### BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION

IN THE MATTER OF SOUTHWESTERN	)
PUBLIC SERVICE COMPANY'S	)
<b>APPLICATION FOR: (1) REVISION OF</b>	)
ITS RETAIL RATES UNDER ADVICE	)
NOTICE NO. 282; (2) AUTHORIZATION	) CASE NO. 19-00170-UT
AND APPROVAL TO SHORTEN THE	)
SERVICE LIFE OF AND ABANDON ITS	)
TOLK GENERATING STATION UNITS;	)
AND (3) OTHER RELATED RELIEF,	)
	)
SOUTHWESTERN PUBLIC SERVICE	)
COMPANY,	)
,	)
APPLICANT.	)
	)

# **DIRECT TESTIMONY**

of

### RICHARD R. SCHRUBBE

on behalf of

SOUTHWESTERN PUBLIC SERVICE COMPANY

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#### GLOSSARY OF ACRONYMS AND DEFINED TERMS

**Acronym/Defined Term** Meaning

ADIT Accumulated Deferred Income Taxes

Base Period April 1, 2018 through March 31, 2019

Commission New Mexico Public Regulation Commission

ERISA Employee Retirement Income Security Act

EROA Expected Return on Assets

FAS Statement of Financial Accounting Standard

FERC Federal Energy Regulatory Commission

GAAP Generally Accepted Accounting Principles

HR Human Resources

HSA Health Savings Account

IBNR Incurred But Not Reported

IRC Internal Revenue Code

LTD Long-Term Disability

NCE New Century Energies

O&M Operation and Maintenance

PBGC Pension Benefit Guaranty Corporation

PUCT Public Utility Commission of Texas

SPS Southwestern Public Service Company, a New

Mexico corporation

**Acronym/Defined Term Meaning** 

Historical Test Year Period consisting of the Base Period and further incorporating all proper adjustments and capital additions Test Year

WACC Weighted Average Cost of Capital

Xcel Energy Xcel Energy Inc.

XES Xcel Energy Services Inc.

# LIST OF ATTACHMENTS

<b>Attachment</b>	<u>Description</u>
RRS-1	Total Company Amounts and Jurisdictional Percentages ( <i>Filename</i> : RRS-1.xls)
RRS-2	2018 Actuarial Report Excerpts (Non-native format)
RRS-3	2019 Actuarial Report Excerpts (Non-native format)
RRS-4	Calculation of Actuarially Determined Pension and Benefit Amounts ( <i>Filename</i> : RRS-4.xls)
RRS-5	Calculation of Active Health and Welfare Amounts ( <i>Filename</i> : RRS-5.xlsx)
RRS-6	Average Balances of Qualified and Non-Qualified Pension Fund Amounts ( <i>Filename</i> : RRS-6.xls)
RRS-7	Development of Qualified Pension Asset Balance (Filename: RRS-7.xlsx)

1		I. <u>WITNESS IDENTIFICATION AND QUALIFICATIONS</u>
2	Q.	Please state your name and business address.
3	A.	My name is Richard R. Schrubbe. My business address is 401 Nicollet Mall,
4		Minneapolis, Minnesota 55401.
5	Q.	On whose behalf are you testifying in this proceeding?
6	A.	I am filing testimony on behalf of Southwestern Public Service Company, a New
7		Mexico corporation ("SPS"), which is a wholly-owned electric utility subsidiary
8		of Xcel Energy Inc. ("Xcel Energy").
9	Q.	By whom are you employed and in what position?
10	A.	I am employed by Xcel Energy Services Inc. ("XES"), the service company
11		subsidiary of Xcel Energy, as Area Vice-President of Financial Analysis and
12		Planning.
13	Q.	Please briefly outline your responsibilities as Area Vice-President of
14		Financial Analysis and Planning.
15	A.	My responsibilities include the oversight and management of the Business Area
16		Finance group, which includes Energy Supply, Transmission, Distribution, Gas
17		Engineering & Operations, and Corporate Services. Within that group, I oversee
18		budget planning, reporting, and analysis. I am also responsible for the accounting
19		for all employee benefits programs, playing a liaison role with the Human

- Resources ("HR") department, external actuaries, and senior management with benefit fiduciary roles for Xcel Energy and its subsidiaries. I am also responsible for coordinating the benefits operation and maintenance ("O&M") and capital budgeting and forecasting processes, as well as the monthly analysis of actual 4 results against these budgets and forecasts.
- 6 Q. Please describe your educational background.

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- 7 A. I received a Bachelor of Science degree, with a major in finance, from Marquette 8 University in 1996.
- 9 O. Please describe your professional experience.
- 10 A. From 2000 to 2005, I was employed by the DoALL Company, first as a Staff 11 Accountant, later as Assistant Controller, and then as Corporate Controller. From 12 2005 to 2007, I was employed by Wilsons Leather as a Financial Analyst. In 13 2007, I joined XES as a Consultant. I became the Manager of Corporate 14 Accounting in 2010 and the Director of Corporate and Benefits Accounting in 15 2013. Additionally, in 2014, I was assigned responsibilities associated with the 16 oversight of the administration of XES, including accounting, billing, allocations, 17 policies and procedures, service agreements, internal audits, external audits, and 18 external reporting to state and federal regulatory agencies. In 2016, I was 19 promoted to my current position.

#### 1 Q. Have you testified or filed testimony previously before any regulatory 2 authorities? 3 Yes. I testified on SPS's behalf in New Mexico Public Regulation Commission A. ("Commission") Case No. 17-00255-UT<sup>1</sup> on pension and other post-employment 4 benefit expenses, active health care expenses, and the proper treatment of a 5 6 prepaid pension asset, among other issues. I also submitted pre-filed testimony to the Commission on those same issues in Case No. 15-00296-UT<sup>2</sup>. I testified 7 8 before the Public Utility Commission of Texas ("PUCT") in Docket No. 43695 on 9 those issues, and I submitted pre-filed direct testimony on those issues in PUCT Docket Nos. 45524 and 47527<sup>3</sup>. I have also testified before the Colorado Public 10 11 Utilities Commission and the Minnesota Public Utilities Commission on pension

12

and benefit issues.

<sup>&</sup>lt;sup>1</sup> In the Matter of Southwestern Public Service Company's Application for Revision of Its Retail Rates Under Advice Notice No. 272, Case No. 17-00255-UT, New Final Order on Partial Mandate from the New Mexico Supreme Court (Mar. 6, 2019).

<sup>&</sup>lt;sup>2</sup> In the Matter of Southwestern Public Service Company's Application for Revision of Its Retail Rates Under Advice Notice No. 256, Case No. 15-00296-UT, Final Order Adopting Certification of Stipulation with Modifications (Jul. 22, 2016).

<sup>&</sup>lt;sup>3</sup> See Application of Southwestern Public Service Company for Authority to Change Rates; Docket No. 43695, Final Order (Dec. 18, 2015), Application of Southwestern Public Service Company for Authority to Change Rates; Docket No. 45524, Final Order (Jan. 27, 2017); and Application of Southwestern Public Service Company for Authority to Change Rates; Docket No. 47527, Final Order (Dec. 10, 2018).

### II. <u>ASSIGNMENT AND SUMMARY OF TESTIMONY</u>

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2	Q.	What is your assignment in this proceeding?
3	A.	My testimony addresses five topics related to SPS's employee pensions and other
4		non-cash benefits:
5 6 7 8 9		<ol> <li>I support SPS's request to recover its reasonable and necessary expenses for qualified and non-qualified pensions calculated under Statement of Financial Accounting Standard ("FAS") 87,<sup>4</sup> retiree medical costs calculated under FAS 106, and self-insured long-term disability ("LTD") costs calculated under FAS 112;</li> </ol>
10 11 12		2. I support SPS's request to recover its active health and welfare costs, which include costs incurred for active health care, miscellaneous benefits, life insurance, and third-party-insured LTD benefits;
13		3. I support SPS's request to recover the reasonable and necessary costs incurred for workers' compensation benefits;
15 16 17		4. I support SPS's request to recover other reasonable and necessary benefits, such as the 401(k) match, certain benefit-related consulting costs, and deferred compensation; and
18 19		5. I quantify SPS's prepaid pension asset and support the request to continue to include that prepaid pension asset in rate base.
20	Q.	Please summarize your testimony and recommendations.
21	A.	I support SPS's request for recovery of New Mexico retail jurisdictional pension
22		and other post-employment and retirement benefits expense. I recommend that

<sup>&</sup>lt;sup>4</sup> In 2009, FAS 87 was renamed Accounting Standards Codification 715-30, but for the sake of convenience I will refer to it in this testimony as "FAS 87." I will also refer to the other accounting standards by their former FAS designations.

SPS be authorized to recover \$10,211,527 (\$2,834,865 New Mexico retail) of pension and other post-employment benefits expense. That amount is composed of \$9,815,224 (\$2,724,846 New Mexico retail) of qualified pension expense, \$413,381 (\$114,761 New Mexico retail) of non-qualified pension expense, \$(31,271) ((\$8,681) New Mexico retail)) of FAS 106 retiree medical expense, and \$14,192 (\$3,940 New Mexico retail) of FAS 112 self-insured LTD expense.

I also support SPS's request to recover its reasonable and necessary active health and welfare costs, and I recommend that SPS be authorized to recover \$15,958,584 (\$4,430,330 New Mexico retail) for active health and welfare costs. That amount is composed of \$14,455,628 (\$4,013,088 New Mexico retail) of active health care costs, \$609,712 (\$169,265 New Mexico retail) of third-party-insured LTD costs, \$152,145 (\$42,238 New Mexico retail) of life insurance costs, and \$741,099 (\$205,740 New Mexico retail) of miscellaneous benefit costs.

I further support SPS's request to recover third-party-insured workers' compensation costs, and I recommend that SPS be authorized to recover \$811,724 (\$225,346 New Mexico retail) of third-party-insured workers' compensation costs. I also recommend that SPS be authorized to recover \$3,437,221 (\$954,222 New Mexico retail) of other pension and benefit-related costs, which include 401(k) matching expense, consulting expense, and deferred compensation.

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Finally, I recommend that SPS continue to be allowed to include its prepaid pension asset in rate base in accordance with the standard ratemaking treatment of prepayments and Commission precedent. Customers earn a return on the prepaid pension asset in the form of reduced annual pension cost, and therefore it is appropriate for SPS to earn a return on the asset as well. SPS's thirteen-month average net prepaid pension asset balance as of March 31, 2019 was \$153,177,668 (\$43,289,376 New Mexico retail). SPS requests that it be allowed to include the prepaid pension asset in rate base and to earn a return on that asset at SPS's weighted average cost of capital ("WACC"), consistent with Commission precedent. How were the New Mexico retail jurisdictional amounts in your testimony and attachments calculated? Throughout this testimony, I quantify the expense and asset amounts on a New Mexico retail basis based upon the jurisdictional allocation percentages SPS witness Arthur P. Freitas uses to develop the New Mexico retail revenue requirement in his Attachment APF-6. Mr. Freitas is responsible for calculating jurisdictional allocation percentages that apply to the various costs components in

the cost of service. My staff and I conferred with Mr. Freitas and his staff to

determine these New Mexico retail jurisdictional amounts presented in my

1		testimony and attachments. If the percentages used to allocate amounts to the
2		New Mexico retail jurisdiction change, those new allocation percentages will
3		need to be applied to the total company numbers to derive updated New Mexico
4		retail amounts. Attachment RRS-1 contains the total company numbers and the
5		jurisdictional percentages used to derive the New Mexico retail amounts in my
6		testimony.
7	Q.	Is any other SPS witness addressing compensation or benefit issues?
8	A.	Yes. SPS witness Michael T. Knoll discusses the cash compensation paid by SPS
9		and the overall reasonableness of Xcel Energy's Total Rewards Package, which
10		consists of both the cash and non-cash components of the compensation and
11		benefits offered to SPS and XES employees.
12	Q.	Were Attachments RRS-1 and RRS-4 through RRS-7 prepared by you or
13		under your direct supervision and control?
14	A.	Yes.
15	Q.	Are Attachments RRS-2 and RRS-3 true and correct copies of the documents
16		that you have represented them to be?
17	A.	Yes.

#### 1 III. PENSION AND BENEFITS OVERVIEW 2 Q. Please summarize the pension and other benefits that SPS offers to its eligible 3 employees. 4 A. In addition to the cash compensation discussed by Mr. Knoll, SPS offers the 5 following non-cash benefits to its employees: pension and other post-employment and retirement benefits, which 6 7 include: 8 o a defined benefit qualified pension plan that provides eligible employees with a defined benefit amount upon retirement; 9 10 o a non-qualified pension restoration benefit that allows SPS to 11 attract and retain employees who would otherwise be disadvantaged by the restrictions imposed under the qualified 12 pension plan; 13 14 a retiree medical plan available to certain retired employees; 15 16 LTD benefits; 17 active health and welfare benefits, which include medical, dental, 18 pharmaceutical, vision, life insurance, and other miscellaneous benefits: 19 20 • workers' compensation benefits, including both self-insured and 21 third-party-insured benefits; and other types of benefits, including a 401(k) defined contribution plan 22 23 and certain types of deferred compensation.

1	Q.	What is the requested amount for each of the elements of non-cash
2		compensation offered by SPS?
3	A.	Table RRS-1 (on the next page) sets forth the total company and New Mexico
4		retail amounts of the pension and benefit costs that SPS seeks to recover in rates.
5		Column B represents the per book amount for each element of expense during the
6		Base Period, which is the twelve-month period from April 1, 2018 through March
7		31, 2019. Column C shows the known and measurable adjustments to the Base
8		Period amounts. Column D contains the total company amounts for the Test
9		Year <sup>5</sup> , and Column E shows the New Mexico retail amount for each element of
10		expense that is included in the cost of service in this case.

<sup>&</sup>lt;sup>5</sup> The Test Year is the Historical Test Year Period consisting of the Base Period and further incorporating all proper adjustments and capital additions.

#### Table RRS-1

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A	A B C		D	$\mathbf{E}^{6}$	
Benefit	Base Period (12 months ended March 31, 2019)	Known and Measurable Adjustment	Test Year Amount (Total Company)	Test Year Amount Included in Cost of Service	
Qualified Pension	\$10,989,781	(1,174,557)	\$9,815,224	\$2,724,846	
Non-Qualified Pension	\$470,671	(57,290)	\$413,381	\$114,761	
FAS 106 Retiree Medical	\$(122,475)	91,204	\$(31,271)	\$(8,681)	
FAS 112 Long-Term Disability (Self-Insured)	\$3,071	11,121	\$14,192	\$3,940	
Active Health Care <sup>7</sup>	\$14,590,175	\$(134,546)	\$14,455,628	\$4,013,088	
Long-Term Disability (Third-Party-Insured)	\$609,712	-	\$609,712	\$169,265	
Life Insurance	\$152,145	-	\$152,145	\$42,238	
Miscellaneous Benefit Programs and Costs	\$741,099	-	\$741,099	\$205,740	
401(k) Match	\$3,105,887	92,250	\$3,198,137	\$887,848	
Miscellaneous Retirement-Related Costs	\$239,084	-	\$239,084	\$66,373	
Workers Compensation (Third-Party-Insured)	\$811,724	-	\$811,724	\$225,346	
Total Pension and Benefits Expense	\$31,590,875	\$(1,171,818)	\$30,419,056	\$8,444,764	

<sup>&</sup>lt;sup>6</sup> Amounts in Column D are multiplied by the jurisdictional allocator for Federal Energy Regulatory Commission ("FERC") Accounts 925 and 926 to arrive at the New Mexico retail amount included in the cost of service. The jurisdictional allocator for both FERC Accounts 925 and 926 is 27.7614%.

<sup>&</sup>lt;sup>7</sup> The per book amount for active health care in the cost of service is \$14,590,175. That amount is an estimate, and it must be adjusted to reflect health care claims that were incurred near the end of the Test Year but not reported until after the Test Year. After adding the Incurred But Not Reported ("IBNR") amount, which is \$(465,387), and the known and measurable adjustment of \$330,841 that is discussed on page 34 of my testimony, the Test Year amount is \$14,455,628. When multiplied by the FERC Account 926 jurisdictional allocator, it produces a New Mexico retail number of \$4,013,088.

#### 1 Q. Is SPS seeking to recover any other amounts related to pension and benefits?

- 2 A. Yes. SPS also seeks Commission approval to continue including a prepaid
- pension asset in rate base and to earn a return on that asset at SPS's WACC,
- 4 consistent with the Commission's treatment of SPS's prepaid pension asset in
- 5 Case No. 12-00350-UT<sup>8</sup> and Case No. 17-00255-UT.<sup>9</sup>

<sup>&</sup>lt;sup>8</sup> In the Matter of Southwestern Public Service Company's Application for Revision of Its Retail Electric Rates Under Advice Notice No. 245, Case No. 12-00350-UT, Final Order Partially Adopting Recommended Decision at 11 (Mar. 26, 2014).

<sup>&</sup>lt;sup>9</sup> In the Matter of Southwestern Public Service Company's Application for Revision of Its Retail Electric Rates Under Advice Notice No. 272, Case No. 17-00255-UT, Final Order Adopting Recommended Decision with Modifications at 17-18 (Sept. 5, 2018).

1 2		IV. RECOVERY OF PENSION AND OTHER POST- EMPLOYMENT BENEFITS EXPENSE
3	Q.	What topic do you discuss in this section of your testimony?
4	A.	I discuss the amounts requested for pension and other post-employment benefit
5		expenses, which include qualified pension expense, non-qualified pension
6		expense, FAS 106 retiree medical expense, and FAS 112 LTD benefits.
7	Q.	Are the pension and other post-employment and retirement benefit amounts
8		that SPS seeks to include in the cost of service determined by actuarial
9		studies or similar studies prepared in accordance with Generally Accepted
10		Accounting Principles ("GAAP")?
11	A.	Yes. SPS's pension and other post-employment and retirement benefit expense
12		amounts are calculated in accordance with actuarial standards, and the results are
13		set forth in actuarial studies that are attached to my testimony as Attachment
14		RRS-2 and Attachment RRS-3.
15		A. Qualified Pension
16	Q.	How are qualified pension costs determined?
17	A.	Pension costs are determined under FAS 87, Employers' Accounting for
18		Pensions.

1	Q.	Please describe SPS's qualified pension plan and the nature of the costs of
2		the plan.
3	A.	The qualified pension plan is a traditional defined benefit pension plan, which
4		promises bargaining employees monthly pension annuity payments based upon
5		their level of pay and years of service. It promises non-bargaining employees a
6		choice of either a lump sum payout or a monthly pension annuity based upon their
7		level of pay and years of service. Under a defined benefit pension plan, the
8		promised pensions are a commitment by SPS.
9	Q.	Do accounting rules and laws determine the cost for SPS's pension plan?
10	A.	Yes. As I noted earlier, SPS accounts for the cost of its pension plan under the
11		rules set forth in FAS 87, which prescribes the rules that companies must follow
12		in determining whether their pension costs comply with GAAP. However, FAS
13		87 does not dictate how a company must fund the plan. The funding of the plan is
14		determined based upon prudent business practices, with constraints imposed by
15		the requirements of the Pension Protection Act of 2006, the Employee Retirement
16		Income Security Act ("ERISA"), and the Internal Revenue Code ("IRC"):
17		• there are minimum required contributions;
18 19		<ul> <li>there are maximum contributions that can be deducted for tax purposes; and</li> </ul>

1 2		<ul> <li>SPS has a fiduciary responsibility to prudently protect the interests of the plan participants and beneficiaries.</li> </ul>
3		The minimum and maximum funding rules set forth under the Pension Protection
4		Act, ERISA, and the IRC are different from the methodology used under FAS 87
5		to determine pension cost. Over the long run, the cumulative employer
6		contributions made to a plan should equal the cumulative recognized pension
7		expense calculated under FAS 87, but in the short and intermediate run there can
8		be significant differences.
9	Q.	How is pension cost determined under FAS 87?
10	A.	Under FAS 87, pension cost is composed of the following:
11 12		<ol> <li>the value of pension benefits that employees will earn during the current year (service cost);</li> </ol>
13 14		<ol><li>increases in the present value of the pension benefits that plan participants have earned in previous years (interest cost);</li></ol>
15 16		3. investment earnings on the pension plan assets that are expected to be earned during the year (expected return on assets ("EROA"));
17 18 19		<ol> <li>recognition of costs (or income) resulting from experience that differs from the assumptions (amortization of unrecognized gains and losses); and</li> </ol>
20 21 22		5. recognition of the cost of benefit changes the plan sponsor provides for service the employees have already performed (amortization of unrecognized prior service cost).

1	Q.	Taking each of these five components in order, how is the service cost
2		component calculated?
3	A.	The service cost component recognized in a period is the actuarial present value
4		of benefits attributed by the pension benefit formula to current employees' service
5		during that period. Actuarial assumptions are used to reflect the time value of
6		money (the discount rate) and the probability of payment (assumptions as to
7		mortality, turnover, early retirement, and so forth).
8	Q.	Next, how is the interest cost component calculated?
9	A.	The interest cost component recognized in a fiscal year is determined as the
10		increase in the projected benefit obligation ("PBO") due to the passage of time.
11		Measuring the PBO as a present value requires accrual of an interest cost at a rate
12		equal to the assumed discount rate. Essentially, the interest cost identifies the
13		time value of money by recognizing that anticipated pension benefit payments are
14		one year closer to being paid from the pension plan.
15	Q.	How is the third component, EROA, calculated?
16	A.	The EROA is determined based on the expected long-term rate of return on plan
17		assets and the market-related value of plan assets. The market-related value of
18		plan assets for SPS is a calculated value that recognizes changes in the fair value
19		in a systematic and rational manner over five years.

1	Q.	with regard to the rourth component, what are the unrecognized gams and
2		losses?
3	A.	Unrecognized gains and losses are the asset gains and losses or the liability gains
4		and losses from prior periods. In effect, those asset or liability gains and losses
5		arise when the experience in a prior period differed from what was expected.
6	Q.	Please explain the distinction between asset gains and losses and liability
7		gains and losses.
8	A.	Asset gains and losses arise when the actual returns on the pension trust assets in
9		prior years are greater than or lesser than the EROA. Suppose, for example, that
10		the plan has an expected return of 7% on its pension trust assets, which total
11		\$1 billion. The EROA for that year would be \$70 million. If the actual return in
12		that year is 9%, the asset gain will be \$20 million. Of course, the opposite can
13		also occur. If the EROA is 7% and the actual return on the assets is 5%, the plan
14		suffers a \$20 million asset loss.
15		Liability gains and losses arise when the other components of pension cost
16		differ from expectations. Those components include such things as the discount
17		rate, the expected number of retirements, mortality rates, and wage increases. For
18		example, if SPS assumes a 4% discount rate at the beginning of the year but the
19		actual discount rate measured at year end for the next year turns out to be 5%,

1		SPS will have a liability gain because the higher discount rate reduces the amount
2		SPS must set aside to satisfy future pension liabilities.
3	Q.	Is the distinction between asset gains and losses and liability gains and losses
4		important?
5	A.	Yes. The distinction is important because, as I will discuss in more detail below,
6		the asset gains and losses are phased in over time, whereas the liability gains and
7		losses are not. Asset gains and losses are phased into an amortization "pool," for
8		lack of a better term, over a five-year period. Liability gains and losses are not
9		phased in, but instead are placed into the amortization pool in a single year.
10		Because gains and losses may reflect refinements in estimates as well as real
11		changes in economic values, and because some gains in one period may be offset
12		by losses in another or vice versa, FAS 87 does not require recognition of gains
13		and losses as a component of net pension cost in the period in which they arise.
14	Q.	Please describe what you mean by the term "phase-in" of gains or losses.
15	A.	The term "phase-in" is used to describe the process of moving asset gains or
16		losses into an amortization pool. Under FAS 87, the asset gains or losses are
17		incorporated into the calculation of pension cost over a period of five years.
18		Thus, 20% of a gain or loss is phased into the amortization pool during the first
19		year after the gain or loss occurs, another 20% is phased into the amortization

1		pool during the second year after the gain or loss occurs, and so forth until the
2		fifth year, when the full amount of the gain or loss is phased-in. Unlike asset
3		gains or losses, liability gains and losses are not phased in, as I mentioned earlier.
4		The portion of gains and losses that enter the amortization pool are then amortized
5		over a specific period of years if they satisfy the criteria I discuss below.
6	Q.	Why does SPS phase-in asset gains and losses and then amortize them over
7		the average years to retirement of active employees?
8	A.	When SPS moved to FAS 87 accounting in 1987, it elected to phase-in asset gains
9		and losses and to amortize these gains and losses over a period not to exceed the
10		average remaining service life (average years to retirement) of employees. The
11		purpose of the election was to reduce financial statement volatility in individual
12		accounting periods by ensuring that gains and losses are spread out over time, and
13		that they are not recognized in just the period that they occur. This phase-in and
14		amortization approach reduces volatility in recognized costs by smoothing gains
15		and losses over the longest allowed duration.
16	Q.	Why are asset gains and losses phased-in but not liability gains and losses?
17	A.	The assumptions used to establish pension liability (e.g., mortality rates, discount
18		rates, etc.) typically do not vary greatly from year to year, and therefore the
19		drafters of FAS 87 did not consider it necessary to require the phase-in of liability

gains and losses. In contrast, the market returns on pension fund assets can vary greatly from year to year, as evidenced by the dramatic difference between the EROA and the actual returns that SPS experienced on its pension fund assets in 2008. Because of the effects that such volatility would have on businesses' income statements, the drafters of FAS 87 decided that it was appropriate to phase-in market gains and losses.

#### 7 Q. How are unrecognized gains and losses amortized?

A.

SPS aggregates its current year's gains or losses with the prior years' gains or losses to calculate a net unamortized gain or loss. That net unamortized gain or loss is then compared to the present value of the PBO and to the market-related value of the assets in the pension trust. If the net unamortized gain or loss is outside a 10% corridor – that is, if it is more than 10% of the greater of the PBO or the market-related value of the trust assets – SPS must amortize that net gain or loss. If amortization of the unrecognized gains or losses is required, the amortization amount is equal to the amount of the unrecognized gain or loss in excess of the corridor divided by the average remaining future service of the active participants in the plan. For SPS's bargaining employees this is approximately 15 years, and for SPS's non-bargaining employees it is approximately 10 years.

1	Q.	Returning to the five elements of FAS 87 pension cost, what is the fifth
2		element – unrecognized prior service cost?
3	A.	Unrecognized prior service cost results from pension plan amendments that
4		change benefits based on services rendered in prior periods. FAS 87 does not
5		generally require the cost of providing such retroactive benefits (prior service
6		cost) to be included in net periodic pension cost entirely in the year of the
7		amendment but instead provides for recognition over the future years.
8	Q.	How is unrecognized prior service cost amortized?
9	A.	Unrecognized prior service cost is amortized in the same manner as unrecognized
10		gains and losses, with the exception of the 10% corridor.
11	Q.	Please summarize the calculation that is required to be used under FAS 87 to
12		quantify annual pension cost.
13	A.	Annual pension cost is quantified using the following calculation:
14 15 16 17 18 19 20		Current service cost  + Interest cost  - EROA  +/- Loss (gain) due to difference between expected and actual experience of plan assets or liabilities from prior periods  +/- Amortization of unfunded prior service cost  = Annual pension cost

1	Q.	Is the annual pension cost produced by this formula always a positive
2		number?
3	A.	No. In some years, the negative amounts in the calculation (i.e., the EROA and
4		the gains resulting from the difference between expected and actual experience
5		from prior periods) can be larger than the positive amounts. When that happens,
6		the annual pension cost is actually negative. And if that occurs in a rate case test
7		year, the annual pension cost included in the cost of service may be a negative
8		number, which reduces the overall cost of service. But even when the annual
9		pension cost is negative, shareholders are still providing the capital to fund the
10		prepaid pension asset.
11	Q.	What amount of expense did SPS incur during the Base Period for qualified
12		pension expense?
13	A.	SPS incurred \$10,989,781 (\$3,050,920 New Mexico retail) for qualified pension
14		expense.
15	Q.	Is SPS proposing to make any known and measurable changes to the
16		qualified pension expense for events occurring after the end of the Base
17		Period?
18	A.	Yes. SPS is requesting a known and measurable adjustment of \$(1,174,557),
19		which is \$(326,074) on a New Mexico retail basis, for qualified pension expense.

	This known and measurable is based on the 2019 calendar year qualified pension
	expense included in the Attachment RRS-3 actuarial report.
Q.	What amount of qualified pension expense is SPS requesting in the cost of
	service?
A.	SPS is requesting approval of \$9,815,224 (\$2,724,846 New Mexico retail) of
	qualified pension expense. Mr. Freitas has included the qualified pension expense
	in his cost of service.
Q.	Have you provided the numbers and assumptions that SPS used to determine
	its qualified pension expense amount in the cost of service?
A.	Yes. Attachment RRS-4 contains the calculation of the total company qualified
	pension expense amounts included in the cost of service. 10 Attachments RRS-2
	and RRS-3 contain the source documents for those calculations.
	B. Non-Qualified Pension
Q.	What is the purpose of a non-qualified pension plan?
A.	A non-qualified pension plan is designed to provide comparable benefits to
	certain employees whose compensation exceeds the limits provided by tax law for
	deducting pension-related expense.
	SPS's actuary, Willis Towers Watson, calculates the pension and benefit amounts on a total ny basis. Thus, the amounts in Attachments RRS-2 through RRS-7 are presented on a total company Please refer to Attachment RRS-1 for the conversion of those amounts to New Mexico retail

amounts.

#### 1 Q. How does a non-qualified pension plan differ from a qualified pension plan? 2 A. Qualified plans are those that "qualify" under Section 400 of the IRC, which 3 confers significant tax advantages on both the employer and employee. Those 4 advantages include: the employer receives a current tax deduction for contributions to the 5 6 plan; 7 the employee is not taxed on the contributions, but instead is taxed 8 only when he or she receives benefits; 9 the plan assets accumulate tax-free until they are distributed; and 10 the plan assets are placed in a trust that is beyond the reach of 11 creditors. 12 In exchange for those advantages, the employer and employee must strictly follow 13 the restrictions set forth in the IRC, which include limits on the amount of annual 14 benefits awarded to the employee. Currently, the IRC limits the maximum annual 15 benefit that can be paid through a defined benefit plan to \$220,000 per year. In addition, the maximum amount of compensation that can be included in 16 17 determining benefits in a qualified pension plan is \$275,000. 18 In contrast, there is no statutory restriction on the amount of the benefit 19 that may be offered under a non-qualified pension plan, which is used to restore 20 the amount of retirement benefits that employees lose as a result of the limitations 21 on the qualified plans.

1	Q.	How are non-qualified pension costs determined?
2	A.	Non-qualified pension costs are determined under the same standard as qualified
3		pension costs, which is FAS 87. Unlike the qualified pension, however, the non-
4		qualified pension does not have trust assets set aside for the payment of the
5		benefit. Therefore, it does not have an EROA. It also does not have prior-period
6		asset gains or losses, although it may have prior-period liability gains and losses
7		that result from changes in the discount rate.
8	Q.	What amount of expense did SPS incur during the Base Period for non-
9		qualified pension expense?
10	A.	SPS incurred \$470,671 (\$130,665 New Mexico retail) for non-qualified pension
11		expense.
12	Q.	Is SPS proposing to make any known and measurable changes to the non-
13		qualified pension expense for events occurring after the end of the Base
14		Period?
15	A.	Yes. SPS is requesting a known and measurable adjustment of \$(57,290), which
16		is \$(15,905) on a New Mexico retail basis, for non-qualified pension expense
17		This known and measurable is based on the 2019 calendar year non-qualified
18		pension expense included in the Attachment RRS-3 actuarial report.

Q.	What amount of non-qualified pension expense is SPS requesting in the cost
	of service?
A.	SPS is requesting approval of \$413,381 (\$114,761 New Mexico retail) of non-
	qualified pension expense. Mr. Freitas has included the non-qualified pension
	expense in his cost of service.
Q.	Have you provided the numbers and assumptions that SPS used to determine
	its non-qualified pension expense amount in the cost of service?
A.	Yes. Attachment RRS-4 contains the calculation of the non-qualified pension
	expense amount included in the cost of service. Attachments RRS-2 and RRS-3
	contain the source documents for those calculations.
	C. Retiree Medical
Q.	How are retiree medical costs determined?
A.	Retiree medical costs are determined under FAS 106, Employers' Accounting for
	Post-Retirement Benefits Other than Pensions. The components and calculation
	are identical to FAS 87, with one exception: the pension asset gains and losses
	are phased into the loss amortization calculation by 20% each year, whereas
	retiree medical asset gains and losses are not.
	A. Q. Q.

1	Q.	r lease describe 51 5 s retiree medical plan and the plan expenses.
2	A.	SPS's plan consists primarily of retiree medical benefits, but it also includes
3		retiree life and dental insurance. SPS eliminated those benefits for all active non-
4		bargaining employees more than ten years ago, and SPS bargaining employees
5		hired on or after January 1, 2012 are no longer eligible to receive retiree medical
6		benefits. Thus, the current expense for retiree medical benefits is a legacy of the
7		prior programs.
8	Q.	What amount of expense did SPS incur during the Base Period for retired
9		medical expense?
10	A.	SPS incurred \$(122,475), which is \$(34,001) on a New Mexico retail basis, for
11		retiree medical expense.
12	Q.	Is SPS proposing to make any known and measurable changes to the retired
13		medical expense for events occurring after the end of the Base Period?
14	A.	Yes. SPS is requesting a known and measurable adjustment of \$91,204 (\$25,320
15		New Mexico retail) for retiree medical expense. This known and measurable is
16		based on the 2019 calendar year retiree medical expense include in the
17		Attachment RRS-3 actuarial report.

1	Q.	What amount of retiree medical expense is SPS requesting in the cost of
2		service?
3	A.	SPS is requesting approval of (\$31,271), which is (\$8,681) on a New Mexico
4		retail basis, in retiree medical expense. Mr. Freitas has included that amount of
5		retiree medical credit in his cost of service.
6	Q.	Have you provided the numbers and assumptions that SPS used to determine
7		its retiree medical expense amounts?
8	A.	Yes. Attachment RRS-4 contains the calculations of the retiree medical expense
9		amounts. Attachments RRS-2 and RRS-3 contain the source documents for those
10		calculations.
11		D. Self-Insured Long-Term Disability
12	Q.	Please describe LTD in more detail and explain how it is accounted for.
13	A.	The LTD costs are attributable to benefits provided by SPS to former or inactive
14		employees after employment but before retirement. The LTD plan provides
15		employees with income protection by paying a portion of an employee's income
16		while he or she is disabled by a covered physical or mental impairment.
17		SPS has two types of LTD - a self-insured benefit and a third-party-
18		insured benefit. In a third-party-insured plan, which I will discuss in more detail
19		later in this testimony, SPS purchases an insurance plan from an outside insurance

1		provider that assumes the risk. In a self-insured plan, SPS provides the benefits to
2		the covered individuals and therefore effectively acts as the insurer. For the self-
3		insured piece, SPS is required to accrue for LTD costs under FAS 112,
4		Employers' Accounting for Post-Employment Benefits. The FAS 112 accrual
5		represents the expected disability benefit payments for employees that are not
6		expected to return to work.
7	Q.	Which groups of employees are covered under the self-insured plan and
8		which groups are covered under the third-party-insured plan?
9	A.	Within the LTD benefit, all employees disabled before January 1, 2008 are
10		covered under the self-insured plan, and all employees disabled on and after
11		January 1, 2008 are covered under a third-party-insured plan.
12	Q.	What amount of expense did SPS incur during the Base Period for self-
13		insured LTD expense?
14	A.	SPS incurred \$3,071 (\$853 New Mexico retail) for self-insured LTD expense.
15	Q.	Is SPS proposing to make any known and measurable changes to the self-
16		insured LTD expense for events occurring after the end of the Base Period?
17	A.	Yes. SPS is requesting a known and measurable adjustment of \$11,121 (\$3,087)
18		New Mexico retail) for self-insured LTD expense. This known and measurable is

1		based on the 2019 calendar year self-insured LTD expense included in the
2		Attachment RRS-3 actuarial report.
3	Q.	What amount of self-insured LTD expense is SPS requesting in the cost of
4		service?
5	A.	SPS is requesting approval of \$14,192 (\$3,940 New Mexico retail) of self-insured
6		LTD expense. Mr. Freitas has included that amount of self-insured LTD expense
7		in the cost of service.
8	Q.	Have you provided the numbers and assumptions that SPS used to determine
9		its self-insured LTD benefits expense amounts in the Test Year?
10	A.	Yes. Attachment RRS-4 contains the calculations of the self-insured LTD
11		benefits expense amounts. Attachments RRS-2 and RRS-3 contain the source
12		documents for those calculations.
13 14	Е.	Reasonableness of SPS's Pension and Other Post-Employment and Retirement Benefits Expense
15	Q.	Are the amounts of SPS's pension and other post-employment and
16		retirement benefits expense reasonable?
17	A.	Yes. SPS follows a well-established, objective, and verifiable process to
18		determine the assumptions used within the actuarial calculations that yield the
19		pension and other post-employment and retirement benefits expense amounts.

1	The assumptions and the actuarially calculated total cost amounts are reflected in
2	my Attachment RRS-4. In addition, the reasonableness of Xcel Energy's Total
3	Rewards Program design, which includes pension and other post-employment and
4	retirement benefits, is discussed in the direct testimony of Mr. Knoll.

1		V. <u>HEALTH AND WELFARE COSTS</u>
2	Q.	What topics do you discuss in this section of your testimony?
3	A.	I discuss four types of active health and welfare costs: (1) active health care
4		costs; (2) third-party-insured LTD costs; (3) life insurance costs; and (4)
5		miscellaneous benefit costs.
6		A. Active Health Care
7	Q.	What types of costs are included in active health care?
8	A.	Active health care costs are all costs associated with providing health care
9		coverage to employees. Those costs include medical, pharmacy, dental and vision
10		claims, administrative fees, employee withholdings, pharmacy rebates, Health
11		Savings Account ("HSA") contributions, transitional reinsurance fees, trustee
12		fees, and interest income.
13	Q.	What amount of active health care expense is SPS seeking to include in the
14		cost of service?
15	A.	SPS is requesting approval of \$14,455,628 (\$4,013,088 New Mexico retail) for
16		active health care expense. Mr. Freitas has included that amount of active health
17		care expense in the cost of service.

#### 1 Q. Does the Test Year amount match the per book amount of active health care 2 costs? 3 A. No. The per book numbers for active health care amounts include estimates 4 because there is generally an average lag of approximately 30 days between when health care is provided and when SPS receives a bill for that care. 11 Therefore, 5 6 the actual amount of active health care expense was not available at the time SPS recorded its per book amount at the end of March 2019. Because SPS needs to 7 8 close its books before it receives all of those health care claims, it takes the actual 9 amounts recorded through a certain point in the year and estimates the additional 10 amount that will be incurred but not reported by the end of the year, which is the 11 IBNR reserve. During the following year, SPS receives the actual amounts 12 attributable to care provided in the last part of the prior year, and at that time it 13 trues up the IBNR estimate to the actual incurred expense. 14 Q. Is SPS proposing to make any known and measurable changes to the active 15 health care expense for events occurring after the end of the Base Period? 16 SPS is requesting a known and measurable adjustment of \$330,841 A. 17 (\$91,846 New Mexico retail) for active health care expense.

The difference between the estimated amount and the actual amount is generally not material enough to restate SPS's GAAP books when the actual amount becomes known.

1	Q.	Please discuss the process that SPS undertook to determine the Active Health
2		Care amounts for 2019.
3	A.	SPS first took the Base Period per book amounts after making the IBNR reserve
4		adjustments described above and then applied three known and measurable
5		adjustments to arrive at the 2019 active health care amount:
6 7		1. SPS applied a 5.50% increase to the 2018 incurred medical amount, which increased costs by \$392,667 (\$109,010 New Mexico retail).
8 9		2. SPS applied a 12.60% increase to the 2018 incurred pharmacy amount, which increased costs by \$178,559 (\$49,571 New Mexico retail).
10 11 12		3. SPS switched medical providers in 2019, which resulted in lower administrative fees. As a result, the Test Year medical administrative fees were reduced by \$240,385 (\$66,734 New Mexico retail).
13		The three adjustments result in a net increase of \$330,841 (\$91,846 New Mexico
14		retail) to the overall amount.
15	Q.	What amount of active health care expense is SPS requesting in the cost of
16		service?
17	A.	SPS is requesting approval of \$14,455,628 (\$4,013,088 New Mexico retail) of
18		active health care expense. Mr. Freitas has included that amount of active health
19		care expense in the cost of service.

1		B. Third-Party-Insured Long-Term Disability
2	Q.	Please describe the third-party-insured LTD costs that SPS incurs.
3	A.	As explained earlier, SPS offers long-term disability coverage that provides
4		benefits to former or inactive employees after employment but before retirement.
5		The LTD plan provides employees with income protection by paying a portion of
6		an employee's income while he or she is disabled by a covered physical or mental
7		impairment. In a third-party-insured plan, SPS purchases an insurance plan from
8		an outside insurance provider that assumes the risk, and the cost of the third-
9		party-insured piece is simply the cost of the insurance premium incurred each
10		year along with any other miscellaneous costs.
11	Q.	What groups of employees are covered under the third-party-insured
12		benefit?
13	A.	As noted earlier, all employees disabled on and after January 1, 2008 are covered
14		under the third-party-insured plan.
15	Q.	What amount of third-party-insured LTD benefit expense is SPS seeking to
16		recover?
17	A.	SPS is requesting approval of \$609,712 (\$169,265 New Mexico retail) of third-
18		party-insured LTD expense for the Test Year. Mr. Freitas has included that
19		amount of third-party-insured LTD benefits expense in the cost of service.

1		C. Life Insurance
2	Q.	Please describe the life insurance cost that SPS incurs.
3	A.	The life insurance category consists of life insurance premiums and offsetting
4		employee life insurance withholdings. Life insurance is provided to
5		non-bargaining employees at 100% of base pay and to SPS bargaining employees
6		at 50% of base pay. Employees also have the option to purchase additional life
7		insurance.
8	Q.	What amount of expense did SPS incur during the Base Period for life
9		insurance benefits?
10	A.	SPS is requesting approval of \$152,145 (\$42,238 New Mexico retail) of life
11		insurance expense for the Test Year. Mr. Freitas has included that amount of life
12		insurance expense in the cost of service.
13		D. Miscellaneous Benefits
14	Q.	What types of miscellaneous benefit programs does SPS offer to its
15		employees?
16	A.	The types of costs included in the miscellaneous benefit programs and costs
17		category are:
18		• tuition reimbursement;
19		• Employee Assistance Program costs;

1		wellness program costs;
2 3		<ul> <li>costs incurred by the HR Service Center to answer employee retirement or benefit questions;</li> </ul>
4		<ul> <li>health and welfare plan actuarial and audit fees;</li> </ul>
5		• administrative fees for short-term and long-term disability plans; and
6		• administrative fees for employee flexible spending and HSA's.
7	Q.	What amount of expense did SPS incur during the Base Period for
8		miscellaneous benefits?
9	A.	SPS incurred \$741,099 (\$205,740 New Mexico retail) of miscellaneous benefit
10		expense for the Test Year. Mr. Freitas has included that amount of miscellaneous
11		benefits expense in the cost of service.
12		E. Reasonableness of Health and Welfare Costs
13	Q.	Are the amounts of SPS's health and welfare expense reasonable?
14	A.	Yes. It is appropriate for the cost of service to include these benefits because they
15		reflect a reasonable and necessary level of expense. As Mr. Knoll explains in
16		more detail, Xcel Energy's compensation plans and benefits are required for Xcel
17		Energy and its subsidiaries to attract, retain, and motivate employees needed to
18		perform the work necessary to provide quality services for SPS
19		customers. Without these benefits, SPS and XES would have to pay significantly
20		higher current compensation to attract employees.

1		VI. <u>WORKERS' COMPENSATION COSTS</u>
2	Q.	Is SPS seeking recovery of the costs associated with workers' compensation
3		benefits?
4	A.	Yes. SPS is seeking recovery of third-party-insured workers' compensation
5		benefits.
6	Q.	Please briefly describe SPS's third-party-insured workers' compensation
7		program.
8	A.	For employees who are injured on or after August 1, 2001, all workers
9		compensation benefits are covered under a third-party-insured program. The only
10		cost to Xcel Energy for this benefit cost is the insurance premium. In a third-
11		party-insured plan, SPS purchases an insurance plan from an outside insurance
12		provider that assumes the risk, and the cost of the third-party-insured piece is
13		simply the cost of the insurance premium incurred each year along with any other
14		miscellaneous costs.
15	Q.	How are third-party-insured workers' compensation amounts determined?
16	A.	The costs are calculated by actuaries of the vendor from whom SPS purchases the
17		insurance. The actuaries presumably base the costs on company-specific
18		historical loss data and payroll to determine exposure related to the policy period.

1	Q.	What amount of expense is SPS seeking to recover for third-party-insured
2		workers' compensation benefits?
3	A.	SPS is requesting approval of \$811,724 (\$225,346 New Mexico retail) of third-
4		party-insured workers' compensation expense. Mr. Freitas has included that
5		amount of third-party-insured workers' compensation expense in the cost of
6		service.
7	Q.	Is it reasonable for the cost of service to include third-party-insured workers'
8		compensation costs incurred by SPS?
9	A.	Yes. It is appropriate for the cost of service to include these benefits because they
10		reflect a reasonable and necessary level of expense. Xcel Energy's workers'
11		compensation plans and benefits are required for Xcel Energy and its subsidiaries
12		to attract, retain, and motivate employees needed to perform the work necessary
13		to provide quality services for SPS customers. Without these benefits, SPS and
14		XES would have to pay significantly higher current compensation to attract
15		employees.

1		VII. <u>OTHER BENEFIT COSTS</u>
2	Q.	Is SPS seeking recovery of any retirement benefits in addition to the ones
3		discussed earlier?
4	A.	Yes. SPS is seeking recovery of 401(k) match costs and miscellaneous
5		retirement-related costs.
6		A. 401(k) Match
7	Q.	Please briefly describe SPS's 401(k) Match plan.
8	A.	SPS's retirement income plan is based on a combination of a defined benefit
9		pension plan and a 401(k) plan, which is a defined contribution plan. Unlike
10		some defined benefit pension plans, SPS's defined benefit pension plan is not
11		intended to provide an employee's total retirement income. Rather, the defined
12		benefit pension plan and 401(k) plan are designed so that the two plans in
13		combination provide retirement income to SPS and XES employees.
14	Q.	How are the 401(k) Match costs determined?
15	A.	The 401(k) plan is a defined contribution plan to which employees must
16		contribute in order to obtain employer matching. It is based on the amount that
17		employees contribute as a percentage of their salary with a maximum match of
18		4%. For the majority of SPS's workforce, the employee must contribute 8% of
19		eligible income for SPS to contribute the maximum company match of 4% of

1		eligible income. The remaining employees, who are in the Traditional Plan,
2		receive a maximum match of \$1,400.
3	Q.	What amount of expense did SPS incur during the Base Period for 401(k)
4		Match benefits?
5	A.	SPS incurred \$3,105,887 (\$862,238 New Mexico retail) for 401(k) benefits.
6	Q.	Is SPS proposing to make any known and measurable changes to the 401(k)
7		expense for events occurring after the end of the Base Period?
8	A.	Yes. SPS is requesting a known and measurable adjustment of \$92,250 (\$25,610
9		New Mexico retail) for 401(k) benefit expense. Because the 401(k) match is
10		based on the amount that employees contribute as a percentage of their salary,
11		escalation factors of 3% and 2.8% have been applied to non-bargaining and
12		bargaining employees, respectively. For justification of the merit increase, please
13		refer to Mr. Knoll's direct testimony.
14	Q.	What is the amount of 401(k) Match expense included in the cost of service?
15	A.	After including the known and measurable adjustment mentioned above, the
16		401(k) Match expense requested by SPS is \$3,198,137 (\$887,848 New Mexico
17		retail). Mr. Freitas has included the 401(k) Match expense in the cost of service.

1		B. Miscellaneous Retirement-Related Costs
2	Q.	What costs are included in miscellaneous retirement-related costs?
3	A.	This category includes costs such as 401(k) plan administration fees,
4		compensation consulting and survey costs, retirement plan actuarial and audit
5		fees, and a small amount for the deferred compensation plan.
6	Q.	What amount of expense did SPS incur during the Base Period for
7		miscellaneous retirement-related costs?
8	A.	SPS incurred \$239,084 (\$66,373 New Mexico retail) for miscellaneous
9		retirement-related costs. Mr. Freitas has included the miscellaneous retirement-
10		related expense in the cost of service.
11		C. Reasonableness of Other Benefit Costs
12	Q.	Is it reasonable for the cost of service to include the 401(k) Match and
13		miscellaneous retirement-related costs incurred by SPS?
14	A.	Yes. It is appropriate for the cost of service to include these benefits because they
15		reflect a reasonable and necessary level of expense. Xcel Energy's compensation
16		plans and benefits are required for Xcel Energy and its subsidiaries to attract,
17		retain, and motivate employees needed to perform the work necessary to provide
18		quality services for SPS customers. Without these benefits, SPS and XES would
19		have to pay significantly higher current compensation to attract employees.

VIII. SPS'S PREPAID PENSION ASSET

1

2	Q.	What topic do you discuss in this section of your testimony?
3	A.	I describe SPS's prepaid pension asset and explain that it should be included in
4		rate base. It should also earn a return at SPS's WACC.
5	Q.	Has the Commission addressed this issue in prior cases?
6	A.	Yes. As I noted earlier, in Case Nos. 12-00350-UT and 17-00255-UT, the
7		Commission approved SPS's request to include the prepaid pension asset in rate
8		base and to earn a return on that asset at SPS's WACC.
9	Q.	What is a prepaid pension asset?
10	A.	A prepaid pension asset represents the difference between: (1) the cumulative
11		actuarially determined net periodic pension cost calculated in accordance with
12		FAS 87; and (2) the cumulative cash amounts contributed to the pension trust
13		fund.
14	Q.	Please provide an example of how the difference arises.
15	A.	Suppose that the pension plan has been in existence for five years, and that the
16		cash contribution to the pension trust for each of five years has been \$100 million,
17		whereas, the pension cost calculated in accordance with FAS 87 has been \$90
18		million in each of those five years. Table RRS-3 shows how the excess of cash
19		contributions each year creates a cumulative prepaid pension asset:

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1

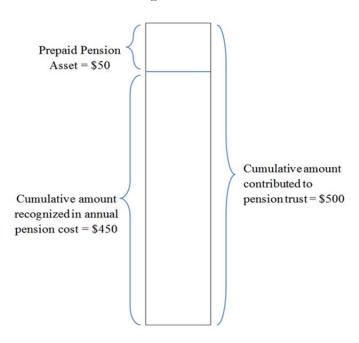
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#### **Table RRS-3 (amounts in millions)**

Year	Pension Contribution	Pension Cost	Cumulative Prepaid Pension Asset
1	\$100	\$90	\$10
2	\$100	\$90	\$20
3	\$100	\$90	\$30
4	\$100	\$90	\$40
5	\$100	\$90	\$50
Total	\$500	\$450	\$50

At the end of the five-year period, the utility has cumulative cash contributions of \$500 million and cumulative pension cost of \$450 million, which produces a prepaid pension asset of \$50 million, as shown in Figure RRS-1:

#### Figure RRS-1



#### Q. Why are the contributions and cost different in any given year?

1

- As I explained earlier in my discussion of qualified pension expense, the cost calculation is governed by FAS 87, but the contributions are driven by federal law requirements under ERISA, the IRC, and the Pension Protection Act. Although the cost and contribution calculations both use accrual methodologies, the assumptions, attribution methods, and periods of time over which the costs are required to be recognized are different and thus can often result in different annual amounts.
- Q. Can the utility withdraw the prepaid pension asset and use it to fund capital
   requirements or to pay for O&M expense?
- 11 A. No. Federal law prohibits the withdrawal of any amounts from the pension trust
  12 fund except for the payment of benefits and plan expenses. After the
  13 contributions are made, they are essentially locked away.
- 14 Q. Does SPS currently have a prepaid pension asset?
- 15 A. Yes. The thirteen-month average of the net prepaid pension asset balance as of March 31, 2019 was \$153,177,668 (\$43,289,376 New Mexico retail). 12

The net prepaid pension asset that appears in the cost of service is \$153,177,668 (\$43,289,376 New Mexico retail). That is the net of the prepaid qualified pension asset of \$153,633,570 and the non-qualified pension unfunded liability of \$455,903.

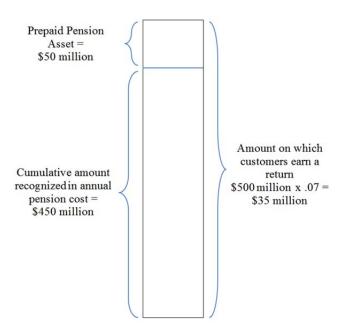
1	Q.	Is SPS seeking to include that prepaid pension asset in rate base?
2	A.	Yes. SPS is requesting Commission approval to include the prepaid pension asset
3		in rate base and to earn a return on that portion of the rate base at the WACC that
4		SPS has proposed in this case, which is 7.68%.
5	Q.	Do you recommend that the Commission include the prepaid pension asset in
6		rate base?
7	A.	Yes. The standard ratemaking practice is for prepayments to earn a return at the
8		utility's WACC. For example, New Mexico retail customers effectively earn a
9		return on the Accumulated Deferred Income Tax ("ADIT") balance included in
10		the cost of service at SPS's WACC because that ADIT balance is removed from
11		rate base, meaning customers are not paying a return on the portion of rate base
12		equal to the ADIT balance. Moreover, it is reasonable and equitable to include
13		the prepaid pension asset in rate base and for SPS to earn a return on it because
14		customers are also earning a return on the prepaid pension asset.
15	Q.	Please explain what you mean when you state that customers are also earning
16		a return on the prepaid pension asset.
17	A.	As I explained in a prior section of my testimony, one of the components of the
18		annual pension expense calculation is the return that the pension trusts are

	expected to earn on the assets in the trust. Suppose, for example, that a pension
	trust has assets of \$500 million and is expected to earn a return of 7% in the
	current year. Under those assumptions, \$35 million would be included in the
	annual pension cost calculation as the EROA. As I explained in a prior section
	the EROA is subtracted from the service cost and other elements of the annual
	pension cost. Therefore, in this example, the return on the pension trusts would
	reduce annual pension cost by \$35 million.
Q.	Does the pension trust fund balance that is multiplied by the EROA include
	the prepaid pension asset?
A.	Yes. As shown in Figure RRS-2 (on the next page), customers receive the benefit
	of the earnings on the entire amount of assets in the pension trust, not just the
	amount that has been recognized in annual pension cost.

Case No. 19-00170-UT Direct Testimony of Richard R. Schrubbe

Figure RRS-2<sup>13</sup>

1



- That means all of the assets in the pension trust, including the assets that comprise
  the prepaid pension asset, are used and useful to SPS's New Mexico retail
  customers.
- Does the fact that customers are receiving a return on the prepaid pension asset portion of the trust funds justify including the prepaid pension asset in rate base and allowing SPS to earn a return on it?
- 8 A. Yes. As demonstrated in Figure RRS-3 (on the next page), including the prepaid pension asset in rate base provides a return to the utility, and that return offsets the

The amounts in this figure are just examples that have been simplified for ease of understanding. The actual prepaid pension asset is less than \$50 million.

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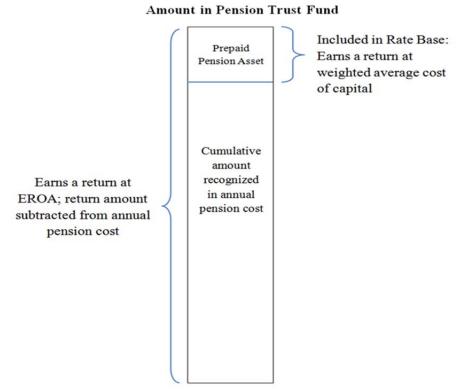
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reduction in the revenue requirement that results from the earnings on the prepaid pension asset included in the annual pension cost. With an exception I will discuss below, the return on the prepaid pension asset portion of rate base is simply the mirror image of the return that customers receive as a result of earnings on the prepaid pension asset.

Figure RRS-3



Thus, if customers receive the benefit of the earnings on the prepaid pension asset, it is appropriate for SPS to receive a return on the prepaid pension asset

- portion of rate base. Conversely, if SPS does not receive a return on the prepaid pension asset portion of rate base, customers should not receive the benefit of the earnings on the prepaid pension asset.
- Q. Please turn now from the hypothetical examples you have been discussing to SPS's actual prepaid pension asset. How much are SPS's New Mexico retail customers saving in annual pension cost as a result of the prepaid pension asset?
- 8 A. As Table RRS-4 shows, SPS's New Mexico retail customers are saving \$2,942,177 in annual pension costs as a result of the prepaid pension asset.

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Table RRS-4 (All figures are NM retail)

Pension Plan	Date	Prepaid Pension Asset 13-Month Average	EROA	Cost Reduction from Prepaid Pension Asset
NCE Non- Bargaining	3/31/2018 to 3/31/2019	\$7,631,301	6.90%	\$526,560
SPS Bargaining	3/31/2018 to 3/31/2019	\$35,786,916	6.75%	\$2,415,617
Total		\$43,418,217 <sup>14</sup>		\$2,942,177

This is the New Mexico jurisdictional amount of the prepaid qualified prepaid asset, without the offset of the unfunded non-qualified pension liability. It is appropriate to perform the calculation in Table RRS-4 using the prepaid qualified pension asset balance, rather than the net of the qualified prepaid pension asset and the unfunded non-qualified pension liability, because the unfunded liability is included in the cost of service as a deduction to rate base. Thus, customers are already receiving the benefit of that unfunded liability.

#### 1 Q. Please explain SPS's request regarding its prepaid pension asset.

- 2 SPS is requesting that the prepaid pension asset of \$153,633,570 (\$43,418,217 A. 3 New Mexico retail) be included in rate base to provide a corresponding return to 4 shareholders. Otherwise, the qualified prepaid pension asset is solely generating a 5 return for customers through lower pension expense. The prepaid pension asset represents assets that are delivering a direct benefit to customers because the 6 7 investment income on those assets lowers the pension expense under FAS 87. It is therefore appropriate to include the prepaid pension asset in rate base. The 8 9 calculation to support the prepaid pension asset thirteen-month average can be 10 found in my Attachment RRS-6, and the cumulative qualified prepaid pension asset balance since the adoption of FAS 87 can be found in my Attachment 11 12 RRS-7.
- Q. If SPS had an unfunded accrued cost instead of a prepaid pension asset, would you be recommending that amount be subtracted from rate base?
- 15 A. Yes. In fact, that is the situation with SPS's FAS 106, FAS 87 non-qualified and
  16 FAS 112 balances. For those elements of cost, the cumulative amount of expense
  17 recognized for GAAP purposes is larger than the cumulative contributions by SPS

1		to the trusts. Thus, SPS has reduced its rate base to reflect those accrued
2		liabilities.
3	Q.	Is SPS's requested WACC on the prepaid pension asset in this case higher
4		than the EROA on the prepaid pension asset?
5	A.	Yes. In this case, SPS's requested WACC is 7.68% and the weighted average of
6		the 2019 forecasted EROA for the SPS Bargaining Plan and the New Century
7		Energies ("NCE") <sup>15</sup> Non-Bargaining Plan 2019 is 6.78%. <sup>16</sup>
8	Q.	Is it equitable for SPS to earn a WACC return on the prepaid pension asset if
9		customers are receiving a reduction in cost based on the lower EROA on the
9 10		customers are receiving a reduction in cost based on the lower EROA on the prepaid pension asset?
	A.	
10	A.	prepaid pension asset?
10 11	A.	prepaid pension asset?  Yes, for three reasons. First, as I noted earlier, prepayments typically earn a
<ul><li>10</li><li>11</li><li>12</li></ul>	A.	prepaid pension asset?  Yes, for three reasons. First, as I noted earlier, prepayments typically earn a return at the utility's WACC, and there is no reason to treat the prepaid pension
<ul><li>10</li><li>11</li><li>12</li><li>13</li></ul>	A.	prepaid pension asset?  Yes, for three reasons. First, as I noted earlier, prepayments typically earn a return at the utility's WACC, and there is no reason to treat the prepaid pension asset differently.

 $<sup>^{15}\,</sup>$  NCE refers to New Century Energies, Inc., which merged with Northern States Power Company in 2000 to create Xcel Energy.

<sup>&</sup>lt;sup>16</sup> The EROA for the SPS Bargaining Plan is 6.75%, and the EROA for the NCE Non-Bargaining Plan is 6.90%. The weighted average of those amounts is 6.78%.

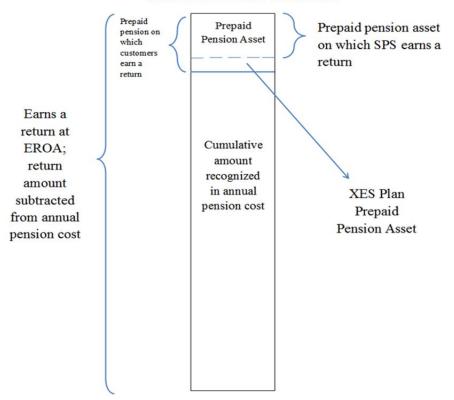
earning a return, the amounts are not equal insofar as SPS is concerned. SPS's
annual pension cost includes costs for three different pension plans - the SPS
Bargaining Plan, the NCE Non-Bargaining Plan, and the XES Plan. All three of
those plans have prepaid pension assets, and customers earn a return on all three
plans. However, SPS does not include the XES Plan portion of the prepaid
pension asset in rate base because that asset belongs to XES, not to SPS.
Therefore, SPS's customers are receiving a return on the XES Plan portion of the
prepaid pension asset, but they do not pay a return on that asset. To reflect SPS's
actual circumstances, it is necessary to modify the figure, as reflected in Figure
RRS-4 (on the next page), to show the actual amount on which SPS earns a return
as part of rate base:

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Figure RRS-4

1

#### **Amount in Pension Trust Fund**



- 2 As this figure shows, customers earn a return on a larger prepaid pension asset
- 3 balance than SPS does.
- 4 Q. What was SPS's portion of the 13-month average of the XES Plan prepaid
- 5 pension asset as of March 31, 2019?
- 6 A. The New Mexico retail portion of the 13-month average XES Plan prepaid
- 7 pension asset was approximately \$4.8 million as of March 31, 2019. With an

1		EROA of 7.10% for the XES Plan, SPS's New Mexico customers receive
2		\$341,148 of return on an asset on which they pay no return. That reduces annual
3		pension expense by an equal amount.
4	Q.	You testified earlier that there are three separate reasons why it is
5		reasonable for SPS to earn a WACC return on the prepaid pension asset.
6		What is the third reason?
7	A.	The contributions that helped create the prepaid pension asset allow SPS to avoid
8		incurring Pension Benefit Guaranty Corporation ("PBGC") premiums that would
9		otherwise be included within the annual pension cost charged to customers.
10		Avoidance of those PBGC premiums ensures that customers realize a net benefit
11		as a result of the prepaid pension asset, even when SPS earns a return at the
12		WACC.
13	Q.	Please explain what the PBGC is.
14	A.	The PBGC is a federal agency established by Congress as part of ERISA to insure
15		pension benefits under private sector defined benefit pension plans. If a pension
16		plan is terminated without sufficient money to pay all benefits, PBGC's insurance
17		program will pay employees the benefits promised under the pension plan, up to
18		the limits set by law. The funding for the PBGC comes partly from premiums
19		charged to pension sponsors and partly from returns on assets held by the PBGC.

1	Q.	What types of premiums does the PBGC charge?
2	A.	The PBGC charges two types of premiums: (1) a per capita premium that is
3		charged to all single-employer defined-benefit plans; and (2) a variable premium
4		charged to underfunded plans. The amounts of the premiums are set by Congress
5		and must be paid by sponsors of defined-benefit plans, such as SPS.
6	Q.	What are the variable-rate premiums applicable to underfunded plans?
7	A.	For 2018, the PBGC variable-rate premium for a single employer plan such as
8		that of SPS was \$38 per \$1,000 of unfunded vested benefit.
9	Q.	Do SPS and its customers avoid the payment of PBGC premiums because of
10		the contributions that helped create the prepaid pension asset?
11	A.	Yes. New Mexico customers received the benefit of reduced PBGC premiums in
12		the Base Period, and SPS projects that it will have additional PBGC savings in the
13		future. The PBGC premiums would have been \$443,140 higher in 2018 in the
14		absence of the prepaid pension asset. This additional cost would be passed on to
15		customers as increased pension expense.
16	Q.	Can you demonstrate mathematically that SPS's customers are better off as
17		a result of the prepaid pension asset?
18	A.	Yes. As shown in Table RRS-7, multiplying the SPS prepaid pension asset of
19		\$43,418,217 (New Mexico retail) by the 7.68% percent WACC requested by SPS
20		results in a return to SPS of \$3,334,419 on the prepaid pension asset. Customers,

however, receive \$3,283,324 of benefit as a result of the return on the prepaid pension assets (which includes the XES Plan portion of the prepaid asset), and they avoid paying \$443,140 in PBGC premiums as a result of the prepaid pension asset. Thus, even with the SPS prepaid pension asset included in rate base and earning a return at the WACC, SPS's New Mexico customers realize a net benefit of \$391,946 as a result of the prepaid pension asset.

7 Table RRS-7

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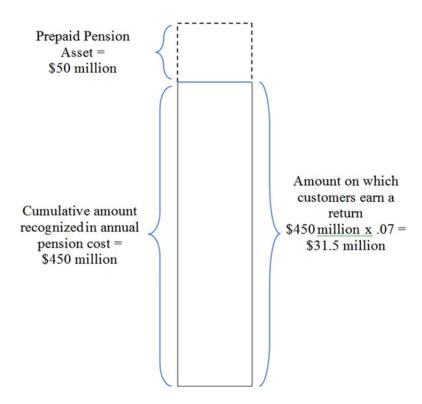
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Net benefit to SPS customers from prepaid pension asset	=		\$391,946
Return on prepaid pension asset at WACC	-		\$3,334,519
Total Pension Benefit			\$3,726,465
Avoided PBGC premiums	+		\$443,140
Return on XES prepaid pension asset	=		\$341,148
EROA for XES prepaid pension asset	X	7.10%	
Balance of XES prepaid pension asset		\$4,804,895	
Initial return benefit to customers	=		\$2,942,177
Weighted average EROA for SPS Bargaining and NCE Non-Bargaining plans	X	6.776%	
SPS Prepaid pension asset balance (excluding the XES prepaid pension asset)		\$43,418,217	

1 Q. Thus far you have been discussing the justification of including the SPS 2 prepaid pension asset in rate base. Is including the SPS prepaid pension 3 asset in rate base the only way of dealing with the prepaid pension asset 4 issue? 5 No. Another solution would be to exclude the earnings on the assets represented A. 6 by the SPS prepaid pension asset from the calculation of annual pension cost for regulatory purposes. The basic point is that customers should not be earning a 7 8 return on the prepaid pension assets without providing a corresponding return. It 9 would be inequitable to deny SPS a return on the SPS prepaid pension asset while 10 providing to customers all the benefits arising from the existence of these assets. 11 The entire prepaid pension asset produces investment income to offset pension 12 expenses, regardless of when the amounts were contributed or realized. Thus, if 13 the SPS prepaid pension asset is excluded from rate base, the earnings on the 14 prepaid pension assets should be excluded from the calculation of annual pension cost, as depicted on Figure RRS-5 (on the next page):<sup>17</sup> 15

<sup>&</sup>lt;sup>17</sup> The ADIT, FAS 106, and FAS 112 balances would have to be adjusted as well.

Figure RRS-5<sup>18</sup>



- 1 Q. Do you recommend that the Commission exclude the return on the SPS
- 2 prepaid pension asset from rate base and from the calculation of annual
- 3 pension cost?
- 4 A. No. As I explained earlier, SPS's customers are actually better off as a result of
- 5 the prepaid pension asset because they receive a return on the New Mexico retail

Again, these numbers are merely illustrative, but they demonstrate that customers are worse off if the prepaid pension asset is excluded from the calculation of annual pension cost. In the example in Figure RRS-5, customers get credit for \$35 million in earnings, whereas without the \$50 million prepaid pension asset, they get credit for only \$31.5 million in earnings.

1		portion of the XES prepaid pension asset but do not pay a return on it because that
2		prepaid pension asset is not included in the amount requested in rates. In
3		addition, the customers receive a benefit from the avoidance of incremental
4		PBGC premiums as a result of the prepaid pension asset. When all of those
5		factors are considered, SPS's customers are better off if the prepaid pension asset
6		is included in both rate base and the calculation of annual pension cost, even after
7		the return on the prepaid pension asset is grossed up for taxes.
8	Q.	How would it affect SPS's annual pension cost if the earnings on the pension
9		trust assets were excluded from the cost of service?
10	A.	SPS's annual pension cost would increase by more than \$2.9 million if the
11		earnings on the SPS pension trust assets were excluded from the cost of service.
12		Because pension costs are passed through to customers on a dollar-for-dollar
13		basis, SPS's revenue requirement would increase by the same amount.
14	Q.	Does this conclude your pre-filed direct testimony?
15	A.	Yes.

#### **VERIFICATION**

STATE OF MINNESOTA	)
	) ss
COUNTY OF HENNEPIN	)

RICHARD R. SCHRUBBE, first being sworn on his oath, states:

I am the witness identified in the preceding direct testimony. I have read the direct testimony and the accompanying attachment(s) and am familiar with their contents. Based upon my personal knowledge, the facts stated in the testimony are true. In addition, in my judgment and based upon my professional experience, the opinions and conclusions stated in the testimony are true, valid, and accurate.

RICHARD R. SCHRUBBE

SUBSCRIBED AND SWORN TO before me this 28 day of June, 2019 by RICHARD R. SCHRUBBE.

Notary Public of the State of Minnesota
My Commission Expires: Anuary 3

ANN MARIE SAWYER

Notary Public-Minnesota

My Commission Expires Jan 31, 2023

Total Company Amounts and Jurisdictional Percentages

Southwestern Public Service Company

Line			Page		Total Company	) N	Number	Allocator	TY Allocator	NM Retail
No.	Witness	Description	So.	Line No.	Amount		Scale	(Name)	(%)	Amount
_	Schrubbe	Section II - Total Pension and Other Post-Employment	5	1	\$ 10,211,527	527	dollars	dollars LABXAG	0.277614	\$ 2,834,865
7	Schrubbe	Section II - Qualified Pension	5	3	\$ 9,815,224	224	dollars	dollars LABXAG	0.277614	\$ 2,724,846
$\varepsilon$	Schrubbe	Section II - Non-Qualified Pension	5	4	\$ 413,381	381	dollars	dollars LABXAG	0.277614	\$ 114,761
4	Schrubbe	Section II - FAS 106 Retiree Medical	5	5	\$ (31,271)	271)	dollars	dollars LABXAG	0.277614	\$ (8,681)
5	Schrubbe	Section II - FAS 112 Self-Insured LTD	5	9	\$ 14,192	192	dollars	dollars LABXAG	0.277614	\$ 3,940
9	Schrubbe	Section II - Active Health & Welfare	5	6	\$ 15,958,584	584	dollars	dollars LABXAG	0.277614	\$ 4,430,330
7	Schrubbe	Section II - Active Healthcare	5	10	\$ 14,455,628	628	dollars	dollars LABXAG	0.277614	\$ 4,013,088
∞	Schrubbe	Section II - Third-Party LTD	5	11	\$ 609,712	712	dollars	dollars LABXAG	0.277614	\$ 169,265
6	Schrubbe	Section II - Life Insurance	5	12	\$ 152,145	145	dollars	dollars LABXAG	0.277614	\$ 42,238
10	Schrubbe	Section II - Miscellaneous Benefits	5	13	\$ 741,099	660	dollars	dollars LABXAG	0.277614	\$ 205,740
11	Schrubbe	Section II - Third-Party-Insured Workers' Compensation	5	15&16	\$ 811,724	724	dollars	dollars LABXAG	0.277614	\$ 225,346
12	Schrubbe	Section II - Other Pension and Benefit-Related	5	17	\$ 3,437,221	221	dollars	dollars LABXAG	0.277614	\$ 954,222
13	Schrubbe	Section II - Thirteen-Month Average Net Prepaid Asset	9	7	\$ 153,177,668	899	dollars	LABOR	0.282609	\$ 43,289,376
14	Schrubbe	Section III - Qualified Pension	10	Table RRS-1	\$ 9,815,224	224	dollars	dollars LABXAG	0.277614	\$ 2,724,846
15	Schrubbe	Section III - Non-Qualified Pension	10	Table RRS-1	\$ 413,381	381	dollars	dollars LABXAG	0.277614	\$ 114,761
16	Schrubbe	Section III - FAS 106 Retiree Medical	10	Table RRS-1	(31,	(31,271)	dollars	dollars LABXAG	0.277614	\$ (8,681)
17	Schrubbe	Section III - FAS 112 Long-Term Disability (Self-Insured_	10	Table RRS-1	\$ 14,	14,192	dollars	dollars LABXAG	0.277614	\$ 3,940
18	Schrubbe	Section III - Active Health Care	10	Table RRS-1	\$ 14,455,628	628	dollars	dollars LABXAG	0.277614	\$ 4,013,088
19	Schrubbe	Section III - Long-Term Disability (Third-Party-Insured)	10	Table RRS-1	\$ 609,712	712	dollars	dollars LABXAG	0.277614	\$ 169,265
20	Schrubbe	Section III - Life Insurance	10	Table RRS-1	\$ 152,145	145	dollars	dollars LABXAG	0.277614	\$ 42,238
21	Schrubbe	Section III - Miscellaneous Benefit Programs and Costs	10	Table RRS-1	\$ 741,099	660	dollars	dollars LABXAG	0.277614	\$ 205,740
22	Schrubbe	Section III - 401(k) Match	10	Table RRS-1	\$ 3,198,137	137	dollars	dollars LABXAG	0.277614	\$ 887,848
23	Schrubbe	Section III - Miscellaneous Retirement-Related Costs	10	Table RRS-1	\$ 239,084	084	dollars	dollars LABXAG	0.277614	\$ 66,373
24	Schrubbe	Section III - Workers Compensation (Third-Party-Insured)	10	Table RRS-1	\$ 811,724	724	dollars	dollars LABXAG	0.277614	\$ 225,346
25	Schrubbe	Section IV - Qualified Pension (Base Period)	21	13	\$ 10,989,781	781	dollars	dollars LABXAG	0.277614	\$ 3,050,920
56	Schrubbe	Section IV - Qualified Pension (K&M Adjustment)	21	18&19	\$ (1,174,557)	557)	dollars	dollars LABXAG	0.277614	\$ (326,074)
27	Schrubbe	Section IV - Qualified Pension	22	5	\$ 9,815,224	224	dollars	dollars LABXAG	0.277614	\$ 2,724,846
28	Schrubbe	Section IV - Non-Qualified Pension (Base Period)	24	10	\$ 470,671	671	dollars	dollars LABXAG	0.277614	\$ 130,665
53	Schrubbe	Section IV - Non-Qualified Pension (K&M Adjustment)	24	15&16	\$ (57,290)	290)	dollars	dollars LABXAG	0.277614	\$ (15,905)
30	Schrubbe	Section IV - Non-Qualified Pension	25	3	\$ 413,381	381	dollars	dollars LABXAG	0.277614	\$ 114,761
31	Schrubbe	Section IV - FAS 106 Retiree Medical (Base Period)	26	10	\$ (122,475)	475)	dollars	dollars LABXAG	0.277614	\$ (34,001)
32	Schrubbe	Section IV - FAS 106 Retiree Medical (K&M Adjustment)	26	14	~	91,204	dollars	dollars LABXAG	0.277614	\$ 25,320
33	Schrubbe	Section IV - FAS 106 Retiree Medical	27	3	\$ (31,	(31,271)	dollars	dollars LABXAG	0.277614	\$ (8,681)
34	Schrubbe	Section IV - FAS 112 Self-Insured LTD (Base Period)	28	14	\$	3,071	dollars	dollars LABXAG	0.277614	\$ 853

Southwestern Public Service Company

Total Company Amounts and Jurisdictional Percentages

Line			Page		Total Company Number Allocator	Number	Allocator	TY Allocator	NM Retail	
Š.	Witness	Description	Š.	Line No.	Amount	Scale	(Name)	(%)	Amount	
35	Schrubbe	Schrubbe Section IV - FAS 112 Self-Insured LTD (K&M Adjustment)	28	17	\$ 11,121	dollars	LABXAG	0.277614	\$ 3,087	
36	Schrubbe	Schrubbe Section IV - FAS 112 Self-Insured LTD	29	5	\$ 14,192	dollars	dollars LABXAG	0.277614	\$ 3,940	
37	Schrubbe	Schrubbe Section V - Active Health Care	31	15	\$ 14,455,628	dollars	dollars LABXAG	0.277614	\$ 4,013,088	
38	Schrubbe	Schrubbe Section V - Active Health Care (K&M Adjustment)	32	16&17	\$ 330,841	dollars	dollars LABXAG	0.277614	\$ 91,846	
39		Schrubbe   Section V - Active Health Care (K&M Adjustment 1)	33	7	\$ 392,667	dollars	dollars LABXAG	0.277614	\$ 109,010	
40	Schrubbe	Schrubbe   Section V - Active Health Care (K&M Adjustment 2)	33	6	\$ 178,559	dollars	dollars LABXAG	0.277614	\$ 49,571	
41	Schrubbe	Schrubbe   Section V - Active Health Care (K&M Adjustment 3)	33	12	\$ (240,385)	dollars	dollars LABXAG	0.277614	\$ (66,734)	
42	Schrubbe	Schrubbe   Section V - Active Health Care (K&M Adjustment)	33	13	\$ 330,841	dollars	dollars LABXAG	0.277614	\$ 91,846	
43	Schrubbe	Schrubbe   Section V - Active Health Care	33	17	\$ 14,455,628	dollars	dollars LABXAG	0.277614	\$ 4,013,088	
4	Schrubbe	Schrubbe   Section V - Third-Party LTD	34	17	\$ 609,712	dollars	dollars LABXAG	0.277614	\$ 169,265	
45	Schrubbe	Schrubbe Section V - Life Insurance (Base Period)	35	10	\$ 152,145	dollars	LABXAG	0.277614	\$ 42,238	
46	Schrubbe	Schrubbe   Section V - Miscellaneous Benefit Programs and Costs (Base)	36	6	\$ 741,099	dollars	LABXAG	0.277614	\$ 205,740	
47	Schrubbe	Schrubbe   Section VI - Third-Party-Insured Workers' Compensation	38	3	\$ 811,724	dollars	dollars LABXAG	0.277614	\$ 225,346	
48	Schrubbe	Schrubbe Section VII - 401(k) Match (Base Period)	40	5	\$ 3,105,887	dollars	dollars LABXAG	0.277614	\$ 862,238	
49	Schrubbe	Schrubbe   Section VII - 401(k) Match (K&M Adjustment)	40	8	\$ 92,250	dollars	LABXAG	0.277614	\$ 25,610	
50	Schrubbe	Schrubbe Section VII - 401(k) Match	40	16	\$ 3,198,137	dollars	LABXAG	0.277614	\$ 887,848	
51	Schrubbe	Schrubbe   Section VII - Miscellaneous Retirement-Related Costs (Base)	41	8	\$ 239,084	dollars	LABXAG	0.277614	\$ 66,373	
52	Schrubbe	Schrubbe Section VIII - Prepaid Pension Asset (13-Month Average)	44	16	\$ 153,177,668	dollars	LABOR	0.282609	\$ 43,289,376	
53		Schrubbe   Section VIII - Prepaid Pension Asset	50	1	\$ 153,633,570	dollars	LABOR	0.282609	\$ 43,418,217	

#### Willis Towers Watson | | | | | | | | | | |

May 18, 2018

Mr. Richard R. Schrubbe AVP, Financial Analysis & Planning Xcel Energy Inc. 401 Nicollet Mall 3<sup>rd</sup> Floor Minneapolis, Minnesota 55401

#### 2018 VALUATION RESULTS AND 2019-2023 CONTRIBUTION AND COST ESTIMATES

Dear Rick:

This letter summarizes the results of the 2018 plan year IRS funding valuations for Xcel Energy's qualified pension plans. Also included are final 2018 costs and updated 2019-2023 cost estimates for the Long-Term Disability (LTD) and Workers' Compensation plans. The results for these plans have been updated from the February 9, 2018, results to reflect 2018 census data for both plans. The 2020-2023 cost estimates for the PSCo Bargaining Plan have been updated to reflect the 5% cash balance plan for new hires, and the savings are projected to begin in 2020 when the new hires become participants in the plan. Costs for all other plans are unchanged from February 9, 2018.

Attached to this letter are updated PBGC variable rate premium and PBO funded status forecasts followed by benefit cost exhibits. Also included is an exhibit that provides plan specific details of the cost reconciliations for the qualified pension plans.

#### PENSION PLAN FUNDING

#### Summary of Key Results

The key results for each plan are provided in the following table:

(\$ in Millions)		l Energy sion Plan	Nonb	NCE argaining Plan	Ва	SPS rgaining Plan	Bar	PSCo gaining Plan
Effective Interest Rate		5.52%		5.44%		5.68%		5.65%
Contributions for the 2018 Plan Year (as	of Janu	uary 1, 2018	B)					
Minimum Required Contribution Before Funding Balance	\$	67.6	\$	12.8	\$	10.8	\$	18.6
Minimum Required Contribution After Funding Balance	\$	0.0	\$	1.4	\$	0.0	\$	0.0
PBGC Premiums								
PBGC Variable Rate Premiums	\$	0.0	\$	0.9	\$	0.0	\$	3.5

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Mr. Richard R. Schrubbe May 18, 2018

#### Funded Status

A plan's funded status is measured by comparing the present value of plan benefits to the value of plan assets. The following table summarizes the 2018 plan year funded percentages:

20 <sup>-</sup> (\$	n Thousands)	Xcel Energy Pension Plan	NCE Nonbargaining Plan	SPS Bargaining Plan	PSCo Bargaining Plan
1.	Effective Interest Rate	5.52%	5.44%	5.68%	5.65%
2.	Target Liability as of January 1	\$1,552,878	\$247,394	\$310,436	\$887,694
3.	Actuarial Value of Assets as of January 1	\$1,595,413	\$242,395	\$346,874	\$891,871
4.	Funding Balance as of January 1	\$191,657	\$11,435	\$60,204	\$101,952
5.	Funded Percentage before funding balance reduction from plan assets [(3) / (2)]	102.7%	98.0%	111.7%	100.5%
6.	Funded Percentage with funding balance reduction from plan assets (FTAP) $[((3) - (4)) / (2)]$	90.4%	93.4%	92.3%	89.0%
7.	Preliminary Adjusted Funding Target Attainment Percentage (AFTAP) <sup>1</sup>	102.7%	93.4%	111.7%	100.5%

<sup>1</sup> If Actuarial Value of Assets/Target Liability >= 100%, the AFTAP matches line 5; otherwise it matches line 6.

#### Benefit Restrictions

Based on the 2018 funding results, benefit restrictions are not expected to apply for the 2018 plan year since the preliminary AFTAP for each plan exceeds 80.0%. We will provide our certification of the funded status for the plans prior to the September 30, 2018 deadline.

#### Funding Balances

The following summarizes the funding balance activity for the Xcel Energy pension plans.

(\$ in Millions)	Xcel Energy Pension Plan		NCE Nonbargaining Plan		SPS Bargaining Plan		PSCo Bargaining Plan	
Funding Balances at January 1, 2017	\$	148.5	\$	12.5	\$	57.4	\$	93.2
Funding Balances used for the 2017 plan year		(65.3)		(8.6)		(4.8)		(12.0)
Excess contributions elected to be added to funding balance		95.5		7.0		0.0		7.8
Investment experience adjustments		13.0		0.5		7.6		13.0
Amount of funding balance forfeited for AFTAP purposes		0.0		0.0		0.0		0.0
Funding Balances at January 1, 2018	\$	191.7	\$	11.4	\$	60.2	\$	102.0

#### PBGC Premiums

The PBGC variable rate premium amounts are based on the Standard Premium Funding Target for the PSCo Bargaining Plan and the NCE Nonbargaining Plan. The Alternative Premium Funding Target is used for the Xcel Energy Pension Plan and the SPS Bargaining Plan. The PSCo Bargaining Plan and the NCE Nonbargaining Plan are above the per-participant cap and the variable rate premium is limited to \$523 per

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Mr. Richard R. Schrubbe May 18, 2018

participant. The Xcel Energy Pension Plan and the SPS Bargaining Plan do not have an unfunded vested liability; therefore the variable rate premium is \$0 for these plans.

The NCE Nonbargaining Plan and PSCo Bargaining Plan can eliminate variable rate premiums with September 15, 2018 contributions of \$24.0 million and \$129.1 million, respectively.

#### ERISA 4010 Funded Status

An ERISA 4010 filing is required if any 4010 Funding Target Attainment Percentage (4010 FTAP) for a plan within the controlled group of the plan sponsor is less than 80%. For this purpose, the target liability is calculated using interest rates that ignore the MAP-21/HATFA/BBA interest rate corridors and plan assets are reduced by the amount of the prefunding balance and funding standard carryover balance. This determination is done as of the valuation date for the plan year ending within the information year ending December 31, 2018 (i.e., the 2018 plan year). The valuation date for the 2018 plan year is January 1, 2018. The January 1, 2018 4010 FTAPs for all Xcel Energy pension plans are as follows:

<b>4010 FTAP – 2018</b> (\$ in Thousands)		Xcel Energy Pension Plan	NCE Nonbargaining Plan	SPS Bargaining Plan	PSCo Bargaining Plan	
1.	Effective Interest Rate	3.84%	3.73%	4.02%	3.99%	
2.	Target Liability as of January 1	\$1,768,124	\$278,408	\$372,530	\$1,056,005	
3.	Actuarial Value of Assets as of January 1	\$1,595,413	\$242,395	\$346,874	\$891,871	
4.	Funding Balance as of January 1	\$191,657	\$11,435	\$60,204	\$101,952	
5.	Funded Percentage with funding balance reduction from plan assets (4010 FTAP) [((3) – (4)) / (2)]	79.4%	83.0%	77.0%	74.8%	

Based on the results above, a filing will be required for the 2018 information (fiscal) year unless additional contributions for the 2017 plan year are made on or before September 15, 2018. Alternatively, funding balances may be forfeited such that the 4010 FTAP for each plan is above 80%. More specifically, Xcel Energy can avoid an ERISA 4010 filing with contributions and/or funding balance forfeitures by September 15, 2018 of \$11.2 million, \$11.8 million, and \$57.2 million to the Xcel Energy Pension Plan, SPS Bargaining Plan, and PSCo Bargaining Plan respectively. If no action is taken and a 4010 filing is required for the 2018 information year, the submission deadline will be April 15, 2019.

#### LONG-TERM DISABILITY AND WORKERS' COMPENSATION RESULTS

The combined 2018 cost/(income) for the Workers' Compensation plan and the Long-Term Disability plan is \$0.6 million, a \$0.6 million decrease from our February estimate of \$1.2 million. The final discount rate used for these plans is 3.51%, which is the same as the estimated rate used for the February results.

The actual 2018 cost/(income) for the Long-Term Disability plan is \$(0.2) million, which is a decrease of \$0.6 million compared to the 2018 estimated cost/(income) for the plan provided in February. The cost for the plan decreased due to census data changes, which included fewer participants receiving payments from the plan than expected. The actual 2018 cost/(income) for the Workers' Compensation plan is \$0.8 million, which is the same as the estimated 2018 cost/(income) for the plan provided in February.

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Mr. Richard R. Schrubbe May 18, 2018

#### **RESULTS EXHIBITS**

Pension contribution and PBGC variable rate premium forecasts are attached to the end of this letter. The planned funding schedule provided by Xcel Energy is assumed to sufficiently cover all minimum required contributions. Contribution and PBGC premium forecasts include estimates of the new IRS prescribed mortality tables starting in 2019. Benefit cost forecasts for all plans except the PSCo Bargaining Plan and LTD and Workers' Compensation plans have not been updated from the forecasts provided on February 9, 2018. Estimates of 2019-2023 benefit costs summarized by legal entity are also presented in the attached exhibits as follows:

■ Exhibit I: Benefit Cost Estimates – Qualified Pension Plans

Exhibit II: Benefit Cost Estimates – Nonqualified Pension Plans

Exhibit III: Benefit Cost Estimates – Retiree Medical and Life Insurance Plan

■ Exhibit IV: Liabilities – LTD and Workers' Compensation

■ Exhibit V: Claims and Expenses – LTD and Workers' Compensation

■ Exhibit VI: Benefit Cost Estimates – LTD and Workers' Compensation

■ Exhibit VII: Benefit Cost Reconciliation Details – Qualified Pension Plans

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#### Plans Valued

The attached exhibits include estimates for the following employee benefit plans maintained by Xcel Energy Inc. (Xcel Energy):

- Xcel Energy Pension Plan
- Xcel Energy Inc. Nonbargaining Pension Plan (South) [NCE Nonbargaining Plan]
- New Century Energies Inc. Retirement Plan for SPS Bargaining Unit Employees and Former Nonbargaining Unit Employees [SPS Bargaining Plan]
- New Century Energies Inc. Retirement Plan for PSCo Bargaining Unit Employees and Former Nonbargaining Unit Employees [PSCo Bargaining Plan]
- Xcel Energy Nonqualified Defined Benefit Plan
- Xcel Energy SERP
- SPS SERP
- Employment Agreements
- Fort St. Vrain Nuclear Operations Personnel Plan
- NMC SERP Part A
- Xcel Energy Retiree Medical and Life Insurance Plan (including Executive Life Insurance)
- Xcel Energy Workers' Compensation
- Xcel Energy Long-Term Disability (LTD) Income

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### FORECAST RESULTS

Forecast results are based on the information summarized below.

The following provides a reconciliation of actual 2018 costs to 2019 estimated costs, prior to regulatory effects and potential settlement charges:

Reconciliation of Benefit Costs (prior to regulatory effects and potential settlement charges)

(\$ in Millions)	Qualified Pension <sup>1</sup>	Nonqualified Pension	Retiree Medical	Workers' Compen- sation	Long Term Disability	Total
Final 2018	\$116.3	\$4.3	(\$5.0)	\$0.8	(\$0.2)	\$116.2
Historical asset performance	1.1	0.0	0.0	0.0	0.0	1.1
Expected liability, asset, and loss amortization changes	(14.4)	0.0	(0.2)	(0.4)	0.5	(14.5)
Initial 2019 Estimate	\$103.0	\$4.3	(\$5.2)	\$0.4	\$0.3	\$102.8

<sup>1</sup> Qualified Pension Plan costs reflect the assumption that NSP-MN and Xcel Energy Nuclear costs are determined under the Aggregate Cost Compensation Method. No additional regulatory deferrals have been reflected. See Exhibit VII for additional details.

### DATA, ASSUMPTIONS, METHODS AND PLAN PROVISIONS

The 2018 benefit costs, 2018 funding results and estimated 2019-2023 costs reflect the following data, assumptions, methods and plan provisions:

### Data

For the qualified and nonqualified pension plans and the retiree medical plan, the 2018 benefit cost results and results for 2019-2023 are based on participant data as of January 1, 2017, projected to the end of the year based on status, compensation and benefit changes through November 30, 2017, and known retirements for December 2017. Actual new entrants through November 30, 2017, and expected new entrants through December 31, 2017, are included. See our February 9, 2018, letter for more details. For the Workers' Compensation and Long-Term Disability plans, the 2018 benefit cost results and estimated costs for 2019-2023 are based on participant data as of January 1, 2018. The 2018 pension funding results are based on data as of January 1, 2018.

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### **Economic Assumptions**

The key assumptions used to determine the actual 2018 and estimated 2019 - 2023 benefit cost results are provided below. The assumptions used to calculate the cost under the aggregate cost method are the same as used to prepare the ASC 715 results, except as noted. Actual asset returns net of administrative expenses are assumed to equal the expected return on assets assumptions throughout the forecast period.

	May 18, 2018 results
Benefit Cost	
Discount Rate – ASC 715:	
■ Xcel Energy Pension Plan	3.60%
■ NCE Nonbargaining Pension Plan	3.52%
SPS Bargaining Pension Plan	3.71%
■ PSCo Bargaining Pension Plan	3.68%
Nonqualified Pension Plan	3.49%
Retiree Medical and Life Insurance Plan	3.62%
■ Workers' Compensation and LTD	3.51%
Expected Return on Assets Assumption – Pension:	
Xcel Energy Pension Plan	7.10%
■ NCE Nonbargaining Pension Plan	6.90%
<ul> <li>SPS Bargaining Pension Plan</li> </ul>	6.75%
■ PSCo Bargaining Pension Plan	6.50%
■ Weighted Average Expected Return	6.87%
Expected Return on Assets Assumption – VEBA (Bargaining/Nonbargaining)	5.80%
Discount Rate – Aggregate Cost	7.10%
Salary Scale <sup>1</sup>	3.75%
Initial Medical Trend:	
■ Pre-Medicare	7.00%
■ Post-Medicare	5.50%
Ultimate Medical Trend	4.50%
Year Ultimate Trend is Reached	2023

<sup>&</sup>lt;sup>1</sup> Career average of age-graded table (nonbargaining) and service-graded table (bargaining)

- The interest rate for converting lump sums to annuities and annuities to lump sums was updated from 4.00% to 3.50% in all years. The pre-PPA lump sum conversion interest rate was updated from 3.00% to 3.75%.
- The interest crediting rate for the 5% cash balance formula was updated from 3.00% to 2.75%. The interest crediting rate for the Retirement Spending Account was updated from 1.75% to 2.50%.
- The HRA trend assumption remains at 2.0%.
- The medical trend assumption was updated to an initial rate of 7.0% in 2018 for pre-65 claims costs and an initial rate of 5.5% in 2018 for post-65 claims costs, with both pre-65 and post-65 claims costs grading to an ultimate rate of 4.5% in 2023. The previous medical trend assumption was an initial rate of 5.0% in 2018 grading to an ultimate rate of 4.5% in 2019, for both pre-65 and post-65 claims costs.

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We have assumed Xcel Energy continues to use the 24-month average of the three-segment interest rates as of September in the year prior to the valuation date with applicable interest rate stabilization corridors. The underlying three-segment rates from early May 2018 were assumed to remain constant throughout the forecast period. This methodology produces the following effective interest rates:

			Year			
	2018	2019	2020	2021	2022	2023
Xcel Energy Pension Plan	5.52%	5.36%	5.22%	4.83%	4.45%	4.20%
NCE Nonbargaining Plan	5.44%	5.27%	5.14%	4.74%	4.36%	4.11%
SPS Bargaining Plan	5.68%	5.51%	5.38%	4.97%	4.58%	4.31%
PSCo Bargaining Plan	5.65%	5.49%	5.35%	4.95%	4.56%	4.30%

### Demographic Assumptions

- Active participant counts are assumed to remain level throughout the forecast period.
- For the accounting benefit cost valuations, the mortality assumption is the RP-2014 tables (blue collar for bargaining participants and white collar for nonbargaining participants, as adjusted for 2014 Xcel Energy mortality study) projected with generational mortality improvements using an adjusted SOA MP-2016 methodology.
- For the accounting benefit cost valuations, the mortality assumption for converting lump sums to annuities
  or annuities to lump sums is the 2018 IRS mortality tables projected to the commencement date using the
  SOA MP-2017 methodology.
- Per guidance from Xcel Energy, adoption of the new 2018 IRS prescribed mortality tables has been delayed until 2019 for IRS funding and PBGC premium valuations.

### **Pension Contributions**

The forecasts reflect actual 2018 contributions of \$150 million made on January 2, 2018, and planned contributions provided by Xcel Energy for 2019 through 2023. The table below summarizes the amounts assigned to each plan over the forecast period:

			Ye	ar			
	2018	2019	2020		2021	2022	2023
Xcel Energy Pension Plan	\$ 120.0	\$ 95.0	\$ 95.0	\$	80.0	\$ 45.0	\$ 65.0
NCE Nonbargaining Plan	10.0	20.0	20.0		15.0	15.0	10.0
SPS Bargaining Plan	5.0	15.0	10.0		10.0	7.0	9.0
PSCo Bargaining Plan	15.0	20.0	25.0		45.0	83.0	66.0
Total Contribution	\$ 150.0	\$ 150.0	\$ 150.0	\$	150.0	\$ 150.0	\$ 150.0

 Contributions in 2019 and beyond are assumed to be paid on January 15 and assigned to the prior plan year.

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Mr. Richard R. Schrubbe May 18, 2018

### **PBGC Premiums**

- The PBGC Variable Rate Premium estimates reflect the increase in premium rates under The Bipartisan Budget Act of 2015, actual January 1, 2018, asset values, and demographic experience.
- The estimates assumes the NCE Nonbargaing Plan and PSCo Bargaining Plan use the Standard Premium Funding Target. The Xcel Energy Pension Plan and SPS Bargaining Plan are assumed to use the Alternative Premium Funding Target.
- The PSCo Bargaining Plan is at the per-participant variable rate premium cap in 2018 and is expected to remain at the cap for 2019. The NCE Nonbargaining Plan is at the per-participant variable rate premium cap in 2018.

### Retiree Medical and Life Insurance Plan - Effects of Health Care Reform

- The effective date of the legislative excise tax ("Cadillac Tax") has been delayed from 2020 to 2022.
- Otherwise, our estimates continue to assume the same effects as noted in our 2018 ASC 715 cost report dated April 30, 2018.

### Plan Changes

- Effective January 1, 2018 for non-bargaining participants, annual \$1,400 Retirement Contributions to the Retirement Savings Account will cease; interest will continue to accrue on the balance as of December 31, 2017.
- Effective December 31, 2022, non-bargaining participants who have not met the plans' Early Retirement definition or Normal Retirement definition will no longer be eligible for the Social Security Supplement.
- Certain nonbargaining participants received a one-time addition to their qualified basic pension benefit as of December 31, 2017.
- Effective February 22, 2018, employees hired into the PSCo Bargaining Plan are assumed to receive a 5% Cash Balance benefit. Due to the one year participation requirement, results are not impacted until 2020

### **ACTUARIAL CERTIFICATION**

As requested by Xcel Energy Inc., this report provides results of the actuarial valuations of the Xcel Energy Inc. employee benefit plans indicated above. This report should not be used for other purposes, distributed to others outside Xcel Energy Inc. or relied upon by any other person without prior written consent from Willis Towers Watson. Except where we expressly agree in writing, this report should not be disclosed or provided to any third party, other than as provided below. In the absence of such consent and an express assumption of responsibility, no responsibility whatsoever is accepted by us for any consequences arising from any third party relying on this report or any advice relating to its contents.

Xcel Energy Inc. may make a copy of this report available to auditors or appropriate governmental agencies of the plan or the plan sponsor, but we make no representation as to the suitability of this report for any purpose other than that for which it was originally provided and accept no responsibility or liability to the auditors in this regard. Xcel Energy Inc. should draw the provisions of this paragraph to the attention of the auditors or appropriate governmental agencies when providing this report to them.

In preparing this valuation, we have relied upon information and data provided to us by Xcel Energy Inc. and other persons or organizations designated by Xcel Energy Inc. An audit of the financial and participant data provided was not performed, but we have checked the data for reasonableness as appropriate based on the

### Willis Towers Watson In I'll III

Mr. Richard R. Schrubbe May 18, 2018

purpose of the valuation. The results presented in this report are directly dependent upon the accuracy and completeness of the underlying data and information. Any material inaccuracy in the data, assets, plan provisions or other information provided to us may have produced results that are not suitable for the purposes of this report and such inaccuracies, as corrected by Xcel Energy Inc., may produce materially different results that could require that a revised report be issued.

This valuation reflects our understanding of the relevant provisions of the Pension Protection Act of 2006. The IRS has yet to issue final guidance with respect to certain aspects of this law. It is possible that such guidance may conflict with our understanding of the law and could therefore affect results shown in this report.

The results summarized in this report involve actuarial calculations that require assumptions about future events. We believe the assumptions and methods used in this report are reasonable and appropriate for the purposes for which they have been used. In our opinion, all methods, assumptions and calculations are in accordance with requirements of the Internal Revenue Code and ERISA, and the applicable financial accounting standards, including ASC 712 and 715 and the procedures followed and presentation of results are in conformity with generally accepted actuarial principles and practices.

Assumptions for determining benefit cost results were selected by Xcel Energy Inc. Xcel Energy Inc. uses the standards set out in ASC 715 to calculate pension cost for each plan in total; pension cost for the subsidiaries is calculated based on plan assets allocated to each subsidiary in proportion to the PBO for each subsidiary. Beginning in fiscal 2010, Discontinued Operations is allocated assets in proportion to its PBO, similar to nondiscontinued operations. The gain/(loss) amortization is allocated to each subsidiary in proportion to the gain/(loss) balance for each subsidiary (excluding deferred asset gains and losses). This methodology is consistent with former NSP's methodology since 1998 and has been applied to the former NCE pension plans since January 1, 2001. A similar methodology is used for the ASC 715 costs for the Retiree Medical and Life Plan, except separate asset accounts are used for each subsidiary.

Except as otherwise provided herein, the results presented are based on the data, assumptions, methods and plan provisions outlined in the actuarial valuation reports to determine accounting requirements for the plan for the plan year beginning January 1, 2018 dated April 30, 2018. Therefore, the descriptions of the data, assumptions, methods, plan provisions and limitations of the valuation and its use should be considered part of this letter report.

The undersigned consultants with actuarial credentials meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. Our objectivity is not impaired by any relationship between the Xcel Energy Inc. and our employer, Towers Watson Delaware Inc., a subsidiary of Willis Towers Watson PLC.

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Mr. Richard R. Schrubbe May 18, 2018

### **NEXT STEPS**

If you have any questions or would like to discuss, please contact Mark at 952-842-6445, Ross at 952-842-6397 or Kristoff at 952-842-6359.

Sincerely,

Mark A. Afdahl, FSA, EA Director, Retirement

Ross H. Athman, FSA, EA Director, Retirement

Kristoff M. Hendrickson, FSA, EA Director, Retirement

cc: Todd Degrugillier — Xcel Energy Inc.
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Mark Bilderback — Willis Towers Watson Beth Fernandez — Willis Towers Watson Scott Lund — Willis Towers Watson Nick Principe — Willis Towers Watson Jim Shaddy — Willis Towers Watson Tyler Tanck — Willis Towers Watson

# Estimated Cash Flow (\$ in Millions) and Estimated PBO Funded Status at January 1

Calendar Year	2018	2019	2020	2021	2022	2023
Xcel Energy Pension Plan	%08	85%	%68	94%	%66	102%
Contributions	\$120.0	\$95.0	\$95.0	\$80.0	\$45.0	\$65.0
PBGC Variable Premiums	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
NCE Nonbargaining Plan	82%	%58	92%	100%	106%	114%
Contributions	\$10.0	\$20.0	\$20.0	\$15.0	\$15.0	\$10.0
PBGC Variable Premiums	\$0.9	\$0.3	\$0.0	\$0.0	\$0.0	\$0.0
SPS Bargaining Plan	85%	%98	%06	%86	%26	100%
Contributions	\$5.0	\$15.0	\$10.0	\$10.0	\$7.0	\$9.0
PBGC Variable Premiums	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
PSCo Bargaining Plan	81%	81%	82%	84%	%88	%96
Contributions	\$15.0	\$20.0	\$25.0	\$45.0	\$83.0	\$66.0
PBGC Variable Premiums	\$3.5	\$3.6	\$3.4	\$1.8	\$0.0	\$0.0
Total	81%	84%	87%	91%	%96	100%
Contributions	\$150.0	\$150.0	\$150.0	\$150.0	\$150.0	\$150.0
PBGC Variable Premiums	\$4.4	\$3.9	\$3.4	\$1.8	\$0.0	\$0.0

 Funded status equals fair value of assets divided by PBO and does not include receivable contributions made in January of each year and Based on January 1, 2018 asset values and expected returns for the forecast period.
 Assumes contributions are assigned to the prior plan year.

Assumes funding balance used to satisfy quarterly requirements and any remaining minimum requirements
 See May 18, 2018 letter for additional information on data, assumptions, methods and

assigned to the prior plan year

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XCEL ENERGY INC. - Qualified Pension Plans Cost by Legal Entity (\$ in Thousands)

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			Expected	Drive Conico			Settlement	Aggregate Cost	Aggregate Cost	January 1		
2018	Service Cost	ervice Cost Interest Cost		Cost	(Gain)/Loss	Net Cost	Charge 1	Method	Method	(Accrued)	Contribution	PBO
Xcel Energy Pension Plan (XEPP)												
Discontinued Operations <sup>2</sup>	•	2,736	(4,539)	ì	3,615	1,812	ï	N/A		35,418	4,864	78.815
Xcel Energy Nuclear	6,284	3,738	(6,200)	(214)	1,129	4,737	ř	3,574		(9,131)	6,524	107,357
NSP - MN	21,644	31,479	(51,967)	100	37,329	38,585	Ð	30,891		342,488	56,623	927,782
NSP - WI	4,777	5,442	(9,025)	(30)	5,673	6,837	î	N/A		48,153	9,597	156,748
Xcel Services <sup>3</sup>	22,849	23,771	(39,361)	(982)	17,078	23,352	ř	NA	NA	87,739	42,356	690,963
XEPC (former EMI)	•	21	(34)	e i	2	(11)	•	N/A		(101)	36	584
Total XEPP	55,554	67,187	(111,126)	(1,129)	64,826	75,312	٠	34,465	29,334	504,566	120,000	1,962,249
NCE Non-Bargaining Pension Plan		99	9									
Discontinued Operations - Cheyenne	•	133	(218)		177	92	•	NA	NA	1,675	137	3,931
PSCo	4,297	6,958	(11,341)		4,403	4,152	ï	NA	NA	18,891	6,830	206,586
SPS	2,656	3,045	(4,957)		3,386	3,993	•	N/A	N/A	27,599	3,033	91,051
Total NCE		10,136	(16,516)	(302)	996'2	8,237	1	N/A	N/A	48,165	10,000	301,568
SPS Bargaining Plan	7,062	15,365	(23,370)	ě	10,682	9,739	i	N/A	NA	125,403	5,000	424,828
Total SPS	7,062	15,365	(23,370)	•	10,682	622'6		N/A	N/A	125,403	5,000	424,828
PSCo Bargaining Plan		•	į		1					j		
Discontinued Operations - Cheyenne		404	(5/1)	ï	469	302	ï	N/A	A/N	6,370	150	11,411
PSCo	24,788	40,296	(57,179)	(3,212)	26,855	31,548	•	N/A	N/A	259,393	14,850	1,127,594
Total PSCo	24,788	40,700	(57,750)	(3,212)	27,324	31,850	•	N/A	N/A	265,763	15,000	1,139,005
Total Xcel Energy	94,357	133,388	(208,762)	(4,643)	110,798	125,138		34,465	29,334	943,897	150,000	3,827,650

<sup>&</sup>lt;sup>1</sup> certlement accounting may be required if lump sum benefit payments exceed the sum of service cost and interest on a plan by plan basis. No settlements have been estimated at this time.

<sup>2</sup> Indudes NRG, BMG, Viking, Natro Gas, Utility Engineering, Seren, Quixx, Crockett and QPS

<sup>3</sup> Indudes Eloigne

Assumptions	
Discount Rate - U.S. GAAP	
XEPP	3.60%
NOE	3.52%
SPS	3.71%
PSCo	3.68%
Discount Rate - Aggregate Normal Cost	7.10%
Salary Scale	3.75%
Expected Return on Assets	
XEPP	7.10%
NCE	6.90%
SPS	6.75%
PSCo	6.50%
Assumed Mortality Table	

Bargaining Participants RP-2014 Blue Collar projected with generational mortality improvements using an adjusted SOA MP-2016 methodology SP-2014 Blue Collar, as adjusted of 2014 Xxel Energy mortality study, projected with generational mortality improvements using an adjusted SOA MP-2016 methodology Sen May 18, 2018 energy mortality improvements using an adjusted SOA MP-2016 methodology contribution already made are allocated in accordance with the January 2, 2018 contribution directives provided by Xxel Energy on January 3, 2018.

EXHIBIT II Page 1 of 6

				Amortizations	ations				
2018	Service Cost	Interest Cost	Expected Return on Assets	Prior Service Cost	Net (Gain)/Loss	Settlement Charge <sup>1</sup>	Net Cost	January 1 Prepaid (Accrued)	y 1 ccrued)
Discontinued Operations <sup>2</sup>		27	i	A	(51		8	(24)	(1,320)
Xcel Energy Nuclear	83	25	9	9	16		4	134	(595)
NSP - MN	25	145	1	•	415	0	35	585	(268)
NSP - WI	71	20	E	*	16	*	4,	53	(429)
PSCo <sup>3</sup>	42	111	Ĭ	1	352	1	50	505	(21)
SPS	21	58	i	ä	133	3	2,	212	(495)
Xcel Services⁴	800	813		227	1,032		2,872	_	14,395)
XEPC (former EMI)		:	•		(3)	-		(3)	(30)
Total Xcel Energy	866	1,199	ï	227	1,910		4,334		(17,853)

92 32 791 59 435 235 3,245

Expected Benefit Payments

<sup>1</sup> Settlement accounting may be required if lump sum benefit payments exceed the sum of service cost and interest cost. No settlements have been estimated at this time.

<sup>2</sup> Includes NRG, BMG, Viking, Natrogas, Quixx, Seren and UE

<sup>3</sup> Includes Fort St. Vrain

<sup>4</sup>Includes Eloigne

Assumptions
Discount Rate
Salary Scale (career average)
Assumed Mortality Table

3.49%
3.75%
RP-2014 White Collar, as adjusted for 2014 Xcel Energy mortality study, projected with generational mortality improvements using an adjusted SOA MP-2016 methodology

See May 18, 2018 letter for additional information on data, assumptions, methods and plan provisions.

XCEL ENERGY INC. - Postretirement Benefits U.S. GAAP Cost Estimates by Legal Entity (\$ in Thousands)

Amortizations

2018	Service Cost	Interest Cost	Expected Return on Assets	Prior Service Cost	Net (Gain)/Loss	Jai Net Cost	January 1 Prepaid (Accrued)	Contribution
Discontinued Operations <sup>1</sup>	ı.	308	(66)	(104)	162	267	(4,618)	721
Xcel Energy Nuclear	19	34	r:	49	(11)	91	(731)	16
NSP - MN <sup>2</sup>	151	3,040	(382)	(3,085)	2,392	2,116	(51,603)	7,915
NSP - WI	37	568	(63)	(351)	554	745	(6,516)	1,347
PSCo	609	14,994	(22,699)	(6,178)	4,083	(9,191)	33,489	
SPS <sup>3</sup>	1,118	1,641	(2,460)	(404)	(453)	(558)	(13,779)	
Xcel Services <sup>3</sup>	62	1,077	(44)	(557)	686	1,527	(13,142)	1,654
XEPC (former EMI)		-		-	(5)	(3)	(120)	ဖ
Total Xcel Energy	1,996	21,663	(25,747)	(10,629)	7,711	(900'5)	(57,020)	11,659

 $^1 \! \text{Includes NRG, BMG, Viking, Natrogas, Cheyenne, Quixx and UE.}$   $^2 \! \text{Includes Eloigne and Seren.}$ 

<sup>3</sup>Includes Executive Life Insurance benefits.

Post-65 5.50% 4.50% 2023 3.62% 5.80% Pre-65 7.00% 4.50% 2023 Assumptions
Discount Rate
Expected Return on Assets
Medical Trend
Initial (2018)
Ultimate
Year Ultimate Reached
Assumed Mortality Table
Bargaining:

Bargaining: RPH-2014 Blue Collar headcount-weighted table adjusted for Xcel Energy mortality study, projected with generational mortality improvements using an adjusted SOA MP-2016 methodology.

Non-bargaining: RPH-2014 White Collar headcount-weighted table adjusted for Xcel Energy mortality study, projected with generational mortality improvements using an adjusted SOA Contributions for PSCo and SPS are assumed equal to the net cost, but not less than zero. Contributions for place are assumed equal to the expected benefit payments.

See May 18, 2018 letter for additional information on data, assumptions, methods and plan provisions.

Xcel Energy Inc. - LTD and Workers' Compensation Benefit Cost Estimates by Legal Entity (\$ in Thousands)

**Exhibit VI** 

2023 Budget	3.51%	221	224	49	ii.	273	3.51%	0 4	168 34	15	†	4	241	514
2022 Budget	3.51%	236	240	15	<b>10</b>	291	3.51%	- 5	179 37	19	~ ~	4	264	555
2021 Budget	3.51%	253	257	54	10	311	3.51%	2 7	191 39	25	5 ~	ı O	290	601
2020 Budget	3.51%	272	276	55	j.	331	3.51%	2 18	202	3.7	7 7	2 -	318	649
2019 Budget	3.51%	291	295	28	į	353	3.51%	2 0	214	14	<u> </u>	ත I	348	701
2018 Actual	3.51%	336	(53)	555	(3)	838	3.51%	(21)	(22)	(117)	ිම	91	(245)	593
2017 Actual	3.96%	509	521	162	'n	683	3.96%	14 78	120	26	5 4	17	549	1,232
Fiscal Year Ending U.S. GAAP	Discount Rate- Workers' Compensation	Former NSP - Workers' Compensation ' MN/SD	MILVVI Subtotal	Former NCE - Workers' Compensation <sup>7</sup> Colorado - PSCo	Deductible States - Workers' Compensation Deductible States - SPS (KS, OK, NM, and TX)	Total Xcel Energy Workers' Compensation	Discount Rate - LTD Income	<u>LTD Income</u> Discontinued Operations - Cheyenne Discontinued Operations <sup>2</sup>	NSP-MN NSP-WI	PSCO	Utility Engineering	Xcel Services XEPC	Total Xcel Energy LTD Income	Total Xcel Energy U.S. GAAP

<sup>&</sup>lt;sup>†</sup> Results for former NSP states include income replacement and medical benefits as well as reserve for bankrupt insurers. Colorado results include reserve for bankrupt insurers.

The results above are based on the data, assumptions, methods, and plan provisions described in our May 18, 2018 letter.

Willis Towers Watson Little. 5/18/2018 http://natct.internal.towerswatson.com/cilents/609084A/Xce/RETActuarial-2018/Documents/Projections/May/Projections - 05182018 to Xcel.xisx/ASC 712 Cost

<sup>&</sup>lt;sup>2</sup> Includes NRG, BMG, Viking and Natrogas.

### Willis Towers Watson III III

February 8, 2019

Mr. Richard R. Schrubbe AVP, Financial Analysis and Planning Xcel Energy Inc. 401 Nicollet Mall 3rd Floor Minneapolis, MN 55401

Subject: 2019 Benefit Costs and 2020-2024 Benefit Cost Estimates

Dear Rick:

Attached are 2019 costs and 2020-2024 budget estimates based on the final year-end 2018 asset values and disclosure assumptions described in our January 25, 2019 letter. Workers Compensation and Long-Term Disability results are preliminary and will be finalized in May.

### SUMMARY OF KEY RESULTS

The key changes from our forecast originally provided on May 18, 2018 are as follows:

- Benefit Costs reflect final 2019 assumptions:
  - Discount rates increased approximately 0.70%, on average, from the 3.63% average assumption used in the May 18, 2018 estimates to 4.32% at December 31, 2018.
- Actual 2018 pension asset returns were (4.67%) compared to an expected return of 6.87% and actual retiree medical asset returns were (2.77%) compared to an expected return of 5.80%.
- Participant data has been updated to reflect known status and pay changes through November 30, 2018 and expected December 2018 retirements.

### Benefit Cost Results (prior to regulatory deferrals)

Cost/(Income) (\$ in Millions)	2018 Actual	2019 Cost May 18, 2018 Estimate	2019 Cost February 8, 2019 <sup>1</sup>
Qualified Pension Plans <sup>2</sup>	\$116.3	\$103.0	\$107.0
Nonqualified Pension Plans	4.3	4.3	3.6
Retiree Medical & Life Insurance Plan	(5.0)	(5.2)	(2.0)
Workers' Compensation	0.8	0.4	(0.4)
Long-Term Disability	(0.2)	0.3	(0.1)
Total	\$116.2	\$102.8	\$108.1
XEPP and NCE Settlement Charges <sup>3</sup>	\$90.7	\$0.0	\$0.0
Discount Rate	3.49%-3.71%	3.49%-3.71%	4.25%-4.37%

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<sup>&</sup>lt;sup>1</sup> Workers Compensation and Long-Term Disability costs are preliminary, final results will be provided in May.

<sup>2</sup> Qualified Pension Plan costs reflect the assumption that NSP-MN and Xcel Energy Nuclear costs are determined under the Aggregate Cost Compensation Method. No additional regulatory deferrals have been reflected. See Exhibit VII for additional details.

<sup>3</sup> Results for the Xcel Energy Pension Plan reflect a 2018 settlement charge of \$82,853,000 and results for the NCE Non-Bargaining Pension Plan reflect a 2018 settlement charge of \$7,852,000. Please see 2018 Settlement Charge exhibit dated January 22, 2019 for additional information. Settlement accounting may be required in 2019 if lump sum benefit payments exceed the sum of service cost and interest cost. No extlements have been excellent for 2010 as heaved at this time. and interest cost. No settlements have been estimated for 2019 or beyond at this time.

### 

Mr. Richard R. Schrubbe February 8, 2019

The following provides a reconciliation of cost (prior to regulatory deferrals) between the estimated 2019 cost provided in our May 18, 2018 letter, the 2019 budget estimates provided in our December 19, 2018 PTAC presentation and the 2019 costs provided in this letter (\$ in millions):

	Qualified Pension <sup>1</sup>	Non- qualified Pension	Retiree Medical	Workers' Compen- sation	Long Term Disability	Total
Initial 2019 Estimate (May 18, 2018)	\$103.0	\$4.3	(\$5.2)	\$0.4	\$0.3	\$102.8
Estimated demographic experience <sup>2</sup>	6.3	(0.7)	(1.4)	0.0	0.0	4.2
Updated demographic assumptions <sup>3</sup>	1.1	0.1	0.1	(0.1)	0.0	1.2
Updated retiree claims and participant contributions <sup>4</sup>	0.0	0.0	(1.6)	0.0	0.0	(1.6)
Discount rates <sup>5</sup>	(11.6)	(0.2)	(0.9)	(0.6)	(0.7)	(14.0)
2018 asset performance <sup>6</sup>	9.7	0.0	4.5	0.0	0.0	14.2
Expected rate of return assumption update <sup>7</sup>	0,0	0.0	2.0	0,0	0.0	2.0
Reduced loss amortization from 2018 settlement charge	(2.9)	0.0	0.0	0.0	0.0	(2.9)
Updated 2019 Estimate (December 19, 2018)	\$105.6	\$3.5	(\$2.5)	(\$0.3)	(\$0.4)	\$105.9
Reflect final 2018 settlement charges	0.2	0.0	0.0	0.0	0.0	0.2
Final demographic experience8	(1.1)	0.0	(0.2)	(0.2)	0.1	(1.4)
Final discount rates	2.3	0.1	0.2	0.1	0.2	2.9
Final 2018 asset returns <sup>9</sup>	0.0	0.0	0.5	0.0	0.0	0.5
2019 Costs (February 8, 2019)	\$107.0	\$3.6	(\$2.0)	(\$0.4)	(\$0.1)	\$108.1

Qualified Pension results reflect the assumption that NSP-MN costs and Xcel Energy Nuclear costs are determined under the Aggregate Cost Compensation Method. No additional regulatory deferrals have been reflected.

<sup>&</sup>lt;sup>2</sup> Estimated impact of updated participant status and compensation data through September 30, 2018 with additional adjustments for expected retirements and lump sum payments through December 2018. Primary drivers of cost include more retirements than expected, larger than expected lump sum payments, fewer deaths than expected and compensation rates approximately 0.4% larger than expected.

<sup>&</sup>lt;sup>3</sup> Update retirement rates to reflect recent plan changes and benefits offered to new hires and change to middle-of-year decrements.

<sup>&</sup>lt;sup>4</sup> Per capita claims cost increased 1.9% (0.3% pre-65, 2.2% post-65) versus expected increase (7.0% pre-65, 5.5% post-65). Expected Medicare Part D reimbursement for eligible retirees decreased 3.0% versus expected increase of 5.5%.

December 31, 2018 discount rates assumed to be equal to the discount rates from Willis Towers Watson BOND:Link model results as of October 31, 2018. Bond model excludes collateralized bonds.

<sup>&</sup>lt;sup>6</sup> Estimate assumes year-end asset values are equal to October 31, 2018 values with adjustments for two months of estimated disbursements (estimated 2018 return of -4.2% for pension and -1.6% for VEBA).

<sup>&</sup>lt;sup>7</sup> Decrease VEBA expected return on assets assumption from 5.80% to 5.30%.

<sup>&</sup>lt;sup>8</sup> Impact of updated participant status and compensation data through November 30, 2018 and benefit payment experience.

<sup>&</sup>lt;sup>9</sup> Reflects true-up of December 28, 2018 lump sums payments from XEPP and NCE.

### WillisTowers Watson IIIIIIII

Mr. Richard R. Schrubbe February 8, 2019

### Results Exhibits

Benefit cost results are summarized by legal entity and presented in the attached exhibits as follows:

- Exhibit I: Benefit Cost Estimates Qualified Pension Plans
- Exhibit II: Benefit Cost Estimates Nonqualified Pension Plans
- Exhibit III: Benefit Cost Estimates Retiree Medical and Life Insurance Plan
- Exhibit IV: Liabilities LTD and Workers Compensation
- Exhibit V: Claims and Expenses LTD and Workers Compensation
- Exhibit VI: Benefit Cost Estimates LTD and Workers Compensation
- Exhibit VII: Benefit Cost Reconciliation Details Qualified Pension Plans

### Plans Valued

The attached exhibits include results for the following employee benefit plans maintained by Xcel Energy Inc. (Xcel Energy):

- Xcel Energy Pension Plan
- Xcel Energy Inc. Nonbargaining Pension Plan (South) [NCE Nonbargaining Plan]
- New Century Energies Inc. Retirement Plan for SPS Bargaining Unit Employees and Former Nonbargaining Unit Employees [SPS Bargaining Plan]
- New Century Energies Inc. Retirement Plan for PSCo Bargaining Unit Employees and Former Nonbargaining Unit Employees [PSCo Bargaining Plan]
- Xcel Energy Nonqualified Defined Benefit Plan, including:
  - Xcel Energy SERP
  - SPS SERP
  - Employment Agreements
  - Fort St. Vrain Nuclear Operations Personnel Plan
  - NMC SERP Part A
- Xcel Energy Retiree Medical and Life Insurance Plan (including Executive Life Insurance)
- Xcel Energy Workers' Compensation
- Xcel Energy Long-Term Disability (LTD) Income

### DATA, ASSUMPTIONS, METHODS AND PLAN PROVISIONS

The fiscal 2019 costs and estimated 2020-2024 costs reflect the following data, assumptions, methods and plan provisions:

### Data

Results for 2019-2024 are based on participant data as of January 1, 2018 projected to the end of the year based on status, compensation and benefit changes through November 30, 2018 and known retirements for December 2018. Actual new entrants through November 30, 2018 and expected new entrants through December 31, 2018 are included.

### WillisTowers Watson III"IIII

Mr. Richard R. Schrubbe February 8, 2019

### **Economic Assumptions**

The key assumptions used to determine the actual 2019 and estimated 2020 - 2024 benefit cost results are provided below. The assumptions used to calculate the cost under the aggregate funding method are the same as used to prepare the ASC 715 results, except as noted. Actual asset returns are assumed to equal the expected return on assets assumptions throughout the forecast period. The following primary economic assumptions were used to prepare the results:

		2018 Cost and 2019 Estimate (May 18, 2018)	2019 Estimate (December 19, 2018)	2019 Cost
Benefit	Cost			
Discour	nt Rate – ASC 715			
_	Xcel Energy Pension Plan	3.60%	4.52%	4.31%
-	NCE Nonbargaining Pension Plan	3.52%	4.46%	4.25%
_	SPS Bargaining Pension Plan	3.71%	4.58%	4.37%
-	PSCo Bargaining Pension Plan	3.68%	4.56%	4.36%
_	Nonqualified Pension Plan	3.49%	4.47%	4.26%
-	Retiree Medical and Life Insurance Plan	3.62%	4.53%	4.32%
_	Workers Compensation and LTD	3.51%	4.45%	4.23%
Expecte	ed Return on Assets Assumption – Pension			
_	Xcel Energy Pension Plan	7.10%	7.10%	7.10%
_	NCE Nonbargaining Pension Plan	6.90%	6.90%	6.90%
_	SPS Bargaining Pension Plan	6.75%	6.75%	6.75%
_	PSCo Bargaining Pension Plan	6.50%	6.50%	6.50%
_	Weighted Average Expected Return	6.87%	6.87%	6.87%
Expecte	ed Return on Assets Assumption – VEBA	5.80%	5.30%	5.30%
Discour	nt Rate – Aggregate Cost	7.10%	7.10%	7.10%
Salary	Scale <sup>1</sup>	3.75%	3.75%	3.75%
Initial M	ledical Trend			
-	Pre-Medicare	7.00%	6.50%	6.50%
	Post-Medicare	5.50%	5.30%	5.30%
Ultimate	e Medical Trend	4.50%	4.50%	4.50%
Year Ul	timate Trend is Reached	2023	2023	2023

<sup>&</sup>lt;sup>1</sup> Career average of age-graded table (nonbargaining) and service-graded table (bargaining)

- The interest rate for converting lump sums to annuities and annuities to lump sums was updated from 3.50% to 4.10% in all years. The pre-PPA lump sum conversion interest rate was updated from 2.75% to 3.10%.
- The interest crediting rate for the 5% cash balance formula was updated from 2.75% to 3.10%. The interest crediting rate for the Retirement Spending Account was updated from 2.50% to 3.60%.
- The HRA trend assumption remains at 2.0%.
- For additional assumption details, see our December 31, 2018 disclosure results provided January 25, 2019.

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### WillisTowers Watson In I'll II

Mr. Richard R. Schrubbe February 8, 2019

### Pension Contributions

The forecasts reflect actual 2019 contributions of \$150 million made on January 2, 2019. At this time, the contribution forecasts have not been updated and reflect the planned contributions provided by Xcel Energy for 2020 through 2024. Contribution forecasts will be updated in the spring when final 2019 funding results and census data are available. The table below summarizes the amounts assigned to each plan over the forecast period:

	20 5 3 6	Halley S	Year		No.	
	2019	2020	2021	2022	2023	2024
Xcel Energy Pension Plan	\$ 90.0	\$ 85.0	\$ 68.0	\$ 48.0	\$ 45.0	\$ 60.0
NCE Nonbargaining Plan	5.0	15.0	12.0	12.0	10.0	5.0
SPS Bargaining Plan	15.0	10.0	10.0	5.0	10.0	0.0
PSCo Bargaining Plan	40.0	40.0	35.0	35.0	35.0	35.0
Total Contribution	\$ 150.0	\$ 150.0	\$ 125.0	\$ 100.0	\$ 100.0	\$ 100.0

 Contributions in 2020 and beyond are assumed to be paid on January 15<sup>th</sup> and assigned to the prior plan year.

### **Demographic Assumptions**

Participant counts from January 1, 2018 were adjusted for actual new entrant counts through November 30, 2018, expected new entrants through December 31, 2018 and terminations/retirements as described above under Data. No additional changes in headcount levels are assumed.

### Retiree Medical and Life Insurance Plan - Effects of Health Care Reform

 Our estimates continue to assume the same effects as noted in our 2018 ASC 715 cost report dated April 30, 2018.

### Plan Changes

Effective February 22, 2018, employees hired or rehired into the PSCo Bargaining Plan receive a 5% Cash Balance benefit. Due to the one year participation requirement, new hires are not included until 2020. Rehired employees and transfers participate immediately. All other plan provisions remain the same as provided in our 2018 benefit cost reports dated April 30, 2018.

Willis Towers Watson Page 5 of 7

Attachment RRS-3 Page 6 of 11 Case No. 19-00170-UT

### 

Mr. Richard R. Schrubbe February 8, 2019

### **ACTUARIAL CERTIFICATION**

As requested by Xcel Energy Inc., this report provides results of the actuarial valuations of the Xcel Energy Inc. employee benefit plans indicated above. This report should not be used for other purposes, distributed to others outside Xcel Energy Inc. or relied upon by any other person without prior written consent from Willis Towers Watson US LLC. Except where we expressly agree in writing, this report should not be disclosed or provided to any third party, other than as provided below. In the absence of such consent and an express assumption of responsibility, no responsibility whatsoever is accepted by us for any consequences arising from any third party relying on this report or any advice relating to its contents.

Xcel Energy Inc. may make a copy of this report available to auditors or appropriate governmental agencies of the plan or the plan sponsor, but we make no representation as to the suitability of this report for any purpose other than that for which it was originally provided and accept no responsibility or liability to the auditors in this regard. Xcel Energy Inc. should draw the provisions of this paragraph to the attention of the auditors or appropriate governmental agencies when providing this report to them.

In preparing this valuation, we have relied upon information and data provided to us by Xcel Energy Inc. and other persons or organizations designated by Xcel Energy Inc. An audit of the financial and participant data provided was not performed, but we have checked the data for reasonableness as appropriate based on the purpose of the valuation. The results presented in this report are directly dependent upon the accuracy and completeness of the underlying data and information. Any material inaccuracy in the data, assets, plan provisions or other information provided to us may have produced results that are not suitable for the purposes of this report and such inaccuracies, as corrected by Xcel Energy Inc., may produce materially different results that could require that a revised report be issued.

This valuation reflects our understanding of the relevant provisions of the Pension Protection Act of 2006. The IRS has yet to issue final guidance with respect to certain aspects of this law. It is possible that such guidance may conflict with our understanding of the law and could therefore affect results shown in this report.

The results summarized in this report involve actuarial calculations that require assumptions about future events. We believe the assumptions and methods used in this report are reasonable and appropriate for the purposes for which they have been used. In our opinion, all methods, assumptions and calculations are in accordance with requirements of the Internal Revenue Code and ERISA, and the applicable financial accounting standards, including ASC 712 and 715 and the procedures followed and presentation of results are in conformity with generally accepted actuarial principles and practices.

Assumptions for determining benefit cost results were selected by Xcel Energy Inc. Xcel Energy Inc. uses the standards set out in ASC 715 to calculate pension cost for each plan in total; pension cost for the subsidiaries is calculated based on plan assets allocated to each subsidiary in proportion to the PBO for each subsidiary. Beginning in fiscal 2010, Discontinued Operations is allocated assets in proportion to its PBO, similar to nondiscontinued operations. The gain/(loss) amortization is allocated to each subsidiary in proportion to the gain/(loss) balance for each subsidiary (excluding deferred asset gains and losses). This methodology is consistent with former NSP's methodology since 1998 and has been applied to the former NCE pension plans since January 1, 2001. A similar methodology is used for the ASC 715 costs for the Retiree Medical and Life Plan, except separate asset accounts are used for each subsidiary.

Except as otherwise provided herein, the results presented are based on the data, assumptions, methods and plan provisions outlined in the actuarial valuation reports to determine accounting requirements for the plan for the plan year ending December 31, 2018 and beginning January 1, 2019 to be delivered in the next few weeks. Therefore, the descriptions of the data, assumptions, methods, plan provisions and limitations of the valuation and its use should be considered part of this letter report.

Willis Towers Watson Page 6 of 7

### WillisTowersWatson IIIIIIII

Mr. Richard R. Schrubbe February 8, 2019

The undersigned consultants with actuarial credentials meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. Our objectivity is not impaired by any relationship between the Xcel Energy Inc. and our employer, Willis Towers Watson US LLC.

### **NEXT STEPS**

If you have any questions or would like to discuss, please contact Mark at 952-842-6445, Kristoff at 952-842-6359 or Ross at 952-842-6397.

Sincerely,

Mark Afdahl, FSA Director, Retirement Kristoff Hendrickson, FSA Director, Retirement

Kentff Jendroben

Ross Athman, FSA Director, Retirement

cc: Todd Degrugillier, Xcel Energy Inc.
Darla Figoli, Xcel Energy Inc.
Levi Glines, Xcel Energy Inc.
Kris Lindemann, Xcel Energy Inc.
Ruth Lowenthal, Xcel Energy Inc.
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Sarah Soong, Xcel Energy Inc. Brian Van Abel, Xcel Energy Inc. Greg Zick, Xcel Energy Inc. Beth Fernandez, Willis Towers Watson Scott Lund, Willis Towers Watson Jim Shaddy, Willis Towers Watson Tyler Tanck, Willis Towers Watson

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XCEL ENERGY INC. - Qualified Pension Plans Cost by Legal Entity (\$ in Thousands)

EXHIBIT I Page 1 of 6

			- 50	AMONIZATIONS	anous							
			Expected	Prior Service	Net		Settlement	Aggregate Cost Compensation	Aggregate Cost 20-year Amortization	January 1 Prepaid		
2019	Service Cost Interest Cost	Interest Cost	on Assets	Cost	(Gain)/Loss	Net Cost	Charge 1	Method	Method	(Accrued)	Contribution	PBO
Xcel Energy Pension Plan (XEPP)												
Discontinued Operations <sup>2</sup>	:10	3,051	(4,468)	•	3,050	1,633	,	NA	N/A	33,632	3,785	73,890
Xcel Energy Nuclear	5,834	4,153	(6,079)	(214)	630	4,324	e	3,843	3,399	(8,658)	5,052	100,213
NSP - MN	19,598	32,928	(48,176)	100	29,580	34,030	a	30,940	27,362	313,067	41,669	806,830
NSP - WI	4,433	5,709	(8,356)	(30)	4,447	6,203		N/A	N/A	43,681	7,239	139,764
Xcel Services <sup>3</sup>	21,737	26,095	(38,200)	(982)	13,112	21,759	t	NA	N/A	84,737	32,227	632,568
XEPC (former EMI)		23	(33)		2	(8)		N/A	N/A	(28)	. 28	546
Total XEPP	51,602	71,959	(105,312)	(1,129)	50,821	67,941	E	34,783	30,761	466,401	000'06	1,753,811
NCE Non-Bargaining Pension Plan					,				ě			
Discontinued Operations - Cheyenne	(1	146	(203)	1	146	88	12.0	NA	N/A	1,545	65	3,601
PSCo	3,915	7,642	(10,625)	(165)	3,321	4,088	,	N/A	NA	17,104	3,434	187,999
SPS	2,431	3,347	(4,645)	(137)	2,608	3,604		NA	NA	23,427	1,501	83,030
Total NCE	6,346	11,135	(15,473)	(302)	6,075	7,781		N/A	A/N	42,076	5,000	274,630
SPS Bargaining Plan SPS		16,788	(23,998)		8,741	7,908		A/A	NA	120,664	15,000	394,752
Total SPS	6,377	16,788	(23,998)		8,741	7,908		N/A	A/A	120,664	15,000	394,752
PSCo Bargaining Plan		377	(547)		Š	CC		VIX.	****	6	c	000
Discolutioned Operations - Oriegenine		2 !	1		74	780		47	(2	0,2,0	380	208'8
PSCo	21,667	43,985	(57,881)	(3,212)	22,122	26,681		N/A	N/A	242,695	39,614	1,041,247
Total PSCo	21,667	44,401	(58,428)	(3,212)	22,543	26,971		N/A	N/A	248,913	40,000	1,051,210
Total Xcel Energy	85,992	144,283	(203,211)	(4,643)	88,180	110,601		34,783	30,761	878,054	150,000	3,474,403

<sup>&</sup>lt;sup>1</sup> Settlement accounting may be required if lump sum benefit payments exceed the sum of service cost and interest on a plan by plan basis. No settlements have been estimated at this time.

<sup>2</sup> Includes NPG, BMG, Viking, Natro Cas, Utility Engineering, Seren, Quixx, Crockett and QPS

<sup>3</sup> Includes Eloigne

Assumptions
Discount Rate - U.S. GAAP
4,31%
ACEP
A.55%
4,25%
4,35%
A.57%
A.58%
A.57%
Blocount Rate - Los Garde
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XCEL ENERGY INC. - Nonqualified Pension Plans Cost by Legal Entity (\$ in Thousands)

			į	ALIOI UZALIOIIS	2000				€
019	Service Cost	Interest Cost	Expected Return on Assets	Prior Service Cost	Net (Gain)/Loss	Settlement Charge <sup>1</sup>	Net Cost	January 1 Prepaid (Accrued)	Expected Benefit Payments
Discontinued Operations <sup>2</sup>	Î	30	i	i	(53)		(23)	(1,291)	16
Xcel Energy Nuclear	80	22	î	1	(13)	3	88	(663)	42
NSP - MN	33	142	9	9	318	,	493	(272)	472
NSP - WI	17	19	(*)	•	2	<b>C</b>	38	(458)	49
PSCo3	41	126	£		300	ř	467	(28)	416
SPS	7	29	Ĭ	•	120	ž	198	(462)	251
Xcel Services⁴	721	868	9	133	578	9	2,330	(16,717)	4.048
XEPC (former EMI)		1	X		(3)		(3)	(27)	The second secon
otal Xcel Energy	903	1,304	ř	133	1,249		3,589	(19,948)	5,369

<sup>&</sup>lt;sup>1</sup> Settlement accounting may be required if Iump sum benefit payments exceed the sum of service cost and interest cost. No settlements have been estimated at this time. <sup>2</sup> Includes NRG, BMG, Viking, Natrogas, Quiox, Seren and UE <sup>3</sup> Includes Fort St. Vrain <sup>4</sup> Includes Eloigne

Assumptions
Discount Rate
Salary Scale (career average)
Assumed Mortality Table

RP-2014 White Collar as adjusted for 2014 Xcel Energy mortality study, projected with generational mortality improvements using an adjusted SOA MP-2016 methodology

See February 8, 2019 letter for additional information on data, assumptions, methods and plan provisions.

EXHIBIT III Page 1 of 6

2019	Service Cost	Interest Cost	Expected Return on Assets	Prior Service Cost	Net (Gain)/Loss	ال Net Cost	January 1 Prepaid (Accrued)	Contribution
Discontinued Operations1		309	(17)	(110)	62	207	(4,760)	658
Xcel Energy Nuclear	14	36	In	22	(15)	92	(822)	17
NSP - MN <sup>2</sup>	112	3,091	(129)	(3,075)	1,523	1,522	(50,755)	7,187
NSP - WI	27	528	(23)	(351)	299	480	(866'9)	1,168
PSCo	478	15,626	(18,936)	(668'5)	2,936	(5,295)	47,175	Ĭ
SPS <sup>3</sup>	879	1,741	(2,039)	(466)	(420)	(305)	(13,234)	ř
Xcel Services <sup>3</sup>	43	1,132	(33)	(595)	676	1,253	(12,591)	1,587
XEPC (former EMI)	r	-		1	(4)	(3)	(117)	ß
Total Xoel Energy	1,553	22,464	(21,231)	(606'6)	5,074	(2,049)	(42,102)	10,622

Includes NRG, BMG, Viking, Natrogas, Cheyenne, Quixx and UE.

<sup>2</sup>Includes Eloigne and Seren.

Includes Executive Life Insurance benefits.

Post-65 5.30% 4.50% 2023 4.32% 5.30% Pre-65 6.50% 4.50% 2023 Assumptions
Discount Rate
Expected Return on Assets
Medical Trend
Initial (2019)
Ultimate
Year Ultimate Reached
Assumed Mortality Table
Bargaining:

Bargaining:

RPH-2014 Blue Collar headcount-weighted table adjusted for Xcel Energy mortality study, projected with generational mortality improvements using an adjusted SOA

Non-bargaining:

RPH-2016 methodology.

RP-2016 methodology.

Contributions for PSCo and SPS are assumed equal to the net cost, but not less than zero. Contributions for other legal entities are assumed equal to the expected benefit payments.

Xcel Energy Inc. - LTD and Workers' Compensation Benefit Cost Estimates by Legal Entity (\$ in Thousands)

Exhibit VI Page 1 of 1

2024	Budget	4.23%	234	238	53	r,	291	4.23%	1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	251	542
2023	Budget	4.23%	253	256	55	ï	311	4.23%	1 1 1 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1	272	583
2022	Budget	4.23%	270	274	58	r	332	4.23%	2002 441 233 77 77 7 7 9	298	630
2021	Budget	4.23%	289	294	09	.i.	354	4.23%	2 13 2 4 2 8 2 1 4 2 8 2 1 4 2 8 2 1 4 2 8 2 1 4 2 8 2 1 4 2 9 2 9 2 9 2 9 2 9 2 9 2 9 2 9 2 9 2	324	678
2020	Budget	4.23%	310	314	62	Ĭ	376	4.23%	20 226 46 46 17 17	357	733
2019	Budget	4.23%	(472)	(464)	30	ï	(434)	4.23%	(32) 57 (99) (73) 51 (5) (1)	(71)	(502)
2018	Actual	3.51%	339	286	555	(3)	838	3.51%	(21) 89 (22) (258) (117) (717) (7) (3) 91	(245)	593
Fiscal Year Ending	U.S. GAAP	Discount Rate- Workers' Compensation	Former NSP - Workers' Compensation ' MN/SD MIMM	Subtotal	Former NCE - Workers' Compensation <sup>1</sup> Colorado - PSCo	Deductible States - Workers' Compensation Deductible States - SPS (KS, OK, NM, and TX)	Total Xcel Energy Workers' Compensation	Discount Rate - LTD Income	LTD Income Discontinued Operations - Cheyenne Discontinued Operations <sup>2</sup> Discontinued Operations <sup>2</sup> NSP-MN NSP-WI PSCo SPS Utility Engineering XCel Services XEPC	Total Xcel Energy LTD Income	Total Xcel Energy U.S. GAAP

Results for former NSP states include income replacement and medical benefits as well as reserve for bankrupt insurers.
 Includes NRG, BMG, Viking and Natrogas.

See February 8, 2019 letter for additional information on data, assumptions, methods, and plan provisions.

Calculation of Actuarially Determined Pension and Benefit Amounts Southwestern Public Service Company

TEDICAL	2019	Ī		(305,000)	1,253,000	(7)
OPEB RETIREE N	2018 2019			(558,000)	1,527,000 1,253,000	(3)
NOISN	2019	3,604,000	7,908,000	11,512,000	21,759,000	(5)
OUALIFIED PE	2018	3,993,000	9,739,000	13,732,000	23,352,000 21,759,000	(E)
Total Cost Alliounts Holl Actual at Nepol R			SPS-Barg		Xcel Service	

## Calculation of Total Cost Amounts to Cost of Service Amounts

	nò	QUALIFIED PENSION	7	OPEB	OPEB RETIREE MEDICAL	AL
	Test Year 12 Months Ending 3/31/19	2019 Cost	Known & Measurable Incr/(Decr) from Test Year	Test Year 12 Months Ending 3/31/19	2019 Cost	Known & Measurable Incr/(Decr) from Test Year
SPS. SPS-NCE Total Cost	3,895,750	3,604,000	(291,750)			
SPS-Barg Total Cost Total SPS	9,281,250	7,908,000	(1,3/3,250)	(494.750)	(305,000)	189.750
Percent to SPS O&M FERC 926	61.63%	61.63%		61.63%	61.63%	
Amount to SPS O&M FERC 926	8,120,353	7,094,294	(1,026,060)	(304,891)	(187,957)	116,934
Xcel Service Xcel Service Total Cost Percent to SPS O&M FERC 926	22,953,750	21,759,000	(1,194,750)	1,458,500 12.50%	1,253,000	(205,500)
Amount to SPS O&M FERC 926	2,870,332	2,720,930	(149,402)	182,383	156,686	(25,697)
Affiliate Charges	(904)	•	904	33	ı	(33)
Total Amount to SPS O&M	10,989,781	9,815,224	(1,174,557)	(122,475)	(31,271)	91,204

<sup>1)</sup> Attachment RRS-2, Exhibit I Page 1 of 6
3) Attachment RRS-2, Exhibit III Page 1 of 6
5) Attachment RRS-3, Exhibit I Page 1 of 6
7) Attachment RRS-3, Exhibit III Page 1 of 6

Calculation of Actuarially Determined Pension and Benefit Amounts

Southwestern Public Service Company

Total Cost Amounts from Actuarial Reports				
			FAS 112 LONG-TERM	DISABILITY
	NON-QUALIFIED	PENSION	AND WORKERS COMPENSATION	PENSATION
	2018	2019	2018	2019
SPS		198,000	(10,000)	21,000
Xcel Service	2,872,000	2,330,000	91,000	10,000
	(2)	(9)	(4)	(8)

Calculation of Total Cost Amounts to Cost of Service Amounts

	NON	NON-QUALIFIED PENSION	N	FAS 112 LONG-TE	FAS 112 LONG-TERM DISABILITY AND WORKERS COMPENSATION	AD WORKERS	TOTAL NON-QUALIFIED PENSION, FAS 112 LONG-TERM DISABILITY & FAS 112 WORKERS COMPENSATION	DTAL NON-QUALIFIED PENSION, FAS 112 LONG-TEE DISABILITY & FAS 112 WORKERS COMPENSATION	112 LONG-TERM MPENSATION
	Test Year 12 Months Ending 3/31/19	2019 Cost	Known & Measurable Incr/(Decr) from Test Year	Test Year 12 Months Ending 3/31/19	2019 Cost	Known & Measurable Incr/(Decr) from Test Year	Test Year 12 Months Ending 3/31/19	2019 Cost	Known & Measurable Incr/(Decr) from Test Year
SPS SPS Total Cost Percent to SPS O&M FERC 926	208,500 61.63%	198,000	(10,500)	(9,374.00)	21,000	30,374	199,126	219,000	19,874
Amount to SPS O&M FERC 926	128,489	122,018	(6,471)	(5,777)	12,941	18,718	122,712	134,959	12,247
Xeel Service Xeel Service Total Cost Percent to SPS O&M FERC 926	2,736,500	2,330,000	(406,500)	70,750 12.50%	10,000	(60,750)	2,807,250 12.50%	2,340,000	(467,250)
Amount to SPS O&M FERC 926	342,195	291,363	(50,832)	8,847	1,250	(7,597)	351,042	292,613	(58,429)
Affiliate Charges	(13)	,	13	1		(1)	(12)		12
Total Amount to SPS O&M	470,671	413,381	(57,290)	3,071	14,192	11,121	473,742	427,573	(46,169)

<sup>2)</sup> Attachment RRS-2, Exhibit II Page 1 of 6 4) Attachment RRS-2, Exhibit VI 6) Attachment RRS-3, Exhibit II Page 1 of 6. 8) Attachment RRS-3, Exhibit VI

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		NI.		MISCBEN	MISC BENEFIT PROGRAMS AND LIFE	S AND LIFE			
	AC	ACTIVE HEALTH CARE	ARE		INSURANCE		TOTAL	TOTAL HEALTH AND WELFARE	WELFARE
			Known &			Known &			
	Test Year		Measurable			Measurable	Test Year		Known &
	Adjusted 12 Months Ending	Adjusted 12 Amount Months Ending Included in Cost 3/31/19 of Service	Incr/(Decr) from Base Period Adiusted	Test Year 12 Months Ending	Test Year 12 Amount Months Ending Included in Cost 3/3/1/19 of Service	Incr/(Decr) from Base Period Adiusted	Adjusted 12 Months Ending	Amount Included in Cost of Service	Adjusted 12 Amount Measurable Months Ending Included in Cost Incr(Decr) from 3/31/19 of Service Test Vest Adjusted
SdS		200	narentary	71170	2011	marginary		201	nagenfact man agai
Total Cost Per Book Amount	16,032,231						16,032,231		
Adjust to Incurred Basis	(339,472)						(339,472)		
Total Cost on Incurred Basis	15,692,759	15,945,132		1,202,270	1,202,270		16,895,029	17,147,402	•
Percent to SPS O&M FERC 926	61.68%	61.67%		61.63%	61.63%		61.67%	61.67%	
Amount to SPS O&M FERC 926	9,678,590	9,834,115	155,525	740,901	740,901		10,419,491	10,575,016	155,525
Xcel Service									
Total Cost Per Book Amount	37,628,208						37,628,208		
Adjust to Incurred Basis	(2,229,096)		·				(2,229,096)		ı
Total Cost on Incurred Basis	35,399,112	36,801,095		6,094,738	6,094,738		41,493,850	42,895,833	
Percent to SPS O&M FERC 926	12.55%	12.54%		12.50%	12.50%		12.54%	12.54%	
Amount to SPS O&M FERC 926	4,441,269	4,616,585	175,316	762,138	762,138	1	5,203,407	5,378,723	175,316
Affiliate/Other Charges	4,928	4,928	,	(83)	(83)	,	4,845	4,845	•
,									
Total Amount to SPS O&M FERC 926	14,124,786	14,455,628	330,842	1,502,956	1,502,956		15,627,743	15,958,584	330,842

Calculation of Active Health and Welfare Amounts

Average Balances of Qualified and Non-Qualified Pension Fund Amounts

Southwestern Public Service Company

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FERC	JDE Object	SAP Object	A position of the state of the	Mar	Apr	May 1.77.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	June June	Jul TTD (2018)	Aug T TT (2016)	Sep 1 Try (2010)
Account	Account	Account	Account Description	L1D (2010)	LID (2010)	LID (2010)	LID (2010)	L1D (2010)	L1D (2010)	L1D (2010)
228.3	431110.1000	2421006	Accrd Qual Pen Post 15	\$ (74,567,250) \$	(74,550,667)	(74,534,083) \$	(74,517,500) \$	(74,500,917)	\$ (74,484,333)	(74,467,750)
182.3	150201.1700	1151021	FAS 158 Reg Asset Pensi	\$ 13,155,000 \$ 13,155,000 \$ 13,155,000 \$ 12,924,000 \$ 12,924,000 \$ 12,924,000 \$ 13,154,750	13,155,000	13,155,000 \$	12,924,000 \$	3 12,924,000	\$ 12,924,000	3 13,154,750
182.3	244510.9997	1402006	FAS 158 RA Pension Cont	\$ (13,155,000) \$	(13,155,000) \$	(13,155,000) \$	(12,924,000) \$	(12,924,000)	(13,155,000) \$ $(13,155,000)$ \$ $(12,924,000)$ \$ $(12,924,000)$ \$ $(12,924,000)$ \$	\$ (13,154,750)
182.3	244510.1700	1402006	FAS 158 Reg Asset Pensi	\$ 232,169,359 \$	231,008,442	, 229,847,525	228,686,609	3 227,525,692	\$ 228,686,609 \$ 227,525,692 \$ 226,364,775 \$ 225,203,859	3 225,203,859
Total Prepaid l	otal Prepaid Pension Asset - Qualified	jed		\$ 157,602,109 \$ 156,457,775 \$ 155,313,442 \$ 154,169,109 \$ 153,024,775 \$ 151,880,442 \$ 150,736,1	156,457,775	; 155,313,442 \$	154,169,109	3 153,024,775	\$ 151,880,442	5 150,736,109

### Prepaid Pension Asset - Non-Qualified

FERC	JDE Object	SAP Object			Mar	Apr	May	June	Jul	Aug	Sep
Account	Account	Account	Account Desciption	$\Gamma$	LTD (2018)	LTD (2018)	LTD (2018) I	CTD (2018)	LTD (2018)	LTD (2018)	LTD (2018)
182.3	244510.1800	1402001	FAS 158 Reg Asset Nqual	8	374,604 \$	371,253 \$	367,903 \$	364,552 \$	361,202 \$	357,851	\$ 354,50
182.3	150201.1800	1151001	FAS 158 RA Non Qualified Curr	8	(39,072) \$	(39,072) \$	(39,072) \$	(39,450) \$	(39,450) \$	39,450)	\$ (39,072)
182.3	244510.9998	1402001	FAS 158 RA NQual Pensio	8	39,072 \$	39,072 \$	39,072 \$	39,450 \$	39,450 \$	39,450 \$	\$ 39,072
242	338310.1000	2244031	A/P NonQualified Pen Po	8	(235,000) \$	(235,000) \$	(235,000) \$	(235,000) \$	(235,000) \$	; (235,000) \$	\$ (235,000)
219	488200.160	3152011	OCI NonQ Pension FAS 158	8	864,549 \$	856,816 \$	849,083 \$	841,350 \$	833,617 \$	825,885	\$ 818,152
228.3	431440	2421036	Accrued Nonqual Pension	8	(1,472,791) \$	(1,460,016) \$	(1,447,242) \$	(1,437,752) \$	(1,428,263) \$	(1,410,845) \$	\$ (1,399,9
tal Prepaid P	Fotal Prepaid Pension Asset - Non-Qualified	ualified		S	(468,638) \$	(466,947) \$	(465,256) \$	(466,850) \$	(468,444) \$	(462,109)	\$ (462,3

\$ 157,133,471 \$ 155,990,829 \$ 154,848,186 \$ 153,702,259 \$ 152,556,331 \$ 151,418,333 \$ 150,273,765

**Total Net Prepaid Pension Costs** 

\$ 157,289,139 \$ 153,177,668

\$ 149,129,196 \$ 147,984,628 \$ 143,579,059 \$ 159,156,943 \$ 158,247,541

**Total Net Prepaid Pension Costs** 

Average Balances of Qualified and Non-Qualified Pension Fund Amounts

Southwestern Public Service Company

Prepaid Pension Asset - Qualified

13 Month	Average					3 153,633,570
Mar	LTD (2019)	(69,172,000)	11,172,500	(11,172,500)	226,886,109	157,714,109 \$
Feb	LTD (2019)	(69,147,000) \$	12,896,000 \$	(12,896,000) \$	227,820,442 \$	158,673,442 \$
Jan	LTD (2019)	(46,762,000) \$	12,896,000 \$	(12,896,000) \$	206,345,776 \$	159,583,776 \$
Dec	LTD (2018) L	\$ (000,865,58)	12,896,000 \$	(12,896,000) \$	229,640,109 \$	144,042,109 \$
Nov	LTD (2018) L	(74,434,583) \$	13,154,750 \$	(13,154,750) \$	222,882,025 \$	148,447,442 \$
Oct	LTD (2018) I	\$ (74,451,167) \$	\$ 13,154,750 \$ 13,154,750 \$ 12,896,000 \$ 12,896,000 \$ 12,896,000 \$ 11,172,500	\$ (13,154,750) \$ (13,154,750) \$ (12,896,000) \$ (12,896,000) \$ (12,896,000) \$ (11,172,500)	\$ 224,042,942 \$	\$ 149,591,775 \$ 148,447,442 \$ 144,042,109 \$ 159,583,776 \$ 158,673,442 \$ 157,714,109 <b>\$</b>
	Account Desciption	Accrd Qual Pen Post 15	FAS 158 Reg Asset Pensi	FAS 158 RA Pension Cont	FAS 158 Reg Asset Pensi	
SAP Object	Account	2421006	1151021	1402006	1402006	ed
JDE Object	Account	431110.1000	150201.1700	244510.9997	244510.1700	otal Prepaid Pension Asset - Qualified
FERC	Account	228.3	182.3	182.3	182.3	Total Prepaid Per

Prepaid Pension Asset - Non-Qualified

FERC Account	JDE Object Account	SAP Object Account	Account Desciption	7	Oct LTD (2018)	Nov LTD (2018)	Dec LTD (2018) I	Jan LTD (2019)	Feb LTD (2019)	Mar LTD (2019)	13 Month Average
182.3	244510.1800	1402001	FAS 158 Reg Asset Nqual	S	51,150 \$	347,800 \$	8	5	380,652	377,539	0
182.3	150201.1800	1151001	FAS 158 RA Non Qualified Curr	S	(39,072) \$	(39,072) \$	(38,694) \$	(38,694) \$	(38,694)	(37,106)	
182.3	244510.9998	1402001	FAS 158 RA NQual Pensio	\$	39,072 \$	39,072 \$	38,694 \$	38,694 \$	38,694	37,106	
242	338310.1000	2244031	A/P NonQualified Pen Po	↔	(235,000) \$	(235,000) \$	(251,000) \$	(251,000) \$	(251,000) \$	(251,000)	
219	488200.160	3152011	OCI NonQ Pension FAS 158	↔	810,419 \$	802,686 \$	856,072 \$	849,185 \$	842,298	835,411	
228.3	431440	2421036	Accrued Nonqual Pension	S	(1,389,148) \$	(1,378,300) \$	(1,455,000) \$	(1,408,783) \$	(1,397,852)	(1,386,920)	
tal Prepaid P	<b>Fotal Prepaid Pension Asset - Non-Qualified</b>	)ualified		S	(462,579) \$	(462,814) \$	(463,049) \$	(426,833) \$	(425,901)	(424,970)	\$ (455,90

Development of Qualified Pension Asset Balance

Southwestern Public Service Company

(\$ in Thousands)	Actual	al	Actual		Actual	A	Actual	A	Actual	Aci	Actual	Actual		Actual		Actual		Actual
	Aug. 31 1988	31	Aug. 31 1989	7	Aug. 31 1990	A	Aug. 31 1991	Aı 1	Aug. 31 1992	Au 19	Aug. 31 1993	Aug. 31 1994		Aug. 31 1995		Aug. 31 1996		Sep Dec. Transition
Begining Balance Pension Asset (Liability)	\$	302,	2,706 \$ 3,724 \$ 3,902	<b>+</b>	3,902	\$	4,531	<del>\$</del>	(5,955)	<b>⇔</b>	(7,207)	4,531 \$ (5,955) \$ (7,207) \$ (7,347) \$ (7,039) \$ (7,045) \$ (6,905)	\$ (/	(7,03	\$ (6	(7,0	15) \$	(6,905
Pension (Expense) Credit Accrual Net Employer Contributions	& & 1	1,018 \$		\$ \$	(471) \$ (1,332) 649 \$ 1,961	↔ ↔	(2,464) \$ (2,487) \$ (1,354) \$ - \$ 1,235 \$ 1,214 \$	<b>↔ ↔</b>	(2,487) 1,235	<b>↔</b> ↔	(1,354)		1) \$ 9 \$	(761) \$ (1,097) \$ 1,069 \$ 1,091 \$	(7) \$ 1		(855) \$ 995 \$	9 348
Other						∌	(8,022)											
Ending Balance Pension Asset (Liability)	\$ 3	,724	3,724 \$ 3,902 \$ 4,531	\$ 2	4,531		<b>\$</b> (5,955) <b>\$</b> (7,207) <b>\$</b> (7,347) <b>\$</b> (7,039) <b>\$</b> (7,045) <b>\$</b> (6,905) <b>\$</b>	\$	(7,207)	\$	7,347)	\$ (7,03)	\$ (6	(7,04	5) \$	(6,90	\$ (5(	(6,548)

Southwestern Public Service Company
Development of Qualified Pension Asset Balance

(\$ in Thousands)	Actual Dec. 31	Actual Dec. 31	Actual Dec. 31	Actual Dec. 31	Actual Dec. 31	Actual Dec. 31	Actual Dec. 31	Actual Dec. 31	Actual Dec. 31	Actual Dec. 31
Begining Balance Pension Asset (Liability)	1997 \$ (6,548) \$	1998	1999 \$ 24,611	<b>2000 2001</b> \$ 40,087 \$ 61,359	<b>2001</b> \$ 61,359	2002         2003         2004         2005         2006           \$ 82,503         \$ 105,044         \$ 121,580         \$ 132,757         \$ 143,309	<b>2003</b> \$ 105,044	<b>2004</b> \$ 121,580	<b>2005</b> \$ 132,757	<b>2006</b> \$ 143,309
Pension (Expense) Credit Accrual Net Employer Contributions Other	\$ 12,645 \$ (6,097)	12,645 \$ 15,175 \$ 15,476 (6,097) \$ 9,436	\$ 15,476 \$ -	\$ 21,352 \$ \$ - \$ \$ (80) \$	\$ 21,131 \$ - \$ 14	21,352 \$ 21,131 \$ 22,235 \$ 16,536 \$ 11,177 \$ - \$ - \$ - \$ - \$ - \$ - \$ 8 (80) \$ 14 \$ 306	\$ 16,536 \$ -	\$ 11,177	\$ 9,102 \$ 1,450	\$ 6,934 \$ 584
Ending Balance Pension Asset (Liability)	<b>∞</b>	\$ 24,611 \$ 40,087		\$ 61,359	\$ 82,503	82,503 \$ 105,044 \$ 121,580		\$ 132,757	\$ 132,757 \$ 143,309 \$ 150,827	\$ 150,827

Development of Qualified Pension Asset Balance

Southwestern Public Service Company

(\$ in Thousands)	Actual Dec. 31 2007	Actual Dec. 31 2008	Actual Dec. 31 2009	Actual Dec. 31 2010	Actual Dec. 31 2011	Actual Dec. 31 2012	Actual Dec. 31 2013	Actual Dec. 31 2014	Actual Dec. 31 2015
Begining Balance Pension Asset (Liability)	\$ 150,827 \$ 158,778	\$ 158,778	\$ 169,516	\$ 184,514	\$ 178,721	\$ 169,516 \$ 184,514 \$ 178,721 \$ 171,936 \$ 167,329 \$ 167,773	\$ 167,329	\$ 167,773	153,681
Pension (Expense) Credit Accrual Net Employer Contributions Other	\$ 7,951	7,951 \$ 10,738	\$ 6,644 \$ 8,354	\$ (5,793)	\$ (11,961) \$ 5,176	6,644 \$ (5,793) \$ (11,961) \$ (17,624) \$ (21,571) \$ (16,829) 8,354 \$ - \$ 5,176 \$ 13,060 \$ 22,015 \$ 4,869 \$ (44)	\$ (21,571) \$ 22,015	\$ (16,829) \$ 4,869 \$ (2,132)	(17,706)
Ending Balance Pension Asset (Liability)	\$ 158,778 \$ 169,516	\$ 169,516	\$ 184,514	\$ 178,721	\$ 171,936	\$ 167,329	\$ 167,773	\$ 153,681	\$ 147,626
Ending Balance Pension Asset (Liability)	\$ 158,778	\$ 169,516	\$ 184,514	\$ 178,721	\$ 171,936	\$ 167,329	\$ 167,773	1	\$ 184,514 \$ 178,721 \$ 171,936 \$ 167,329 \$ 167,773 \$ 153,681 \$ 147,626

Southwestern Public Service Company
Development of Qualified Pension Asset Balance

(\$ in Thousands)	Actual	Actual Dec 31		Actual	Forecast	Forecast	Forecast	Forecast		Forecast	Forecast Dec 31
	2016	2017		2018	2019	2020	2021	2022		2023	2024
Begining Balance Pension Asset (Liability)	\$ 147,626 \$		144,174 \$ 1.	53,002	153,002 \$ 144,091	\$ 149,080 \$ 152,585	\$ 152,585	\$ 156,514 \$ 156,508	14 \$	156,508	161,324
Pension (Expense) Credit Accrual Net Employer Contributions Other	\$ (15,404) \$ 18,088 \$ (6,135)	<del>\$</del> \$ \$	(14,566) \$ (23,503 \$ (109) \$	(13,732) 8,033 (3,212)	\$ (11,512) \$ 16,501	(13,732) \$ (11,512) \$ (11,007) \$ (9,649) \$ 8,033 \$ 16,501 \$ 14,512 \$ 13,578 \$ (3,212)	\$ (9,649 \$ 13,578		\$ 00	(8,606) \$ (8,180) 8,600 \$ 12,996	(7,240)
Ending Balance Pension Asset (Liability)	\$ 144,174 \$		153,002 \$ 1	44,091	\$ 149,080	144,091 \$ 149,080 \$ 152,585 \$ 156,514 \$ 156,508 \$ 161,324 \$ 155,588	\$ 156,514	\$ 156,50	\$ 80	161,324	\$ 155,588