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SOAH DOCKET NO. 473-21-0247 PUC DOCKET NO. 51023

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APPLICATION OF THE CITY OF SAN ANTONIO TO AMEND ITS CERTIFICATE OF CONVENIENCE AND NECESSITY FOR THE SCENIC LOOP 138-KV TRANSMISSION LINE IN BEXAR COUNTY

BEFORE THE STATE OFFICE

OF

ADMINISTRATIVE HEARINGS

DIRECT TESTIMONY AND EXHIBITS

OF

GEORGE J. TAMEZ, P.E. #90313

ON BEHALF OF

APPLICANT CPS ENERGY

November 6, 2020

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SOAH DOCKET NO. 473-21-0247 PUC DOCKET NO. 51023 DIRECT TESTIMONY AND EXHIBITS OF GEORGE J. TAMEZ, P.E.

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EXHIBITS

Exhibit GJT-1: Resume of George J. Tamez

SOAH DOCKET NO. 473-21-0247 PUC DOCKET NO. 51023 DIRECT TESTIMONY AND EXHIBITS OF GEORGE J. TAMEZ, P.E.

1		I. <u>INTRODUCTION</u>
2	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
3	A.	My name is George J. Tamez. My business address is: 500 McCullough Ave, San Antonio,
4		Texas 78215.
5	Q.	WHAT IS YOUR OCCUPATION?
6	A.	I am a professional electrical engineer employed by the City of San Antonio (City), acting
7		by and through the City Public Service Board (CPS Energy) as Director of Grid
8		Transformation and Planning.
9	Q.	WHAT IS YOUR EDUCATIONAL AND PROFESSIONAL BACKGROUND?
10	A.	I am a graduate of Texas A&M University, I am a professional engineer, and I have over
11		24 years of experience in the electric utility industry. My resume is attached as Exhibit
12		GJT-1 to my testimony.
13	Q.	IN YOUR PRESENT CAPACITY, WHAT ARE YOUR RESPONSIBILITIES?
14	A.	In my role as Director of Grid Transformation and Planning, I manage three areas for CPS
15		Energy, including Transmission Planning, Distribution Planning, and Infrastructure
16		Innovation. Previously I managed both the engineering and construction areas of the
17		company. I currently oversee the Transmission and Distribution Planning departments,
18		which administer all aspects of the short and long range planning for the CPS Energy
19		electric delivery system (EDS). In addition, I manage the Innovation Infrastructure team
20		that is developing projects to leverage advanced resources such as electric vehicles and
21		energy storage in order to advance resiliency, reliability, and affordable integration into the
22		CPS Energy electric system. I have collaborated with stakeholders across the organization
23		on the development of the EDS Transmission & Distribution Long Range Plan to address
24		forecasted load growth, aging infrastructure, and reliability enhancements. I have also led
25		the development of the Strategic Asset Management Plan for EDS.

1Q.HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE PUBLIC UTILITY2COMMISSION OF TEXAS (COMMISSION OR PUC)?

3 A. No, I have not.

4 Q. PLEASE DESCRIBE THE PROJECT PROPOSED IN THIS PROCEEDING.

5 A. The project proposed in this proceeding, the Scenic Loop 138-kilovolt (kV) transmission 6 line project (Project), consists of a new double circuit 138 kV transmission line located in 7 Bexar County, Texas. The Project is proposed in order to connect the new Scenic Loop 8 Substation with the existing electric grid at the Ranchtown to Menger Creek 138 kV 9 transmission line, which is approximately five miles to the west of the area for the new 10 substation. The new Scenic Loop Substation is proposed in the area of the intersection of 11 Scenic Loop Road and Toutant Beauregard Road. The new transmission line will be 12 approximately 4.6 to 6.9 miles long, depending on the route selected.

Q. WERE YOUR TESTIMONY AND THE PORTIONS OF THE APPLICATION YOU SPONSOR PREPARED BY YOU OR BY KNOWLEDGEABLE PERSONS UPON WHOSE EXPERTISE, JUDGMENT, AND OPINIONS YOU RELY IN PERFORMING YOUR DUTIES?

17 A. Yes, they were.

Q. IS THE INFORMATION CONTAINED IN YOUR TESTIMONY AND IN THE PORTIONS OF THE APPLICATION YOU SPONSOR TRUE AND CORRECT TO THE BEST OF YOUR KNOWLEDGE AND BELIEF?

- 21 A. Yes, it is.
- 22

II. <u>PURPOSE OF TESTIMONY</u>

- 23 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?
- A. The purpose of my testimony is to sponsor certain portions of CPS Energy's application to
 amend its CCN filed in this docket on July 22, 2020 (Application) and to describe and
 support:
- 27 (1) The need and requirements for a new load-serving Scenic Loop Substation
 28 associated with the proposed Project;

1 2 3 (2) The need for the 138 kV transmission line that is required to connect the proposed Scenic Loop Substation to the existing Ranchtown to Menger Creek 138 kV transmission line to the west; and

4 5

(3) The reasons why the Project is the best solution when compared to other alternatives.

6 Q. WHAT PORTIONS OF CPS ENERGY'S APPLICATION DO YOU SPONSOR?

7 I sponsor the responses to Questions 14, 15, and 16 in the Application. I co-sponsor the Α. response to Questions 4 and 7 of the Application with Mr. Scott Lyssy and Mr. Adam 8 9 Marin, the response to Question 8 with Mr. Lyssy, the response to Question 11 with Mr. Marin, and the response to Question 17 with Mr. Lyssy, Mr. Marin, and Ms. Lisa Meaux. 10 11 Additionally, I sponsor Attachments 4 and 13 to the Application. I also co-sponsor with 12 Mr. Lyssy, Mr. Marin, and Ms. Meaux Section 1 of the Scenic Loop 138 kV Transmission 13 Line and Substation Project Environmental Assessment and Alternative Route Analysis Bexar County, Texas (EA), prepared by POWER Engineers, Inc., which is included as 14 15 Attachment 1 to the Application. Last, I co-sponsor Attachment 2 to the Application with 16 Mr. Marin. Please refer to Exhibit ARM-5 to Mr. Marin's direct testimony for an overview 17 of the sponsorship of the Application in this case.

18

III. <u>PROJECT NEED</u>

19 Q. WHY IS THE PROJECT NEEDED?

A. The Project is needed to address capacity limitations and reliability concerns on CPS
 Energy's distribution system in the northwest region of Bexar County. The Project will
 provide additional electric capacity to support community growth and improve the
 reliability of electric service to greater than 25,000 homes and businesses in the area.
 Electric service to the Project area is currently provided from two existing CPS Energy
 substations—the La Sierra Substation and the Fair Oaks Ranch Substation, which are
 located to the southeast and northeast of the Project area, respectively.

27 <u>Capacity Limitations</u>

The existing CPS Energy electrical infrastructure in the northwest area of Bexar County will be challenged by increasing load along the IH-10 corridor north of Loop 1604. The Scenic Loop Substation is needed to improve the load serving capability in the area. Based

1 on the growth rate experienced by CPS Energy in the area over the last five years and CPS 2 Energy's reasonable projections for load growth in the coming years, informed by the 3 extensive SA Tomorrow Comprehensive Plan (SA Tomorrow) recently undertaken by the 4 City, the Project area will experience significant load growth in the next five, ten, fifteen 5 years and up thru 2040. The geographic area of the City that includes the University of 6 Texas as San Antonio (UTSA) campus is targeted in SA Tomorrow as a regional 7 development center and is one of the fastest growing areas of the City. As a member of the 8 Technical Working Group of SA Tomorrow, I have come to understand that the dynamic 9 growth from UTSA and its associated Main Campus Master Plan will significantly increase 10 the current UTSA and the surrounding community load growth and move the region toward 11 becoming a premier destination to live, work, and play. SA Tomorrow projects additional 12 electrical load growth in the region of approximately 8-9 MW/year. Historic and projected 13 load growth for the area served by the La Sierra and Fair Oaks Ranch substations is 14 presented in Tables 14-1 and 14-2 and Figure 14-3 of the Application.

15 <u>Geographic Limitations</u>

16 As can be seen on Attachment 4 to the Application, the existing substations within the 17 northwest region of Bexar County are in close proximity to each other. The La Sierra, Hill 18 Country, De Zavala, and UTSA substations are all within three miles of each other to the 19 south of the Project area. Similarly, the Stonegate, Panther Springs, and Bulverde 20substations are within three to six miles of each other to the east. The Ranchtown, Helotes, 21 and UTSA substations are all six to eight miles of each other to the south/southwest. As a 22 result of their proximity, the circuits between these stations are not very long and the 23 existing substations can be reliably called upon to back each other up in the event of a 24 transformer outage. In contrast, the La Sierra and Fair Oaks Ranch substations are 25 approximately 11 miles (straight line) apart and many of the circuits served by these 26 substations are significantly longer than the CPS Energy system average.

The average length of CPS Energy's primary overhead distribution circuits (both 35 kV and 13 kV) is 12.8 miles. The average length of the 34.5 kV circuits is approximately 20 miles. The line lengths for the distribution circuits served from the La Sierra and Fair 30 Oaks Ranch substations are two to four times longer than the CPS Energy system average for 34.5 kV circuits (see page 14 of the Application and pages 10-16 of Attachment 13 to
 the Application).

3 Again, referring to Attachment 4 to the Application, the existing Ranchtown, La 4 Sierra, and Fair Oaks Ranch substations are located a significant distance from each other 5 such that the significant load growth of new homes and commercial development to the 6 north, northwest, and west of these existing substations (respectively), is and will be, served 7 by long and increasingly loaded distribution circuits. The new Scenic Loop Substation, 8 geographically central to those existing three substations, will serve a significant portion 9 of that area with shorter, less loaded distribution circuits. Compare for example, the large 10 geographic area served from the La Sierra and Fair Oaks Ranch substations today, as shown 11 in Figure 14-1 of the Application, with the equally divided smaller geographic areas served 12 when the Scenic Loop Substation is constructed in the area proposed for the Project as shown in Figure 14-5 of the Application. 13

Significantly shortening and unloading the circuits served from the existing substations will enhance the load serving capacity in the La Sierra and Fair Oaks Ranch substations and also the overall load serving capability in the region. As I will discuss below, connecting the existing long, low reliability circuits into the new Scenic Loop Substation will reduce the number of customers impacted from outages and improve reliability in the area to closer to the CPS Energy system averages.

20 <u>Reliability</u>

21 Based on historical outage data, the customers served from the La Sierra and Fair Oaks 22 Ranch circuits have experienced approximately 8-10 times more outages compared to the entire CPS Energy system average over the last few years. Whereas the total load served 23 24 from the La Sierra and Fair Oaks Ranch substations represents approximately 3 percent of the total load that CPS Energy serves, the frequency of outages and duration of outages for 25 26 the entire CPS Energy system are notably skewed because of the poor reliability of the 27 area. For example: (1) in 2019, 32 percent of *all* customers affected (known as "CA") by 28 distribution system outages in the CPS Energy system reside in the area served by the La 29 Sierra and Fair Oaks Ranch substations; and (2) in 2017, 20 percent of all the CPS Energy 30 customer minutes of interruptions (known as "CMI") were associated with the customers

served in this area. Between 2010 and 2019, one or more of the La Sierra and Fair Oaks
Ranch circuits were on CPS Energy's poor performing circuits (PPC) list for six different
years, and six of the 11 circuits have been on the list since 2010 (see Table 14-5 in the
Application). Additionally, five circuits from La Sierra and Fair Oaks Ranch were on the
PPC list in 2018, which was the most of any year within the past ten years.

6 Construction of the proposed Scenic Loop Substation will provide CPS Energy 7 with a load serving substation geographically intermediate to the Fair Oaks Ranch and La 8 Sierra substations in a manner that will cut the average length and loading of distribution 9 circuits serving end-use customers by 50 percent or more. The Scenic Loop Substation will 10 significantly improve the reliability in the northwest area of Bexar County and provide 11 CPS Energy with the electric system capacity needed to serve this growing area for many 12 years into the future.

Q. DID CPS ENERGY PREPARE A NEED ASSESSMENT ASSOCIATED WITH THE PROJECT?

A. Yes. CPS Energy worked with electrical planning experts at Burns McDonnell to prepare
 the Scenic Loop Substation Analysis Report, which is included as Attachment 13 to the
 Application. I oversaw preparation of the report and sponsor its inclusion in the
 Application. Details regarding reliability metrics for the area, load growth trends, system
 modeling, and power flow analysis performed by electric planning experts at Burns
 McDonnell and CPS Energy are presented in the report.

Q. DID CPS ENERGY SUBMIT THE PROJECT FOR REVIEW BY THE ELECTRIC RELIABILITY COUNCIL OF TEXAS (ERCOT)?

A. No. As discussed in response to Questions 4 and 15 of the Application, the Project has not
 been submitted to ERCOT for review. The Project is a Tier 4 Neutral project pursuant to
 the classifications established by ERCOT. Accordingly, the Project is not required to be
 submitted to the ERCOT Regional Planning Group for review and comment. Notably,
 however, CPS Energy has concluded that the Project will not result in any violation of

North American Electric Reliability Corporation (NERC) or ERCOT performance
 requirements.

3 4

Q. PLEASE DESCRIBE THE EXISTING ELECTRIC SYSTEM TOPOLOGY IN THE AREA OF THE PROJECT.

5 Α. Figure 15-1 in the Application and Attachment 4 to the Application provide an illustration 6 of the existing transmission system in the area. As can be seen from these figures, the Ranchtown to Menger Creek 138 kV transmission line (to the west), the Fair Oaks to 7 8 Esperanza 138 kV transmission line (to the north), and the La Sierra to UTSA BTAP 138 9 kV transmission line (to the south) are all located several miles from the area where the 10new Scenic Loop Substation is needed. As a result, a new transmission line is needed to 11 connect the Scenic Loop Substation to the existing transmission grid. Because of the 12 shorter distance and lower estimated cost (see Figure 15-2, Table 15-1, and pages 22-25 of 13 the Application), the Project is proposed to connect the Scenic Loop Substation with the 14 existing Ranchtown to Menger Creek 138 kV transmission line to the west.

Q. WHY DOES THE NEW SUBSTATION NEED TO BE LOCATED AT OR NEAR THE INTERSECTION OF SCENIC LOOP ROAD AND TOUTANT BEAUREGARD ROAD?

18 A. As can be seen from Attachment 4 to the Application, the intersection of Scenic Loop Road 19 and Toutant Beauregard Road is nearly equidistant between the Ranchtown, Fair Oaks 20 Ranch, and La Sierra substations. Centering the new substation geographically between 21 those three substations serves several purposes. First, it places the substation as close as 22 possible to the center of the current and forecasted load of this growing service area. The 23 optimal location (at the intersection of Scenic Loop Road and Toutant Beauregard Road) 24 allows CPS Energy to serve the growing area load in all four directions along major 25 existing roadway infrastructure (Scenic Loop Road to the south, Toutant Beauregard to the 26 east and west, and Boerne Stage Road to the north). Second, the major backbone 27 distribution infrastructure to the area is currently at the intersection of Scenic Loop Road and Toutant Beauregard Road. Constructing the substation at or near that location will 28 29 allow CPS Energy to connect to the existing distribution network at the center of the area 30 to be served. Moving the substation significantly any direction will require significant

1 distribution infrastructure to be installed to the area at significant cost to CPS Energy 2 customers and, in some areas, may be physically constrained. The ideal location at the 3 intersection of Scenic Loop Road and Toutant Beauregard Road allows CPS Energy to 4 utilize the ultimate build out of the substation (three transformers) extending 12 circuits 5 from the substation with a maximum of four in each direction along the existing major 6 roadways (two circuits on either side). Third, locating the substation equidistant between 7 the Ranchtown, Fair Oaks Ranch, and La Sierra substations provides the optimal location 8 for the substations to provide back up and support to each other in the event of a transformer 9 outage. In addition, the equidistant configuration of the substations will provide for best 10 longer term development opportunities for the region. Fourth, one of the primary needs of 11 the Scenic Loop Substation is to address the reliability issues CPS Energy has experienced 12 with the long, heavily loaded distribution circuits serving the area. Placing the new 13 substation central to the load minimizes the distance and loading of all of the distribution 14 circuits from all of the area substations.

15 As can be seen from the intervention and participation in this proceeding, 16 constructing a significant transmission line project and load serving substation in a 17 developing suburban area is a significant endeavor. Based on prudent, good utility, long 18 term distribution system planning principles, the optimal location for the new Scenic Loop 19 Substation is at the intersection of Scenic Loop Road and Toutant Beauregard Road (Sites 20 2 and 3). In order to provide the Commission with geographically diverse route 21 alternatives, CPS Energy carefully evaluated alternative substation sites in proximity to the 22 intersection and identified five other sites (Sites 1 and 4-7) that meet the need for the Project 23 in a manner that can reasonably be constructed and operated without significant additional 24 distribution infrastructure construction and expense within constrained corridors. All of the 25 proposed substation locations result in significant shortening of distribution circuits serving 26 the area along diverse corridors. Any substation location further south, west, or north of 27 the proposed substation locations would significantly impact both the short and long-term 28 functionality and reliability of the Scenic Loop Substation and are not reasonable 29 alternatives to the Project need.

1 Q. WHAT ALTERNATIVES TO THE PROJECT DID CPS ENERGY CONSIDER?

- A. CPS Energy considered multiple alternatives to the Project, including transmission,
 distribution, and distributed energy resource solutions. CPS Energy's responses to
 Question 15 of the Application and Section 5 of the *Scenic Loop Substation Analysis Report* describe the options CPS Energy considered as alternatives to the Project. Based on
 the analysis conducted, none of the options considered provide the same reliability,
 capacity, and long term system advantages as the Project at a comparable cost.
- 8 Q. DO ALL OF THE ROUTING OPTIONS PROPOSED IN THE APPLICATION
 9 ADDRESS THE NEED FOR THE PROJECT?
- A. Yes. Any of the 29 routes included in the Application address the need for the Project.
 Likewise, any combination of route segments presented in the Application that connects
 the Ranchtown to Menger Creek transmission line to one of the proposed Scenic Loop
 Substation sites would also address the need for the Project.
- 14 Q. DOES THE PROJECT COMPLY WITH PUC, ERCOT, AND NERC
 15 TRANSMISSION PLANNING REQUIREMENTS?
- A. Yes, the Project complies with all applicable PUC, ERCOT, and NERC transmission
 system planning requirements.
- 18 19

IV. <u>THE PROJECT MEETS THE CRITERIA OF PURA AND OTHER</u> <u>CRITERIA CONSIDERED BY THE COMMISSION</u>

20 Q. PLEASE SUMMARIZE YOUR FINDINGS AND RECOMMENDATIONS IN THIS 21 PROCEEDING.

A. The Project is needed to satisfy reliability and adequacy needs for electric service in accordance with CPS Energy standard planning criteria and good utility practice as well as state and federal electric service reliability standards. The Project is necessary for the service, accommodation, convenience, and safety of the public, and the Project is also the best option to meet the reliability needs when compared to other solutions, including employing distribution facilities.

1 Q. PLEASE SUMMARIZE THE STATE OF SERVICE WITHOUT THE PROJECT.

2 A. Absent the Project, CPS Energy's ability to provide reliable delivery of electricity to the 3 Project area will diminish and limit CPS Energy's ability to provide service to new 4 customers. CPS Energy has taken steps to temporarily improve reliability to the area 5 through distribution circuit reconfiguration and installation of reclosers, but due to the 6 rugged terrain and distance of the load from the existing substations at La Sierra and Fair 7 Oaks Ranch, the new Scenic Loop Substation is necessary to ensure the long term reliability of the local distribution system in accordance with the standards and 8 9 expectations of CPS Energy, its customers, and the Commission. In addition, within the 10 next few years CPS Energy will not have the necessary system capacity to serve the 11 growing load in northwest Bexar County without the new Scenic Loop Substation in 12 service.

13

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14

WILL CONSTRUCTION OF THE PROJECT RESULT IN IMPROVED SERVICE OR LOWER COSTS TO ELECTRIC SERVICE CUSTOMERS?

15 Α. Yes. As described in detail in response to Question 14 of the Application and in Attachment 16 13 to the Application, the Project will result in improved service to CPS Energy's electric 17 service customers in northwest Bexar County. Even with recent system reconfiguration 18 improvements on the existing distribution system immediately prior to the filing of the 19 Application, without a new substation in northwest Bexar County, the CPS Energy 20 customers served from the La Sierra and Fair Oaks Ranch substations will continue to 21 experience significantly lower reliability than CPS Energy's system averages. The Project 22 will also ensure CPS Energy has sufficient capacity to provide service to both new and 23 existing customers throughout northwest Bexar County.

24

Q.

25

WHAT WILL BE THE EFFECT ON CPS ENERGY AND OTHER UTILITIES IN THE AREA IF THE PROJECT IS BUILT?

A. The Project will significantly improve CPS Energy's ability to provide reliable electric
 delivery service in the northwest Bexar County and provide capacity to serve the load
 growth in that area for many years into the future. Because the Project taps into an existing
 CPS Energy transmission line and is proposed to provide service wholly within CPS
 Energy's existing service territory, the Project will not have a negative effect on other

utilities in the area. The other utility connected to the Ranchtown to Menger Creek
transmission line (LCRA Transmission Services Corporation) has coordinated with CPS
Energy on the Project and, other than the identification of protective relay setting changes
at the Menger Creek Substation, has not raised any concerns with the Project (see
Application Attachment 2).

6 Q. IS THE PROJECT NEEDED TO CONNECT A NEW CUSTOMER OR TO 7 IMPROVE WHOLESALE COMPETITION?

A. The Project is needed to address reliability needs of existing and future end-use consumers
based on actual and forecasted electric load and identified system limitations in meeting
this electric load. As a local Tier 4 project in ERCOT, the Project is not anticipated to
notably impact wholesale competition in Texas.

Q. DO THE PROPOSED ROUTING ALTERNATIVES INCLUDED IN THE APPLICATION (INCLUDING THE ENDPOINTS AND THE PROPOSED NEW SUBSTATION LOCATIONS) ADEQUATELY CONSIDER ELECTRICAL EFFICIENCY AND RELIABILITY?

A. Yes, the alternative routes, new substation siting alternatives, and the endpoints associated
with the Project will provide for immediate efficiency and reliability benefits to CPS
Energy and its customers.

19Q.DID CPS ENERGY CONSIDER DISTRIBUTION ALTERNATIVES TO THE20PROJECT?

- A. Yes, CPS Energy considered distribution system improvements to address the electric
 system reliability and capacity needs in the area of the Project. Specifically, Options A, E,
 and F in CPS Energy's response to Question 15 of the Application and in Section 5 of
 Attachment 13 to the Application, are distribution alternatives CPS Energy considered.
- For the reasons discussed in detail in response to Question 15 of the Application and in Section 5 of Attachment 13, CPS Energy concluded that the distribution alternatives considered did not provide the same long term reliability and system capacity improvements as the Project or were significantly more expensive than the Project proposed in the Application.

1Q.DID CPS ENERGY CONSIDER DISTRIBUTED GENERATION AS AN2ALTERNATIVE TO THE PROJECT?

A. Yes. Options C and D discussed in response to Question 15 of the Application and in
Section 5 of Attachment 13 are renewable energy and natural gas fired distributed
generation projects considered by CPS Energy as alternatives to the Project. For the reasons
presented more fully in the Application and Attachment 13, distributed generation does not
provide the same reliability and capacity benefits as the Project at a comparable cost.

8 Q. IS THE PROJECT THE BEST ALTERNATIVE TAKING INTO ACCOUNT 9 CONSIDERATIONS OF EFFICIENCY, RELIABILITY, AND COST BENEFITS?

- A. Yes. After studying the immediate and long-term reliability and capacity needs of the area,
 the Project provides the overall most reliable and most efficient configuration to increase
 the reliability of the existing distribution system now and throughout the timeframe studied.
- Q. IF THE COMMISSION ISSUES A FINAL ORDER GRANTING CPS ENERGY
 AUTHORITY TO AMEND ITS CCN FOR THE PROJECT, ARE YOU
 PRESENTLY AWARE OF ANY CIRCUMSTANCE THAT WOULD WARRANT
 THE EXTENSION OF THE SEVEN-YEAR DEFAULT PERIOD FOR WHICH
 SUCH AUTHORITY WOULD REMAIN IN EFFECT?
- 18 A. No, not at this time.
- 19

V. <u>SUMMARY AND CONCLUSIONS</u>

20 Q. PLEASE SUMMARIZE YOUR CONCLUSIONS REGARDING THE PROJECT.

- A. The purpose and need for the Project has been studied and evaluated extensively by
 transmission and distribution planning professionals at CPS Energy and Burns McDonnell.
 The Project provides the most reliable and most efficient solution to increase the reliability
 and capacity of the distribution system surrounding the Project area when compared to
 other solutions.
- 26 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?
- A. Yes, it does.

Exhibit GJT-1 Page 1 of 2

GEORGE J. TAMEZ, P.E.

Objective

Electric power experience including over 24 years with CPS Energy. My career goal is to continue on a pathway to progressional development consistent with the organizational success of CPS Energy and self development including building relationships, achieving projects and goals and leadership strength.

Jan 2019 to August 2020	CPS Energy	San Antonio, TX
Director – 1.5 years		
	ructure Innovation & Transmission and Distribution P tructure Innovation, Transmission Planning, Distributi	-
Jan 2017 to Dec 2018	CPS Energy	San Antonio, TX
Director – 2 years.		
	nission and Distribution Planning, Asset Management area (Transmission Planning, Distribution Planning, A	
Aug 2011 to Jan 2017	CPS Energy	San Antonio, TX
 Responsible for Distribution Supervise Engineering and GIS Services-succes Aug 2008 to Aug 2011 	area (Overhead, Underground, Network, Standards ar	nd Specifications, Utility Coordinati
Senior Manager – 3 year		
1	action and maintenance activities at Southwest Service erhead, URD, S/M), Civil UED, UG Craft and UG Cr	
· · ·		
May 2005 to Aug 2008	CPS Energy	San Antonio, TX
Senior Manager – 3 year Responsible for constru		San Antonio, TX
Senior Manager – 3 year Responsible for constru	s.	San Antonio, TX
 Senior Manager – 3 year Responsible for construint Supervise Electric (Ov Jan 2003 to May 2005 Manager – 2.5 years. Manager of Overhead 	'S. uction and maintenance activities at Southwest Service erhead, URD, S/M), and Cıvıl UED groups CPS Energy	San Antonio, TX e District. San Antonio, TX
 Senior Manager – 3 year Responsible for construint Supervise Electric (Ov Jan 2003 to May 2005 Manager – 2.5 years. Manager of Overhead 	'S. action and maintenance activities at Southwest Service erhead, URD, S/M), and Cıvıl UED groups CPS Energy Engineering Section.	San Antonio, TX e District. San Antonio, TX
 Senior Manager – 3 year Responsible for construint Supervise Electric (Overhead) Jan 2003 to May 2005 Manager – 2.5 years. Manager of Overhead Responsible for engine Aug 2002 to Jan 2003 Senior Engineer – 0.5 years Supervisor of Overhead 	rs. action and maintenance activities at Southwest Service erhead, URD, S/M), and Cıvıl UED groups CPS Energy Engineering Section. ering, planning of system & civic improvement, main CPS Energy ears.	San Antonio, TX e District. San Antonio, TX tenance and comm. jobs. San Antonio, TX
 Senior Manager – 3 year Responsible for construint Supervise Electric (Overhead) Jan 2003 to May 2005 Manager – 2.5 years. Manager of Overhead Responsible for engine Aug 2002 to Jan 2003 Senior Engineer – 0.5 years Supervisor of Overhead 	rs. action and maintenance activities at Southwest Service erhead, URD, S/M), and Cıvıl UED groups CPS Energy Engineering Section. ering, planning of system & civic improvement, main CPS Energy ears. d Engineering Section.	San Antonio, TX e District. San Antonio, TX tenance and comm. jobs. San Antonio, TX

Exhibit GJT-1 Page 2 of 2

Sept 1996 to Sept 1999	CPS Energy	San Antonio, TX
Junior Engineer – 3 year	·S.	I
 Underground Engineer 	ing Engineer planning and coordinating electric jobs.	
 Standard and Specifica 	tions Engineer creating and revising specs, CU's and material	description
May 1993 to Sept 1996	Industry Work Experience	Various
Energy Manager & Supp	ort – 3 years	I
	e energy management project such as lighting retrofits, air con- ystems and conducting energy audits. Assist in data and analyst	
Assistant to Energ	y Manager, Univ. of Texas – Medical Branch	Galveston, TX
Energy Manage	Brownsville, TX	
Education	Texas A&M University	College Station, TX
Bachelor of Science in E	lectrical Engineering – May 1993	I
Power Systems empha(additional 12 hours at	sis with a Minor in Math; UTSA on MBA)	
Certification		
June 2002, Professional Engineer License in Texas	Texas P. E certification	San Antonio, TX