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UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

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LSPG-NY GRID NEW YORK CORPORATION I Docket No. ER20-___-000

DIRECT TESTIMONY OF DANE A. WATSON, PE, CDP

ON BEHALF OF LS POWER GRID NEW YORK CORPORATION I

November 14, 2019

INDEX TO THE DIRECT TESTIMONY OF

DANE A. WATSON, WITNESS FOR

LS POWER GRID NEW YORK CORPORATION I

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LIST OF EXHIBITS

EXHIBIT DAW-1	Prior testimony before regulatory commissions
EXHIBIT DAW-2	Depreciation Study for Cross Texas Transmission, LLC approved
	in PUC Texas Docket 43950
EXHIBIT DAW-3	Calculation of Account 357 and 358 Depreciation Rates

EXECUTIVE SUMMARY OF DANE A. WATSON

I have conducted a depreciation study for transmission assets of LS Power Grid New York Corporation I ("LSPG-NY" or "The Company"). This project is not yet in service, but depreciation rates will be needed once the transmission assets are energized. This project includes building approximately 100 miles of double-circuit 345 kV transmission lines in existing rights-of-way, one new 345 kV switching station and one new 345 kV substations in upstate New York. Portions of the Project will be owned by NYPA and portions will be owned by LSPG-NY, and my study applies to the LSPG-NY portions of the Project. Since this study is for assets that are not yet in service and no historical transactional data is available, a traditional depreciation study approach for life and net salvage which analyzes historical life and net salvage characteristics was not possible. LSPG-NY is seeking approval to adopt the life, net salvage percentages, and resulting depreciation rates of its Texas affiliate, Cross Texas Transmission, LLC ("Cross Texas" or "CTT") approved by the Public Utility Commission of Texas ("PUCT") in Docket No. 43950 and accepted by FERC for other affiliates.¹ Cross Texas is a transmission service provider that has developed and placed in service over 320 miles of mostly double-circuit 345 kV transmission lines and several substations in northeast Texas. The above ground transmission assets and resulting life characteristics for the two affiliates are similar. Exhibit DAW-2 includes the depreciation study completed for Cross Texas, related exhibits, and filed testimony approved in Docket 43950.

The life parameters and rates approved in PUCT Docket 43950 were also accepted in FERC Docket ER16-453-000.

CTT has no underground transmission assets, but LSPG-NY may have underground transmission facilities in the event it is required to place facilities underground in its permitting process. Therefore, LSPG-NY is requesting approval of depreciation rates for Account 357 – Underground Conduit and Account 358 – Underground Conductor and Devices. Exhibit DAW-3 shows the calculations for my recommended rates for these accounts. Additionally, LSPG-NY intends to compute a weighted average life for any contribution in aid of construction ("CIAC") received based on the life parameters of the underlying assets and related plant accounts.

1		DIRECT TESTIMONY OF DANE A. WATSON
2		I. <u>POSITION AND QUALIFICATIONS</u>
3	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS AND POSITION.
4	А.	My name is Dane A. Watson. My business address is 101 E. Park Blvd, Suite
5		220, Plano, Texas 75074. I am a Partner in Alliance Consulting Group
6		("Alliance"). Alliance provides consulting and expert services to the utility
7		industry.
8	Q.	ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS PROCEEDING?
9	A.	I am filing testimony on behalf of LS Power Grid New York, LLC ("LSPG-NY"
10		or the "Company").
11	Q.	PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND?
12	A.	I hold a Bachelor of Science degree in Electrical Engineering from the University
13		of Arkansas at Fayetteville and a Master's Degree in Business Administration
14		from Amberton University.
15 16	Q.	DO YOU HOLD ANY SPECIAL CERTIFICATION AS A DEPRECIATION EXPERT?
17	A.	Yes. The Society of Depreciation Professionals ("the Society") has established
18		national standards for depreciation professionals. The Society administers an
19		examination and has certain required qualifications to become certified in this
20		field. I have met all requirements and am a Certified Depreciation Professional.
21 22	Q.	PLEASE OUTLINE YOUR EXPERIENCE IN THE FIELD OF DEPRECIATION.
23	А.	Since graduating from college in 1985, I have worked in the area of depreciation
24		and valuation. I founded Alliance Consulting Group in 2004 and am responsible
25		for conducting depreciation, valuation, and certain other accounting-related

studies for utilities in various regulated industries. My duties related to
 depreciation studies include the assembly and analysis of historical and simulated
 data, conducting field reviews, determining service life and net salvage estimates,
 calculating annual depreciation, presenting recommended depreciation rates to
 utility management for consideration, and supporting such rates before regulatory
 bodies.

My prior employment from 1985 to 2004 was with Texas Utilities ("TXU"). During my tenure with TXU, I was responsible for, among other things, conducting valuation and depreciation studies for the domestic TXU companies. During that time, I also served as Manager of Property Accounting Services and Records Management in addition to my depreciation responsibilities.

12Q.PLEASE DESCRIBE YOUR INVOLVEMENT WITH ANY13PROFESSIONAL SOCIETIES OR COMMITTEES.

14 A. I have twice been Chair of the Edison Electric Institute ("EEI") Property 15 Accounting and Valuation Committee and have been Chairman of EEI's 16 Depreciation and Economic Issues Subcommittee. I was the Industry Project 17 Manager for the EEI/AGA effort around the electric and gas industry adoption of 18 Federal Accounting Standard ("FAS") 143 and testified before the Federal Energy 19 Regulatory Commission ("FERC") in the hearings leading up to the release of 20 FERC Order 631. I am a Registered Professional Engineer ("PE") in the State of 21 Texas and a Certified Depreciation Professional. I am a Senior Member of the 22 Institute of Electrical and Electronics Engineers ("IEEE") and have held 23 numerous office on the Executive Board of the Dallas Section of IEEE as well as 24 national and world-wide IEEE offices. I have served twice as Past President of

1		the Society of Depreciation Professionals. I teach depreciation in many industry
2		venues: The Society of Depreciation Professionals, Michigan State University,
3		and AGA/EEI, among others.
4 5	Q.	HAVE YOU PREVIOUSLY TESTIFIED BEFORE ANY REGULATORY COMMISSIONS?
6	А.	Yes. In my 34-year career, I have testified in more than 190 proceedings before
7		more than 35 regulatory commissions across the United States. A listing of the
8		various proceedings in which I have appeared is provided in Exhibit DAW-1. I
9		have performed nearly 20 depreciation studies that have been presented to the
10		Federal Energy Regulatory Commission ("FERC"). I also appeared in FERC
11		Docket No. RM02-7-000 as an industry panelist on asset retirement obligations.
12		II. <u>PURPOSE AND SUMMARY OF DIRECT TESTIMONY</u>
13 14	Q.	WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY IN THIS PROCEEDING?
15	A.	In this case, LSPG-NY is requesting that the depreciation rates approved for
16		Cross Texas by the Public Utility Commission of Texas ("PUCT") in Docket No.
17		43950 be applied to new transmission assets being constructed by the Company.
18		In addition, LSPG-NY is requesting approval of depreciation rates for Account
19		357 – Underground Conduit and Account 358 – Underground Conductor and
		557 Challestound Conduit and Recount 556 Challestound Conductor and
20		Devices for which depreciation rates were not determined in Docket No. 43950.

23 A. Yes. I sponsor the exhibits listed in the Table of Contents.

1Q.WERE THESE EXHIBITS PREPARED BY YOU OR UNDER YOUR2DIRECT SUPERVISION?

3 A. Yes.

4 Q. PLEASE DESCRIBE THE LIFE, NET SALVAGE PERCENTAGES, AND 5 DEPRECIATION RATES THAT LSPG-NY IS REQUESTING IN THIS 6 CASE.

- A. The following table summarizes life and net salvage parameters and resulting
 depreciation rates approved by the PUCT in Docket No. 43950 that LSPG-NY is
 requesting:
 - Table 1

Approved Depreciation Rates and Parameters

12

10

11

PUCT Docket No. 43950

			Net	Proposed
		Average	Salvage	Accrual
Account	Description	Life	%	Rate
301	Organization	54.15	0%	1.85%
302	Franchises and Consents	54.15	0%	1.85%
303	Computer Software	15.00	0%	6.67%
350.1	Fee Land	NA		
350.2	Land Rights	70.00	0%	1.43%
352	Structures and Improvements	37.64	-6%	2.82%
353	Station Equipment	40.51	-9%	2.69%
354	Towers and Fixtures	70.00	-17%	1.67%
355	Poles and Fixtures	60.00	-37%	2.28%
356	OH Conductors and Devices	49.06	-28%	2.61%
359	Roads and Trails	70.00	0%	1.43%
382	Computer Hardware	8.00	0%	12.50%
383	Computer Software	10.00	0%	10.00%
384	Communication Equipment	4.00	0%	25.00%
391	Office Furniture and Equipment	8.00	0%	12.50%
391.1	Computer Hardware	8.00	0%	12.50%
392	Transportation Equipment	8.00	20%	10.00%
393	Stores Equipment	8.00	0%	12.50%
397	Communication Equipment	0.00	0%	25.00%

1Q.ARE THE CROSS TEXAS DEPRECIATION RATES REASONABLE AND2APPROPRIATE FOR LSPG-NY?

3 Yes. The Cross Texas facilities that were the subject of the Texas depreciation A. 4 study are a reasonable proxy for the transmission facilities that LSPG-NY is 5 constructing in the Project. The high-voltage transmission line facilities in both 6 cases are predominantly double-circuit 345 kV overhead transmission lines. The 7 terminal facilities in both cases are 345 kV switching stations and substations. 8 The employees of LS Power Development, LLC ("LSP Development") who 9 assisted Cross Texas in the development of the Texas project also assist LSPG-10 NY with the Project. These employees are familiar with the construction 11 practices, operation and maintenance practices, and accounting practices of Cross 12 Texas and believe that these factors will be reasonably parallel between the two 13 projects. For these reasons, the Cross Texas depreciation parameters (life and net 14 salvage) and resulting depreciation rates approved by the PUCT provide a 15 reasonable proxy for the LSPG-NY depreciation rates associated with the 16 facilities that LSPG-NY is constructing.

17 Q. ARE YOU FAMILIAR WITH THE DEPRECIATION STUDY 18 PERFORMED FOR CROSS TEXAS?

A. Yes. I performed the depreciation studies for Cross Texas, and I reviewed that
 referenced study in advance of filing this testimony. The study is attached to my
 testimony as Exhibit DAW-2.

22 Q. ARE THERE ADDITIONAL LIFE PARAMETERS AND DEPRECIATION 23 RATES BEING REQUESTED BY LSPG-NY IN THIS CASE?

- 24 A. Yes. LSPG-NY is requesting average service lives, net salvage percentages, and
- 25 depreciation rates for Account 357 Underground Conduit and Account 358 –

1 Underground Conductor and Devices. Additionally, LSPG-NY intends to 2 depreciate any contribution in aid of construction (CIAC) received using a 3 weighted average based on the life parameters for the underlying assets and related plant accounts. Since CTT does not have underground assets, Docket No. 4 5 43950 did not include these accounts. LSPG-NY's original plans do not include 6 any underground facilities, but LSPG-NY may be required to install some 7 facilities underground in its permitting. Below is a table of the life and net 8 salvage parameters and resulting depreciation rates being requested for these 9 additional accounts. A detailed calculation of the average life, net salvage and 10 annual depreciation rate for Accounts 357 and 358 is shown in Exhibit DAW-3.

11

Table 2

12 Proposed Depreciation Rates and Parameters Account 357 and 358

			Average	Net Salvage	Proposed Accrual
	Account	Description	Life	%	Rate
	357	Underground Conduit	54	-7%	1.98%
	358	Underground Conductor and Devices	47	-8%	2.30%
13					

14Q.WHAT IS THE BASIS FOR LSPG-NY'S DEPRECIATION RATES15APPLICABLE TO ACCOUNT 357 AND ACCOUNT 358?

A. As discussed above, since Cross Texas did not have underground assets, none of the
 approved Cross Texas depreciation rates would specifically apply to the underground
 asset categories that are being constructed by LSPG-NY. In the absence of approved
 underground asset depreciation rates of an affiliated company from which LSPG-NY
 can use as a proxy, I recommend that the Company use representative depreciation
 rates for Account 357 and Account 358 developed from industry averages until such

1	time as LSPG-NY's own historical data is sufficient to analyze their characteristics.
2	To develop these rates, I tabulated from FERC Form No. 1 filings for year 2018, page
3	336, the 49 companies for Account 357 and the 57 companies for Account 358 that
4	list depreciation parameters for these accounts. With respect to the average service
5	life of assets booked to Account 357, I calculated the industry average life is
6	approximately 54 years. The net salvage percentage for Account 357 for the industry
7	group was approximately negative 7%. These two figures allowed me to calculate a
8	representative depreciation rate for Account 357 of 1.98%. The same analysis was
9	used for Account 358, resulting in an average service life of 47 years and net salvage
10	percentage of negative 8%. These two figures allowed me to calculate a
11	representative depreciation rate for Account 358 of 2.30%. Exhibit DAW-3 is
12	attached to my testimony and lists the details related to these calculations.

13

III. <u>CONCLUSION</u>

14 Q. MR. WATSON, DO YOU HAVE ANY CONCLUDING REMARKS?

A. Yes. The deprecation rates that I recommend for LS Power Grid New York,
Corporation I, fully support setting depreciation rates at the levels I have indicated
in my testimony. The Company's depreciation rates should be set at my
recommended levels in order to recover the Company's total investment in
property over the estimated service lives of the assets.

20 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

A. Yes, it does.

Asset Location	Commission	Docket (If Applicable	Company	Year	Description
Texas, New Mexico	Federal Energy Regulatory Commission	ER20-277-000	Southwestern Public Service Company	2019	Electric Production and General Plant Depreciation Study
Alaska	Regulatory Commission of Alaska	U-19-086	Alaska Electric Light and Power	2019	Electric Depreciation Study
Various	Federal Energy Regulatory Commission	ER20-5-000	ITC Midwest LLC	2019	Electric Transmission Depreciation Study
Various	Federal Energy Regulatory Commission	ER20-4-000	International Transmission Co.	2019	Electric Transmission Depreciation Study
Various	Federal Energy Regulatory Commission	ER20-3-000	ITC Michigan Electric Transmission Co	2019	Electric Transmission Depreciation Study
Delaware	Delaware Public Service Commission	19-0615	Suez Water Delaware	2019	Water Depreciation Study
Texas	Public Utility Commission of Texas	49831	Southwestern Public Service Company	2019	Electric Depreciation Study
New Mexico	New Mexico Public Regulation Commission	19-00170-UT	Southwestern Public Service Company	2019	Electric Depreciation Study
Georgia	Georgia Public Service Commission	42516	Georgia Power Company	2019	Electric Depreciation Study
Georgia	Georgia Public Service Commission	42315	Atlanta Gas Light	2019	Gas Depreciation Study
Arizona	Arizona Corporation Commission	G-01551A-19- 0055	Southwest Gas Corporation	2019	Gas Removal Cost Study
New Hampshire	New Hampshire Public Service Commission	DE 19-064	Liberty Utilities	2019	Electric Distribution and General

Asset Location	Commission	Docket (If Applicable	Company	Year	Description
New Jersey	New Jersey Board of Public Utilities	GR19040486	Elizabethtown Natural Gas	2019	Gas Depreciation Study
Texas	Public Utility Commission of Texas	49421	CenterPoint Houston Electric LLC	2019	Electric Depreciation Study
North Carolina	North Carolina Utilities Commission	Docket No. G-9, Sub 743	Piedmont Natural Gas	2019	Gas Depreciation Study
Alaska	Regulatory Commission of Alaska	U-18-121	Municipal Power and Light City of Anchorage	2018	Electric Depreciation Study
Various	FERC	RP19-352-000	Sea Robin	2018	Gas Depreciation Study
Texas New Mexico	Federal Energy Regulatory Commission	ER19-404-000	Southwestern Public Service Company	2018	Electric Transmission Depreciation Study
California	Federal Energy Regulatory Commission	ER19-221-000	San Diego Gas and Electric	2018	Electric Transmission Depreciation Study
Kentucky	Kentucky Public Service Commission	2018-00281	Atmos Kentucky	2018	Gas Depreciation Study
Alaska	Regulatory Commission of Alaska	U-18-054	Matanuska Electric Coop	2018	Electric Generation Depreciation Study
California	California Public Utilities Commission	A17-10-007	San Diego Gas and Electric	2018	Electric and Gas Depreciation Study
Texas	Public Utility Commission of Texas	48401	Texas New Mexico Power	2018	Electric Depreciation Study
Nevada	Public Utility Commission of Nevada	18-05031	Southwest Gas	2018	Gas Depreciation Study
Texas	Public Utility Commission of Texas	48231	Oncor Electric Delivery	2018	Depreciation Rates

Asset Location	Commission	Docket (If Applicable	Company	Year	Description
Texas	Public Utility Commission of Texas	48371	Entergy Texas	2018	Electric Depreciation Study
Kansas	Kansas Corporation Commission	18-KCPE-480- RTS	Kansas City Power and Light	2018	Electric Depreciation Study
Arkansas	Arkansas Public Service Commission	18-027-U	Liberty Pine Bluff Water	2018	Water Depreciation Study
Kentucky	Kentucky Public Service Commission	2017-00349	Atmos KY	2018	Gas Depreciation Rates
Tennessee	Tennessee Public Utility Commission	18-00017	Chattanooga Gas	2018	Gas Depreciation Study
Texas	Railroad Commission of Texas	10679	Si Energy	2018	Gas Depreciation Study
Alaska	Regulatory Commission of Alaska	U-17-104	Anchorage Water and Wastewater	2017	Water and Waste Water Depreciation Study
Michigan	Michigan Public Service Commission	U-18488	Michigan Gas Utilities Corporation	2017	Gas Depreciation Study
Texas	Railroad Commission of Texas	10669	CenterPoint South Texas	2017	Gas Depreciation Study
Arkansas	Arkansas Public Service Commission	17-061-U	Empire District Electric Company	2017	Depreciation Rates for New Wind Generation
Kansas	Kansas Corporation Commission	18-EPDE-184- PRE	Empire District Electric Company	2017	Depreciation Rates for New Wind Generation
Oklahoma	Oklahoma Corporation Commission	PUD 201700471	Empire District Electric Company	2017	Depreciation Rates for New Wind Generation
Missouri	Missouri Public Service Commission	EO-2018-0092	Empire District Electric Company	2017	Depreciation Rates for New Wind Generation

Asset Location	Commission	Docket (If Applicable	Company	Year	Description
Michigan	Michigan Public Service Commission	U-18457	Upper Peninsula Power Company	2017	Electric Depreciation Study
Florida	Florida Public Service Commission	20170179-GU	Florida City Gas	2017	Gas Depreciation Study
Michigan	FERC	ER18-56-000	Consumers Energy	2017	Electric Depreciation Study
Missouri	Missouri Public Service Commission	GR-2018-0013	Liberty Utilities	2017	Gas Depreciation Study
Michigan	Michigan Public Service Commission	U-18452	SEMCO	2017	Gas Depreciation Study
Texas	Public Utility Commission of Texas	47527	Southwestern Public Service Company	2017	Electric Production Depreciation Study
MultiState	FERC	ER17-1664	American Transmission Company	2017	Electric Depreciation Study
Alaska	Regulatory Commission of Alaska	U-17-008	Municipal Power and Light City of Anchorage	2017	Generating Unit Depreciation Study
Mississippi	Mississippi Public Service Commission	2017-UN-041	Atmos Energy	2017	Gas Depreciation Study
Texas	Public Utility Commission of Texas	46957	Oncor Electric Delivery	2017	Electric Depreciation Study
Oklahoma	Oklahoma Corporation Commission	PUD 201700078	CenterPoint Oklahoma	2017	Gas Depreciation Study
New York	FERC	ER17-1010-000	New York Power Authority	2017	Electric Depreciation Study
Texas	Railroad Commission of Texas	GUD 10580	Atmos Pipeline Texas	2017	Gas Depreciation Study

Asset Location	Commission	Docket (If Applicable	Company	Year	Description
Texas	Railroad Commission of Texas	GUD 10567	CenterPoint Texas	2016	Gas Depreciation Study
MultiState	FERC	ER17-191-000	American Transmission Company	2016	Electric Depreciation Study
New Jersey	New Jersey Board of Public Utilities	GR16090826	Elizabethtown Natural Gas	2016	Gas Depreciation Study
North Carolina	North Carolina Utilities Commission	Docket G-9 Sub 77H	Piedmont Natural Gas	2016	Gas Depreciation Study
Michigan	Michigan Public Service Commission	U-18195	Consumers Energy/DTE Electric	2016	Ludington Pumped Storage Depreciation Study
Alabama	FERC	ER16-2313-000	SEGCO	2016	Electric Depreciation Study
Alabama	FERC	ER16-2312-000	Alabama Power Company	2016	Electric Depreciation Study
Michigan	Michigan Public Service Commission	U-18127	Consumers Energy	2016	Natural Gas Depreciation Study
Mississippi	Mississippi Public Service Commission	2016 UN 267	Willmut Natural Gas	2016	Natural Gas Depreciation Study
Iowa	Iowa Utilities Board	RPU-2016-0003	Liberty-Iowa	2016	Natural Gas Depreciation Study
Illinois	Illinois Commerce Commission	GRM #16-208	Liberty-Illinois	2016	Natural Gas Depreciation Study
Kentucky	FERC	RP16-097-000	КОТ	2016	Natural Gas Depreciation Study
Alaska	Regulatory Commission of Alaska	U-16-067	Alaska Electric Light and Power	2016	Generating Unit Depreciation Study
Florida	Florida Public Service Commission	160170-EI	Gulf Power	2016	Electric Depreciation Study

Asset Location	Commission	Docket (If ApplicableCompanyYear		Docket (If Applicable Company		Year	Description
California	California Public Utilities Commission	A 16-07-002	California American Water	2016	Water and Waste Water Depreciation Study		
Arizona	Arizona Corporation Commission	G-01551A-16- 0107	Southwest Gas	2016	Gas Depreciation Study		
Texas	Public Utility Commission of Texas	45414	Sharyland	2016	Electric Depreciation Study		
Colorado	Colorado Public Utilities Commission	16A-0231E	Public Service Company of Colorado	2016	Electric Depreciation Study		
Multi-State NE US	FERC	16-453-000	Northeast Transmission Development, LLC	2015	Electric Depreciation Study		
Arkansas	Arkansas Public Service Commission	15-098-U	CenterPoint Arkansas	2015	Gas Depreciation Study and Cost of Removal Study		
New Mexico	New Mexico Public Regulation Commission	15-00296-UT	Southwestern Public Service Company	2015	Electric Depreciation Study		
Atmos Energy Corporation	Tennessee Regulatory Authority	14-00146	Atmos Tennessee	2015	Natural Gas Depreciation Study		
New Mexico	New Mexico Public Regulation Commission	15-00261-UT	I-UT Public Service Company of New 20 Mexico	2015	Electric Depreciation Study		
Hawaii	NA	NA	Hawaii American Water	2015	Water/Wastewater Depreciation Study		
Kansas	Kansas Corporation Commission	16-ATMG-079- RTS	Atmos Kansas	2015	Gas Depreciation Study		
Texas	Public Utility Commission of Texas	44704	Entergy Texas	2015	Electric Depreciation Study		
Alaska	Regulatory Commission of Alaska	U-15-089	Fairbanks Water and Wastewater	2015	Water and Waste Water Depreciation Study		

Asset Location	Commission	Docket (If Applicable	Company	Year	Description
Arkansas	Arkansas Public Service Commission	15-031-U	Source Gas Arkansas	2015	Underground Storage Gas Depreciation Study
New Mexico	New Mexico Public Regulation Commission	15-00139-UT	Southwestern Public Service Company	2015	Electric Depreciation Study
Texas	Public Utility Commission of Texas	44746	Wind Energy Transmission Texas	2015	Electric Depreciation Study
Colorado	Colorado Public Utilities Commission	15-AL-0299G	Atmos Colorado	2015	Gas Depreciation Study
Arkansas	Arkansas Public Service Commission	15-011-U	Source Gas Arkansas	2015	Gas Depreciation Study
Texas	Railroad Commission of Texas	GUD 10432	CenterPoint- Texas Coast Division	2015	Gas Depreciation Study
Kansas	Kansas Corporation Commission	15-KCPE-116- RTS	Kansas City Power and Light	2015	Electric Depreciation Study
Alaska	Regulatory Commission of Alaska	U-14-120	Alaska Electric Light and Power	2014- 2015	Electric Depreciation Study
Texas	Public Utility Commission of Texas	43950	Cross Texas Transmission	2014	Electric Depreciation Study
New Mexico	New Mexico Public Regulation Commission	14-00332-UT	Public Service of New Mexico	2014	Electric Depreciation Study
Texas	Public Utility Commission of Texas	43695	Xcel Energy	2014	Electric Depreciation Study
Multi State – SE US	FERC	RP15-101	Florida Gas Transmission	2014	Gas Transmission Depreciation Study
California	California Public Utilities Commission	A.14-07-006	Golden State Water	2014	Water and Waste Water Depreciation Study

Asset Location	Commission	Docket (If Applicable	Company	Year	Description
Michigan	Michigan Public Service Commission	U-17653	Consumers Energy Company	2014	Electric and Common Depreciation Study
Colorado	Public Utilities Commission of Colorado	14AL-0660E	Public Service of Colorado	2014	Electric Depreciation Study
Wisconsin	Wisconsin	05-DU-102	WE Energies	2014	Electric, Gas, Steam and Common Depreciation Studies
Texas	Public Utility Commission of Texas	42469	Lone Star Transmission	2014	Electric Depreciation Study
Nebraska	Nebraska Public Service Commission	NG-0079	Source Gas Nebraska	2014	Gas Depreciation Study
Alaska	Regulatory Commission of Alaska	U-14-055	TDX North Slope Generating	2014	Electric Depreciation Study
Alaska	Regulatory Commission of Alaska	U-14-054	Sand Point Generating LLC	2014	Electric Depreciation Study
Alaska	Regulatory Commission of Alaska	U-14-045	Matanuska Electric Coop	2014	Electric Generation Depreciation Study
Texas, New Mexico	Public Utility Commission of Texas	42004	Southwestern Public Service Company	2013- 2014	Electric Production, Transmission, Distribution and General Plant Depreciation Study
New Jersey	New Jersey Board of Public Utilities	GR13111137	South Jersey Gas	2013	Gas Depreciation Study
Various	FERC	RP14-247-000	Sea Robin	2013	Gas Depreciation Study
Arkansas	Arkansas Public Service Commission	13-078-U	Arkansas Oklahoma Gas	2013	Gas Depreciation Study

Asset Location	Commission	Docket (If Applicable	Company	Year	Description
Arkansas	Arkansas Public Service Commission	13-079-U	Source Gas Arkansas	2013	Gas Depreciation Study
California	California Public Utilities Commission	Proceeding No.: A.13-11-003	Southern California Edison	2013	Electric Depreciation Study
North Carolina/South Carolina	FERC	ER13-1313	Progress Energy Carolina	2013	Electric Depreciation Study
Wisconsin	Public Service Commission of Wisconsin	4220-DU-108	Northern States Power Company - Wisconsin	2013	Electric, Gas and Common Transmission, Distribution and General
Texas	Public Utility Commission of Texas	41474	Sharyland	2013	Electric Depreciation Study
Kentucky	Kentucky Public Service Commission	2013-00148	Atmos Energy Corporation	2013	Gas Depreciation Study
Minnesota	Minnesota Public Utilities Commission	13-252	Allete Minnesota Power	2013	Electric Depreciation Study
New Hampshire	New Hampshire Public Service Commission	DE 13-063	Liberty Utilities	2013	Electric Distribution and General
Texas	Railroad Commission of Texas	10235	West Texas Gas	2013	Gas Depreciation Study
Alaska	Regulatory Commission of Alaska	U-12-154	Alaska Telephone Company	2012	Telecommunications Utility
New Mexico	New Mexico Public Regulation Commission	12-00350-UT	Southwestern Public Service Company	2012	Electric Depreciation Study
Colorado	Colorado Public Utilities Commission	12AL-1269ST	Public Service Company of Colorado	2012	Gas and Steam Depreciation Study
Colorado	Colorado Public Utilities Commission	12AL-1268G	Public Service Company of Colorado	2012	Gas and Steam Depreciation Study
Alaska	Regulatory Commission of Alaska	U-12-149	Municipal Power and Light City of Anchorage	2012	Electric Depreciation Study

Asset Location	Commission	Docket (If Applicable	Company	Year	Description
Texas	Texas Public Utility Commission	40824	Xcel Energy	2012	Electric Depreciation Study
South Carolina	Public Service Commission of South Carolina	Docket 2012-384- E	Progress Energy Carolina	2012	Electric Depreciation Study
Alaska	Regulatory Commission of Alaska	U-12-141	Interior Telephone Company	2012	Telecommunications Utility
Michigan	Michigan Public Service Commission	U-17104	Michigan Gas Utilities Corporation	2012	Gas Depreciation Study
North Carolina	North Carolina Utilities Commission	E-2 Sub 1025	Progress Energy Carolina	2012	Electric Depreciation Study
Texas	Texas Public Utility Commission	40606	Wind Energy Transmission Texas	2012	Electric Depreciation Study
Texas	Texas Public Utility Commission	40604	Cross Texas Transmission	2012	Electric Depreciation Study
Minnesota	Minnesota Public Utilities Commission	12-858	Northern States Power Company - Minnesota	2012	Electric, Gas and Common Transmission, Distribution and General
Texas	Railroad Commission of Texas	10170	Atmos Mid-Tex	2012	Gas Depreciation Study
Texas	Railroad Commission of Texas	10174	Atmos West Texas	2012	Gas Depreciation Study
Texas	Railroad Commission of Texas	10182	CenterPoint Beaumont/ East Texas	2012	Gas Depreciation Study
Kansas	Kansas Corporation Commission	12-KCPE-764- RTS	Kansas City Power and Light	2012	Electric Depreciation Study
Nevada	Public Utility Commission of Nevada	12-04005	Southwest Gas	2012	Gas Depreciation Study

Asset Location	Commission	Docket (If Applicable	Company	Year	Description
Texas	Railroad Commission of Texas	10147, 10170	Atmos Mid-Tex	2012	Gas Depreciation Study
Kansas	Kansas Corporation Commission	12-ATMG-564- RTS	Atmos Kansas	2012	Gas Depreciation Study
Texas	Texas Public Utility Commission	40020	Lone Star Transmission	2012	Electric Depreciation Study
Michigan	Michigan Public Service Commission	U-16938	Consumers Energy Company	2011	Gas Depreciation Study
Colorado	Public Utilities Commission of Colorado	11AL-947E	Public Service of Colorado	2011	Electric Depreciation Study
Texas	Texas Public Utility Commission	39896	Entergy Texas	2011	Electric Depreciation Study
MultiState	FERC	ER12-212	American Transmission Company	2011	Electric Depreciation Study
California	California Public Utilities Commission	A1011015	Southern California Edison	2011	Electric Depreciation Study
Mississippi	Mississippi Public Service Commission	2011-UN-184	Atmos Energy	2011	Gas Depreciation Study
Michigan	Michigan Public Service Commission	U-16536	Consumers Energy Company	2011	Wind Depreciation Rate Study
Texas	Public Utility Commission of Texas	38929	Oncor	2011	Electric Depreciation Study
Texas	Railroad Commission of Texas	10038	CenterPoint South TX	2010	Gas Depreciation Study
Alaska	Regulatory Commission of Alaska	U-10-070	Inside Passage Electric Cooperative	2010	Electric Depreciation Study
Texas	Public Utility Commission of Texas	36633	City Public Service of San Antonio	2010	Electric Depreciation Study
Texas	Texas Railroad Commission	10000	Atmos Pipeline Texas	2010	Gas Depreciation Study
Multi State – SE US	FERC	RP10-21-000	Florida Gas Transmission	2010	Gas Depreciation Study
Maine/ New Hampshire	FERC	10-896	Granite State Gas Transmission	2010	Gas Depreciation Study

Asset Location	Commission	Docket (If Applicable	Company	Year	Description
Texas	Public Utility Commission of Texas	38480	Texas New Mexico Power	2010	Electric Depreciation Study
Texas	Public Utility Commission of Texas	38339	CenterPoint Electric	2010	Electric Depreciation Study
Texas	Texas Railroad Commission	10041	Atmos Amarillo	2010	Gas Depreciation Study
Georgia	Georgia Public Service Commission	31647	Atlanta Gas Light	2010	Gas Depreciation Study
Texas	Public Utility Commission of Texas	38147	Southwestern Public Service	2010	Electric Technical Update
Alaska	Regulatory Commission of Alaska	U-09-015	Alaska Electric Light and Power	2009- 2010	Electric Depreciation Study
Alaska	Regulatory Commission of Alaska	U-10-043	Utility Services of Alaska	2009- 2010	Water Depreciation Study
Michigan	Michigan Public Service Commission	U-16055	Consumers Energy/DTE Energy	2009- 2010	Ludington Pumped Storage Depreciation Study
Michigan	Michigan Public Service Commission	U-16054	Consumers Energy	2009- 2010	Electric Depreciation Study
Michigan	Michigan Public Service Commission	U-15963	Michigan Gas Utilities Corporation	2009	Gas Depreciation Study
Michigan	Michigan Public Service Commission	U-15989	Upper Peninsula Power Company	2009	Electric Depreciation Study
Texas	Railroad Commission of Texas	9869	Atmos Energy	2009	Shared Services Depreciation Study
Mississippi	Mississippi Public Service Commission	09-UN-334	CenterPoint Energy Mississippi	2009	Gas Depreciation Study
Texas	Railroad Commission of Texas	9902	CenterPoint Energy Houston	2009	Gas Depreciation Study
Colorado	Colorado Public Utilities Commission	09AL-299E	Public Service Company of Colorado	2009	Electric Depreciation Study
Tennessee	Tennessee Regulatory Authority	11-00144	Piedmont Natural Gas	2009	Gas Depreciation Study

Asset Location	Commission	Docket (If Applicable	Company	Year	Description
Louisiana	Louisiana Public Service Commission	U-30689	Cleco	2008	Electric Depreciation Study
Texas	Public Utility Commission of Texas	35763	Southwestern Public Service Company	2008	Electric Production, Transmission, Distribution and General Plant Depreciation Study
Wisconsin	Wisconsin	05-DU-101	WE Energies	2008	Electric, Gas, Steam and Common Depreciation Studies
North Dakota	North Dakota Public Service Commission	PU-07-776	Northern States Power Company - Minnesota	2008	Net Salvage
New Mexico	New Mexico Public Regulation Commission	07-00319-UT	Southwestern Public Service Company	2008	Testimony – Depreciation
Multiple States	Railroad Commission of Texas	9762	Atmos Energy	2007- 2008	Shared Services Depreciation Study
Minnesota	Minnesota Public Utilities Commission	E015/D-08-422	Minnesota Power	2007- 2008	Electric Depreciation Study
Texas	Public Utility Commission of Texas	35717	Oncor	2008	Electric Depreciation Study
Texas	Public Utility Commission of Texas	34040	Oncor	2007	Electric Depreciation Study
Michigan	Michigan Public Service Commission	U-15629	Consumers Energy	2006- 2009	Gas Depreciation Study
Colorado	Colorado Public Utilities Commission	06-234-EG	Public Service Company of Colorado	2006	Electric Depreciation Study
Arkansas	Arkansas Public Service Commission	06-161-U	CenterPoint Energy – Arkla Gas	2006	Gas Distribution Depreciation Study and Removal Cost Study
Texas, New Mexico	Public Utility Commission of Texas	32766	Southwestern Public Service Company	2005- 2006	Electric Production, Transmission, Distribution and General Plant Depreciation Study

Asset Location	Commission	Docket (If Applicable	Company	Year	Description	
Texas	Railroad Commission of Texas	9670/9676	Atmos Energy Corp	2005- 2006	Gas Distribution Depreciation Study	
Texas	Railroad Commission of Texas	9400	TXU Gas	2003- 2004	Gas Distribution Depreciation Study	
Texas	Railroad Commission of Texas	9313	TXU Gas	2002	Gas Distribution Depreciation Study	
Texas	Railroad Commission of Texas	9225	TXU Gas	2002	Gas Distribution Depreciation Study	
Texas	Public Utility Commission of Texas	24060	TXU	2001	Line Losses	
Texas	Public Utility Commission of Texas	23640	TXU	2001	Line Losses	
Texas	Railroad Commission of Texas	9145-9148	TXU Gas	2000- 2001	Gas Distribution Depreciation Study	
Texas	Public Utility Commission of Texas	22350	TXU	2000- 2001	Electric Depreciation Study, Unbundling	
Texas	Railroad Commission of Texas	8976	TXU Pipeline	1999	Pipeline Depreciation Study	
Texas	Public Utility Commission of Texas	20285	TXU	1999	Fuel Company Depreciation Study	
Texas	Public Utility Commission of Texas	18490	TXU	1998	Transition to Competition	
Texas	Public Utility Commission of Texas	16650	TXU	1997	Customer Complaint	
Texas	Public Utility Commission of Texas	15195	TXU	1996	Mining Company Depreciation Study	
Texas	Public Utility Commission of Texas	12160	TXU	1993	Fuel Company Depreciation Study	
Texas	Public Utility Commission of Texas	11735	TXU	1993	Electric Depreciation Study	

LSPG-NY-602

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CROSS TEXAS TRANSMISSION, LLC

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UTILITY PLANT

DEPRECIATION STUDY



http://www.utilityalliance.com

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CROSS TEXAS TRANSMISSION, LLC ELECTRIC PLANT DEPRECIATION STUDY EXECUTIVE SUMMARY

Cross Texas Transmission, LLC ("Cross Texas" or "Company") engaged Alliance Consulting Group to conduct a depreciation study of the Company's utility plant depreciable assets. The scope of the analysis included establishing depreciation rates that form the basis for a request for initial rates. Cross Texas is a new entrant in the Texas electric market and is constructing approximately 235 miles of transmission lines and two substations to support the Competitive Renewable Energy Zone ("CREZ") initiative.

I conducted this study using a traditional depreciation study approach for life and net salvage adjusted to take into account the newness of Cross Texas' investment (since its investment is at the beginning of its life). I used the broad group, average life, remaining life depreciation system. This methodology has been adopted by numerous state commissions, including the Public Utility Commission of Texas ("PUCT") and the Federal Energy Regulatory Commission ("FERC"). Cross Texas has no existing depreciation rates; therefore, no comparison between existing and proposed depreciation rates is available. Appendix A to this study shows the computation of the requested depreciation rates.

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CROSS TEXAS TRANSMISSION, LLC UTILITY PLANT DEPRECIATION STUDY AT IN-SERVICE DATE OF TRANSMISSION PLANT

Table of Contents

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DETAILED DISCUSSION	5
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ATTACHMENTS

APPENDIX A - Accrual Rate APPENDICES B-1 and B-2 - Calculation of Average Life by Account APPENDIX C - Calculation of Net Salvage Percentages

PURPOSE

The purpose of this study is to develop depreciation and amortization rates for the projected depreciable and amortizable property for Cross Texas' assets when the facilities are placed in service. The account-based depreciation rates were designed to recover the total undepreciated investment, adjusted for net salvage, over the remaining life of the Company's property on a straight-line basis. Nondepreciable property was excluded from this study.

The PUCT awarded to Cross Texas the right to construct CREZ transmission lines in Docket No. 35665 and Cross Texas then certificated those lines in Docket Nos. 37956, 38435, and 38650. Consistent with the orders in those dockets, Cross Texas is constructing approximately 235 miles of 345-kV transmission line with more than 140 lattice steel towers, and more than 1100 weathering steel poles, and various other transmission line and substation equipment.

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STUDY RESULTS

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Depreciation rates for the Company's depreciable and amortizable property are shown in Appendix A. Appendices B-1 and B-2 present the calculation of average life by account. Appendix C shows net salvage parameters for utilities with rates set by the PUCT and whose depreciation parameters are available in the public domain. Because Cross Texas is constructing new transmission facilities and substations and has no historical information on which to establish net salvage parameters, the study calculated net salvage parameters by averaging the net salvage for similar types of assets approved by the PUCT for other Texas utilities with transmission. The resulting averages were applied to the Company's assets.

GENERAL DISCUSSION

Definition

The term "depreciation" as used in this study is considered in the accounting sense, that is, a system of accounting that distributes the cost of assets, less net salvage (if any), over the estimated useful life of the assets in a systematic and rational manner. It is a process of allocation, not valuation. This expense is systematically allocated to accounting periods over the life of the properties. The amount allocated to any one accounting period does not necessarily represent the loss or decrease in value that will occur during that particular period. The Company accrues depreciation on the basis of the original cost of all depreciable property included in each functional property group. On retirement, the full cost of depreciable property, less the net salvage value, is charged to the depreciation reserve.

Basis of Depreciation Estimates

Annual and accrued depreciation were calculated in this study by the straight-line, remaining-life depreciation system. In this system, the annual depreciation accrual for each group (*i.e.*, account) is computed by dividing the original cost of the group less depreciation reserve by the group's respective average service life. In this study, because Cross Texas is constructing new transmission facilities, there is no current depreciation reserve. The respective service life for each group is determined by estimating the average service life for each type of asset within the group, and then dollar-weighting the individual lives to determine a group service life. The resulting annual accrual amounts of all depreciable property within each group was divided by the original cost of all depreciable property within the group to determine the depreciation rate for each group. The calculation of the depreciation expense, average service lives, and depreciation rates are shown in Appendices A and B.

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Actuarial Analysis

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Actuarial analysis (retirement rate method) was not available to be used due to the newness of Cross Texas' assets and, consequently, the lack of historical retirements. Average service lives for each type of asset were based both on Alliance's experience with similar assets and the experience of personnel overseeing the design and construction of the Company's assets, as well as their expectations regarding those assets in the future.

Net Salvage Analysis

Since the assets being analyzed are at the beginning of their lives, no traditional net salvage analysis was possible. Instead, the average of the net salvage rates approved by the PUCT for the same accounts of other Texas utilities was applied to Cross Texas' assets. Appendix C shows net salvage parameters by account used by utilities in Texas. These percentages by account were averaged to estimate the Company's net salvage.

Depreciation Calculation Process

Annual depreciation expense amounts for each account were calculated by the straight-line, remaining-life procedure. Because Cross Texas is constructing new transmission facilities, the remaining life analysis is equivalent to the whole life of plant assets in this circumstance. In this calculation, the annual accrual rate is computed by the following equation:

 $AnnualAccrualRate = \frac{(100\% - NetSalvagePercent)}{AverageServiceLife}$

DETAILED DISCUSSION

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Depreciation Study Process

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During the initial data collection process, historical data is normally compiled from continuing property records and general ledger systems. However, since Cross Texas' assets are new with no history available, we conducted interviews with project management staff who are overseeing the engineering and construction of the assets. I assigned lives to each asset type within each account based on the results of these interviews in conjunction with my own knowledge and experience gained from performing depreciation studies for transmission assets in Texas and throughout the nation. I then used these lives to derive a composite average service life. One of the most important elements of performing a proper depreciation study is to understand how the Company utilizes assets and the environment of those assets. Interviews with engineering and operations personnel and/or project management staff who oversee these functions are important methods that allow the analyst to obtain beneficial information when evaluating the output from the life and net salvage programs in relation to the Company's actual asset utilization and environment. Information that was gleaned in these discussions is found both in the Detailed Discussion of this study and also in my workpapers.

Since no operating history for Cross Texas is available, net salvage is assigned based on the experience of other Texas utilities as approved by the PUCT in each respective utility's last base rate case. The listing of utilities used and the calculation of the average net salvage percentage are found in Appendix C.

After assigning lives and net salvage, I calculated the accrual rates for each plant category. This final report documents my conclusions in recommending these accrual rates. The calculation of depreciation accruals and depreciation rates is found in Appendix A. Recommendations for the various accounts are contained within the Detailed Discussion of this study.

Depreciation Rate Calculation

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Annual depreciation expense amounts for the depreciable accounts of Cross Texas were calculated by the straight-line method, average life group ("ALG") procedure, and remaining-life technique. With this approach, remaining lives were calculated according to standard ALG expectancy techniques. For each plant account, the surviving investment, adjusted for estimated net salvage, is divided by the average life to yield the annual depreciation expense. Since these assets are new and have not incurred any depreciation expense, the book reserve is zero and remaining life is equal to average service life. These calculations are shown in Appendix A.

Remaining Life Calculation

At the age of zero, Remaining Life is equal to Average Service Life. The average life of each asset group was calculated based on the expected life for each asset type included in the group and dollar-weighted to determine the average life of the group.

LIFE ESTIMATION

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INTANGIBLE PLANT

FERC Account 301 Organization (54.46 years)

This account consists of intangible organization costs. The estimated balance in this account is approximately \$146,000 when the entire transmission facility is placed into service. The recommended life for this account of 54.46 years is based on the average life of all tangible assets. The calculation of the average life of all tangible assets used for this account is shown in Appendix B-2.

FERC Account 302 Franchises and Consents (54.46 years)

This account consists of costs related to applications for Certificates of Convenience and Necessity. The estimated balance in this account is approximately \$7.0 million when the entire transmission facility is placed into service. The recommended life for this account is 54.46 years based on the average life of all tangible assets. The calculation of the average life of all tangible assets used for this account is shown in Appendix B-2.

FERC Account 350.2 Land Rights (70 years)

This account consists of land rights used for transmission line assets. The projected balance in this account is approximately \$36.0 million when the entire transmission line goes into service. This study recommends a 70-year life based on the life of the longest-lived assets (transmission towers) occupying the land rights.

FERC Account 352.0 Structures and Improvements (28.96 years)

This account consists of structures and improvements associated with control houses and other miscellaneous structures in transmission substations. The projected balance once all transmission facilities are placed in service is \$6.8 million. The control building is estimated to have a 40-year life with other assets having a shorter life. The composite life is a 28.96-year life, which is recommended for this account. The calculation is shown in Appendix B-1.

FERC Account 353.0 Station Equipment (40.93 years)

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This account consists of capacitors, shunt reactors, supply breakers, busses, protective relay panels and switches found in transmission substations. The projected balance in this account is approximately \$52.3 million once the entire transmission facility is placed into service. The lives of the assets in this account vary from 15 years (remote terminal units or "RTUs" and surge arresters) to 50 years (*e.g.*, conduit and steel structures) with the predominant life for equipment being 40 years for assets such as capacitors, reactors, and breakers. Due to the nature of these substations, they do not include transformers. Based on the dollar-weighted lives of the individual assets, this study recommends a life of 40.93 years as shown in Appendix B-1.

FERC Account 354.0 Towers and Fixtures (70 years)

This account consists of steel transmission towers, including foundations and grounding. The projected balance in this account is approximately \$66.6 million once the entire transmission facility is placed into service. The lives of the assets in this account are all estimated at 70 years. This study recommends a life of 70 years as shown in Appendix B-1.

FERC Account 355.0 Poles and Fixtures (57.30 years)

This account includes steel poles, pole arms, anchors, anchor rods, and other related equipment. The projected balance in this account is approximately \$127.0 million. The lives of the steel pole assets in this account are all estimated at 60 years with pole arms reflecting a shorter life. Based on the dollar-weighted lives of the individual assets as shown in Appendix B-1, this study recommends a life of 57.30 years.

FERC Account 356.0 OH Conductors and Devices (47.87 years) Page 13 of 37

This account includes overhead conductors, insulators, and devices for transmission plant. The projected balance in this account is approximately \$156.9 million. The lives of the assets in this account vary from 30 years (e.g., dampers, spacers, and insulators) to 50 years (e.g., conductor and fiber optic cable) with the predominant life for all assets being 50 years. Based on the dollar-weighted lives of the individual assets as shown in Appendix B-1, this study recommends a life of 47.87 years.

FERC Account 359.0 Roads and Trails (70 years)

This account includes roads and trails for transmission plant. The projected balance in this account is approximately \$3.9 million. The lives of the assets in this account are based on the longest lives found for other assets (70 years for transmission towers). As shown in Appendix B-1, this study recommends a life of 70 years.

FERC Account 383.0 Computer Software (10 years)

This account includes all computer software associated with primary and backup Energy Management Systems or EMS at regional transmission centers. The current account balance is approximately \$38,000 for this account when the entire transmission facility goes into service. Although upgrades to the software are expected every few years, the Company anticipates that future upgrades will be expensed. Therefore, a 10-year life is recommended for the software.

FERC Account 384.0 Communication Equipment (4 years)

This account includes all communication equipment associated with regional transmission and operations plant. There will be approximately \$1.5 million in this account when the entire facility goes into service. Based on the dollar-weighted lives of the individual assets as shown in Appendix B-1, this study recommends a life of 4 years.

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GENERAL PLANT

FERC Account 391.0 Office Furniture and Fixtures (8 years)

This account includes office furniture and equipment used for general utility operations. The projected balance in this account is \$150,000. Assets in this account are estimated to have a life of 8 years, which is recommended for this account. This is shown in Appendix B-1.

FERC Account 392.0 Transportation Equipment (8 years)

This account includes autos, trucks, and trailers used for general utility operations. The projected balance in this account is approximately \$449,000. Assets in this account are estimated to have a life of 8 years, which is recommended for this account. This is shown in Appendix B-1.

FERC Account 393.0 Stores Equipment (8 years)

This account includes stores equipment used for general utility operations. The projected balance in this account is \$75,000. Assets in this account are estimated to have a life of 8 years which is recommended for this account. This is shown in Appendix B-1.

FERC Account 397.0 Communication Equipment (4 years)

This account includes communication equipment used for general utility operations. The projected balance in this account is approximately \$23,000. Assets in this account are estimated to have a life of 4 years, which is recommended for this account. This is shown in Appendix B-1.

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SALVAGE ESTIMATION

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When a capital asset is retired, that is, physically removed from service and finally disposed of, terminal retirement is said to have occurred. The residual value of a terminal retirement is called gross salvage. Net salvage is the difference between the gross salvage amount (what the asset can be sold for) and the removal cost (the cost to remove and dispose of the asset). Salvage and removal cost percentages are calculated by dividing the <u>current</u> cost of salvage or removal by the <u>original</u> installed cost of the asset. Some plant assets can experience significant negative removal cost percentages due to the timing of the original addition versus the retirement.

At the beginning of the life of the assets for Cross Texas, there is no historical net salvage information that can be used to model net salvage rates. The general expectation (both in Texas and across the industry) is that most asset accounts within the transmission function will exhibit negative net salvage, with regional operations and general plant having a zero percent net salvage. In other words, for the negative net salvage, the cost to remove the assets from service (*i.e.*, removal cost) will exceed any proceeds received from the scrap materials (*i.e.*, gross salvage), if any, once the asset is removed from service.

Because the Cross Texas transmission facilities have no historical net salvage information, the study looked to similarly situated utilities as a model for the expected net salvage associated with the Cross Texas assets. The study considered the net salvage characteristics most recently approved by the PUCT for the nine largest Texas utilities with publicly available information and then performed a simple average. Some Cross Texas asset accounts may have a higher level of effort required to remove the assets than many other utilities (e.g., Account 355 – Poles and Fixtures, because there are more steel poles in the account (100%) as compared to other utilities), and some of the net salvage rates included in the calculation may understate removal cost given the age of the respective studies. However, given the lack of historical experience, the average net salvage is a reasonable basis on which to model net salvage for Cross Texas assets.

INTANGIBLE PLANT

FERC Account 301 Organization (0% Net Salvage)

This account consists of any gross salvage and removal cost associated with intangible organization costs. It is not expected that the assets in this account will have any removal cost or salvage at the end of its life. This study recommends a 0 percent net salvage.

FERC Account 302 Franchises and Consents (0% Net Salvage)

This account consists of any gross salvage and removal cost associated related to costs for the application for Certificates of Convenience and Necessity. It is not expected that the assets in this account will have any removal cost or salvage at the end of its life. This study recommends a 0 percent net salvage.

Transmission, FERC Accounts 350.1-359.0

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The net salvage percentage applied to Cross Texas' transmission assets is calculated using the average of the nine Texas utilities shown in Appendix C. A brief discussion of study recommendations for each account follows below.

TRANSMISSION PLANT

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FERC Account 350.2 Land Rights (0% Net Salvage)

This account includes any salvage and removal cost of land rights used for transmission function assets. Land rights are not expected to have any salvage or removal cost. This study recommends a 0 percent net salvage.

FERC Account 352.0 Structures and Improvements (-6% Net Salvage)

This account includes any salvage and removal cost of structures and improvements in connection with control houses and other miscellaneous structures associated with transmission substations. As shown in Appendix C, the range of net salvage percentages from other Texas utilities is from negative 33 percent to a positive 5 percent (for Entergy from a study in the 1990s). The average of the eight Texas utilities (with one not reporting a net salvage percentage for this account) is negative 6 percent. This study recommends the average negative 6 percent net salvage for this account.

FERC Account 353.0 Station Equipment (-9% Net Salvage)

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This account includes any salvage and removal cost of capacitors, shunt reactors, supply breakers, steel structures, protective relay panels, and switches for transmission plant. As shown in Appendix C, the range of net salvage percentages from other Texas utilities is from negative 25 percent (AEP North) to a positive 2 percent (AEP Central). The average of the nine Texas utilities is negative 9 percent. This study recommends the average negative 9 percent net salvage for this account.

FERC Account 354.0 Towers and Fixtures (-17% Net Salvage)

This account includes any salvage and removal cost of steel transmission towers and fixtures. As shown in Appendix C, the range of net salvage percentages is from negative 34 percent to 0 percent (for Southwest Public Service, which has few assets in this category, with all except Southwest Public Service being negative). The average of the nine Texas utilities is negative 17 percent. This study recommends the average negative 17 percent net salvage for this account.

FERC Account 355.0 Poles and Fixtures (-37% Net Salvage)

This account includes any salvage and removal cost of steel poles, anchors, anchor rods, other related equipment, and foundations for transmission plant. As shown in Appendix C, the range of net salvage percentages is from negative 100 percent to a positive 25 percent (for Entergy from a study in the 1990s, with all except Entergy being negative). The average of the nine Texas utilities is negative 37 percent. This study recommends the average negative 37 percent net salvage for this account.

FERC Account 356.0 OH Conductors and Devices (-28% Net Salvage)

This account includes any salvage and removal cost of overhead conductors, insulators, and devices for transmission plant. As shown in Appendix C, the range of net salvage percentages from other Texas utilities is from negative 74 percent to a positive 20 percent (for Entergy from a study in the 1990s, with all except Entergy being negative or zero). The average of the nine Texas utilities is negative 28 percent. This study recommends the average negative 31 percent net salvage for this account.

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FERC Account 359.0 Roads and Trails (0% Net Salvage)

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This account includes any salvage and removal cost of roads and trails for transmission plant. Many utilities do not have any investment in this account. It is not expected that the assets in this account will have any removal cost or salvage at the end of its life. This study recommends a 0 percent net salvage.

FERC Account 383.0 Computer Software (0% Net Salvage)

This account includes any salvage and removal cost for computer software associated with primary and backup Energy Management Systems or EMS at regional transmission centers. It is not expected that the assets in this account will have any removal cost or salvage at the end of its life. This study recommends a 0 percent net salvage.

FERC Account 384.0 Communication Equipment (0% Net Salvage)

This account includes any salvage and removal cost associated with communication equipment associated with regional transmission and operations plant. It is not expected that the assets in this account will have any removal cost or salvage at the end of its life. This study recommends a 0 percent net salvage.

GENERAL PLANT

FERC Account 391.0 Office Furniture and Fixtures (0% Net Salvage)

This account includes any salvage or removal cost for office furniture and fixtures used for general utility operations. It is not expected that the assets in this account will have any removal cost or salvage at the end of its life. This study recommends a 0 percent net salvage.

FERC Account 392.0 Transportation Equipment (20% Net Salvage)

This account includes any salvage or cost of removal for transportation equipment. Cross Texas will have investment in pickup trucks, trailers, and ATVs that are estimated to have a residual value. Based on judgment, this study recommends a 20 percent net salvage for this account.

FERC Account 393.0 Stores Equipment (0% Net Salvage)

This account includes any gross salvage or removal cost for stores equipment. It is not expected that the assets in this account will have any removal cost or salvage at the end of its life. This study recommends a 0 percent net salvage.

FERC Account 397.0 Communication Equipment (0% Net Salvage)

This account includes any gross salvage or cost of removal for communication equipment used for general utility operations. It is not expected that the assets in this account will have any removal cost or salvage at the end of its life. This study recommends a 0 percent net salvage.

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APPENDIX A Accrual Rate

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Cross Texas Transmission, LLC

Appendix A

1.84%**1.**84%

128,411.54

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0.00 0.00

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54.46 54.46

146,217.98

6,978,888.01

302 Franchises and Consents

301 Organization

FINAL

Acct

2,690.41

Proposed Accruat Rate

Proposed Annual Accrual

Net

Salvage

Average

Accumulated Depreciation

Project Cost

Total

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Life

¥ 1.43% 3.66% 2.66% 1.67% 2.39% 2.67% 1.43%

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520,989.01 248,189.44 1,391,872.93 1,112,807.98 3,036,254.96 4,188,059.99 55,943.73 10,554,118.03

8

70.00 ٧N

0.0 0.0 0.0 0.00 0.00 0.00 0.00 0.0

1,051,073.28

36,432,797.92 6,781,132.22 52,326,049.85 66,635,208.42 127,039,956.32

352 Structures and Improvements

350.2 Land Rights

350.1 Fee Land

354 Towers and Fixtures

355 Poles and Fixtures

353 Station Equipment

%g

28.96 40.93 70.00 57.30

-17% -37% -28%

8

70.00

47.87

156,856,179.46 3,912,148.76

356 DH Conductors and Devices

359 Roads and Trails

Composite Transmission *

451,034,546.23

%6-

10.00% 25.00%

3,779.30

376,885.33 380,664.63

88

10.00 4.00

0.00 0.00

37,793.01 1,507,541.31 1,545,334.32

24.63%

2.35%

12.50%

25.00% 11.31%

12.50% 10.00%

18,750.00 44,850.53 9,375.00 5,835.00 78,810.53

20 % 20%

8.00 8.00 4.00

8,00

80.0 0.00 0.00 0.00

150,000.00

391 Office Furniture and Equipment

392 Transportation Equipment

393 Stores Equipment

397 Communication Equipment

Composite General Plant

Total *

Composite Network Equipment

384 Communication Equipment

383 Computer Software

448,505.31 75,000.00 23,340.00 696,845.31

88

Computation of Proposed Depreciation Accrual Rate

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* Composite rate calculation excludes Fee Land.

460,401,831.85

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APPENDIX B-1

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Calculation of Average Life by Account

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> Cross Teves Transmission, LLC Calculation of Average Life by Account

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Facility	Acrt	Description	Unit Description	Unit U	tty Adjurter	I Hour total	eful Lite	S r thefal tife	Average Service LHe
Gray Substation	350.1	puel					¥.	N N	
Cross Substation	TOSE	pvrt	350.1 Fee-Owned Land	Acre	160 \$	530,439	1		
Avna rika Stareroom	TOSE	Land	350.1 Fee-Owned Land	Acre	\$ E11	225,284	ž	5	
Tine-Gray to Tasiz	350.1 Teta 350.2	a 80X	fee-Owerd Und	Acre	\$ 5 02	255,350 120,120,1	A A	¢ ¥	00'1
Tikne- Gray to White Deer	2025	NON.	350.2 Easemented ROW	Acre	2 12.121 S	54,264,915	Q2	999,654,015	
Thine- Sovertan to Tesla	2.0{E	Row	350.2 Easemented ROW	Agre	5 CT778	4,975,324	R	348,258,713	
Gray Substation	350.2 Tolu 352	A Supply Control House - Grav	350.2 Easemented ROW	Acte	\$ \$ 71/221	961,5EA,AE	ę	1,205,353,126 2.550,295,854	70.00
Cross Substation	355	Supply Control House - Cross	352.1 Control·Hause	Each	15	1,784,302	Ş	14,012 TE,1T	
Nine-Gray to Tesla	245	OPGW Repeater House	352.1 Control House	Each	15	607,435	Q7	24,257,413	
Ama fillo - Storeroom	333	SD uctures and Amor overmants	Repeater House	фр.	15	49.225	40	1,969,001	
Tine- Geo to Teda	ŝ		Eulésine Antroverneuls	555	\$ \$ 7	393, 8 00 147,675	~ ~	2,756,602 1,756,602	
		A CHARGE AND A CHARGE AND A CHARGE A CH	357.5 Gates 357.2 Cattle Guards	fach Tach	200 S 40 S	600,187 634,151	* *	15,004,633 17,104,784	
1400 BUUN CS ÁCIN-BUN	352	lis provements (fencing, Gales, Cattle Guards, Culverta)					}		
fling. Sönerton to Tesla	35E	Improvements (Fercing, Gates, Cattle Guards, Cubercs)	342.2 Gathe Guards	Each Each	120.00 5 40.00 5	386.290 7 72, 518	22	9,657,241 18,313,A58	
			B53.1 Gales BE1 5 Control Connecto	Fach .	200.00 \$	652110	22	16,302,744	
				53	\$ 00.04	BEE'EPL	ñ	15,543,439	
Gray Substation	ESE IFIOL 255	Akymánym Bus & Fittings			vi	562,484,8		196,196,191	24.96
			8353.1 6" 1PS, SCH 80 6063-76 9253 7 3" IPS 50-1 60 6063-76	Foot	\$ 0015	174,840	\$	120'222'9E	
Gray Substation	353	Steel Structures		1901	5 021	10,045	8	50H,241	
			SISSI LAFRAME, SUSKY, SO' ATTACHMENT HEIGHT	Each	5 6	1,262,370	8	62,118,523	
			SEELE A FRAME, BASKY, BUS' ATTACHMENT HEIGHT SEELE A FRAME, BASKY, BUS' ATTACHMENT HEIGHT A LEALUS (1997)	51	5 .	505,013	ጽ :	25,250,633	
			SSS.4 TURNING STRUCTURE	5-5	, y , -	85,761	2 3	4.75.076	
			Sasas support, ad switch low	Each	22 5	247,775	3	12,388,752	
			SSALS SUPPORT, 30 SWITCH LOW WY MITE BKT FOR BUS SPAT 5453.7 SUPPORT, 35 GROUND SWITCH STRUCHURS	51	~ ~	22572	ន	1,126,250	
			S353.8 SUPPORT, 36 PANTOGRAPH SWITCH STRUCTURE (3 STRUCTURE)	Each -	м ил 1 М	15,407	2 S	62E-077	
			SSSS SUPPORT, IS BUS LOW	Each	3 51	35,958	5	1,797,916	
			AUSTALO SUFFORT, LØ BUS HIGH SASAJLE SUFFORT, LØ BUS RAZAVED	15 1	5 82	418,294	3	20,914,689	
			5353-12 SUPPORT, 18 SA		36 S	110,455	8 5	5,522,759	
			S353.13 SUPPORT, 1 & CVT	f	* *	31,178	8 8	155,622,1	
			Sasala Support, 15 pyt	t i	~~ ·	8,558	8	427,901	
and the second	1		S353,16 SUPPORT, REACTOR SWITCHER 3\$ (BASE)	5.5		725,407	85	11,270,369 721 227	
Notiestanc date	556	Feundations	F151.1 Foundations. DEADEND astreast stimm	1			1		
			F33.2 Foundations, DEADEND & FRANKE 80-0			115 95C	<u> 9</u>	17.44K ens	
			F353.3 Foundetions, LIGHTING MAST 95'-0"	5		512,82	5 8	4,446 110	
			F353A foundation, TRAVSMISSION POLE	(pe)	1 5	90,212	8	1,511,096	
			FISELS FOUNDATIONS, TEALE PHALSE (DW BUS VISWITCH STRUCTURE - FISELS FOUNDATIONS, THARE PHALSE GERAINE SWITCH STRUCTURE - 5	5 1	4 8 5	725,357	8	11,437,436	
			F333.7 Foundations, SINGLE PHACE COW BUS SUPPORT	5	5 61	52,520	3 9	1999,03510,1 Ve6,670,1	

EXHIBIT DAW-5 Page 24 of 37

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EXHIBIT DAW-2 Page 25 of 37_{Apmda 61}

Cross Feeds Thansmission, LLC Calculation of Average Life by Account

FetBity	ų	Deterbûen	U AN Description	Unth	Qiy Adjuste	1 terat fore b	Joetul Uffa	\$ = Useful Life 2	Average Service Life
		-	1962 & Carledonic Olicije Oličeće () Level olik overset	1		AA4 444	5		
			F353 & Foundations, Small Finals on SUPPORT F353 & foundations, Studie Finals Finals (MERI & 200 USU DUE 614	513	* •	192,490	8 5	72 (224,520)	
			and the main and the provident static states and the provided states and the stat		8 :	469'JCE	2 2		
			FIST 11 Extendibions Strett Forder CVT YEAR STAND	į	• •	130 13	8		
			F3S3.12 foundations. Saives F PMASE PT STAND		 	17 664	q 5	232 6 6 2	
			F353.13 Foundations. SHGLE PHASE SURGE ARGETTER CTAND	-		676 6F	8	060 634 6	
			F353.14 Foundations, PANTOGRAPH DESCRIMINECT SWITCH		1 -	(30) (1	R 5	1 6016 0417	
			F353.15 Foundations. SHUNT REACTOR	Each -		10.67	85	4 181 647	
			F353.16 Foundations, REACTOR SWITCH	t t		106437	: 5	319 1 64 5	
			F353.17 Foundations SCOOA BREAKFA	t		1 41 587	5	6 CM 247	
			F353.18 Foundstions, 3000A BREAKER	ter.		24.503	5	1 225.350	
			F35a.19 Foundations, CONTROL BUILDING	Each		40° 344	3	4,017,191	
noteledue yesu	22	gare Conductor							
			C353 1 1590 KCIMIL AAC, COREOPSIS	Pound	1200 \$	50,494	50	2,524,697	
			CISSI: 2 1550 KCM/L ACSS, FALCON	Pound	5 0025	36,787	50	ES2,9E8,1	
			CISS.3 ISS0 XCMILACSR, FALCON	pund	\$ 00101	(211'99)	8	178,800.£	
			C353,4 Tag Shield Whe	Pound	150 5	667,5	2	139,660	
Gry Subtration	55	Croseltere	CISSIS 4/0 Copper	Foot	\$ 00112	2 <i>62,1</i> 70,5	g	103,364,613	
			Troe				ų	-	
Gray Substation	55	ctVTi			•		7	•	
			VT353.1 PVT, 345/N, 50/VA	51¢	3 5	177,716	40	31,103,622	
	ļ		VT353.2 CVT, 345KV, 2 WINDING .3XYZZZ	Eich	2 BI	506,659	40	20,366,377	
updatemer Asie	525	Control Cuble							
				foot	30000 \$	161,504	DZ	3,236,071	
				Foot	\$ 00055	354,176	2	255,680,6	
				Foot	\$ 00(05	504,474	2	10,029,473	
				Foot	5 26522	519/11	ន	1.562.152.1	
			CC353 6 FIGHER, CC3614100 G440416-74132020	89	5 06/7	76,142 16 120	R \$	1,522,835	
			Crist 7 FIRE OCT NYATONUS COND			061.01	3 2		
Gray Substation	356	Current Transformens System		202		107 00	9	1,800,500,1	
			Type				Ş	٥	
Griy Substation	15	Fiber Optics - Electronics							
			FORES \$ \$1GNUL DISTRIBUTION UNIT (50U)	E+ch	5 1	12,564	2	251.274	
			F0353.3 GPS CLOCK, SEL-2407	Esch	5 1	552,24	2	111.053	
			FOISSLE FIRER-OFTIC LIPCORD CARLE COOL, 2M	tach	18 \$	10,256	50	205,714	
			FO353.4 FIBER-OPTIC ZIPCORD CARLE WEATHERED (LC-57) CB08, 2N	Each	5 87 5	33,265	20	205,302	
			FORES FREEK-OFTIC ZIPCORD CARLE WEATHERED (LOLC) CEDS, 2M		\$ 9E	26,593	2	533,952	
			FO353.6 OPGW, SPLICE BOX	End)	25	4,626	9X	92,526	
			FO353.7 OPGW, SPLKCE BOX CONNECTOR RIF OPGW	Each	2 5	285'2	20	51,645	
			FO353/8 OPEW, SPUCE BOX CONNECTOR RIT ADSS	Each	2 5	2,567	52	51,331	
			POISE, SPORE TRAY	Each	25	2,451	8	4 3'UZ6	
			POIDULE OF OF THE PERIOD CONFIGURATION	Ę.	2 5	3,44S	22	68,506	
			POISSAL 66 JUNICORNUL 515 ILM	5	1 \$	510'061	R :	3,800,564	
			FORCE FT BREETENDIA BELEVION MODEL	51	* *	212,212	ន	276,371	
Gray Substation	ESE	Sekitiha.		CINCIP	• 1	190/6	3	502'64	
			Sw359.1 FUSIBLE DISCORNECT, 3-POLE, 4-WIRE, 240 VAC, NEMA 4/4X, 4	i Each	1 \$	210,25	4	1,000,607	
			SW353.2 SWITCH 30, YEE, BASKV/SODDA W/ MOTOR OPERATOR	Eich	5 82	1,714,345	Ş	68.573 BOM	
			SW353.3 SIMTOH 36, YEE, 245KV/36004 W/ MOTOR OPERATOR	Each	4	134,637	â	5,385,A87	
			SW353.4 SWITCH, GROUND 20 W/ INTERRUPTOR, 345KY	Each	4 C	646,021	đ	25,840,830	
Grey Substation	156	in substances	swasa.5 swrtch 30, pantograph 245kV/500a W/ Motor operato	(Each	2	134,806	4	5,392,238	
			1353.3 INSULATOR, POST, 1300KY SIL, 19.368, 7" B.C. 707, 7" B.C. 80	Each	240 \$	525,225	8	26,161,270	
			1358 2 INSULATOR, POLYTARR, 30X ULT	Esch	36 \$	15,124	5	156.194	
Grav Substation	t St	fortal and franching server	1353.3 Insulator, post, polymer, sok lat	Exh	43 F	2.878	50	143,894	
			11111111111111111111111111111111111111	1.1	•	ţ	1		
					~ •	5/6'G	R 9	139,426	
			CP353.3 125VDC BATTERY, 400AH		~ U ¥ ~	12,747	5 2	436'812 1155 812	
			CPARA & AATTERY DUARCER		n 4 7	100,000 Tab ta	3 5	1, 199, 54 UL	
				3	F 4	100.77	3	100,000	

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EXHIBIT DAW-2 Page 26 of 37

Crots Texas Transmission, LLC Calculation of Average Life by Account

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Gray Substation 353 Reactors Gray Substation 353 Switches Re Gray Substation 353 FreeCong. Lig Gray Substation 353 Nucl Condus Gray Substation 353 Nucl Condus Croat Substation 353 Ammiuum2 Croat Substation 353 Start Substation 353 Condus	01	Unit Description	a ten	r Adjuste	ed Flant Total 1	disefut Life	S x Used of Cife 5	Average Jervice Life
Gray Substation 353 Reactors Gray Substation 353 Switches Re Gray Substation 353 Switches Re Gray Substation 353 Surge Arres Gray Substation 353 Surge Arres Gray Substation 353 Struct Coast Substation 353 Struct								
Gray Substation 353 Reactors Gray Substation 313 Reactors Gray Substation 353 Switchnes Re Gray Substation 353 Surge Arrest Gray Substation 353 Taid Candur Gray Substation 353 Taid Candur Gray Substation 353 Stat Surge Arrest		CP3335 SECURITY CAMERAS	jach L	5 C	21,796	2	435,329	
Gray Substation 353 Reactors Gray Substation 353 Switchet R Gray Substation 353 Surge Arrei Gray Substation 353 Viel Condus Gray Substation 353 Viel Condus Croat Substation 353 Ammiuum			63	 -	10,340	2	207,605	
 . Gray Substation Gray Substation<!--</td--><td></td><td>CP305.7 ZE-5354 SIAIRON COMPUTER</td><td>6</td><td>25</td><td>165'86</td><td>8</td><td>120,277</td><td></td>		CP305.7 ZE-5354 SIAIRON COMPUTER	6	25	165'86	8	120,277	
Gray Substation 353 Reactors Gray Substation 353 Sullichtes Re Gray Substation 353 Surge Arres Gray Substation 353 Retailers Gray Substation 353 Nard Condur Gray Substation 353 Nard Condur Cross Substation 353 Stat Surge		LESSES SELECTE AUTOMATION CONTROLLER	Ē	• •	6,881	2	137,626	
Gray Substation 353 Reactors Gray Substation 353 Switchets Re Gray Substation 353 Europa Arres Gray Substation 353 Presters Gray Substation 353 Nat Condus Gray Substation 353 Nat Condus Croat Substation 353 Ammiuum2			6	5 11	114587	2	BE7,1 EE,2	
Gray Substation 353 Reactors Gray Substation 353 Switches Re Gray Substation 353 Surge Arres Gray Substation 353 Surge Arres Gray Substation 353 Prid Condur Gray Substation 353 Yuld Condur Cross Substation 353 Amminum			6	~ ~	12,230	2	1,444,508	
Gray Substation 353 Reactores Gray Substation 353 Switches Re Gray Subatrion 353 Switches 353 Switches Gray Subatrion 353 Nucle Arreis Gray Subatrion 353 Yuch Condus Crost Substation 353 Ammiaumit		Crastil develop	f :	~	67,139	8 :	1,342,783	
Gray Substation 353 Reactors Gray Substation 353 Switches Re Gray Subatation 353 Surge Arrest Gray Subatation 353 Surge Arrest Gray Subatation 353 Prado Gray Subatation 353 Manniaums Crost Substation 353 Aumiaums			6 1	5 4 N 7	166'16	8	1.639.618	
Gray Substation 353 Reactors Gray Substation 313 Switches Re Gray Substation 353 Surge Arrest Gray Substation 353 Lunge Arrest Gray Substation 353 Taid Condus Gray Substation 353 Taid Condus Cross Substation 353 Stat Surge			6		10.02	R !	8/9'8.co's	
Giry Substation 353 Reactors Giry Substation 353 Switchner Re Giry Subatrion 353 Surge Arreis Giry Subatrion 353 Viel Condus Gary Subatalion 353 Yiel Condus Gary Subatalion 353 Yiel Condus Coast Subatalion 353 Ammiuum			5 1	л с N •		2 :	1,436,919	
Gray Substation 353 Reactors Gray Substation 353 Switchet Re Gray Substation 353 Switchers Gray Substation 353 Surge Arrest Gray Substation 353 Yead Condus Gray Substation 353 Yead Condus Cross Substation 353 Auminums		Casta re de 140	6 f	n u e r	760'0ST	3 9	500 LZ1'2	
Gray Substation 353 Reactors Gray Substation 313 Switches Re Gray Substation 353 Surge Arrest Gray Substation 353 Surge Arrest Gray Substation 353 Taid Condus Gray Substation 353 Taid Condus Cross Substation 353 Stat Surge		C2353.17 6E490	I		2000 IL	3 9	966'C0h't	
Gray Substation 353 Reactors Gray Substation 353 Switches Re Gray Substation 353 Switches Gray Substation 353 Yuld Condus Gray Substation 353 Yuld Condus Coast Substation 353 Ammiuum Croast Substation 353 Ammiuum		CP353.18 GE-F60	5	n en * 11	105.201	2 2	220,0201	
Giry Subrutson 3.3 Switches R Giry Substrition 3.53 Europe Arrest Giry Substrition 3.53 European Giry Substrition 3.53 trid Condus Giry Substrition 3.53 trid Condus Circus Substrition 3.53 Animi-units Cross Substrition 3.53 Animi-units						;		
Gray Substation Jsa Prezza, Lig Gray Substation JS3 Surge Arrest Gray Substation JS3 Pred Condus Gray Substation 353 Auminums Cross Substation JS3 Auminums		raia-1 reactor 18.50MVAR. Oll Insulated, w/ Sa's	101	5 F	4,563,370	40	182,752,805	
Gray Substration 353 lange Arres Gray Substration 353 lange Arres Gray Substration 353 Taid Candur Gray Substration 353 Taid Candur Cross Substration 353 Marmiauon? Cross Substration 353 Start Surver		(14114), ABACTÓR SWITCHER, RASIO	4-12		1 403 644	ž		
Gray Substrition 353 Surge Arren Gray Substration 353 Preaters Gray Substration 353 Yead Condes Coast Substration 359 Aurminum	ighting.			n 1	1001's 00'l	3		
Gray Substration 353 Surge Arrest Gray Substration 353 Preaters Gray Substation 553 Yach Combus Cross Substation 353 Aumiauent Cross Substation 353 Seriel Surge		FL353.1 Security Fancing	inear Foot	1700 5	105,50	ĸ	2,347,546	
Giry Substation 153 braters Gary Substation 353 trid Condur Cross Substation 353 Aumidums Cross Substation 353 serit Suruch		ftasa.z seority Ught	Ę.	5 6 1	23/156	X	586,408	
Gray Substation 353 Pratices Gray Substation 353 Yand Condu Cross Substation 353 Auminum Cross Substation 353 Seed Surver		SA353,1 SURGE ARRESTOR, MCOV 205KV	5	5 21	84.928	5	2293.925	
Gray Substation 353 Trid Condu Cross Substation 359 Atamiaum Cross Substation 359 Start Surer								
Gery Sobstation 553 Tad Condu Coast Substation 359 Atimicuro Croat Substation 359 Start Succi		Brass.1 Rrenker. 3-Poue, 4-Wrre, 240VAC, 400A, Wath CDOPER LUGS E Bases a recente accumentation of	ach Sch	5 T	16,469	9 :	658,774	
Gary Substation 353 Nucl Conduc Coss Substation 359 Aumium Coss Substation 353 Send Sunch		The second district and the second distributed a	43 ·	.	3,847,756	ç :	155,510,223	
Cross Substition 353 Auminum Cross Substition 353 Start Struct	huit		5	2 5	1,025,559	40	41,013,575	
Croas Substécion 359 Atamiruros Croas Substeicon 358 Sand Structi		YC353.1 TRENCH 20"YADE 2"DEEP	bet	30 5	27.897	ş	I. TOLE RSR	
Geast Substriken 359 Atumisum 2021 Substration 353 Savid Struch		TICSED 2 TRENCH 30" WIDE 2" DEEP	toot	1250 5	1, 127,510	\$	56,375,531	
Cross Substation 353 Auminum Cross Substation 353 Start Struct		POSAJ TRENCHART WIDE 2" DELP	oot	375 5	130,087	20	21,504,351	
Croas Substeticion 359 Atamiauros Croas Substation 353 Sand Structi		YCISSA COHDUIT, A'	oat	s obor	151,017	50	7,550,831	
Cross Substriction 353 Atuminum Cross Substation 353 Seel Struct			oot	S DOOR	361.CE	20	112'658'1	
Cross Substition 359 Aumium Cross Substation 353 Sent Struct		VICES 3 CONDUCTORING STATES AND	100	5 0 5	5,233	S, 1	464,953	
Cross Substation]53 Seed Struct	s Bus & Fittings		100		1991'55	5	1745LE	
Crast Substation]53 Start Struct		E353 1 6" PS, SCH 80 6063-76	601	\$ 0285	\$80,613	5	29,030,655	
	ctures	B353.2 3" 875, SCH 20, 6063.76	100	1200 5	200'58	8	4,250,089	
		sisa 1 a-frame Basky, koʻattaduatrat herant	5		900 900 F	5	116 000 00	
			5	^ vn 9 50	202 MK PT	7, 5	03,810,411 7 847 847	
		S353.3 SUPPORT, 3D VEE SWITCH HIGH	t	• • •	16 40	8 5	816.975	
		5353.4 SUPPORT, 16 BUS LOW	-	\$ 0Z	100.15	8.9	1.545.165	
		3 SS3.5 SUPPORT, IS BUS HIGH	ach .	36.5	162,7231	3	8.136,152	
		ESES & SUPPORT, JØ BUS BI LEVEL	lach	12 \$	EEO,1E	3	1,551,653	
-		SUSS.7 SUPPORT, IB SA	(acts	12 5	16,650	22	177,558	
			HCH.	4	5,840	3	265'162	
			f.	4	4.803	8	240,443	
Errots Substation 353 Foundations	2	1925/20 MM31, UKANING 202, 10141 HEIGHT	-for	4 5	1 26,659	8	6,3.82,958	
		F353.1 Founds Users, DEADEND A-FRAME 65'-0"	ach	8 \$	94,055	8	4,701,726	
		F353.2 Foundations, LIGHTING MAST 951-07	HC.	\$ ¥	59,960	5	285,166,E	
		F353.3 Feundations, THREE PRASE LOW BUS V-SWITCH STRUCTURE	act.	12 5	E02'\$*	20	2,410,147	
		F357.4 Foundations, SINGLE PHASE HIGH BUS V-SWITCH STRUCTURE	þ	6 \$	231,162	50	1,058,113	
		F3535 Foundations, SUNGRE PHASE LONY BUS SUPPORT	act.	\$? 2	CER EL	3	3,674,005	
				12 5	54,081	8	2,704,068	
		F222 FOUNDEROOM, SINGLE PRACE SINGLE INSULATOR MIGH BUS 54715 5753 R. Shindinkan Alumi E DUARE AT VALLE STALLA	5	36 S	162,244	S :	8,112,203	
		FIGURE FOUNDATIONS UNDER FIGURE CALL REAVENTINGEN FISTA foundations MIGHE PUACEDE FRAMO	5		12,149	3 1	101,435	
		F353-10 Foundations, SIMGLE PHASE SURGE ARRESTER STAND		• •	26 AAS	2 5	1 1972 CO	
		F353.11 Found ations, SERIES CAP ACTION PLATFORM		i j	241.146	r 2	12 156 VIL	
		F353.12 Foundations, CONTROL NOUSE	1	57	13,860	12	1,692,931	

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Page 27 of 37 Appendic E-1 **EXHIBIT DAW-2**

Average Service Life

Cross Texas Transmission, Lt C Cutulation of Average Life by Account

886,660 303,328 217,711 361,691 وعلايا الكعدنا يركز Adjusted Plant Total Useful Life 2 2 2 3 3 * * * * * * * \$ \$ 17,723 6,067 2,354 761,254 1,567,578 431,083 1,551,900 2,155,416 2,155,416 7,351,362 6,401,566 \$7,243 500 5 1700 5 450 5 1900 5 2 4 È, ten 55 V1353.1 SSV1, MSKV, SXKVA V1353.2 CV1, 345KV, 2 WINDING , 3XY2.22 SC353.1 BYPASS CIRCUT BIFLAGE SC353.2 CURRENT JUMTING REACTOR SC35.3 MACY SC35.1 MACY DAILS SC35.1 STAVCTORE SAND STANDS SC35.1 STAVCTOR CANS G33.1 1590KGNIL AAG, COREOPSIS G353.2 1590XCANI. ACSS, FAICON G353.3 7-48 SHIELD WIRE G353.4 4/0 COPPER Unit Description

Series Capacitors

353

Cross Substition

Bare Conductor

353

Cross Substation

Facility

Destription

B

13,090,685 3,669,716 810'EDL'15 925'ESC'12 061'EBE'11 961'EBE'11 961'EBE'11 975'ESC'12 981'EBE'12 909.194 1,401,619 550,001 550,001 533,491 262,164 262,177 3,582,829 795,545 843,380 10,656,890 18,651,525 10,698,483 262,271,1 351,775 710,251 212,515 700,025 123,812 322,241 322,241 525,255,31 111,805 1,124,323 555,150 18,056,510 3,818,614 764,193 1,537,728 21,659,015 20X,328,142,1 40X,528,262,1 24,120,267 *** **** **** ង 8 8888 Ş \$ 45,460 170,082 29,000 46,675 14,108 601,61 191,811 711,06 21,084 266,422 466,288 213,970 649,253 8,924 361,130 76,372 15,204 32,655 58,784 9,797 9,797 9,797 9,797 9,797 12,500 12,248 12,248 12,248 12,248 12,248 058,181 020,05£.12 74,955 13,881 541,475 344,575 2000 \$ 2000 \$ 2000 \$ 2000 \$ 2000 \$ \$ 51MC \$ 8 53 55 55 57 79 79 77 79 116 5 12 \$: 5 ŝ 1 5 0 5 15 Linear Foot Each Foot Foot Foot Foot 555 SW33.1 FUSRIE OSCONNECT, 2-ROLE, 4-WIRE, 740 W.C. HEKA 4/27, 4-EICA SW33.1 SWITCH IRD, VEE, 345KV/5000A W/ MOTCH OPFENTON Each SW353.2 SWITCH IRD, VEE, 345KV/5000A W/ MOTCH OPFENTOR Each 55555555555 1953.1 INSUMITOR POST, 1300KV EN. TAIGES, 7" B.C. TOP, 7" B.C. BO Each føg Foot Foot Foot JAJSJ.1 BREAKER, 3-POLE, 4-WIRE, 240VAC, 400A, WITH COPPER LUGS Each Ē ă ș ĕ CP351.B. MICHOWAVE SENSOR CP353-J. AWAITING LIST OF EQUIPAENT FROM GE CC353.1 4/C 930 CC353.2 1/C 46 CC353.2 1/C 46 CC353.5 16224 CC355.5 1827, CONNIG GUBPUE 742122020 SA353.1 SURGE ARRESTOR, MCOV 209KV F0353.1 GPS CLOCC, SL-2407 F0353.2 GE AVNGLEMUX SYSTEM F0353.2 RUGGEDOOM RV1500 FL353.1 Security Fence FL353.2 Security Light **Control and Protection System** Fiber Optics - Electronics Breakers-Capital Spares Switches-Capital Spares forers and thrunes Fending Lighting Surge Arrestors Control Cable Yard Condus thru lators Brakes Switcher ទ្លី 353 Total 36 353 929 353 353 353 555 333 353 8 ESE 351 ŝ 35 Capital Spares- 7 Line f fine-Gray to Tesla Cross Substation Cross Substation Cress Substation Crass Substation Cross Substation Gross Substation Cross Substation Grass Substation Cross Substation Cross Substation . Capital Spures Capital Spores

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40.93

638,436,957

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F354.1 Concrete Pier Foundation 3' Dlameter

Concrete Foundations

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EXHIBIT DAW-2 Page 28 of 37, services

Cross Years Transmission, LLC Calculation of Averaga Life by Account

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facility	Acct	Description	Unit Description						Avéraga
			F354.2 Concrete Pier Foundation 3.5' Diamote!	Eich	2 15	1.143.160	70		
			F354.3 Concrete Pier Foundation 4" Discreter	Each	202	2.075.662	2		
			F354.4 Concrete Pier foundation 4.5' Diameter	t de		2 CC7 Del	2 5		
•			F354.5 Concrete Plan Foundation S' Diamaree			1 00 400	2 #		
			F356.6 Concrete Plan Resurdation 4.5" the mater	1			2;		
			F354.7 Concrete Plac Foundation & Dumater	1		0101011	2 1		
			F354.8 Concrete Plan Foundation 6.5" Numeror		•	678'677	۲ ا		
			F354.9 Concrete PierFoundation 7 Diameter	Each	n v 7 E	065/117	2 2		
luber Gray to Testa	ž	Stael Towers			•		2		
			1344.1 TT-J	Each	2 \$	179 503	26	1 160 769 269	
			2-11 2-15ET	64	- 4	\$68 913	2		
			0E-TT C.P2ET	Fach	ž	(at our T	2		
			1354,4 17-45	1		JEN OLE T	5 5		
filme - Grav to V/hite Deer	5	footesta formed of farme	001/06-11 5.155LT		5 S	6,809,076	22		
	£								
			sabell Concrete Parts oundation 3. Durneter Cates y monotone biostronomicanes at non-non-	ţ,	\$ 0 2	•	2	255,472,761	
				12	\$ 85	1,403,774	8		
				ī	285	507,534	2		
			resold (and size Foundation 4.5) Diamolor Press and an and a foundation	- C	2	1,005,742	2		
			source concrete net roomdation y tuameter Safat s frammer olivitari dation y as Alivitari		12 5	652,554	2		
					0	•	2		
			same contact for success to a contraction of a firm that a second state of the second se	52	0 1 D 0		۶ :		
			F354.0 Concerts Pier Frankford Translation T Discussion			•	2		
line - Gray to White Deer	žž	Steel Yoners			^	•	R		
			1944.) TL-1		•		i		
				61	•••	203,187	R 1	667,150,530	
					5	210,660,5	2		
				6	00 1 Ph 1	1,977,830	۶.		
			T354.5 T1-96/100		.,	857"57/7"7	21		
line. Stivertan to Tests	35	Concrete Foundations			^	763,164,1	2		
			E354.1 Concrete Pier Ferrind Styles 3' Discontine	1			ł		
			F354.2 Concrete Nor Sourcestion 2 C Mismorts	5 1	0		۶ 1	501,215,151	
			F354.3 Condition Peer Foundation & Diamater	5	~ v 7 t	1,467,915	R J		
			F354.4 Concrete Division Martian 4 Chiemana		ŝ	1,436,912	21		
			F354.5 Concrete Plan Formutation S' Diameter		22	1,124,67,1	24		
			F354.6 Constrate Pier Source(telon 5.5° Discussor		2	2,012,754	R 1		
			F354.7 Concrete Pier Foundation C. Dismeter		• •	569'99T	2		
			2354.8 Concrete Pier Environment of Concrete State		 	67760	2		
			Factor of the foundation of the second s			301,612	2 :		
Ene-Stivetion in Tesli	354	Steel Towers			~ 0	-	6		
			1384.1 Th.4				;		
			T354.2 TT-5	inter a			5 \$	140'001'6/1'1	
			. 05.1T & \$25T	Each			2 4		
			1354.4 TT-45	192	• •	7 44C 675	2 \$		
			71545 TT-90/100	Tack -	- ×	A 010 245	2 \$		
becchi Soare e Tibee	354 1003				***	66,635,205	2	4.664.464.589	20.05
	ļ								
line-Gray to Tests	355	Pole Arms		(id	\$0 \$	1,969,001	8	118,140,054	
			ATCU I Hack Tan The Arm						
			ATA SIGNATION AND AND AND AND AND AND AND AND AND AN	Each 1	5 82	569,621,1	Ş.	91,494,776	
			A155.3 Heavy Tay Ton Arm	51		3,753,692	8 1	187,681,592	
			A155 d Haster Tao Retract Jam			160'540'E	8	152,254,550	
			ASS.5 Linkt Tencherware	51	638 S	6,130,558 T	8.3	316,922,906	
			A355.6 Heave Tan Opervian	5 3		058'11	R 1	3,592,436	
line-Gray to Testa	52	Concrete Foundations			4	159(04)	8	9.031,514	
			F355.3 Concrete Pier Foundation & Diameter	Erch	0 S		8	¢	
			F355.2 Concrete Pier Foundation 6.5' Diameter	Each	5		8		
			F355.3 Concrete Fier Foundation 7" Diameter	Each	5	•	: 8	. 0	
			F355.4 Concrete Pier Foundation 7.5" Diameter	the first	50	•	: 3	. 0	
			F3555 Contrate Ner Foundation # Diameter	E ach	5		: 5	· c	
					,		3	•	

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EXHIBIT DAW-2 Page 29 of 37,peedees1

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Cross Texas Transmission, LLC Calculation of Average Life by Account

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(addity	Acc	Description	Unit Description	1417 1	Qty Adjuster	d Mant Total - Usefu	i life S	Ave x U refui tife Servic	e Cite Se Cite
			#335.6 Concrete Pler Foundation & Diamates	fadi	5 0	•	8	G	
			F355.7 Concrete Plet Foundetion 10' Diameter	Each	5	1,437,353	3	85.241.208	
			F355.8 Concrete Pide Foundation []" Oismeter	Each	25	12,512	3	19,111,638	
Titne - Gray to Texus	355	Steel Pales	F355.5 Concrete Pier Foundation 12' Diameter	Each	6 5	•	\$	0	
			P355.1 TP-1L 80-85 2-Piece	1	4 F	- 410 mac	ŝ	101 101 111	
			P355.2 TP-11, 90-125 3-Piece	54	5 961	10.657.137	88	140,028,024	
			P355.3 TP-1L 13D-140 d-Piece	Ench	\$0	•	8	0	
			P355.4 TP-LM 80-130 3-Piece	Each	MO 5	25,452,142	8	927,125,549	
			P3555 TP-1H 135-1604 Phace	Each	\$ 8E	3,448,635	8	206,918,115	
			P355.6 7P-1H 100-125 3-Piece	Each.	16 \$	1,142,243	8	66.534,609	
			P355,7 TP-1H 130-160 4-Piece	Each	11 \$	1,077,486	8	66,6H2,134	
				Each -	5 0	156'555	8	33,235,855	
			The state is do 100 three and the state of the state is do 100 three state is do 100 three state stat	Each L	v, •	80%(6)%	8	32,964,457	
			1355-11 17-15 20-100 2-2052 2255 11 10-15 105-140 3-5-205	54	50	•	8	•	
						,	88	•	
			eserge 172-201 05-21 E1-55E9	1			3 9	2 <	
			P355.14 TP-40 60-105 2-Piece	Each	5 7	179,896	8 9	10,793.774	
			P355.15 1P-40 110.140 3-Piece	Each		224,796	8	13.727.25	
			P353.16 TP-55 40-105 2.Pecce	Each	50	•	8	Ð	
			PSSALT IP-55 Elo-115 Jupace Tare to the to be tore a dis-	55	5 - C	•	5	•	
			4291412 10-10 80-102 24494 	Each 1	5 4 6 1	,	8	ø	
			PISS IN TO BE ROUTED STREET	61	5	•	ទះ	• •	
			P355.71 [P.45 (05-)16 a.Ploce	61			8 8	•	
			P355.22 7P-100 80-100 2-Piece		• •	121 125	5 5	C13 200 11	
			P355.13 TP-100 105-115 3-PRece	Each		•	: 3		
Tline-Grav to While Deer	166	Concerns forced that a	P355.24 TP-FDE	Each	25	421,520	Ş	25,297,186	
			1 356 1 Assessed (12	i	•				
			raear a foncerus roer foundation o' Uningeron anno 2000. Sast a foncerus Diversion de la constante e ri anno 1000.				8	Ð	
			rated, concrete Mer roundation 6.5° Diameter Esta a manual- alla functioner e commune	Each I		•	g :	Ð	
			Labour Labouren Freiheiten der Schutzen und Schutzen Beiten und Schutzen Beiten ber eine Schutzen Beiten Be	5	•	\$	\$	Ð	
			readon turnaren eren panjar jun 2.3 jugnaziet 2255 e faarteete bûndarredinen of bûn milite	51	0	•	8 :	•	
			Check of Pressure of a Construction of the Con	5	0	•	8	•	
			roose waaren Mir roundation 31 hjalmeter 1966 it Overnete Parte madation 320 hjalmeter	5	5	611,619	8	16,097,145	
			F355.8 Contrate Dark Constitute 101 Nismanus	5 1		1,403,662	6 8	84,580,159	
			F355.9 Contrels Plet Foundation 12' Diameter	5	~ ~	875 810'1	88	60,811,709	
Thue. Gray to White Deer	355	Pole Arms		5	•	,	2	B	
			A355.1 tight Tan Top Am	Each	27 5	125,243	8	121,157	
			A355.2 Light Tan Bottom Aun	Cach	5 月	259,556	50	12,977,506	
			A355,3 Heavy Tan Top Arm	to a	286 5	1,655,241	8	\$2,752,163	
			ASSA PERTY AND BORDER ATTA	ţ,	\$ 767	3,379,917	3 :	168,9%6,863	
				Each	15	2,558	8	£68,17E	
Tillme-Gray to White Deer	355	Steel Polaz		Đ.	5	46,295	30	2,314,759	
			P355.1 TP-1(20-65 2-PMce	Each	5 T	56,712	3	3,402,725	
			P355.2 TP-11, 90-125 3-Piece	Each	\$ E1	851,091	3	51,065,465	
			P355.3 TP-1L 130-140 4-Piece	fach	5 0	•	2		
			P355A TP-IM 80-130 3-FRect		5	112351'5	8	309,402,545	
			1355,5 (P-1 M 115-160 4-Piece 4366 x 75 11 100 11 - 12 - 12 - 12 - 12 - 12 - 12	for s	5	969,165	8	58,149,698	
				ť.	5	1,601,003	60	96,060,158	
			russe a tota data tao tao tao tao tao tao tao tao tao	5.	37 5	3,870,368	3	106,652,265	
			ADDRAGE TO A DESCRIPTION OF A DESCRIPTIO	5	***	1961	8	4,436,607	
				5	2	195,572	8	15,734,343	
			Parts of the 15 the 14h to be a		16 1 11 1	111,455	8 :	6,687,788	
			1355.12 TF-30 80-100 2-Piece	then Turk	n 4 n 6	275'565	8 5	2012/02/02	
			P355.13 TP-30 105-140 3-Diace	1	~ U 7 f	361 36	75		
			P355.34 TP-40 80-105 2-Plece		-	641.091	8 8	11 E3E264	
			P355,15 TP-40 510-140 3-Pieco	Each		EEE'sb2	3 8	14 619 969	
					•		}		

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Page 30 of 37 Appendue 1 **EXHIBIT DAW-2**

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Cross Texas Trammission, LLC Enterthen of Average Life by Account

57.30 Avorage Service Life DEF'595'612'1 D 47,672,269 5,29,934,509 5,025,805 5,025,805 5,025,805 5,025,805 5,025,805 5,025,805 15,025 15,025 16,9114,624 16,912,189 69,203,351 12,213,608 23,025,912 27,015,025 66,686,666 138,869,114 148,495,773 311,464,618 8,112,885 8,112,885 0 0 0 0 0 0 0 0 90,765,707 20,114,571 101,271 15,400,870 188'641'87 86,143,811 29,321,698 5 × Useful Life **** Useful Life 3 225,568 \$31,E92 \$31,E9E \$22,024 1,323,733 2,777,362 2,969,915 6,229,296 82,258 190,942 785,287 84,313 84,313 84,313 12,624,514 13,62,614 24,64,244 24,64,244 24,64,244 23,953 239,538 11,163,306 Adjusted Plant Total 1,512,762 335,243 292,614 1,722,576 292'815 3,376 956'660'421 7,104 5 14,544 5 2 0 3 20 5 267 5 273 5 513 5 288 5 21 5 21 5 21 5 21 5 21 5 ~~~~ 5 1 ~ 0 0.0 -. . • £ 5 5555 5 Ē F351.3 Concrete Per Foundarten & Duemeur F352.3 Concrete Per Foundation S.J Duemeter F353.3 Concrete Per Foundation 7.D Immeter F355.4 Concrete Per Foundation 7.D Dumeter F355.5 Concrete Per Foundation D'Dumeter F355.7 Concrete Per Foundation D'Dumeter F355.7 Concrete Per Foundation D'Dumeter F355.8 Concrete Per Foundation D'Dumeter 4355.1 Light Tan Top Arm A355.2 Light Tan Botton: Arm A355.3 Heary Tan Ea Pur A355.4 Heary Tan Eaton Arm A355.8 Heary Tan OFGW Arm A355.6 Heary Tan OFGW Arm P355.16 71-55 80-105 24 Rev P355.17 19-72 80-105 25 Andrey P355.19 77-70 210-115 24 Andrey P355.17 78 45 105-115 24 Andrey P355.17 78 45 105-115 24 Rev P355.17 78-105 105-115 24 Rev P355.18 78-105 105-115 24 Rev P355.18 78-705 255.1 19-11 60-33 2-9 ker 255.2 19-20 - 150 - 153 - 166.4 255.2 19-21 120-210 4-9 ker 255.2 19-21 120-210 4-9 ker 255.2 19-21 120-210 4-9 ker 255.2 19-21 120-26 4-9 ker 255.2 19-21 120-26 4-9 ker 255.2 19-20 115-20 2-9 ker 255.2 19-20 115-21 2-9 ker 255.2 19-20 115-21 2-9 ker 255.2 19-20 115-21 2-9 ker 255.2 19-20 20 4.5 10 4 H356.1 Conductor Danoper H356.2 Conductor Spacer H356.3 Aerial Marker Baß H356.4 Anti-Galloping Device Unit Description Kardware: dampers, spaces), marker balls, bird diverters and etc. Capital Spares (Cond. Ins. OPGW) **Concrete Foundations** • Fiber Splice Kit Description Pole Arms Steel Poles **1ctot** ¥ 355 356 356 355 355 336 Nine-Sikerton Ib Tesla The-Silverton to Tesla line - Siverton to Tesia Capital Spares- 7 Line Titne- Gray to Testa Tilner Gray to Teska VEP-5

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3,327,873

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83,197

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FS356.1 Fiber Optic Splice Box

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Cross Tecco Dansmission, LLF. Calculation of Average Life by Account

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Factor -	IJ	Description	unit bescription	tat Uat	tty Adjun	ed Plant Total Ve	afai tife	S w tikefur e ile	Averaçe Service I Xe
Nine-Gray to Tesla	ž	Insulators							
Titte Gray to Tech	ž	Pole ಶ್ರುಯಾಡನಿಕ್ಕೆ ಸಾಡೆ ಕ್ಷಣವಾಗಿದೆ rods	1356.1 Polymer losubtar	Each	5 001'1	3,216,312,5	8	36,504,545	
lâne-Gray to Testo	356	Supply Conductor	G356.1 Ground Rod	Ed.	\$ 909	275,240	\$	13,762,001	
lkas-Gay ta Tech	356	Shekid Write	C256.1 1590 54/19 ACSS C256.2 ACCR	Linear Foot Linear Foot	606240 S 57024 S	58,364,591 2,816,900	88	392,052,819,5 342,042,041	
Wne-Gray to VrhRe Drer	356	ltardwares dampers, sostens, market tallt, blad dwartsv sovi are	SW356.1 7t3 Alumoweld SW356.2 OPGW, AIL CC-75/52B	Línear Foot Línear Foot	\$ 028278 \$ 028578	1,303,010 1,743,677	B 8	25,120,416 51,120,416	
			H356.1 Conductor Osmper H356.1 Conductor Spacer	10 - 5 m 10 - 5 m 10 - 5 m	5 0025 5200 \$	220,321 425,906	Q, Q	6,609,618 12,777,140	
Sine. Gray to White Deer	356	Fiber Solice Kr	H3553 Acrial Marker Ball H3564 AnthGsilopúng Device	fe eg	5 07E	3,813	5 R	0	
Une-Gray to White Deor	356	interimentations and the second se	F3356.3 Fiber Optic Splice Box	Each	15 \$	3E,133	50	1,445,319	
hne-Gray to White Orer	356	foi= grounding and ground tods	1336.4 Polymer Inculator	(act	\$ 0257	1,299,488	0F	38,984,632	
Tine- Gray to White Deer	356	Supply Conductor	G356.1 Ground Rod	Each	\$ 05Z	182,756	8	9,139,315	
Bne-Gray to Vihite Deer	355	Shie (d. Wree	C356.1 1590 54/19 ACSS	Umear Foot 2	\$7760 S	22,603,329	8	1,130,166,448	
Rine-Séverton to Tesla	356	Hərdivaret dəmpetit, statotes, irtsi ker bağlı, hind dövrrərə ənd ə.i.	SW356.1 748 Alumowek SW356.2 OPGW, AH (CC75/528	Linear Foot 2	(6480 S	561,225 J,604,724	9 9	22,448,999 54,[28,963	
			14361. Carductor Damper 14362. Conductor Suser 14363. Aerixi Mariner Bull	555	5610 \$ 11610 \$	448,426 871,480	883	13,454,565 26,144,413	
line-Silverton to Texta	356	Fiber Spike Kit	H356.4 Anti-Galboring Davico	2 5	3205	3,695	R 9	110,849	
tine: Silverton to Testa	135	in sylatecs	f3356.1 Fiber Optic splice Box	Each	15 \$	58,315	4	220 MGC 2	
line-Solventon to Tesla	355	Fole grounding and ground roda	1356.1 Polymer Insulator	Each	5 687 \$	202'262'2	8	191,3865,197	
line. Silverton to Texia	356	Supply Canductor	G356.1 Ground Rod	Ŕ	470 \$	112,281	2	9,485,852	
line-Silverton to Tesla	356	Shield Wree	C35&1 1590 54/19 AC55	Linear Foot 33	12320 \$	48,053,444	8	2,402,572,190	
للمعا لأتحاله العيلم	356 Total 353	start fina strees	14354.1 788 Alimoweld NV3542 OPGW, Art CC75/528	Linear Fool 25 Unter Fool 25	2 09 E8 2 03 E8 2 2 2	1,146,344 5,793,172 156,856,273	40 40	45,773,746 131,726,863 7,508,339,608	18.12
line-Gray to White Dave	359	ទ្រែទង៨ន ឧកសំ 7ខេរវ័ង	359.1 Gravel Dr.Wa	Linear Foot	4 5-	1,520,632	20	1067,720,201	
^g n e - Silvertôn to Terla	359	Rosds ३७d Traffs	359.1 Gravel Orbue	Linesr Foot	s	£77,2119	5	201,401,43	
	359 Total		3\$9.1 Gravel Drive	Unear Foot	VI VI	1,475,634 912,512,E	92	103,298,581 273,850,413	00'02
	383 303 Total	Computer Saftware			~ ~	661,16 601,16	9	066,776 049,776	
	384 384 Tolul	Communications Equipment			17 V	1,507,541	•	6,030,165	
eld Difter Amariko	166	Oline fumitura & Equipment			•			cotrinenia	1
ಕೇಡ ಲಗ್ಗೊಂಕ ನಿರ್ಗಾಟಂ	192 Total 292	Transportation Equipment	Need List	Each	20% 20%	150,000 150,000	#5	1,200,000 1,209,000	8 .8
			2010 Chavy Avalanche JGMATEOLAG299403	Each	1 \$	26E°29	1 2	329,135	

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> . Crou Traat Transmission, U.C Calculation of Averuge Life by Account

8 8.00 Aversee Service Life 557,875 567,825 577,825 577,825 577,825 577,825 578,825 578,825 578,825 598,855 598,825 597,82 600,000 \$ rusefullie usefuction 30,592 31,596 26,591 26,591 26,591 26,591 26,195 26,182 26 75,000 75,000 Idol I Adjusted Plant **«អ្នកខ្លះក្ខភកក្ខភកក្ខភកក្ខភា នេត្ត ប្រលាសស្ត្រសាលស្គាលស្គាលស្គាល់ស្គាល់ស្គាល់ស្គាល់ស្គាល់លំណូលលំណូលំណូលំណូលំណូ** нчанкаленинының ÷ € 뿔 2011 Chevy Havendo 5 GCPKE3 19G20065 2011 Chevy Havendo 5 GCPKE3 19G20065 2011 Chevy Shrendo 5 GCPKE3 18G20053 2011 Chevy Shrendo 1 GCRE(LANSL15 912 2011 Chevy Shrendo 1 GCRE(LANSL15 915 2011 Chevy Shrendo 1 GCRE(LANSL15 915 2011 Chevy Shrendo 1 GCRE(LANSL13 9 Chrens - Kodek KCG(Vr)2202030 Chrens - Sway (K 15, 8 Chrens - Sway (K 15, 8 Chrens - Koda (KCG(Vr)2202015 Chrens - Koda (KCG(Vr)2200025 Chrens - Koda (KCG(Vr)2200025) Chrens - Koda (KCG(Vr)220025) Chrens - KCG (KCG (KCG (KCG) Unit Description Need List Stores equipment Phane Equipment Description 392 Total 393 \$93 Yotal 397 ų, Amariko - Storeroom Field Office Amarilio Ficht

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APPENDIX B-2

Calculation of Average Life of Tangible Assets

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Appendix B-2

Cross Texas Transmission, U.C Calculation of Average Life of Tangible Assets For Use in Amortization of Accounts 301 and 302

		Total	Average		
Act	Description	Project Cost	tife	\$ x Ave Lite	Average Life
350.2 Total	Land Rights	36,432,798	70.00	2,550,295,854	
352 Total	Structures and Improvements	6.781.132	28 96	105 291 400	
353 Total	Station Equipment	52 376 050	20 U 0		
354 Total	Towers and Fintures			177°C0/'T47'7	
DEC TAM		ons'cenino	10,00	9,004,404,509	
19101 000	Poles and Fixtures	127,039,956	57.30	7,279,389,497	
356 Total	OH Conductors and Devices	156,856,179	47.87	7.508,705,311	
359 Total	Roads and Trails	3,912,149	70,00	273,850,419	
383 Total	Computer Software	37,793	10.00	OFP.TTE	
384 Fotal	Communication Equipment	1,507,541	4.00	6.030.165	
391 Total	Office Furniture and Equipment	150,000	8.00	1,200.000	
392 Total	Transportation Equipment	448,505	8.00	3,588,042	
393 Total	Stores Equipment	75,000	8.00	600,000	
397 Total	Communication Equipment	23,340	4.00	93,360	
lotal		452,225,653		24,626,681,972	54.46

* Excludes intangibles and Land

EXHIBIT DAW-5 Page 35 of 37 APPENDIX C Calculation of Net Salvage Percentages

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Cross Texas Transmission, LLC Calculation of Net Salvage Percentages

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	Average	20 3 6 1 1 K 8	
	Sum of AU	-18% -48% -80% -151% -151% -331%	
Ę	SS	57% 57% 57%	
AEP N	5	75 R3.0 50 L4 D 54 R0.5 85 R3 85 R3 85 R3 50 S5	32310
1	2	66755	
AEP Cent	3	75 R50 55 L1.0 82 L0.5 81 S3 70 R1.0 76 R3.0	50276
ic Service	SK	25 26 26 26 26 26 26 26 26 26 26 26 26 26	
SW Publ	2	70R4 55R5 55R5 55R5 55R5 48R5 48R5 58R5	38147
	ž	58 58 68 68	0
ELFASO	LĂB	70 R4 55 S3 65 R3 60 S4 50 S4	5769 2
20	SN	*0 * 1 · 0 * * *	
SWE	ŝ	70 RS 60 SS 60 R2 5 55 R4 55 R4 50 S1 5	37384
2	ыs	8 4 6 5 5 5	meters h greemen om old Js
Enter	e		744 Frgy pare lement a trates fre by in 1990
	ت ا		art finte frept frept frept
đ	ŝ	0 11200 9 6888	
INT	ŝ	የ አቆሪያ የ ይፍድፍ	344 60
편	SN	80 85 85 85 85 85 85 85 85 85 85 85 85 85	
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	Factors Used in Estimatin	ng Depreciation Charges for
	Ассо	unt 357
Company*	Average Service Life	Net Salvage Percentage
AEP Oklahoma Transmission Company, Inc.	45	
Alaska Electric Light and Power Company	50	-5.00%
American Transmission Company LLC	60	-20.00%
American Transmission Systems, Incorporated	60	-20.00%
Arizona Public Service Company	60	
Atlantic City Electric Company	50	
Avista Corporation	60	
Black Hills/Colorado Electric Utility Company, LP	45	
Central Hudson Gas & Electric Corporation	40	
Chugach Electric Association, Inc.	37.5	
Cleveland Electric Illuminating Company, The	60	-20.00%
Consolidated Edison Company of New York, Inc.	70	-15.00%
Delmarva Power & Light Company	40	
Emera Maine	70.95	1.00%
Florida Power & Light Company	65	
Georgia Power Company	80	
International Transmission Company	60	
ITC Great Plains, LLC	55	-5.00%
ITC Midwest LLC	60	
Jersey Central Power & Light Company	60	
Kansas Gas and Electric Company	65	
Massachusetts Electric Company	49.55	0.16%
MDU Resources Group, Inc.	50	
Michigan Electric Transmission Company LLC (10/06)	60	
Mississippi Power Company	45.4	28.10%
Nevada Power Company, d/b/a NV Energy	55	
New England Electric Transmission Corporation	20	
New England Power Company	60	0.42%
Ohio Edison Company	60	
Oncor Electric Delivery Company LLC	50	-10.00%
Orange and Rockland Utilities, Inc	35	
Pacific Gas and Electric Company	65	
PECO Energy Company	65	
Pennsylvania Power Company	45	
The Potomac Edison Company	51	-7.50%
PPL Electric Utilities Corporation	55	
Public Service Company of New Mexico	45	-5.00%
Rockland Electric Company	60	
Sierra Pacific Power Company d/b/a NV Energy	60	
Southern California Edison Company	55	
Southern Indiana Gas and Electric Company	50	
Southwestern Electric Power Company	50	
The Narragansett Electric Company	50	
The United Illuminating Company	48	
Toledo Edison Company, The	60	-20.00%
Trans Bay Cable LLC	40	
UGI Utilities, Inc.	50	
Vermont Transco LLC	45	0.10%
Westar Energy, Inc.	55	

Industry Average	53.62040816	-6.514667%
Rounded Industry Average	54 years	-7%

Calculation of Industry Average Depr	reciation Rate for Account 357
Depreciation Rate =	(1-Net Salvage Percentage) / Average Life
=	(1-(-0.07)) / 54
=	1.07/54
=	0.019814815
LS Power Depreciation Rate for Account 357	1.98%

* Data compiled from 49 companies that list depreciation parameters for Account 357 in their respective FERC Form 1 filings for Q4 2018. Of these, 49 companies include an average service life for Account 357, and 15 include a net salvage percentage.

	Factors Used in Estimating Depreciation Charges for Account 358	
Company*	Average Service Life	Net Salvage Percentage
AEP Oklahoma Transmission Company. Inc.	45	
Alaska Electric Light and Power Company	30	
ALLETE, Inc.	50	
American Transmission Company LLC	50	-28.00%
American Transmission Systems, Incorporated	49	
Arizona Public Service Company	60	15.00%
Atlantic City Electric Company	39	10.00%
Avista Corporation	50	
Black Hills/Colorado Electric Utility Company J.P.	45	
Central Hudson Gas & Electric Corporation	50	-5.00%
Chugach Electric Association. Inc.	32	5.0070
Cloveland Electric Illuminating Company, The	52	
Creverand Electric multimating company, the	50	15.00%
	60	-15.00%
Consumers Energy Company	46	-25.00%
Emera Maine	40	1.00%
Emera Maine	69.41	1.00%
Florida Power & Light Company	65	-20.00%
	54	
Guit Power Company	45	10.000/
International Transmission Company	60	-10.00%
ITC Great Plains, LLC	55	
ITC Midwest LLC	60	-10.00%
Jersey Central Power & Light Company	50	
Kansas Gas and Electric Company	49	
Massachusetts Electric Company	41.81	-0.29%
MDU Resources Group, Inc.	50	
Metropolitan Edison Company	40	
Michigan Electric Transmission Company LLC (10/06)	60	-10.00%
Mississippi Power Company	45.4	28.10%
Nevada Power Company, d/b/a NV Energy	45	
New England Electric Transmission Corporation	20	
New England Power Company	45	0.37%
Niagara Mohawk Power Company	75	
Ohio Edison Company	45	10.00%
Oklahoma Gas and Electric Company	40	-50.00%
Oncor Electric Delivery Company LLC	40	-10.00%
Orange and Rockland Utilities, Inc	33	
Otter Tail Power Company	42.08	-5.00%
Pacific Gas and Electric Company	55	-10.00%
PECO Energy Company	60	
Pennsylvania Electric Company	35	
Pennsylvania Power Company	40	
The Potomac Edison Company	44	-12.50%
PPL Electric Utilities Corporation	45	
Rockland Electric Company	50	
Sierra Pacific Power Company d/b/a NV Energy	50	
Southern California Edison Company	40	-15.00%
Southern Indiana Gas and Electric Company	35	
Southwestern Electric Power Company	50	
The Narragansett Electric Company	40	
The United Illuminating Company	50	
Toledo Edison Company, The	35	
Trans Bay Cable LLC	40	
UGI Utilities, Inc.	40	
Vermont Transco LLC	45	0.20%

West Penn Power Company	40	
Westar Energy, Inc.	40	
Industry Average	46.66140351	-8.14857%
Rounded Industry Average	47 years	-8%

Calculation of Industry Average Depreciation Rate for Account 358		
Depreciation Rate = (1-Net Salvage Percentage) / Average Life		
= (1-(-0.08)) / 47		
= 1.08/47		
= 0.022978723		
LS Power Depreciation Rate for Account 358	2.30%	

* Data compiled from 57 companies that list depreciation parameters for Account 358 in their respective FERC Form 1 filings for Q4 2018. Of these, 57 companies include an average service life for Account 358, and 21 include a net salvage percentage.

UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

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LS POWER GRID NEW YORK CORPORATION I

Docket No. ER20-___-000

AFFIDAVIT

DANE A. WATSON, being duly sworn, deposes and states: that the foregoing Direct Testimony and Exhibits of DANE A. WATSON was prepared by me or under my direct supervision, and that the statements contained therein and the Exhibits attached thereto are true and correct to the best of my knowledge and belief.

Wan Q. Vat

Dane A. Watson

Subscribed and sworn before me this 14th day of November 2019.

[Name] Notary Public My commission expires: [date] September 17, 2023

