately .51 mile while paralleling the north side of Arterial H. At this point, the segment continues northeast for approximately .34 mile. The termination of Segment T2 is at the intersection of segments T2, U2 and U5.

Segment U2 — Segment U2 begins at the intersection of segments T2, U2 and U5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately .60 mile. The termination of Segment U2 is at the intersection of segments U2, W2, W2a, M5, and N5.

Segment V2 — Segment V2 begins at the intersection of segments V2, M5 and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately 1.10 mile, crossing Chandler Branch. The termination of Segment V2 is at the intersection of segments V2, X2, and K5.

Segment W2 — Segment W2 begins at the intersection of segments U2, W2, W2a, M5, and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .25 mile and then turns southwest for approximately.19 mile. The segment turns southeast for approximately .68 mile. The termination of Segment W2 is at the intersection of segments W2, Y2, Z2, and O5.

Segment W2a — Segment W2a begins at the intersection of segments U2, W2, W2a, M5, and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .15 mile and then angles to the south-southeast for approximately.11 mile. The segment turns southwest for approximately .20 mile. It then turns southeast for approximately .60 mile. The termination of Segment W2a is at the intersection of segments W2a, O5, and Q5.

Segment X2 — Segment X2 begins at the intersection of segments V2, X2, and K5, located west from the intersection of Interstate Highway 35 (I-35) and Westinghouse Road. The segment proceeds in a southerly direction for approximately 1.30 miles by rebuilding an existing transmission line, crossing Chandler Branch, and FM 1431/East Whitestone Blvd. The termination of Segment X2 is at the intersection of segments X2, B3, and C3.

Segment Y2 — Segment Y2 begins at the intersection of segments S2, Y2, and M3, located southwest from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .95 mile while paralleling the south side of FM 1431/East Whitestone Blvd., crossing Sam Bass Road and Dry Fork Creek. It then angles to the north-northeast for approximately .05 mile, crossing FM 1431/East Whitestone Blvd. The segment continues northeast for approximately .98 mile while paralleling the north side of FM 1431/East Whitestone Blvd. The termination of Segment Y2 is at the intersection of segments W2, Y2, Z2, and O5.

Segment Z2 — Segment Z2 begins at the intersection of segments W2, Y2, Z2, and O5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment Z2 is at the intersection of segments Z2, A3, and P5.

Segment A3 — Segment A3 begins at the intersection of segments Z2, A3, and P5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .82 mile. It then turns northeast for approximately .70 mile. The termination of Segment A3 is at the intersection of segments A3, D3, F3, and R5.

Segment A3a — Segment A3a begins at the intersection of segments A3a, B3, P5, and Q5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .27 mile and then angles south for approximately .14 mile. The segment angles southeast for approximately .36 mile. It then turns northeast for approximately .68 mile. The termination of Segment A3a is at the intersection of segments A3a, D3a, and R5.

Segment B3 — Segment B3 begins at the intersection of segments A3a, B3, P5, and Q5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately 1.66 mile while paralleling the south side of FM 1431/East Whitestone Blvd., crossing Onion Branch. It then angles to the southeast for approximately .14 mile. The termination of Segment B3 is at the intersection of segments X2, B3, and C3.

Segment C3 — Segment C3 begins at the intersection of segments X2, B3, and C3, located west from the intersection of Interstate Highway 35 (I-35) and FM 1431/East Whitestone Blvd. The segment proceeds south for approximately .60 mile by rebuilding an existing transmission line. The termination of Segment C3 is at the intersection of segments C3, E3, and H3.

Segment D3 — Segment D3 begins at the intersection of segments A3, D3, F3, and R5, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .30 mile, crosses Onion Branch, and then proceeds northeast for approximately .30 mile. It then angles north-northeast for approximately .10 mile. The termination of Segment D3 is at the intersection of segments D3, D3a, E3, and G3.

Segment D3a — Segment D3a begins at the intersection of segments A3a, D3a, and R5, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .25 mile, crosses Onion Branch, and then proceeds northeast for approximately .35 mile. It then angles east for approximately .10 mile. The termination of Segment D3a is at the intersection of segments D3, D3a, E3, and G3.

Segment E3 — Segment E3 begins at the intersection of segments D3, D3a, E3, and G3, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds east for approximately .20 mile. The termination of Segment E3 is at the intersection of segments C3, E3, and H3.

Segment F3 — Segment F3 begins at the intersection of segments A3, D3, F3, and R5, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .34 mile and then angles southwest for approximately .73 mile. The segment turns northwest for approximately .11 mile while paralleling the north side of Sam Bass Road. It then turns southwest for approximately .04 mile, crossing Sam Bass Road. The termination of Segment F3 is at the intersection of segments F3, O3, and U3.

Segment G3 — Segment G3 begins at the intersection of segments D3, D3a, E3, and G3, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds south for approximately 1.00 mile by rebuilding an existing transmission line, crossing Onion Branch. The termination of Segment G3 is at the intersection of segments G3, H3, and I3.

Segment H3 — Segment H3 begins at the intersection of segments C3, E3, and H3, located southwest from the intersection of I-35 and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .05 mile, crossing an existing transmission line, a railroad, and an existing transmission line. It then turns south for approximately .86 mile while paralleling the east side of an existing transmission line. The segment turns southwest for approximately .07 mile, crossing an existing transmission line and a railroad. It then angles to the west-southwest for approximately .16 mile while paralleling the north side of FM 3406/W. Old Settlers Blvd., crossing Onion Branch and an existing transmission line. The termination of Segment H3 is at the intersection of segments G3, H3, and I3.

Segment I3 — Segment I3 begins at the intersection of segments G3, H3, and I3, located west from the intersection of I-35 and FM 3406/W. Old Settlers Blvd. The segment proceeds south for approximately .80 mile by rebuilding an existing transmission line, crossing FM 3409 and Onion Branch twice. It then angles to the southeast for approximately .03 mile while paralleling the east side of an existing transmission line. The segment turns southwest for approximately .03 mile while paralleling the north side of an existing transmission line, crossing two existing transmission lines. The termination of Segment I3 is at the intersection of segments I3, G4, and J4.

Segment J3 — Segment J3 begins at the intersection of segments K2, J3, and N3, located southeast from the intersection of West Parmer Lane and FM 1431/East Whitestone Blvd. The segment proceeds in a northeasterly direction for approximately .60 mile while paralleling the south side of FM 1431/East Whitestone Blvd., crossing Brushy Creek. The termination of Segment J3 is at the intersection of segments M2, J3, and K3.

Segment K3 — Segment K3 begins at the intersection of segments M2, J3, and K3, located northeast from the intersection of West Parmer Lane and FM 1431/East Whitestone Blvd. The segment proceeds in a northeasterly direction for approximately .20 mile while paralleling the south side of FM 1431/East Whitestone Blvd. The termination of Segment K3 is at the intersection of segments P2, K3, and L3.

Segment L3 — Segment L3 begins at the intersection of segments P2, K3, and L3, located northeast from the intersection of West Parmer Lane and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .37 mile. It then turns northeast for approximately .28 mile. The segment continues northeast for approximately .20 mile while paralleling the south side of Thousand Oaks Drive. The termination of Segment L3 is at the intersection of segments L3, M3, and O3.

Segment M3 — Segment M3 begins at the intersection of segments S2, Y2, and M3, located southwest from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .30 mile while paralleling the west side of Sam Bass Road. It then continues southeast for approximately .06 mile, crossing Thousand Oaks Drive. The termination of Segment M3 is at the intersection of segments L3, M3, and O3.

Segment N3 — Segment N3 begins at the intersection of segments K2, J3, and N3, located southeast from the intersection of West Parmer Lane and FM 1431/East Whitestone Blvd. The segment proceeds in a southerly direction for approximately 1.38 miles while paralleling the east side of West Parmer Lane. It then continues south for approximately .28 mile and turns east for approximately .21 mile. The segment angles southeast for approximately .15 mile, crossing Brushy Creek Road. The segment turns east for approximately .43 mile and then angles to the northeast for approximately .28 mile, crossing Brushy Creek Road. It then angles in a northeasterly direction for approximately .66 mile while paralleling the north side of Brushy Creek Road. At this point, the segment then turns east for approximately .06 mile, crossing Brushy Creek Road and South Brushy Creek, and then angles northeast for approximately .04 mile. It then continues in a northeasterly direction for approximately .62 miles while paralleling the south side of Brushy Creek Road. The segment angles east for approximately .06 mile, crossing Great Oaks Drive. It then angles in a northeasterly direction for approximately .44 mile while paralleling the south side of Hairy Man Road, crossing Hairy Man Road. Finally, the segment continues northeast for approximately .30 mile while paralleling the north side of Hairy Man Road, crossing Brushy Creek, and then angles east for approximately .11 mile. The termination of Segment N3 is at the intersection of segments N3, U3, A4, B4, and B4a.

Segment O3 — Segment O3 begins at the intersection of segments L3, M3, and O3, located south from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds east for approximately .15 mile. It then angles southeast for approximately .41 mile and then angles south-southeast for approximately .13 mile. The segment continues in a southeasterly direction for approximately .82 mile while paralleling the south side of Sam Bass Road. At this point, the segment then turns east for approximately .07 mile, crossing Sam Bass. It then continues in an easterly direction for approximately .29 mile while paralleling the north side of Sam Bass Road. The segment angles south-southeast for approximately .09 mile, crossing Sam Bass Road. Finally, the segment continues in a southeasterly direction for approximately .32 mile while paralleling the south side of Sam Bass Road. The termination of Segment O3 is at the intersection of segments F3, O3, and U3.

Segment U3 — Segment U3 begins at the intersection of segments F3, O3, and U3, located west from the intersection of Sam Bass Road and FM 3406/W. Old Settlers Blvd. The segment proceeds southwest for approximately .12 mile, crossing Dry Fork Creek. It then angles southeast for approximately .20 mile. The termination of Segment U3 is at the intersection of segments N3, U3, A4, B4, and B4a.

Segment A4 — Segment A4 begins at the intersection of segments N3, U3, A4, B4, and B4a, located southwest from the intersection of Sam Bass Road and FM 3406/W. Old Settlers Blvd. The segment proceeds southeast for approximately .12 mile, crossing Brushy Creek and Hairy Man Road. It then continues in a southeasterly direction for approximately .36 mile while paralleling the south side of Hairy Man Road. The segment continues southeast for approximately .05 mile and then angles to the northeast for approximately .08 mile, crossing Brushy Creek. The segment continues in a northeasterly direction for approximately .34 mile while paralleling the south side of Hairy Man Road. Finally, the segment turns in a southeasterly direction for approximately .14 mile while paralleling the west side of Sam Bass Road. The termination of Segment A4 is at the intersection of segments A4, D4, and E4.

Segment B4 — Segment B4 begins at the intersection of segments N3, U3, A4, B4, and B4a, located southwest from the intersection of Sam Bass Road and FM 3406/W. Old Settlers Blvd. The segment proceeds southeast for approximately .53 mile, crossing Brushy Creek and Hairy Man Road. It then turns northeast for approximately .56 mile. The termination of Segment B4 is at the intersection of segments B4, F4, and S5.

Segment B4a — Segment B4a begins at the intersection of segments N3, U3, A4, B4, and B4a, located southwest from the intersection of Sam Bass Road and FM 3406/W. Old Settlers Blvd. The segment proceeds southeast for approximately .50 mile, crossing Brushy Creek and Hairy Man Road. It then turns northeast for approximately .48 mile and angles to the southeast for approximately .07 mile. The termination of Segment B4a is at the intersection of segments B4a, D4, F4a, and S5.

Segment D4 — Segment D4 begins at the intersection of segments A4, D4, and E4, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southwest for approximately .14 mile. It then angles west-southwest for approximately .11 mile, crossing Brushy Creek. The termination of Segment D4 is at the intersection of segments B4a, D4, F4a, and S5.

Segment E4 — Segment E4 begins at the intersection of segments A4, D4, and E4, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southeast for approximately .30 mile while paralleling the west side of Sam Bass Road. The termination of Segment E4 is at the intersection of segments E4, G4, and H4.

Segment F4 — Segment F4 begins at the intersection of segments B4, F4, and S5, located south from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds south-southeast for approximately .10 mile and then angles southeast for approximately .14 mile. It then angles to the northeast for approximately .25 mile, crossing Brushy Creek, and then turns north for approximately .02 mile. The termination of Segment F4 is at the intersection of segments F4, F4a, and T5.

Segment F4a — Segment F4a begins at the intersection of segments B4a, D4, F4a, and S5, located south from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds south-southeast for approximately .12 mile and then angles southeast for approximately .09 mile. It then angles to the northeast for approximately .23 mile, crossing Brushy Creek. The termination of Segment F4a is at the intersection of segments F4, F4a, and T5.

Segment G4 — Segment G4 begins at the intersection of segments E4, G4, and H4, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds northeast for approximately .10 mile crossing Sam Bass Road and paralleling the south side of Somerset Drive. It then turns southeast for approximately .03 mile. The termination of Segment G4 is at the intersection of segments I3, G4, and J4.

Segment H4 — Segment H4 begins at the intersection of segments E4, G4, and H4, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southeast for approximately .10 mile while paralleling the west side of Sam Bass Road. The termination of Segment H4 is at the intersection of segments H4, I4, and T5.

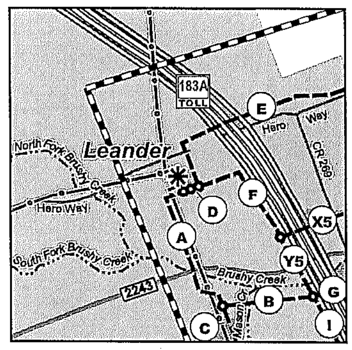
Segment I4 — Segment I4 begins at the intersection of segments H4, I4, and T5, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southeast for approximately .03 mile while paralleling the west side of Sam Bass Road. It then turns northeast for approximately .07 mile crossing Sam Bass Road while paralleling the south side of an existing transmission line. The termination of Segment I4 is at the Round Rock Substation, located approximately 1.00 mile west from the intersection of I-35 and Sam Bass Road.

Segment J4 — Segment J4 begins at the intersection of segments I3, G4, and J4, located east from the intersection of Sam Bass Road and Somerset Drive. The segment proceeds southwest for approximately .03 mile while paralleling the north side of an existing transmission line. The termination of Segment J4 is at the Round Rock Substation, located approximately 1.00 mile west from the intersection of I-35 and Sam Bass Road.

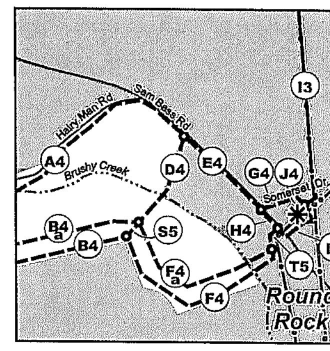
Segment K4 — Segment K4 begins at the intersection of segments D2, K4, and Substation Site 1-7, located southeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds in a southeasterly direction for approximately .30 mile while paralleling the west side of Sam Bass Road. The termination of Segment K4 is at the intersection of segments J2, T2, and K4.

Leander-Round Rock 138-kV Transmission Line Project

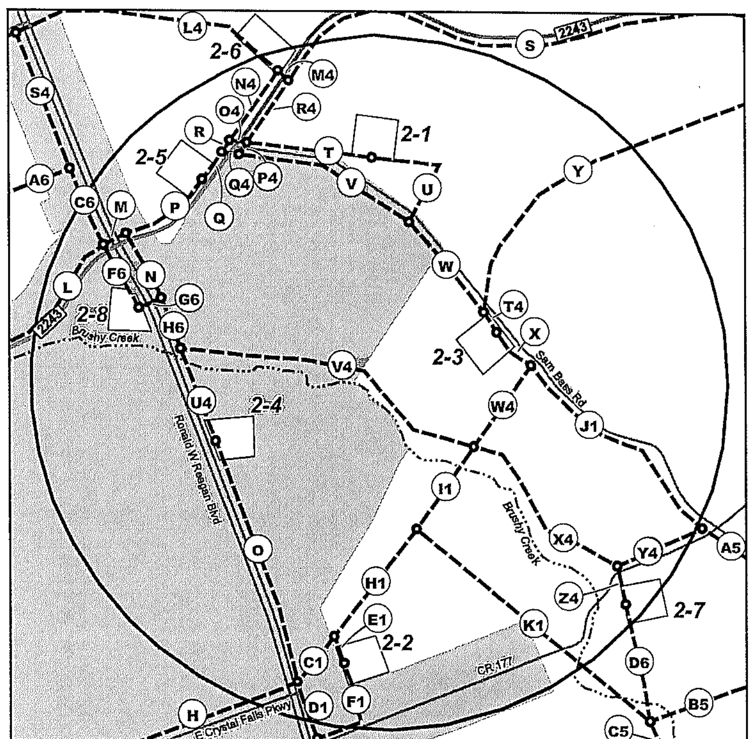
Primary Alternative Route Segments



Inset 1
Leander Substation



Inset 4
Round Rock Substation



Inset 2
Substation Siting Area 2

Project Components

- Primary Alternative Route Segment, Node and Label
- ERCOT Approved Project Endpoint
- Primary Substation Siting Area
- Primary Substation Alternative
- Study Area Boundary

Existing Utilities

- Existing Transmission Line

Administrative Boundaries

- Incorporated Area

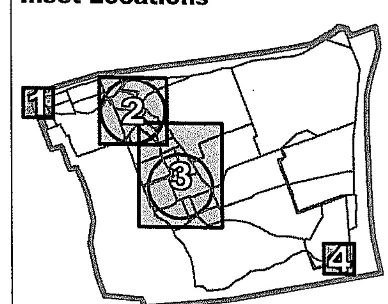
Transportation

- 1431 Farm to Market Road
- Major Road

Surface Water

- Stream

Inset Locations



0 — 2/3
Miles
3 Inch = 1 mile

LCRA — POWER ENGINEERS
Date: 4/14/2016

Segment L4 — Segment L4 begins at the intersection of segments K, L4, and S4, located southwest from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds northeast for approximately .13 mile, crossing Ronald Reagan Blvd., and then angles east-southeast for approximately .41 mile. The segment angles southeast for approximately .16 mile. The termination of Segment L4 is at the intersection of segments L4, M4, N4, and Substation Site 2-6.

Segment M4 — Segment M4 begins at the intersection of segments L4, M4, N4, and Substation Site 2-6, located southeast from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds southeast for approximately .04 mile, crossing FM 2243. The termination of Segment M4 is at the intersection of segments S, M4, and R4.

Segment N4 — Segment N4 begins at the intersection of segments L4, M4, N4, and Substation Site 2-6, located southeast from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds southwest for approximately .20 mile while paralleling the west side of FM 2243. The termination of Segment N4 is at the intersection of segments R, N4, and O4.

Segment O4 — Segment O4 begins at the intersection of segments R, N4, and O4, located northeast from the intersection of Ronald Reagan Blvd. and FM 2243. The segment proceeds east for approximately .04 mile, crossing FM 2243. The termination of Segment O4 is at the intersection of segments T, O4, P4, and R4.

Segment P4 — Segment P4 begins at the intersection of segments V, P4, and Q4, located northeast from the intersection of Ronald Reagan Blvd. and FM 2243. The segment proceeds northeast for approximately .04 mile, crossing Sam Bass Road. The termination of Segment P4 is at the intersection of segments T, O4, P4, and R4.

Segment Q4 — Segment Q4 begins at the intersection of segments Q, R, and Q4, located northeast from the intersection of Ronald Reagan Blvd. and FM 2243. The segment proceeds east for approximately .04 mile, crossing FM 2243. The termination of Segment Q4 is at the intersection of segments V, P4, and Q4.

Segment R4 — Segment R4 begins at the intersection of segments T, O4, P4, and R4, located northeast from the intersection of Ronald Reagan Blvd. and FM 2243. The segment proceeds northeast for approximately .20 mile while paralleling the east side of FM 2243. The termination of Segment R4 is at the intersection of segments S, M4, andR4.

Segment S4 — Segment S4 begins at the intersection of segments K, L4, and S4, located southwest from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds southeast for approximately .40 mile while paralleling the west side of Ronald Reagan Blvd. The termination of Segment S4 is at the intersection of segments S4, A6, and C6.

Segment T4 — Segment T4 begins at the intersection of segments W, Y, and T4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southeast for approximately .10 mile. The termination of Segment T4 is at the intersection of segments X, T4, and Substation Site 2-3.

Segment U4 — Segment U4 begins at the intersection of segments U4, V4, and H6, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .20 mile while paralleling the east side of Ronald Reagan Blvd, crossing Brushy Creek. The termination of Segment U4 is at the intersection of segments O, U4, and Substation Site 2-4.

Segment V4 — Segment V4 begins at the intersection of segments U4, V4, and H6, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds east-southeast for approximately .46 mile and then angles southeast for approximately .19 mile. The segment angles east-southeast for approximately .15 mile. The termination of Segment V4 is at the intersection of segments I1, V4, W4, and X4.

Segment W4 — Segment W4 begins at the intersection of segments X, J1, and W4, located southeast from the intersection of FM 2243 and Sam Bass Road. The segment proceeds southwest for approximately .20 mile. The termination of Segment W4 is at the intersection of segments I1, V4, W4, and X4.

Segment X4 — Segment X4 begins at the intersection of segments I1, V4, W4, and X4, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds east-southeast for approximately .07 mile and then angles south-southeast for approximately .22 mile. The segment angles southeast for approximately .20 mile. The termination of Segment X4 is at the intersection of segments X4, Y4, and Z4.

Segment Y4 — Segment Y4 begins at the intersection of segments X4, Y4, and Z4, located west from the intersection of Sam Bass Road and CR 177. The segment proceeds northeast for approximately .20 mile while paralleling the north side of CR 177. The termination of Segment Y4 is at the intersection of segments J1, Y4, and A5.

Segment Z4 — Segment Z4 begins at the intersection of segments X4, Y4, and Z4, located west from the intersection of Sam Bass Road and CR 177. The segment proceeds southeast for approximately .10 mile, crossing CR 177. The termination of Segment Z4 is at the intersection of segments Z4, D6, and Substation Site 2-7.

Segment A5 — Segment A5 begins at the intersection of segments J1, Y4, and A5, located west from the intersection of Sam Bass Road and CR 177. The segment proceeds in a southeasterly direction for approximately .40 mile while paralleling the west side of Sam Bass Road, crossing CR 177. The termination point of Segment A5 is at the intersection of segments L1, A5, and B5.

Segment B5 — Segment B5 begins at the intersection of segments K1, B5, C5, and D6, located northwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds northeast for approximately .40 mile, crossing Brushy Creek. The termination of Segment B5 is at the intersection of segments L1, A5, and B5.

Segment C5 — Segment C5 begins at the intersection of segments K1, B5, C5, and D6, located northwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .21 mile. It then angles southwest for approximately .06 mile and then angles southeast for approximately .04 mile. The termination of Segment C5 is at the intersection of segments M1, C5, and D5.

Segment D5 — Segment D5 begins at the intersection of segments M1, C5, and D5, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds southeast for approximately .04 mile, crossing Journey Parkway. The termination of Segment D5 is at the intersection of segments D5, E5, and F5.

Segment E5 — Segment E5 begins at the intersection of segments D5, E5, and F5, located southwest from the intersection of Sam Bass Road and Journey Parkway. The segment proceeds south for approximately .07 mile and then curves around to the southeast for approximately .33 mile. It then angles south-southeast for approximately .14 mile and then angles to the southwest for approximately .10 mile. The termination of Segment E5 is at the intersection of segments V1a, E5, G5, and H5.

Segment F5 — Segment F5 begins at the intersection of segments G1, R1 and F5, located south from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds northeast for approximately .80 mile while paralleling the south side of Journey Parkway. The termination point of Segment F5 is at the intersection of segments D5, E5, and F5.

Segment G5 — Segment G5 begins at the intersection of segments V1a, E5, G5, and H5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .10 mile, crossing Brushy Creek. The termination point of Segment G5 is at the intersection of segments S1, W1, Y1, Z1, and G5.

Segment H5 — Segment H5 begins at the intersection of segments V1a, E5, G5, and H5, located southeast from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .03 mile. The termination point of Segment H5 is at the intersection of segments V1, W1, X1, and H5.

Segment I5 — Segment I5 begins at the intersection of segments A1, I5, and J5, located northwest from the intersection of I-35 and Westinghouse Road. The segment proceeds northeast for approximately .51 mile. It then turns east for approximately .09 mile and then turns southeast for approximately .49 mile. The termination of Segment I5 is at the intersection of segments I5, J5 and K5.

Segment J5 — Segment J5 begins at the intersection of segments A1, I5, and J5, located northwest from the intersection of I-35 and Westinghouse Road. The segment proceeds southeast for approximately .70 mile. The termination of Segment J5 is at the intersection of segments I5, J5 and K5.

Segment K5 — Segment K5 begins at the intersection of segments I5, J5, and K5, located northwest from the intersection of I-35 and Westinghouse Road. The segment proceeds southeast for approximately .18 mile. It continues in a southerly direction for approximately .76 mile by rebuilding an existing transmission line, crossing West Fork Smith Branch twice. The segment angles southwest for approximately .03 mile and then turns south for approximately .08 mile. It then angles southeast for approximately .05 mile. The segment continues south for approximately .96 mile by rebuilding an existing transmission line. The termination of Segment K5 is at the intersection of segments V2, X2, and K5.

Segment L5 — Segment L5 begins at the intersection of segments R1, U1a, and L5, located south from the intersection of Ronald Reagan Blvd. and Journey Parkway. The segment proceeds southeast for approximately .04 mile while paralleling the east side of Ronald Reagan Blvd. The termination point of Segment L5 is at the intersection of segments U1, B2, and L5.

Segment M5 — Segment M5 begins at the intersection of segments U2, W2, W2a, M5, and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately 1.00 mile. The termination of Segment M5 is at the intersection of segments V2, M5, and N5.

Segment N5 — Segment N5 begins at the intersection of segments U2, W2, W2a, M5, and N5, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds north-northeast for approximately .60 mile and then angles to the northeast for approximately.30 mile. It then angles southeast for approximately .32 mile. The termination of Segment N5 is at the intersection of segments V2, M5, and N5.

Segment O5 — Segment O5 begins at the intersection of segments W2, Y2, Z2, and O5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .04 mile while paralleling the north side of FM 1431/East Whitestone Blvd. The termination of Segment O5 is at the intersection of segments W2a, O5, and Q5.

Segment P5 — Segment P5 begins at the intersection of segments Z2, A3, and P5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds northeast for approximately .04 mile while paralleling the south side of FM 1431/East Whitestone Blvd. The termination of Segment P5 is at the intersection of segments A3a, B3, P5, and Q5.

Segment Q5 — Segment Q5 begins at the intersection of segments W2a, O5, and Q5, located northeast from the intersection of Sam Bass Road and FM 1431/East Whitestone Blvd. The segment proceeds southeast for approximately .10 mile, crossing FM 1431/East Whitestone Blvd. The termination of Segment Q5 is at the intersection of segments A3a, B3, P5, and Q5.

Segment R5 — Segment R5 begins at the intersection of segments A3a, D3a, and R5, located southwest from the intersection of I-35 and FM 1431/ East Whitestone Blvd. The segment proceeds southeast for approximately .04 mile. The termination of Segment R5 is at the intersection of segments A3, D3, F3, and R5.

Segment S5 — Segment S5 begins at the intersection of segments B4a, D4, F4a, and S5, located south from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds southwest for approximately .04 mile. The termination of Segment S5 is at the intersection of segments B4, F4, and S5.

Segment T5 — Segment T5 begins at the intersection of segments F4, F4a, and T5, located southeast from the intersection of Sam Bass Road and Hairy Man Road. The segment proceeds north for approximately .04 mile while paralleling the west side of an existing transmission line. It then turns northeast for approximately .03 mile while paralleling the north side of an existing transmission line. The termination of Segment T5 is at the intersection of segments I4, H4, and T5.

Segment U5 — Segment U5 begins at the intersection of segments B1, U5, and E6, located northeast from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .37 mile and then turns southwest for approximately .11 mile. It then turns southeast for approximately .53 mile. The termination of Segment U5 is at the intersection of segments T2, U2, and U5.

Segment V5 — Segment V5 begins at the intersection of segments T1, V5, and W5, located northwest from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds southeast for approximately .08 mile. It then angles south-southeasterly for approximately .24 mile while paralleling the west side of Sam Bass Road, crossing The Outer Avenue. The termination of Segment V5 is at the intersection of segments A2, D2, and V5.

Segment W5 — Segment W5 begins at the intersection of segments T1, V5, and W5, located northwest from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately .10 mile, crossing Sam Bass Road. The termination of Segment W5 is at the intersection of segments W5, E6, and Substation Site 1-8.

Segment X5 — Segment X5 begins at the intersection of segments F, X5, and Y5, located northwest from the intersection of US Hwy 183A and FM 2243. The segment proceeds northeast for approximately .70 mile, crossing US Hwy 183A and CR 269. The termination of Segment X5 is at the intersection of segments J, X5, and Z5.

Segment Y5 — Segment Y5 begins at the intersection of segments F, X5, and Y5, located northwest from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .20 mile while paralleling the west side of US Hwy 183A, crossing FM 2243 and Brushy Creek. The termination of Segment Y5 is at the intersection of segments B, I, G, and Y5.

Segment Z5 — Segment Z5 begins at the intersection of segments J, X5, and Z5, located northeast from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .10 mile. The termination of Segment Z5 is at the intersection of segments Z5, A6, and B6.

Segment A6 — Segment A6 begins at the intersection of segments Z5, A6, and B6, located northeast from the intersection of US Hwy 183A and FM 2243. The segment proceeds northeast for approximately .90 mile. The termination of Segment A6 is at the intersection of segments S4, A6, and C6.

Segment B6 — Segment B6 begins at the intersection of segments Z5, A6, and B6, located northeast from the intersection of US Hwy 183A and FM 2243. The segment proceeds southeast for approximately .20 mile. It then turns east-southeast for approximately .02 mile while paralleling the north side of FM 2243. The termination of Segment B6 is at the intersection of segments G, L, and B6.

Segment C6 — Segment C6 begins at the intersection of segments S4, A6, and C6, located southwest from the intersection of Ronald Reagan Blvd. and Hero Way. The segment proceeds southeast for approximately .20 mile while paralleling the west side of Ronald Reagan Blvd. The termination of Segment C6 is at the intersection of segments L, M, C6, and F6.

Segment D6 — Segment D6 begins at the intersection of segments Z4, D6, and Substation Site 2-7, located southwest from the intersection of Sam Bass Road and CR 177. The segment proceeds southeast for approximately .30 mile, crossing Brushy Creek. The termination of Segment D6 is at the intersection of segments K1, B5, C5, and D6.

Segment E6 — Segment E6 begins at the intersection of segments W5, E6, and Substation Site 1-8, located north from the intersection of Sam Bass Road and The Outer Avenue. The segment proceeds northeast for approximately .27 mile and then turns northwest for approximately .38 mile. It then turns northeast for approximately 1.55 miles, crossing Dry Fork Creek. The termination of Segment E6 is at the intersection of segments B1, U5, and E6.

Segment F6 — Segment F6 begins at the intersection of segments L, M, C6, and F6, located northeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .20 mile crossing FM 2243 while paralleling the west side of Ronald Reagan Blvd. The termination of Segment F6 is at the intersection of segments F6, G6, and Substation Site 2-8.

Segment G6 — Segment G6 begins at the intersection of segments F6, G6, and Substation Site 2-8, located south from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds northeast for approximately .10 mile, crossing Ronald Reagan Blvd. The termination of Segment G6 is at the intersection of segments N, G6, and H6.

Segment H6 — Segment H6 begins at the intersection of segments N, G6, and H6, located southeast from the intersection of FM 2243 and Ronald Reagan Blvd. The segment proceeds southeast for approximately .10 mile while paralleling the east side of Ronald Reagan Blvd. The termination of Segment H6 is at the intersection of segments U4, V4, and H6.

ENOCH KEVER

Kirk D. Rasmussen
Direct: (512) 615-1203
krasmussen@enochkever.com

April 28, 2016

Via Hand Delivery

Ms. Julie Wicker
Wildlife Habitat Assessment Program
Wildlife Division
Texas Parks and Wildlife Department
4200 Smith School Road
Austin, TX 78744-3291

Re: PUC Docket No. 45866 – Application of LCRA Transmission Services Corporation to Amend Its Certificate of Convenience and Necessity for the Proposed Round Rock – Leander 138-kV Transmission Line Project in Williamson County, Texas

Dear Ms. Wicker:

On Thursday, April 28, 2016, LCRA Transmission Services Corporation ("LCRA TSC") filed with the Public Utility Commission of Texas ("Commission") the above-referenced application to amend its Certificate of Convenience and Necessity ("CCN") to construct a new 138-kV transmission line in Williamson County, Texas. As you are aware, the Commission's CCN application requires that we provide for review and comment a copy of the project environmental assessment ("EA") to Texas Parks and Wildlife Department ("TPWD") within seven days after the application is filed. Accordingly, enclosed with this letter is a copy of the EA prepared for the referenced project as well as a complete copy of LCRA TSC's CCN application filed at the Commission. The CCN application also requires that a copy of this transmittal letter be included with the project application. You will find a copy of this letter included as Attachment 14 to the filed application.

Under the traditional CCN process, TPWD typically provides the Commission Staff with comments about the application. On behalf of LCRA TSC, and as we have requested in past CCN cases, I would also appreciate receiving a copy of any comments TPWD may choose to provide to Commission Staff. You may send those comments to me at the address shown below. Of course, LCRA TSC reserves the right to inquire into the basis of any comments or recommendations TPWD may choose to submit in this contested case, but I am certain the appropriate arrangements can be made for that inquiry if the necessity arises.

Finally, it has been LCRA TSC's practice to provide TPWD staff with a briefing of the CCN application and the accompanying EA. To that end, Mr. Christian Powell and I would appreciate the opportunity to visit with you and your staff at your earliest convenience. If you have any questions about the EA please feel free to contact me at (512) 615-1203.

Sincerely yours,

Kirk Rasmussen
Enoch Kever PLLC

Enc: CCN Application including EA for the Leander-Round Rock Project

cc: Mr. Todd George, Texas Parks and Wildlife Department w/o enc.
Mr. A.J. Smullen, Public Utility Commission of Texas w/o enc.
Ms. Karen Hubbard, Public Utility Commission of Texas w/o enc.
Mr. John Poole, Public Utility Commission of Texas w/o enc.
Mr. Rob Reid, POWER Engineers, Inc. w/o enc.
Mr. Christian Powell, LCRA TSC w/o enc.