BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION

IN THE MATTER OF SOUTHWESTERN PUBLIC SERVICE COMPANY'S APPLICATION REQUESTING: (1) ISSUANCE OF A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY AUTHORIZING CONSTRUCTION AND OPERATION OF THE EDDY COUNTY TO KIOWA 345-KV TRANSMISSION LINE AND ASSOCIATED FACILITIES; (2) APPROVAL OF THE LOCATION OF THE 345-KV TRANSMISSION LINE AND ASSOCIATED FACILITIES; (3) DETERMINATION OF RIGHT-OF-WAY WIDTH FOR THE TRANSMISSION LINE; AND (4) AUTHORIZATION TO ACCRUE AN ALLOWANCE FOR FUNDS USED DURING CONSTRUCTION FOR THE TRANSMISSION LINE AND ASSOCIATED FACILITIES,	)	
SOUTHWESTERN PUBLIC SERVICE COMPANY,	)	**CASE NO. 19-00157-UT**
APPLICANT.	)	

SOUTHWESTERN PUBLIC SERVICE COMPANY'S ERRATA NOTICE

In accordance with New Mexico Public Regulation Commission ("Commission") Rule 1.2.2.37(G)(2) NMAC, Southwestern Public Service Company ("SPS") files this Errata Notice to correct an error identified in the Direct Testimony of Jarred C. Cooley. Specifically, at page 20, line 7, there is an error in the illustrative projection of the estimated cost of the proposed Eddy County to Kiowa 345-kV transmission line and associated facilities that would be allocated to SPS's New Mexico retail customers. Mr. Cooley incorrectly states that SPS's New Mexico retail customers would be allocated 2.03% or approximately $2.14 million. However, 2.03%[1] of the

[1] Percentage calculated based on New Mexico jurisdictional allocation and the SPP's Highway/Byway cost allocation methodology.

estimated $60.8 million total cost is approximately $1.23 million – not $2.14 million as shown in Mr. Cooley's testimony.

In addition to this error, Commission Utility Division Staff's ("Staff") requested that SPS include SPS witness Jerry G. Crawford's New Mexico Professional Engineer seal/stamp and signature on pages 2-4 of Attachment JGC-1 (Required Right of Way Width analysis). For completeness, all four pages of Attachment JGC-1 will be replaced to reflect Mr. Crawford's seal and signature as of June 6, 2019.

By this Errata Notice, SPS is attaching replacement pages reflecting the correction to Mr. Cooley's direct testimony and the updated Attachment JGC-1 to Mr. Crawford's direct testimony as Exhibit A. SPS is providing both a legislatively formatted (*i.e.,* red-lined) and clean version of the corrected pages, and is serving a copy of the Errata Notice on the Commission's Utility Division Staff and all parties listed on the certificate of service in this case so that the corrected pages can be inserted in the original filing and service copies.

Respectfully submitted,

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ATTORNEYS FOR SOUTHWESTERN PUBLIC SERVICE COMPANY

EXHIBIT A

For illustrative purposes, using the jurisdictional allocators filed in SPS's most recent New Mexico retail base rate case (Case No. 17-00255-UT), approximately 18% of SPS's total company costs would be allocated to New Mexico retail, 46% to Texas retail customers, and 36% to SPS's wholesale customers.

Under this illustrative projection, SPS's New Mexico retail customers would be responsible for approximately 2.03% of the estimated $60.8 million total cost (approximately $1.232.14 million) for the Proposed Project (i.e., 18% of 11.29% of the total estimated cost allocated to SPS). The actual allocated amount in future SPS New Mexico retail rate cases will differ from this estimated amount and will depend upon final actual costs for the Proposed Project, the SPP funding allocation, and the jurisdictional allocations used in a future rate case.

Q. Does this conclude your pre-filed testimony?

A. Yes.

Case No. 19-____-UT
Direct Testimony
of
Jarred J. Cooley

For illustrative purposes, using the jurisdictional allocators filed in SPS's most recent New Mexico retail base rate case (Case No. 17-00255-UT), approximately 18% of SPS's total company costs would be allocated to New Mexico retail, 46% to Texas retail customers, and 36% to SPS's wholesale customers.

Under this illustrative projection, SPS's New Mexico retail customers would be responsible for approximately 2.03% of the estimated $60.8 million total cost (approximately $1.23 million) for the Proposed Project (i.e., 18% of 11.29% of the total estimated cost allocated to SPS). The actual allocated amount in future SPS New Mexico retail rate cases will differ from this estimated amount and will depend upon final actual costs for the Proposed Project, the SPP funding allocation, and the jurisdictional allocations used in a future rate case.

Q. Does this conclude your pre-filed testimony?

A. Yes.

REQUIRED RIGHT OF WAY WIDTH

Project Name: J24 Eddy County to Kiowa
Project Engineer: Jerry G. Crawford P.E.

Date: March 12, 2019

Structure Disc: H-Frame Tangent Structures

Conductor: 795 MCM ACSS Drake
Diameter (in): 1.108
Weight (lb/ft): 1.093

Insulator Length (ft): 13.3125
Wind/Weight Span Ratio: 1.0

Wind Loading Conditions
6 psf (48.4 mph) @ 60 Deg. F (1)
Extreme Wind 90 mph (20.74 psf) @ 60 Deg. F (2)

Conductor Swing =	26.87 Degrees	48.4 MPH Wind	6.00 psf
Conductor Swing =	60.29 Degrees	90 MPH Wind	20.74 psf
Insulator Swing =	26.87 Degrees	48.4 MPH Wind	6.00 psf
Insulator Swing =	60.29 Degrees	90 MPH Wind	20.74 psf

Ruling Span Length (ft)	Maximum Span Length (ft)	Maximum Span Sag (ft)	Horiz. Displac. (ft)	Structure Ht. (3) (ft)	Structure Type (4)	1/2 Str. Width (ft)	Structure Deflection (5) %	Structure Deflection (5) (ft)	Electrical Clearance (ft) (6)	Min. ROW Width (ft)	(7)
6 psf (48.4 mph) @ 60 deg. F											
1000	900	21.14	15.57	106.00	H-Frame	30	2	2.12	14.0	121.26	
1000	1000	26.12	17.82	106.00	H-Frame	30	2	2.12	14.0	125.76	
1000	1100	31.60	20.30	106.00	H-Frame	30	2	2.12	14.0	130.71	
Extreme Wind 90 mph (20.74 psf) @ 60 Deg. F											
1000	900	22.94	31.49	106.00	H-Frame	30	3	3.18	1.8	129.76	+
1000	1000	28.34	36.18	106.00	H-Frame	30	3	3.18	1.8	139.14	+
1000	1100	34.29	41.35	106.00	H-Frame	30	3	3.18	1.8	149.47	+
Summary for Required Right-of-Way Width											
1000	900	22.94	31.49	106.00	H-Frame	30	3	3.18	1.8	129.76	
1000	1000	28.34	36.18	106.00	H-Frame	30	3	3.18	1.8	139.14	
1000	1100	34.29	41.35	106.00	H-Frame	30	3	3.18	1.8	149.47	

Notes:
(1) Per NESC Section 234A2
(2) Per NESC Section 250C
(3) Required height to supporting arm of top or critical phase for horizontal clearance at at maximum span length under loading condition
(4) Structure type being considered
(5) Structure deflections are based on the % entered and the height (Ht.)
(6) Electrical clearance under 6 psf wind case (48.4 mph) based on NESC Rule 234A2 plus Xcel Energy design buffer
Electrical clearance under the Extreme Wind case should provide enough air gap space to withstand 60-HZ flashover
(7) + Indicates limiting condition

6/6/2019

PLS-CADD Version 15.30x64 4:46:30 PM Tuesday, March 12, 2019
Xcel Energy
Project Name: 'C:\Users\Public\Documents\PLS\pls_cadd\examples\projects\J24_ROW_Study.don'

Criteria Notes:

XCEL ENERGY PLS-CADD Criteria File (.cri) Version 2

****Version History****

06/28/2018 Version 0 - Initial version for general review
07/27/2018 Version 1 - First release version (updated insulator swing criteria)
01/05/2019 Version 2 - Added insulator swing weather cases for PSC Front Range Wind Speeds

****This criteria file is based on XCEL ENERGY Design Criteria as outlined in the following documents****

**** XEL-STD-TRANSMISSION LINE STRUCTURAL LOADING CRITERIA, Version 1.2
**** XEL-STD-TRANSMISSION LINE CLEARANCE CRITERIA, Version 2.2
**** XEL-STD-DESIGN GUIDE FOR TRANSMISSION LINE CONDUCTOR, Version 1.0
**** XEL-STD-CRITERIA FOR END & DESIGN FOR FOUNDATION DEFLECTION AND ROTATION DESIGN, Version 2.0
**** XEL-STD-DESIGN GUIDE FOR TRANSMISSION LINE INSULATORS, Version 2.0
**** XEL-POL-FACILITY RATING METHODOLOGY, Version 10.1

6/6/2019

Section Sagging Data

Circuit No.	Sec.	Cable File Name	From Str.	To Str.	Voltage (kV)	Ruling Span (ft)	Sagging Data: Condition	Temp. (deg F)	Catenary Constant (ft)	Horiz. Tension (lbs)	Weather Case	Display: Condition	Catenary Constant (ft)
1		drake_acss.wir	1	11	345	1002.4	Initial RS	60.0	5410.7	5916.1	392° F	Creep RS	3332.7

Sag Tension Report For 900 Foot Span

Note: Maximum tensions and sags are for the indicated span (not for level ruling span)

Sec. No.	Sag Tension Type	Wind From	--Span From-- Str.	Set	Ph.	---Span To-- Str.	Set	Ph.	#	Weather Case Description	--Cable Load-- Hor.	Vert	Res.	Initial Cond. Max. Tens. (lbs)	Hori. Tens. (lbs)	Max Ten %UL	C (ft)	Span Sag (ft)	Final Cond. After Creep Max. Tens. (lbs)	Hori. Tens. (lbs)	Max Ten %UL	C (ft)	Span Sag (ft)	Final Cond. After Load Max. Tens. (lbs)	Hori. Tens. (lbs)	Max Ten %UL	C (ft)	Span Sag (ft)
											-Load- (lbs/ft)																	
1	RS	Right	6	5	1	7	5	1	2	NESC 250C (90 MPH)	1.55	1.09	1.90	8418	8375	33	4417	22.94	8418	8375	33	4417	22.94	8418	8375	33	4417	22.94
1	RS	Right	6	5	2	7	5	2	2	NESC 250C (90 MPH)	1.55	1.09	1.90	8418	8375	33	4417	22.94	8418	8375	33	4417	22.94	8418	8375	33	4417	22.94
1	RS	Right	6	5	3	7	5	3	2	NESC 250C (90 MPH)	1.55	1.09	1.90	8418	8375	33	4417	22.94	8418	8375	33	4417	22.94	8418	8375	33	4417	22.94
1	RS	Right	6	5	1	7	5	1	25	NESC BLOWOUT (60° F - 6 PSF)	0.55	1.09	1.23	6393	6370	25	5197	19.50	6393	6370	25	5197	19.50	5900	5874	23	4792	21.14
1	RS	Right	6	5	2	7	5	2	25	NESC BLOWOUT (60° F - 6 PSF)	0.55	1.09	1.23	6393	6370	25	5197	19.50	6393	6370	25	5197	19.50	5900	5874	23	4792	21.14
1	RS	Right	6	5	3	7	5	3	25	NESC BLOWOUT (60° F - 6 PSF)	0.55	1.09	1.23	6393	6370	25	5197	19.50	6393	6370	25	5197	19.50	5900	5874	23	4792	21.14

PLS-CADD Version 15.30x64 4:57:44 PM Tuesday, March 12, 2019
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Criteria Notes:

XCEL ENERGY PLS-CADD Criteria File (.cri) Version 2

****Version History****

06/28/2018 Version 0 - Initial version for general review
07/27/2018 Version 1 - First release version (updated insulator swing criteria)
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**** XEL-POL-FACILITY RATING METHODOLOGY, Version 10.1

6/6/2019

Section Sagging Data

Circuit Sec. No.	Cable File Name	From Str.	To Str.	Voltage (kV)	Ruling Span (ft)	Sagging Data: Condition	Temp. (deg F)	Catenary Constant (ft)	Horiz. Tension (lbs)	Weather Case	Display: Condition	Catenary Constant (ft)
1	drake_acss.wir	1	11	345	1000.2	Initial RS	60.0	5410.7	5916.1	392° F	Creep RS	3329.0

Sag Tension Report For 1000 Foot Span

Note: Maximum tensions and sags are for the indicated span (not for level ruling span)

Sec. No.	Sag Tension Type	Wind From	--Span From- Str.	Set	Ph.	---Span To-- Str.	Set	Ph.	#	Weather Case Description	--Cable Load-- Hor. (lbs/ft)	Vert (lbs/ft)	Res. (lbs/ft)	Initial Cond. Max. Tens. (lbs)	Hori. Tens. (lbs)	Max Ten %UL	C	Span Sag (ft)	Final Cond. After Creep Max. Tens. (lbs)	Hori. Tens. (lbs)	Max Ten %UL	C	Span Sag (ft)	Final Cond. After Load Max. Tens. (lbs)	Hori. Tens. (lbs)	Max Ten %UL	C	Span Sag (ft)
1	RS	Right	6	5	1	7	5	1	2	NESC 250C (90 MPH)	1.55	1.09	1.90	8426	8372	33	4415	28.34	8426	8372	33	4415	28.34	8426	8372	33	4415	28.34
1	RS	Right	6	5	2	7	5	2	2	NESC 250C (90 MPH)	1.55	1.09	1.90	8426	8372	33	4415	28.34	8426	8372	33	4415	28.34	8426	8372	33	4415	28.34
1	RS	Right	6	5	3	7	5	3	2	NESC 250C (90 MPH)	1.55	1.09	1.90	8426	8372	33	4415	28.34	8426	8372	33	4415	28.34	8426	8372	33	4415	28.34
1	RS	Right	6	5	1	7	5	1	25	NESC BLOWOUT (60° F - 6 PSF)	0.55	1.09	1.23	6399	6370	25	5197	24.07	6399	6370	25	5197	24.07	5904	5872	23	4790	26.1
1	RS	Right	6	5	2	7	5	2	25	NESC BLOWOUT (60° F - 6 PSF)	0.55	1.09	1.23	6399	6370	25	5197	24.07	6399	6370	25	5197	24.07	5904	5872	23	4790	26.1
1	RS	Right	6	5	3	7	5	3	25	NESC BLOWOUT (60° F - 6 PSF)	0.55	1.09	1.23	6399	6370	25	5197	24.07	6399	6370	25	5197	24.07	5904	5872	23	4790	26.1

PLS-CADD Version 15.30x64 4:52:56 PM Tuesday, March 12, 2019
Xcel Energy
Project Name: 'C:\Users\Public\Documents\PLS\pls_cadd\examples\projects\J24_ROW_Study.don'

Criteria Notes:

XCEL ENERGY PLS-CADD Criteria File (.cri) Version 2

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JERRY G. CRAWFORD
NEW MEXICO
10143
PROFESSIONAL ENGINEER

6/6/2019

Section Sagging Data

Circuit Sec. No.	Cable File Name	From Str.	To Str.	Voltage (kV)	Ruling Span (ft)	Sagging Data: Condition	Temp. (deg F)	Catenary Constant (ft)	Horiz. Tension (lbs)	Weather Case	Display: Condition	Catenary Constant (ft)
1	drake_acss.wir	1	11	345	1002.5	Initial RS	60.0	5410.7	5916.1	392° F	Creep RS	3332.7

Sag Tension Report For 1100 Foot Span

Note: Maximum tensions and sags are for the indicated span (not for level ruling span)

Sec. No.	Sag Tension Type	Wind From	--Span From-- Str.	Set	Ph.	---Span To-- Str.	Set	Ph.	#	Weather Case Description	--Cable Load-- Hor. (lbs/ft)	Vert (lbs/ft)	Res. (lbs/ft)	Initial Cond. Max. Tens. (lbs)	Hori. Tens. (lbs)	Max Ten %UL	C (ft)	Span Sag (ft)	Final Cond. After Creep Max. Tens. (lbs)	Hori. Tens. (lbs)	Max Ten %UL	C (ft)	Span Sag (ft)	Final Cond. After Load Max. Tens. (lbs)	Hori. Tens. (lbs)	Max Ten %UL	C (ft)	Span Sag (ft)
1	RS	Right	6	5	1	7	5	1	2	NESC 250C (90 MPH)	1.55	1.09	1.90	8440	8375	33	4417	34.29	8440	8375	33	4417	34.29	8440	8375	33	4417	34.29
1	RS	Right	6	5	2	7	5	2	2	NESC 250C (90 MPH)	1.55	1.09	1.90	8440	8375	33	4417	34.29	8440	8375	33	4417	34.29	8440	8375	33	4417	34.29
1	RS	Right	6	5	3	7	5	3	2	NESC 250C (90 MPH)	1.55	1.09	1.90	8440	8375	33	4417	34.29	8440	8375	33	4417	34.29	8440	8375	33	4417	34.29
1	RS	Right	6	5	1	7	5	1	25	NESC BLOWOUT (60° F - 6 PSF)	0.55	1.09	1.23	6405	6370	25	5197	29.13	6405	6370	25	5197	29.13	5913	5874	23	4792	31.60
1	RS	Right	6	5	2	7	5	2	25	NESC BLOWOUT (60° F - 6 PSF)	0.55	1.09	1.23	6405	6370	25	5197	29.13	6405	6370	25	5197	29.13	5913	5874	23	4792	31.60
1	RS	Right	6	5	3	7	5	3	25	NESC BLOWOUT (60° F - 6 PSF)	0.55	1.09	1.23	6405	6370	25	5197	29.13	6405	6370	25	5197	29.13	5913	5874	23	4792	31.60

Attachment JGC-1(Errata)
June 13, 2019
Case No. 19-00157-UT
Page 4 of 4

BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION

IN THE MATTER OF SOUTHWESTERN PUBLIC SERVICE COMPANY'S APPLICATION REQUESTING: (1) ISSUANCE OF A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY AUTHORIZING CONSTRUCTION AND OPERATION OF THE EDDY COUNTY TO KIOWA 345-KV TRANSMISSION LINE AND ASSOCIATED FACILITIES; (2) APPROVAL OF THE LOCATION OF THE 345-KV TRANSMISSION LINE AND ASSOCIATED FACILITIES; (3) DETERMINATION OF RIGHT-OF-WAY WIDTH FOR THE TRANSMISSION LINE; AND (4) AUTHORIZATION TO ACCRUE AN ALLOWANCE FOR FUNDS USED DURING CONSTRUCTION FOR THE TRANSMISSION LINE AND ASSOCIATED FACILITIES,	**CASE NO. 19-00157-UT**
SOUTHWESTERN PUBLIC SERVICE COMPANY,	
APPLICANT.	

CERTIFICATE OF SERVICE

I certify that true and correct copies of *Southwestern Public Service Company's Errata Notice* was sent via email and first-class mail on June 13, 2019 to the parties indicated below:

VIA E-MAIL:

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