DOCKET NO.

APPLICATION OF SOUTHWESTERN§PUBLIC UTILITY COMMISSIONPUBLIC SERVICE COMPANY FOR§AUTHORITY TO CHANGE RATES§OF TEXAS

DIRECT TESTIMONY of RICHARD R. SCHRUBBE

on behalf of

SOUTHWESTERN PUBLIC SERVICE COMPANY

(Filename: SchrubbeRRDirect.doc)

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Acronym/Defined Term	Meaning
ADIT	Accumulated Deferred Income Taxes
Commission	Public Utility Commission of Texas
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
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
РВО	Pension Benefit Obligation
PURA	Public Utility Regulatory Act
SPS	Southwestern Public Service Company, a New Mexico corporation
Test Year	April 1, 2018 through March 31, 2019
WACC	Weighted Average Cost of Capital
Xcel Energy	Xcel Energy Inc.
XES	Xcel Energy Services Inc.

GLOSSARY OF ACRONYMS AND DEFINED TERMS

LIST OF ATTACHMENTS

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

DIRECT TESTIMONY OF RICHARD R. SCHRUBBE

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
20		Resources department, external actuaries, and senior management with benefit
21		fiduciary roles for Xcel Energy and its subsidiaries. I am also responsible for

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- coordinating the benefits operation and maintenance ("O&M") and capital
 budgeting and forecasting processes, as well as the monthly analysis of actual
 results against these budgets and forecasts.
- 4 Q. Please describe your educational background.
- 5 A. I received a Bachelor of Science degree, with a major in finance, from Marquette
 6 University in 1996.
- 7 Q. Please describe your professional experience.
- 8 From 2000 to 2005, I was employed by the DoALL Company, first as a Staff A. 9 Accountant, later as Assistant Controller, and then as Corporate Controller. From 10 2005 to 2007, I was employed by Wilsons Leather as a Financial Analyst. In 11 2007, I joined XES as a Consultant. I became the Manager of Corporate 12 Accounting in 2010 and the Director of Corporate and Benefits Accounting in 13 2013. Additionally, in 2014, I was assigned responsibilities associated with the oversight of the administration of XES, including accounting, billing, allocations, 14 15 policies and procedures, service agreements, internal audits, external audits, and 16 external reporting to state and federal regulatory agencies. In 2016, I was 17 promoted to my current position.

18 Q. Have you testified or filed testimony previously before any regulatory 19 authorities?

A. Yes. I submitted pre-filed direct testimony on SPS's behalf to the Public Utility
Commission of Texas ("Commission") in Docket Nos. 43695, 45524, and 47527
on pension and other post-employment benefit expenses, active health care
expenses, and the proper treatment of a prepaid pension asset, among other issues.

I have also testified before the New Mexico Public Regulation Commission, the
 Colorado Public Utilities Commission, and the Minnesota Public Utilities
 Commission on pension and benefit issues.

1

II. ASSIGNMENT AND SUMMARY OF TESTIMONY

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		1. I support SPS's request to recover its reasonable and necessary expenses for qualified pension calculated under Statement of Financial Accounting Standard ("FAS") 87, ¹ retiree medical costs calculated under FAS 106, and self-insured long-term disability ("LTD") costs calculated under FAS 112;	
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 14		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;	
18 19 20 21 22		5. I support the amount of pension and other post-employment benefit ("OPEB") expense to be used as the baseline on a going-forward basis for purposes of the tracker established under section 36.065 of the Public Utility Regulatory Act ("PURA"), and I quantify the current deferred balance to be amortized; ² and	
23 24 25		6. I quantify SPS's prepaid pension asset and support the request to continue including that prepaid pension asset in rate base and to earn a return on it at SPS's Weighted Average Cost of Capital ("WACC").	
26		In addition, I sponsor or co-sponsor the following schedules in SPS's Rate Filing	
27		Package: Schedules B-2, B-2.1, G-2.0, G-2.1, G-2.2 and G-2.3.	

¹ 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.

 $^{^2\,}$ PURA is codified in Title II of the Texas Utilities Code. See Tex. Utils. Code Ann. §§ 11.001-66.016.

1		Schedule B-2 lists the monthly balance of each accumulated provision
2		account (i.e., injuries and damages, property insurance, etc.), the amount accrued
3		each month, and the amount charged off each month during the Test Year. In
4		addition, Schedule B-2 provides the same information on an annual basis for the
5		prior three years. Schedule B-2.1 provides the information requested on Schedule
6		B-2 on a Texas retail basis only. I co-sponsor these schedules with SPS witness
7		Arthur P. Freitas.
8		The G-2 series of schedules provides general employee benefit
9		information with specific information on pension expense provided in Schedule
10		G-2.1, postretirement benefits other than pension expense provided in Schedule
11		G-2.2, and administration fees provided in Schedule G-2.3. I co-sponsor
12		Schedule G-2 with SPS witness Michael T. Knoll. The Rate Filing Package
13		requires that each of these schedules be updated 45 days after the initial filing.
14	Q.	Please summarize your testimony and recommendations.
15	A.	I support SPS's request for recovery of pension and other post-employment and
16		retirement benefits expense. I recommend that SPS be authorized to recover
17		\$10,211,527 of pension and other post-employment benefits expense. That
18		amount is composed of \$9,815,224 of qualified pension expense, \$(31,271) of
19		FAS 106 retiree medical expense, and \$14,192 of FAS 112 self-insured LTD
20		expense. SPS is not requesting recovery of non-qualified pension expense.
21		I also support SPS's request to recover its reasonable and necessary active
22		health and welfare costs, and I recommend that SPS be authorized to recover
23		\$15,958,584 for active health and welfare costs. That amount is composed of

\$14,455,628 of active health care costs, \$609,712 of third-party-insured LTD
 costs, \$152,145 of life insurance costs, and \$741,099 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 of third-party-insured workers' compensation costs. I also recommend that SPS be authorized to recover \$3,437,221 of other pension and benefit-related costs, which include 401(k) matching expense, consulting expense, and deferred compensation.

10I next support SPS's request to establish a baseline for pension and OPEB11expense on a going-forward basis under PURA § 36.065, and I recommend that12the Commission set that baseline at \$9,815,224 for qualified pension and13\$(31,271) for OPEB (both total company). For prior periods, the amount to be14amortized as a result of the pension and OPEB baseline deferrals is \$1,574,975.

15 Finally, I recommend that SPS continue to be allowed to include its 16 prepaid pension asset in rate base in accordance with the standard ratemaking 17 treatment of prepayments and Commission precedent. Customers earn a return on 18 the prepaid pension asset in the form of reduced annual pension cost, and 19 therefore it is appropriate for SPS to earn a return on the asset as well. SPS's 20 thirteen-month average net prepaid pension asset balance as of March 31, 2019 21 was \$153,177,668. SPS requests that it be allowed to include the prepaid pension 22 asset in rate base and to earn a return on that asset at SPS's WACC, consistent 23 with Commission precedent.

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1	Q.	Is any other SPS witness addressing compensation or benefit issues?
2	A.	Yes. Mr. Knoll discusses the cash compensation paid by SPS and the overall
3		reasonableness of Xcel Energy's Total Rewards Package, which consists of both
4		the cash and non-cash components of the compensation and benefits offered to
5		SPS and XES employees.
6	Q.	Were Attachments RRS-RR-1 and RRS-RR-4 through RRS-RR-7 prepared
7		by you or under your direct supervision and control?
8	А.	Yes.
9	Q.	Are Attachments RRS-RR-2 and RRS-RR-3 true and correct copies of the
10		documents that you have represented them to be?

11 A. Yes.

1		III. <u>PENSION AND BENEFITS OVERVIEW</u>
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:
6 7		• Pension and other post-employment and retirement benefits, which include:
8 9		 a defined-benefit qualified pension plan that provides eligible employees with a defined benefit amount upon retirement;
10 11 12		 a non-qualified pension restoration benefit that allows SPS to attract and retain employees who would otherwise be disadvantaged by the restrictions imposed under the qualified pension plan;
13		• a retiree medical plan available to certain retired employees; and
14		• LTD benefits;
15 16		• Active health and welfare benefits, which include medical, dental, pharmaceutical, vision, life insurance, and other miscellaneous benefits;
17 18		• Workers' compensation benefits, including both self-insured and third-party-insured benefits; and
19 20		• Other types of benefits, including a 401(k) defined contribution plan and certain types of deferred compensation.
21		As I mentioned previously, SPS is not requesting recovery of its non-qualified
22		pension expense in this case.
23	Q.	What is the requested amount for each of the elements of non-cash
24		compensation offered by SPS?
25	A.	Table RRS-RR-1 sets forth the total company amounts of the pension and benefit
26		costs that SPS seeks to recover in rates. Column B represents the per book
27		amount for each element of expense during the Test Year, which is the twelve-
28		month period from April 1, 2018 through March 31, 2019. Column C shows the
29		known and measurable adjustments to the Test Year amounts. Column D

1

contains the total company amounts for the Test Year for each element of expense

2 that is included in the cost of service in this case.

3

Α	В	С	D
Benefit	Test Year (12 months ended March 31, 2019)	Known and Measurable Adjustment	Test Year Amount (Total Company)
Qualified Pension	\$10,989,781	\$(1,174,557)	\$9,815,224
Non-Qualified Pension	\$470,671	\$(57,290)	\$413,381
Remove Non-Qualified Pension	-	\$(413,381)	\$(413,381)
FAS 106 Retiree Medical	\$(122,475)	\$91,204	\$(31,271)
FAS 112 Long-Term Disability (Self-Insured)	\$3,071	\$11,121	\$14,192
Active Health Care ³	\$14,590,175	4(134,546)	\$14,455,628
Long-Term Disability (Third-Party-Insured)	\$609,712	-	\$609,712
Life Insurance	\$152,145	-	\$152,145
Miscellaneous Benefit Programs and Costs	\$741,099	_	\$741,099
401(k) Match	\$3,105,887	\$92,250	\$3,198,137
Miscellaneous Retirement- Related Costs	\$239,084	-	\$239,084
Workers Compensation (Third-Party-Insured)	\$811,724	_	\$811,724
Total Pension and Benefits Expense	\$31,590,875	\$(1,585,199)	\$30,005,676

Table RRS-RR-1

³ 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 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.

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

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,
consistent with the Commission's treatment of SPS's prepaid pension asset in
Docket No. 43695.

1 2

III. <u>RECOVERY OF PENSION AND OTHER POST-EMPLOYMENT</u> <u>BENEFITS EXPENSE</u>

3

Q. What topic do you discuss in this section of your testimony?

- A. I discuss the amounts requested for pension and other post-employment benefit
 expenses, which include qualified pension expense, FAS 106 retiree medical
 expense, and FAS 112 LTD benefits.
- Q. Are the pension and other post-employment and retirement benefit amounts
 that SPS seeks to include in the cost of service determined by actuarial
 studies or similar studies prepared in accordance with Generally Accepted
 Accounting Principles ("GAAP")?
- A. Yes. SPS's pension and other post-employment and retirement benefit expense
 amounts are calculated in accordance with actuarial standards, and the results are
 set forth in actuarial studies that are attached to my testimony as Attachment
 RRS-RR-2 and Attachment RRS-RR-3.

15 A. Qualified Pension Expense

- 16 Q. How are qualified pension costs determined?
- 17 A. Pension costs are determined under FAS 87, Employers' Accounting for18 Pensions.
- 19 Q. Please describe SPS's qualified pension plan and the nature of the costs of
 20 the plan.
- A. The qualified pension plan is a traditional defined benefit pension plan, which
 promises bargaining employees monthly pension annuity payments based upon
 their level of pay and years of service. It promises non-bargaining employees a
 choice of either a lump sum payout or a monthly pension annuity based upon their

1		level of pay and years of service. Under a defined benefit pension plan, the		
2		promised pensions are a commitment by SPS.		
3	Q.	Do accounting rules and laws determine the cost for SPS's pension plan?		
4	A.	Yes. As I noted earlier, SPS accounts for the cost of its pension plan under the		
5		rules set forth in FAS 87, which prescribes the rules that companies must follow		
6		in determining whether their pension costs comply with GAAP. However, FAS		
7		87 does not dictate how a company must fund the plan. The funding of the plan is		
8		determined based upon prudent business practices, with constraints imposed by		
9		the requirements of the Pension Protection Act of 2006, the Employee Retirement		
10		Income Security Act ("ERISA"), and the Internal Revenue Code ("IRC"):		
11		• There are minimum required contributions;		
12 13		• There are maximum contributions that can be deducted for tax purposes; and		
14 15		• SPS has a fiduciary responsibility to prudently protect the interests of the plan participants and beneficiaries.		
16		The minimum and maximum funding rules set forth under the Pension Protection		
17		Act, ERISA, and the IRC are different from the methodology used under FAS 87		
18		to determine pension cost. Over the long run, the cumulative employer		
19		contributions made to a plan should equal the cumulative recognized pension		
20		expense calculated under FAS 87, but in the short and intermediate runs there can		
21		be significant differences.		
22	Q.	How is pension cost determined under FAS 87?		
23	A.	Under FAS 87, pension cost is composed of the following:		
24 25		1. the value of pension benefits that employees will earn during the current year (service cost);		

1 2. increases in the present value of the pension benefits that plan participants have earned in previous years (interest cost); 2 3 3. investment earnings on the pension plan assets that are expected to be earned during the year (expected return on assets ("EROA")); 4 5 4. recognition of costs (or income) resulting from experience that differs from the assumptions (amortization of unrecognized gains and losses); and 6 5. recognition of the cost of benefit changes the plan sponsor provides for 7 service the employees have already performed (amortization of 8 9 unrecognized prior service cost). 10 **Q**. Taking each of these five components in order, how is the service cost 11 component calculated? 12 A. The service cost component recognized in a period is the actuarial present value 13 of benefits attributed by the pension benefit formula to current employees' service 14 during that period. Actuarial assumptions are used to reflect the time value of 15 money (the discount rate) and the probability of payment (assumptions as to 16 mortality, turnover, early retirement, and so forth). 17 **O**. Next, how is the interest cost component calculated? 18 A. The interest cost component recognized in a fiscal year is determined as the increase in the projected benefit obligation ("PBO") due to the passage of time. 19 20 Measuring the PBO as a present value requires accrual of an interest cost at a rate 21 equal to the assumed discount rate. Essentially, the interest cost identifies the 22 time value of money by recognizing that anticipated pension benefit payments are 23 one year closer to being paid from the pension plan. 24 Q. How is the third component, EROA, calculated? 25 A. The EROA is determined based on the expected long-term rate of return on plan assets and the market-related value of plan assets. The market-related value of 26

- plan assets for SPS is a calculated value that recognizes changes in the fair value
 in a systematic and rational manner over five years.
- 3 Q. With regard to the fourth component, what are the unrecognized gains and
 4 losses?
- A. Unrecognized gains and losses are the asset gains and losses or the liability gains
 and losses from prior periods. In effect, those asset or liability gains and losses
 arise when the experience in a prior period differed from what was expected.

8 Q. Please explain the distinction between asset gains and losses and liability 9 gains and losses.

A. Asset gains and losses arise when the actual returns on the pension trust assets in prior years are greater than or lesser than the EROA. Suppose, for example, that the plan has an expected return of 7% on its pension trust assets, which total \$1 billion. The EROA for that year would be \$70 million. If the actual return in that year is 9%, the asset gain will be \$20 million. Of course, the opposite can also occur. If the EROA is 7% and the actual return on the assets is 5%, the plan suffers a \$20 million asset loss.

Liability gains and losses arise when the other components of pension cost differ from expectations. Those components include such things as the discount rate, the expected number of retirements, mortality rates, and wage increases. For example, if SPS assumes a 4% discount rate at the beginning of the year but the actual discount rate measured at year end for the next year turns out to be 5%; SPS will have a liability gain because the higher discount rate reduces the amount SPS must set aside to satisfy future pension liabilities.

Q. Is the distinction between asset gains and losses and liability gains and losses 2 important?

3 A. Yes. The distinction is important because, as I will discuss in more detail below, 4 the asset gains and losses are phased in over time, whereas the liability gains and 5 losses are not. Asset gains and losses are phased into an amortization "pool," for 6 lack of a better term, over a five-year period. Liability gains and losses are not 7 phased in, but instead are placed into the amortization pool in a single year. 8 Because gains and losses may reflect refinements in estimates as well as real 9 changes in economic values, and because some gains in one period may be offset 10 by losses in another or vice versa, FAS 87 does not require recognition of gains 11 and losses as a component of net pension cost in the period in which they arise.

12 Q. Please describe what you mean by the term "phase-in" of gains or losses.

13 A. The term "phase-in" is used to describe the process of moving asset gains or 14 losses into an amortization pool. Under FAS 87, the asset gains or losses are 15 incorporated into the calculation of pension cost over a period of five years. 16 Thus, 20% of a gain or loss is phased into the amortization pool during the first 17 year after the gain or loss occurs, another 20% is phased into the amortization pool during the second year after the gain or loss occurs, and so forth until the 18 19 fifth year, when the full amount of the gain or loss is phased-in. Unlike asset 20 gains or losses, liability gains and losses are not phased in, as I mentioned earlier. 21 The portion of gains and losses that enter the amortization pool are then amortized 22 over a specific period of years if they satisfy the criteria I discuss below.

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- Q. Why does SPS phase-in asset gains and losses and then amortize them over
 the average years to retirement of active employees?
- 3 A. When SPS moved to FAS 87 accounting in 1987, it elected to phase-in asset gains 4 and losses and to amortize these gains and losses over a period not to exceed the 5 average remaining service life (average years to retirement) of employees. The 6 purpose of the election was to reduce financial statement volatility in individual 7 accounting periods by ensuring that gains and losses are spread out over time, and 8 that they are not recognized in just the period that they occur. This phase-in and 9 amortization approach reduces volatility in recognized cost by smoothing gains 10 and losses over the longest allowed duration.
- 11 Q. Why are asset gains and losses phased-in but not liability gains and losses?
- 12 The assumptions used to establish pension liability (e.g., mortality rates, discount A. 13 rates, etc.) typically do not vary greatly from year to year, and therefore the 14 drafters of FAS 87 did not consider it necessary to require the phase-in of liability 15 gains and losses. In contrast, the market returns on pension fund assets can vary 16 greatly from year to year, as evidenced by the dramatic difference between the 17 EROA and the actual returns that SPS experienced on its pension fund assets in 18 2008. Because of the effects that such volatility would have on businesses' 19 income statements, the drafters of FAS 87 decided that it was appropriate to 20 phase-in market gains and losses.
- 21 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

1 loss is then compared to the present value of the PBO and to the market-related 2 value of the assets in the pension trust. If the net unamortized gain or loss is 3 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 4 If amortization of the unrecognized gains or losses is required, the 5 loss. 6 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 7 8 active participants in the plan. For SPS's bargaining employees this is 9 approximately 15 years, and for SPS's non-bargaining employees it is 10 approximately 10 years.

11 Q. Returning to the five elements of FAS 87 pension cost, what is the fifth 12 element – unrecognized prior service cost?

- A. Unrecognized prior service cost results from pension plan amendments that
 change benefits based on services rendered in prior periods. FAS 87 does not
 generally require the cost of providing such retroactive benefits (prior service
 cost) to be included in net periodic pension cost entirely in the year of the
 amendment but instead provides for recognition over the future years.
- 18 **Q.** How is unrecognized prior service cost amortized?
- A. Unrecognized prior service cost is amortized in the same manner as unrecognized
 gains and losses, with the exception of the 10% corridor.
- Q. Please summarize the calculation that is required to be used under FAS 87 to
 quantify annual pension cost
- 23 A. Annual pension cost is quantified using the following calculation:

1		Current service cost
2	+	Interest cost
3	-	EROA
4	+/-	Loss (gain) due to difference between expected and actual experience of
5		plan assets or liabilities from prior periods
6	+/-	Amortization of unfunded prior service cost
7	=	Annual pension cost

8 Q. Is the annual pension cost produced by this formula always a positive
9 number?

- 10 A. No. In some years, the negative amounts in the calculation (i.e., the EROA and 11 the gains resulting from the difference between expected and actual experience 12 from prior periods) can be larger than the positive amounts. When that happens, 13 the annual pension cost is actually negative. And if that occurs in a rate case test 14 year, the annual pension cost included in the cost of service may be a negative number, which reduces the overall cost of service. But even when the annual 15 pension cost is negative, shareholders are still providing the capital to fund the 16 17 prepaid pension asset.
- Q. What amount of expense did SPS incur during the Test Year for qualified
 pension expense?
- 20 A. SPS incurred \$10,989,781 for qualified pension expense.
- Q. Is SPS proposing to make any known and measurable changes to the
 qualified pension expense for events occurring after the end of the Test
 Year?
- A. Yes. SPS is requesting a known and measurable adjustment of \$(1,174,557) for
 qualified pension expense. This known and measurable is based on the 2019

calendar year qualified pension expense included in the Attachment RRS-RR-3
 actuarial report.

3 Q. What amount of qualified pension expense is SPS requesting in the cost of 4 service?

- 5 A. SPS is requesting approval of \$9,815,224 of qualified pension expense. Mr.
 6 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?
- 9 A. Yes. Attachment RRS-RR-4 contains the calculation of the total company
 10 qualified pension expense amounts included in the cost of service.⁴ Attachments
- 11 RRS-RR-2 and RRS-RR-3 contain the source documents for those calculations.
- 12 B. <u>Retiree Medical Expense</u>

13 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.
- 19 Q. Please describe SPS's retiree medical plan and the plan expenses.
- A. SPS's plan consists primarily of retiree medical benefits, but it also includes
 retiree life and dental insurance. SPS eliminated those benefits for all active non-

⁴ SPS's actuary, Willis Towers Watson, calculates the pension and benefit amounts on a total company basis. Thus, the amounts in Attachments RRS-RR-2 through RRS-RR-7 are presented on a total company basis.

1		bargaining employees more than ten years ago, and SPS bargaining employees
2		hired on or after January 1, 2012 are no longer eligible to receive retiree medical
3		benefits. Thus, the current expense for retiree medical benefits is a legacy of the
4		prior programs.
5	Q.	What amount of expense did SPS incur during the Test Year for retiree
6		medical expense?
7	A.	SPS incurred \$(122,475) for retiree medical expense.
8	Q.	Is SPS proposing to make any known and measurable changes to the retiree
9		medical expense for events occurring after the end of the Test Year?
10	A.	Yes. SPS is requesting a known and measurable adjustment of \$91,204 for retiree
11		medical expense. This known and measurable is based on the 2019 calendar year
12		retiree medical expense include in the Attachment RRS-RR-3 actuarial report.
13	Q.	What amount of retiree medical expense is SPS requesting in the cost of
14		service?
15	A.	SPS is requesting approval of \$(31,271) in retiree medical expense. Mr. Freitas
16		has included that amount of retiree medical credit in his cost of service.
17	Q.	Have you provided the numbers and assumptions that SPS used to determine
18		its retiree medical expense amounts?
19	A.	Yes. Attachment RRS-RR-4 contains the calculations of the retiree medical
20		expense amounts. Attachments RRS-RR-2 and RRS-RR-3 contain the source
21		documents for those amounts.

1 C. Self-Insured Long-Term Disability

2 Q. Please describe LTD in more detail and explain how it is accounted for.

A. The LTD costs are attributable to benefits provided by SPS to former or inactive
employees after employment but before retirement. The LTD plan provides
employees with income protection by paying a portion of an employee's income
while he or she is disabled by a covered physical or mental impairment.

7 SPS has two types of LTD – a self-insured benefit and a third-partyinsured benefit. In a third-party-insured plan, which I will discuss in more detail 8 9 later in this testimony, SPS purchases an insurance plan from an outside insurance 10 provider that assumes the risk. In a self-insured plan, SPS provides the benefits to 11 the covered individuals and therefore effectively acts as the insurer. For the self-12 insured piece, SPS is required to accrue for LTD costs under FAS 112, 13 Employers' Accounting for Post-Employment Benefits. The FAS 112 accrual 14 represents the expected disability benefit payments for employees that are not 15 expected to return to work.

Q. Which groups of employees are covered under the self-insured plan and which groups are covered under the third-party-insured plan?

A. Within the LTD benefit, all employees disabled before January 1, 2008 are
covered under the self-insured plan, and all employees disabled on and after
January 1, 2008 are covered under a third-party-insured plan.

Q. What amount of expense did SPS incur during the Test Year for self-insured LTD expense?

23 A. SPS incurred \$3,071 for self-insured LTD expense.

1	Q.	Is SPS proposing to make any known and measurable changes to the self-
2		insured LTD expense for events occurring after the end of the Test Year?
3	A.	Yes. SPS is requesting a known and measurable adjustment of \$11,121 for
4		self-insured LTD expense. This known and measurable is based on the 2019
5		calendar year self-insured LTD expense included in the Attachment RRS-RR-3
6		actuarial report.
7	Q.	What amount of self-insured LTD expense is SPS requesting in the cost of
8		service?
9	A.	SPS is requesting approval of \$14,192 of self-insured LTD expense. Mr. Freitas
10		has included that amount of self-insured LTD expense in the cost of service.
11	Q.	Have you provided the numbers and assumptions that SPS used to determine
12		its self-insured LTD benefits expense amounts in the Test Year?
13	A.	Yes. Attachment RRS-RR-4 contains the calculations of the self-insured LTD
14		benefits expense amounts. Attachments RRS-RR-2 and RRS-RR-3 contain the
15		source documents for those calculations.
16 17	D.	<u>Reasonableness of SPS's Pension and Other Post-Employment</u> and Retirement Benefits Expense
18	Q.	Are the amounts of SPS's pension and other post-employment and
19		retirement benefits expense reasonable?
20	A.	Yes. SPS follows a well-established, objective, and verifiable process to
21		determine the assumptions used within the actuarial calculations that yield the
22		pension and other post-employment and retirement benefits expense amounts.
23		The assumptions and the actuarially calculated total cost amounts are reflected in

1 my Attachment RRS-RR-4. In addition, the reasonableness of Xcel Energy's 2 Total Rewards Program design, which includes pension and other 3 post-employment and retirement benefits, is discussed in the direct testimony of 4 Mr. Knoll.

1		IV. <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 for active health care expense. Mr.
16		Freitas has included that amount of active health care expense in the cost of
17		service.
18	Q.	Does the Test Year amount match the per book amount of active health care
19		costs?
20	A.	No. The per book numbers for active health care amounts include estimates
21		because there is generally an average lag of approximately 30 days between when
22		health care is provided and when SPS receives a bill for that care. ⁵ Therefore, the

⁵ 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 actual amount of active health care expense was not available at the time SPS 2 recorded its per book amount at the end of March 2019. Because SPS needs to 3 close its books before it receives all of those health care claims, it takes the actual 4 amounts recorded through a certain point in the year and estimates the additional 5 amount that will be incurred but not reported by the end of the year, which is the 6 Incurred But Not Reported ("IBNR") reserve. During the following year, SPS 7 receives the actual amounts attributable to care provided in the last part of the 8 prior year, and at that time it trues up the IBNR estimate to the actual incurred 9 expense.

10 Q. Is SPS proposing to make any known and measurable changes to the active
11 health care expense for events occurring after the end of the Test Year?

12 A. Yes. SPS is requesting an increase of \$330,841 for active health care expense.

13 Q. Please discuss the process that SPS undertook to determine the Active Health

14 **Care amounts for 2019.**

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- A. SPS first took the Test Year per book amounts after making the IBNR reserve
 adjustments described above and then applied three known and measurable
 adjustments to arrive at the 2019 active health care amount:
- 18 1. SPS applied a 5.50% increase to the 2018 incurred medical amount, which
- 19 increased costs by \$392,667.
- 202. SPS applied a 12.60% increase to the 2018 incurred pharmacy amount,21which increased costs by \$178,559.
 - 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.
- 25 The three adjustments result in a net increase of \$330,841 to the overall amount.

- Q. What amount of active health care expense is SPS requesting in the cost of
 service?
- A. SPS is requesting approval of \$14,455,628 of active health care expense. Mr.
 Freitas has included that amount of active health care expense in the cost of service.

6 B. <u>Third-Party-Insured Long-Term Disability</u>

- 7 Q. Please describe the third-party-insured LTD costs that SPS incurs.
- 8 A. As explained earlier, SPS offers long-term disability coverage that provides 9 benefits to former or inactive employees after employment but before retirement. 10 The LTD plan provides employees with income protection by paying a portion of 11 an employee's income while he or she is disabled by a covered physical or mental 12 impairment. In a third-party-insured plan, SPS purchases an insurance plan from 13 an outside insurance provider that assumes the risk, and the cost of the third-14 party-insured piece is simply the cost of the insurance premium incurred each 15 year along with any other miscellaneous costs.
- 16 Q. What groups of employees are covered under the third-party-insured
 17 benefit?
- 18 A. As noted earlier, all employees disabled on and after January 1, 2008 are covered19 under the third-party-insured plan.
- 20 Q. What amount of third-party-insured LTD benefit expense is SPS seeking to 21 recover?
- A. SPS is requesting approval of \$609,712 of third-party-insured LTD expense for
 the Test Year. Mr. Freitas has included that amount of third-party-insured LTD
 benefits expense in the cost of service.

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1 C. Life Insurance

2 Q. Please describe the life insurance cost that SPS incurs.

- A. The life insurance category consists of life insurance premiums and offsetting
 employee life insurance withholdings. Life insurance is provided to
 non-bargaining employees at 100% of base pay and to SPS bargaining employees
 at 50% of base pay. Employees also have the option to purchase additional life
 insurance.
- 8 Q. What amount of expense did SPS incur during the Test Year for life
 9 insurance benefits?
- 10 A. SPS is requesting approval of \$152,145 of life insurance expense for the Test
 11 Year. Mr. Freitas has included that amount of life insurance expense in the cost
 12 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 costs17 category are:
- 18 Tuition reimbursement,
- 19 Employee Assistance Program costs,
- Wellness program costs,

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- Costs incurred by the HR Service Center to answer employee retirement or benefit questions,
- Health and welfare plan actuarial and audit fees,
 - Administrative fees for short-term and long-term disability plans, and

- 1 Administrative fees for employee flexible spending and HSAs.
- 2 Q. What amount of expense did SPS incur during the Test Year for
 3 miscellaneous benefits?
- A. SPS incurred \$741,099 of miscellaneous benefit expense for the Test Year. Mr.
 Freitas has included that amount of miscellaneous benefits expense in the cost of
 service.

7 E. <u>Reasonableness of Health and Welfare Costs</u>

8 Q. Are the amounts of SPS's health and welfare expense reasonable?

9 A. Yes. It is appropriate for the cost of service to include these benefits because they
reflect a reasonable and necessary level of expense. As Mr. Knoll explains in
more detail, Xcel Energy's compensation plans and benefits are required for Xcel
Energy and its subsidiaries to attract, retain, and motivate employees needed to
perform the work necessary to provide quality services for SPS customers.
Without these benefits, SPS and XES would have to pay significantly higher
current compensation to attract employees.

1		V. WORKERS' COMPENSATION COSTS
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 an insured program. The only cost to
10		Xcel Energy for this benefit cost is the insurance premium. In a third-party-
11		insured plan, SPS purchases an insurance plan from an outside insurance provider
12		that assumes the risk, and the cost of the third-party-insured piece is simply the
13		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.
19	Q.	What amount of expense is SPS seeking to recover for third-party-insured
20		workers' compensation benefits?
21	A.	SPS is requesting approval of \$811,724 of third-party-insured workers'
22		compensation expense. Mr. Freitas has included that amount of third-party-
23		insured workers' compensation expense in the cost of service.

Q. Is it reasonable for the cost of service to include third-party-insured workers' compensation costs incurred by SPS?

A. Yes. It is appropriate for the cost of service to include these benefits because they
reflect a reasonable and necessary level of expense. Xcel Energy's workers'
compensation plans and benefits are required for Xcel Energy and its subsidiaries
to attract, retain, and motivate employees needed to perform the work necessary
to provide quality services for SPS customers. Without these benefits, SPS and
XES would have to pay significantly higher current compensation to attract
employees.

1		VI. <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.	<u>401(k) Match</u>
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
20		eligible income. The remaining employees, who are in the Traditional Plan,
21		receive a maximum match of \$1,400.
22	Q.	What amount of expense did SPS incur during the Test Year for 401(k)
23		match benefits?

24 A. SPS incurred \$3,105,887 for 401(k) benefits.

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Is SPS proposing to make any known and measurable changes to the 401(k) expense for events occurring after the end of the Test Year?

- A. Yes. SPS is requesting a known and measurable adjustment of \$92,250 for
 4 401(k) benefit expense. Because the 401(k) match is based on the amount that
 5 employees contribute as a percentage of their salary, escalation factors of 3% and
 6 2.8% have been applied to non-bargaining and bargaining employees,
 7 respectively. For justification of the merit increase, please refer to Mr. Knoll's
 8 direct testimony.
- 9 Q. What is the amount of 401(k) Match expense included in the cost of service?
- 10 A. After including the known and measurable adjustment mentioned above, the
 11 401(k) Match expense requested by SPS is \$3,198,137. Mr. Freitas has included
 12 the 401(k) Match expense in the cost of service.
- 13 B. Miscellaneous Retirement-Related Costs
- 14 Q. What costs are included in miscellaneous retirement-related costs?
- A. This category includes costs such as 401(k) plan administration fees,
 compensation consulting and survey costs, retirement plan actuarial and audit
 fees, and a small amount for the deferred compensation plan.
- 18 Q. What amount of expense did SPS incur during the Test Year for
 19 miscellaneous retirement-related costs?
- 20 A. SPS incurred \$239,084 for miscellaneous retirement-related costs. Mr. Freitas
- 21 has included the miscellaneous retirement-related expense in the cost of service.

1 C. <u>Reasonableness of Other Benefit Costs</u>

- 2 Q. Is it reasonable for the cost of service to include the 401(k) match and
 3 miscellaneous retirement-related costs incurred by SPS?
- A. Yes. It is appropriate for the cost of service to include these benefits because they
 reflect a reasonable and necessary level of expense. Xcel Energy's compensation
 plans and benefits are required for Xcel Energy and its subsidiaries to attract,
 retain, and motivate employees needed to perform the work necessary to provide
 quality services for SPS customers. Without these benefits, SPS and XES would
 have to pay significantly higher current compensation to attract employees.

1		VII. <u>PENSION AND OPEB RESERVE ACCOUNT</u>
2	Q.	Does SPS defer pension and OPEB expense amounts that differ from the
3		levels of pension and OPEB amounts included in base rates?
4	A.	Yes. PURA § 36.065(b) allows a utility to establish a reserve account to record
5		the difference between the annual amount of pension and OPEB expense
6		approved in the utility's last general rate case and the annual amount of pension
7		and OPEB expense that the utility actually incurs. If the amount of pension and
8		OPEB expense in the utility's approved rates is greater than the actual expense,
9		the utility will have a surplus in its reserve account. If the amount of pension and
10		OPEB expense in the utility's approved rates is less than the actual expense, the
11		utility will have a shortage in its reserve account.
12	Q	How is the reserve account treated for ratemaking purposes?
13	A.	PURA § 36.065 states that if a reserve account for pension and OPEB expense is
14		established, the Commission:
15		at a subsequent general rate proceeding shall:
16 17		(1) review the amounts recorded to the reserve account to determine whether the amounts are reasonable expenses;
18 19		(2) determine whether the reserve account has a surplus or shortage under Subsection (c); and
20 21 22		(3) subtract any surplus from or add any shortage to the electric utility's rate base with the surplus or shortage amortized over a reasonable time.
23	Q.	Did the Commission establish baselines for the pension and OPEB tracker in
24		SPS's last rate case?
25	A.	Yes. In Docket No. 47527, the parties agreed to a baseline amount of
26		\$13,378,566 (total company) for qualified pension expense, with a Texas retail

 Q. What is the total amount of pension and OPEB costs related to the that SPS is requesting to recover in this case? A. As noted earlier in my testimony, SPS is proposing to amortize the persist of OPEB regulatory liability balance of \$1,574,975 for the Texas retail juents amount is the net of two balances: The first amount represents the unamortized balance of the persist of DPEB amounts deferred from prior cases, which is \$(276,700, March 31, 2019). That amount reflects accruals in excess of the upon baselines set in Docket Nos. 38147, 40824 and 42004. The second amount represents the total deferrals for July 1, 2019. March 31, 2019, which total \$1,851,773. Mr. Freitas has reflected the \$1,574,975 of net deferred pension at expense in the cost of service study he presents. The deferred amount under FERC Account 92603. See Attachment RRS-RR-1 for a summat this amount was calculated. Q. How did SPS calculate the unamortized balance of the pension at amounts deferred from prior cases? A. SPS calculated the unamortized balance of pension and OPEB amount from prior cases by the following steps: In Docket No. 47527, the parties agreed that SPS would be a recover a deferred pension and OPEB expense balance of \$(664) 	1		amount of \$7,830,475. The parties agreed to a OPEB expense baseline of
 that SPS is requesting to recover in this case? A. As noted earlier in my testimony, SPS is proposing to amortize the pe OPEB regulatory liability balance of \$1,574,975 for the Texas retail ju That amount is the net of two balances: The first amount represents the unamortized balance of the pe OPEB amounts deferred from prior cases, which is \$(276,7) March 31, 2019. That amount reflects accruals in excess of th upon baselines set in Docket Nos. 38147, 40824 and 42004. The second amount represents the total deferrals for July 1, 201 March 31, 2019, which total \$1,851,773. Mr. Freitas has reflected the \$1,574,975 of net deferred pension a expense in the cost of service study he presents. The deferred amoun under FERC Account 92603. See Attachment RRS-RR-1 for a summa this amount was calculated. Q. How did SPS calculate the unamortized balance of the pension at amounts deferred from prior cases? A. SPS calculated the unamortized balance of pension and OPEB amount from prior cases by the following steps: In Docket No. 47527, the parties agreed that SPS would be a recover a deferred pension and OPEB expense balance of \$(664) a period of 24 months beginning on February 1, 2018, which 	2		(351,985) (total company), with the Texas retail amount being $(206,017)$. ⁶
 A. As noted earlier in my testimony, SPS is proposing to amortize the period of PEB regulatory liability balance of \$1,574,975 for the Texas retail juents amount is the net of two balances: The first amount represents the unamortized balance of the period of PEB amounts deferred from prior cases, which is \$(276,7 March 31, 2019). That amount reflects accruals in excess of the upon baselines set in Docket Nos. 38147, 40824 and 42004. The second amount represents the total deferrals for July 1, 201 March 31, 2019, which total \$1,851,773. Mr. Freitas has reflected the \$1,574,975 of net deferred pension a expense in the cost of service study he presents. The deferred amount under FERC Account 92603. See Attachment RRS-RR-1 for a summa this amount was calculated. Q. How did SPS calculate the unamortized balance of the pension at amounts deferred from prior cases? A. SPS calculated the unamortized balance of pension and OPEB amount from prior cases by the following steps: In Docket No. 47527, the parties agreed that SPS would be a recover a deferred pension and OPEB expense balance of \$(664 a period of 24 months beginning on February 1, 2018, which 	3	Q.	What is the total amount of pension and OPEB costs related to the tracker
 OPEB regulatory liability balance of \$1,574,975 for the Texas retail ju That amount is the net of two balances: The first amount represents the unamortized balance of the pe OPEB amounts deferred from prior cases, which is \$(276,7) March 31, 2019. That amount reflects accruals in excess of th upon baselines set in Docket Nos. 38147, 40824 and 42004. The second amount represents the total deferrals for July 1, 201 March 31, 2019, which total \$1,851,773. Mr. Freitas has reflected the \$1,574,975 of net deferred pension a expense in the cost of service study he presents. The deferred amoun under FERC Account 92603. See Attachment RRS-RR-1 for a summa this amount was calculated. Q. How did SPS calculate the unamortized balance of the pension at amounts deferred from prior cases? A. SPS calculated the unamortized balance of pension and OPEB amount from prior cases by the following steps: In Docket No. 47527, the parties agreed that SPS would be a recover a deferred pension and OPEB expense balance of \$(664) a period of 24 months beginning on February 1, 2018, which 	4		that SPS is requesting to recover in this case?
 7 That amount is the net of two balances: 8 The first amount represents the unamortized balance of the pe OPEB amounts deferred from prior cases, which is \$(276,7 March 31, 2019. That amount reflects accruals in excess of th upon baselines set in Docket Nos. 38147, 40824 and 42004. 12 The second amount represents the total deferrals for July 1, 201 March 31, 2019, which total \$1,851,773. 14 Mr. Freitas has reflected the \$1,574,975 of net deferred pension a expense in the cost of service study he presents. The deferred amoununder FERC Account 92603. See Attachment RRS-RR-1 for a summa this amount was calculated. 18 Q. How did SPS calculate the unamortized balance of the pension at amounts deferred from prior cases? 20 A. SPS calculated the unamortized balance of pension and OPEB amount from prior cases by the following steps: 21 In Docket No. 47527, the parties agreed that SPS would be a recover a deferred pension and OPEB expense balance of \$(664 a period of 24 months beginning on February 1, 2018, which 	5	A.	As noted earlier in my testimony, SPS is proposing to amortize the pension and
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 9 OPEB amounts deferred from prior cases, which is \$(276,7) March 31, 2019. That amount reflects accruals in excess of th upon baselines set in Docket Nos. 38147, 40824 and 42004. 12 • The second amount represents the total deferrals for July 1, 201 March 31, 2019, which total \$1,851,773. 14 Mr. Freitas has reflected the \$1,574,975 of net deferred pension a expense in the cost of service study he presents. The deferred amount under FERC Account 92603. See Attachment RRS-RR-1 for a summa this amount was calculated. 18 Q. How did SPS calculate the unamortized balance of the pension at amounts deferred from prior cases? 20 A. SPS calculated the unamortized balance of pension and OPEB amount from prior cases by the following steps: 21 In Docket No. 47527, the parties agreed that SPS would be a recover a deferred pension and OPEB expense balance of \$(664 a period of 24 months beginning on February 1, 2018, which 	7		That amount is the net of two balances:
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 expense in the cost of service study he presents. The deferred amount under FERC Account 92603. See Attachment RRS-RR-1 for a summat this amount was calculated. Q. How did SPS calculate the unamortized balance of the pension at amounts deferred from prior cases? A. SPS calculated the unamortized balance of pension and OPEB amount from prior cases by the following steps: In Docket No. 47527, the parties agreed that SPS would be a recover a deferred pension and OPEB expense balance of \$(664 a period of 24 months beginning on February 1, 2018, which 			• The second amount represents the total deferrals for July 1, 2017 through March 31, 2019, which total \$1,851,773.
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 Q. How did SPS calculate the unamortized balance of the pension at amounts deferred from prior cases? A. SPS calculated the unamortized balance of pension and OPEB amount from prior cases by the following steps: In Docket No. 47527, the parties agreed that SPS would be a recover a deferred pension and OPEB expense balance of \$(664 a period of 24 months beginning on February 1, 2018, which 	16		under FERC Account 92603. See Attachment RRS-RR-1 for a summary of how
 amounts deferred from prior cases? A. SPS calculated the unamortized balance of pension and OPEB amount from prior cases by the following steps: In Docket No. 47527, the parties agreed that SPS would be a recover a deferred pension and OPEB expense balance of \$(664) a period of 24 months beginning on February 1, 2018, which 	17		this amount was calculated.
 A. SPS calculated the unamortized balance of pension and OPEB amount from prior cases by the following steps: In Docket No. 47527, the parties agreed that SPS would be a recover a deferred pension and OPEB expense balance of \$(664 a period of 24 months beginning on February 1, 2018, which 	18	Q.	How did SPS calculate the unamortized balance of the pension and OPEB
 from prior cases by the following steps: In Docket No. 47527, the parties agreed that SPS would be a recover a deferred pension and OPEB expense balance of \$(664 a period of 24 months beginning on February 1, 2018, which 	19		amounts deferred from prior cases?
 In Docket No. 47527, the parties agreed that SPS would be a recover a deferred pension and OPEB expense balance of \$(664 a period of 24 months beginning on February 1, 2018, which 	20	A.	SPS calculated the unamortized balance of pension and OPEB amounts deferred
23recover a deferred pension and OPEB expense balance of \$(66424a period of 24 months beginning on February 1, 2018, which	21		from prior cases by the following steps:
	23 24		• In Docket No. 47527, the parties agreed that SPS would be allowed to recover a deferred pension and OPEB expense balance of \$(664,316) over a period of 24 months beginning on February 1, 2018, which yields a monthly amount of \$76,730. (\$(664,316) / 24 = \$(27,680)).

⁶ Docket No. 45524, *Application of Southwestern Public Service Company for Authority to Change Rates,* Unopposed Stipulation at 6 and Attachment D.

1 2		• As of March 31, 2019, ten months worth of amortized costs will remain unrecovered.
3 4 5		• Multiplying 10 months by \$(27,679.83) per month equals an unamortized balance of \$(276,798). The calculation appears on my Attachment RRS-RR-5.
6	Q.	How did SPS calculate the deferral amount to be amortized?
7	A.	For the period from July 1, 2017 through January 22, 2018, SPS compared the
8		actual amounts of pension and OPEB expense to the baseline expense amounts set
9		in Docket No. 45524. For the period from January 23, 2018 to March 31, 2019,
10		SPS compared the actual amounts of pension and OPEB expense to the baseline
11		amounts established in Docket No. 47527.
12	Q.	What is the total of the deferral amounts that SPS is asking to recover?
13	A.	The table below shows the unamortized amounts for prior periods and the amount
14		of deferrals requested in this case:

15

Table RRS-RR-2

Pension and OPEB Deferrals	
Pension and OPEB expense deferred from prior cases	\$(276,798)
Pension and OPEB expense deferred from July 1, 2017	
to March 31, 2019	<u>1,851,773</u>
Total Net Pension and OPEB Deferrals	1,574,975

16 Q. How does SPS propose to treat the amount in the reserve account?

A. SPS proposes to amortize the accrued amount over a one-year period and to
reimburse the full amount to customers over that period. I have supplied the
accrued balance excess amount to Mr. Freitas, and he has reflected it in the cost of
service calculation.

1Q.Are the amounts of pension and OPEB expense recorded in the reserve2account reasonable?

A. Yes. The pension and OPEB expense amounts are reasonable for the reasons
discussed earlier in connection with the forward-looking pension and OPEB
expense. SPS's pension plans are administered prudently and in accordance with
GAAP, and the amounts contributed are consistent with the actuarial projections
that are based on third-party projections and assumptions.

1		VIII. <u>SPS'S PREPAID PENSION ASSET</u>
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 Docket No. 43695, the Commission approved SPS's
7		request to include the prepaid pension asset in rate base and to earn a return on
8		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-RR-3 shows how the excess of
19		cash contributions each year creates a cumulative prepaid pension asset:

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

Table RRS-RR-3 (amounts in millions)

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:

5

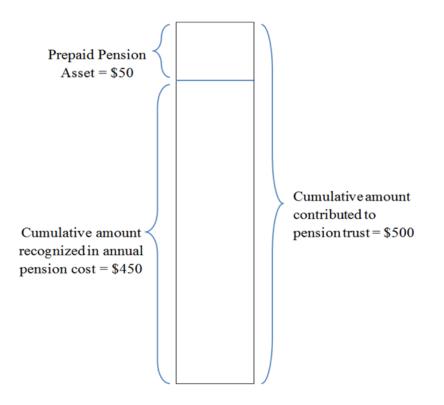


Figure RRS-RR-1

1

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

- A. 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.
- 9 Q. Can the utility withdraw the prepaid pension asset and use it to fund capital
 10 requirements or to pay for O&M expense?
- A. No. Federal law prohibits the withdrawal of any amounts from the pension trust
 fund except for the payment of benefits and plan expenses. After the
 contributions are made, they are essentially locked away.

14 Q. Does SPS currently have a prepaid pension asset?

- A. Yes. The thirteen-month average of the net prepaid pension asset balance as of
 March 31, 2019 was \$153,177,668.⁷
- 17 Q. Is SPS seeking to include that prepaid pension asset in rate base?
- 18 A. Yes. SPS is requesting Commission approval to include the prepaid pension asset
- 19 in rate base and to earn a return on that portion of the rate base at the WACC that
- 20 SPS has proposed in this case, which is 7.68%.

 $^{^{7}}$ The net prepaid pension asset that appears in the cost of service is \$153,177,668. That is the net of the prepaid qualified pension asset of \$153,633,570 and the non-qualified pension unfunded liability of \$455,903.

Q. Do you recommend that the Commission include the prepaid pension asset in rate base?

3 A. Yes. The standard ratemaking practice is for prepayments to earn a return at the 4 utility's WACC. For example, Texas retail customers effectively earn a return on 5 the Accumulated Deferred Income Tax ("ADIT") balance included in the cost of 6 service at SPS's WACC because that ADIT balance is removed from rate base, 7 meaning customers are not paying a return on the portion of rate base equal to the 8 ADIT balance. Moreover, it is reasonable and equitable to include the prepaid 9 pension asset in rate base and for SPS to earn a return on it because customers are 10 also earning a return on the prepaid pension asset.

11 Q. Please explain what you mean when you state that customers are also earning 12 a return on the prepaid pension asset.

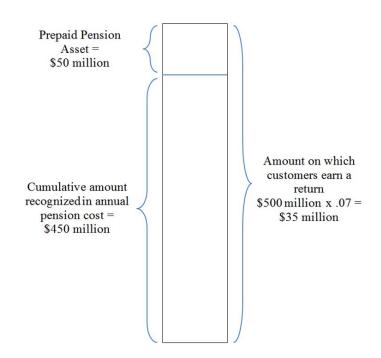
13 A. As I explained in a prior section of my testimony, one of the components of the 14 annual pension expense calculation is the return that the pension trusts are 15 expected to earn on the assets in the trust. Suppose, for example, that a pension 16 trust has assets of \$500 million and is expected to earn a return of 7% in the 17 current year. Under those assumptions, \$35 million would be included in the 18 annual pension cost calculation as the EROA. As I explained in a prior section, 19 the EROA is subtracted from the service cost and other elements of the annual 20 pension cost. Therefore, in this example, the return on the pension trusts would 21 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-RR-2, 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.

6

Figure RRS-RR-2⁸



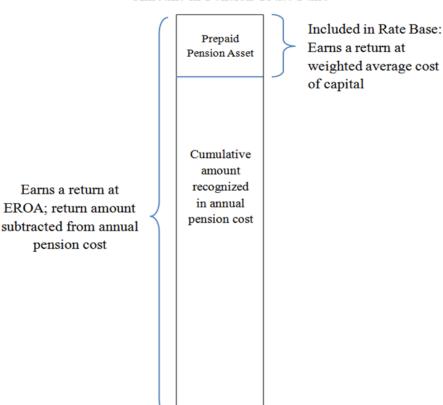
7		That means all of the assets in the pension trust, including the assets that comprise
8		the prepaid pension asset, are used and useful to SPS's Texas retail customers.
9	Q.	Does the fact that customers are receiving a return on the prepaid pension
10		asset portion of the trust funds justify including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

 8 The amounts in this figure are just examples that have been simplified for ease of understanding.

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.

6

Figure RRS-RR-3



Amount in Pension Trust Fund

7 Thus, if customers receive the benefit of the earnings on the prepaid pension 8 asset, it is appropriate for SPS to receive a return on the prepaid pension asset 9 portion of rate base. Conversely, if SPS does not receive a return on the prepaid 10 pension asset portion of rate base, customers should not receive the benefit of the 11 earnings on the prepaid pension asset.

- 1Q.Please turn now from the hypothetical examples you have been discussing to2SPS's actual prepaid pension asset. How much are SPS's Texas retail3customers saving in annual pension cost as a result of the prepaid pension4asset?
- A. As Table RRS-RR-4 shows, SPS's customers are saving \$10,410,771 in annual
 pension costs as a result of the prepaid pension asset.
- 7

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	\$27,003,044	6.90%	\$1,863,210
SPS Bargaining	3/31/2018 to 3/31/2019	\$126,630,526	6.75%	\$8,547,561
Total		\$153,633,570		\$10,410,771

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

9	A.	SPS is requesting that the prepaid pension asset of \$153,633,570 be included in
10		rate base to provide a corresponding return to shareholders. Otherwise, the
11		qualified prepaid pension asset is solely generating a return for customers through
12		lower pension expense. The prepaid pension asset represents assets that are
13		delivering a direct benefit to customers because the investment income on those
14		assets lowers the pension expense under FAS 87. It is therefore appropriate to
15		include the prepaid pension asset in rate base. The calculation to support the
16		prepaid pension asset thirteen-month average can be found in my Attachment
17		RRS-RR-6, and the cumulative qualified prepaid pension asset balance since the
18		adoption of FAS 87 can be found in my Attachment RRS-RR-7.

Schrubbe Direct – Revenue Requirement

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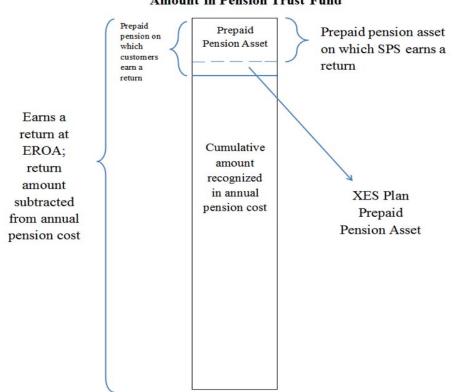
- Q. Is SPS's requested WACC on the prepaid pension asset in this case higher
 than the EROA on the prepaid pension asset?
- A. Yes. In this case, SPS's requested WACC is 7.68% and the weighted average of
 the 2019 forecasted EROA for the SPS Bargaining Plan and the New Century
 Energies ("NCE")⁹ Non-Bargaining Plan 2019 is 6.78%.¹⁰
- Q. Why should SPS be allowed a return on the prepaid pension asset based on
 the WACC if the ratepayers are only receiving a reduction in cost based on
 the lower EROA on the prepaid pension asset?
- 9 First, although the simplified example in Figure A. There are two reasons. 10 RRS-RR-3 shows an equivalent prepaid pension asset balance on which 11 customers and the utility are earning a return, the amounts are not equal insofar as 12 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 13 14 XES Plan. All three of those plans have prepaid pension assets, and customers 15 earn a return on all three plans. However, SPS does not include the XES Plan 16 portion of the prepaid pension asset in rate base because that asset belongs to 17 XES, not to SPS. Therefore, SPS's customers are receiving a return on the XES 18 Plan portion of the prepaid pension asset, but they do not pay a return on that 19 asset. To reflect SPS's actual circumstances, it is necessary to modify the figure
 - $^9\,$ NCE refers to New Century Energies, Inc., which merged with Northern States Power Company in 2000 to create Xcel Energy.

¹⁰ 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%.

as reflected in Figure RRS-RR-4 to show the actual amount on which SPS earns a
 return as part of rate base:

3

Figure RRS-RR-4



Amount in Pension Trust Fund

4 As this figure shows, customers earn a return on a larger prepaid pension asset 5 balance than SPS does. 6 Q. What was SPS's portion of the 13-month average of the XES Plan prepaid 7 pension asset as of March 31, 2019? 8 A. The Texas retail portion of the 13-month average XES Plan prepaid pension asset 9 was approximately \$17.0 million as of March 31, 2019. With an EROA of 7.10% 10 for the XES Plan, SPS's Texas customers receive \$1.2 million of return on an 11 asset on which they pay no return. That reduces annual pension expense by an 12 equal amount.

1

Q. Does the prepaid pension asset benefit customers in any other way?

A. Yes. The contributions that helped create the prepaid pension asset allow the
Company to avoid incurring Pension Benefit Guaranty Corporation ("PBGC")
premiums that would otherwise be included within the annual pension cost
charged to customers.

6 Q. Please explain what the PBGC is.

A. The PBGC is a federal agency established by Congress as part of ERISA to insure
pension benefits under private sector defined benefit pension plans. If a pension
plan is terminated without sufficient money to pay all benefits, PBGC's insurance
program will pay employees the benefits promised under the pension plan, up to
the limits set by law. The funding for the PBGC comes partly from premiums
charged to pension sponsors and partly from returns on assets held by the PBGC.

13 Q. What types of premiums does the PBGC charge?

A. The PBGC charges two types of premiums: (1) a per capita premium that is
charged to all single-employer defined-benefit plans, and (2) a variable premium
charged to underfunded plans. The amounts of the premiums are set by Congress
and must be paid by sponsors of defined-benefit plans, such as Public Service.

18 Q. What are the variable-rate premiums applicable to underfunded plans?

- A. For 2018, the PBGC variable-rate premium for a single-employer plan such as
 that of SPS was \$38 per \$1,000 of unfunded vested benefit.
- Q. Do SPS and its customers avoid the payment of PBGC premiums because of
 the contributions that helped create the prepaid pension asset?
- A. Yes. Texas customers received the benefit of reduced PBGC premiums in the
 Test Year, and SPS projects that it will have additional PBGC savings in the

future. The PBGC premiums would have been \$1.6 million higher in 2018 in the
 absence of the prepaid pension asset. This additional cost would be passed on to
 customers as increased qualified pension expense.

- 4 Q. Can you demonstrate mathematically that SPS's customers are better off as
 5 a result of the prepaid pension asset?
- 6 A. Yes. Multiplying the SPS prepaid pension asset of \$153,633,570 by the 7.68% percent WACC requested by SPS results in a return to SPS of \$11,799,058 on the 7 prepaid pension asset. Table RRS-RR-7, however, shows that Texas customers 8 9 receive \$11,617,907 of benefit as a result of the return on the prepaid pension 10 assets (which includes the XES Plan portion of the prepaid asset), and they avoid 11 paying \$1,568,032 in PBGC premiums as a result of the prepaid pension asset. 12 Thus, even with the SPS prepaid pension asset included in rate base and earning a 13 return at the WACC, SPS's customers realize a net benefit of \$1.4 million as a 14 result of the prepaid pension asset.
- 15

Table RRS-RR-7

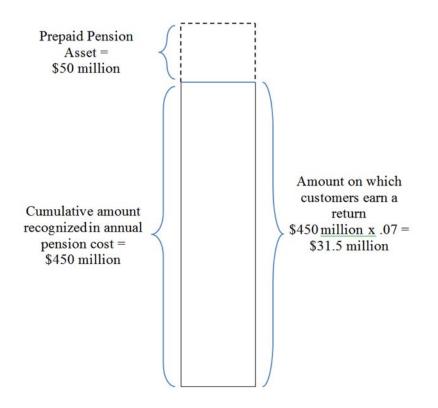
SPS Prepaid pension asset balance (excluding the XES prepaid pension asset)		\$153,633,570	
Weighted average EROA for SPS Bargaining and NCE Non-Bargaining plans	х	6.776%	
Initial return benefit to customers	=		\$10,410,771
Balance of XES prepaid pension asset		\$17,001,917	
EROA for XES prepaid pension asset	Х	7.10%	
Return on XES prepaid pension asset	=		\$1,207,136
Avoided PBGC Premiums			\$1,568,032
Total Pension Benefit			\$13,185,939
Return on prepaid pension asset at WACC	-		<u>\$11,799,058</u>
Net benefit to SPS customers from prepaid pension asset	=		\$1,386,881

1Q.Thus far you have been discussing the justification of including the SPS2prepaid pension asset in rate base. Is including the SPS prepaid pension3asset in rate base the only way of dealing with the prepaid pension asset4issue?

5 A. No. Another solution would be to exclude the earnings on the assets represented 6 by the SPS prepaid pension asset from the calculation of annual pension cost for 7 regulatory purposes. The basic point is that customers should not be earning a 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-RR-5 (on the next page):¹¹ 15

¹¹ The ADIT, FAS 106, and FAS 112 balances would have to be adjusted as well.





Q. Do you recommend that the Commission exclude the return on the SPS
 prepaid pension asset from rate base and from the calculation of annual
 pension cost?

A. No. As I explained earlier, SPS's customers are actually better off as a result of
the prepaid pension asset because they receive a return on the Texas retail portion
of the XES prepaid pension asset but do not pay a return on it because that
prepaid pension asset is not included in the amount requested in rates. In
addition, the customers receive a benefit from the avoidance of incremental
PBGC premiums as a result of the prepaid pension asset. When all of those

¹² 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-RR-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.

- factors are considered, SPS's customers are better off if the prepaid pension asset
 is included in both rate base and the calculation of annual pension cost, even after
 the return on the prepaid pension asset is grossed up for taxes.
- 4 Q. How would it affect SPS's annual pension cost if the earnings on the pension
 5 trust assets were excluded from the cost of service?
- A. SPS's annual pension cost would increase by more than \$10.4 million if the
 earnings on the SPS pension trust assets were excluded from the cost of service.
 Because pension costs are passed through to customers on a dollar-for-dollar
 basis, SPS's revenue requirement would increase by the same amount.
- 10 Q. Does this conclude your pre-filed direct testimony?
- 11 A. Yes.

AFFIDAVIT

STATE OF MINNESOTA	
COUNTY OF HENNEPIN	

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

)))

I am the witness identified in the preceding testimony. I have read the testimony and the accompanying attachment(s) and am familiar with the 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 6 day of August, 2019 by RICHARD R. SCHRUBBE.



Motary Public, State of Minnesota

My Commission Expires: 1/31/2023

Schrubbe Direct – Revenue Requirement

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Southwestern Public Service Company

Calculation of Deferred Pension and OPEB Balances

		errals from 7/1/2017 - 3/3	51/19
	Current Year	Prior Year Deferral	
Jul 2017	Deferrals \$ (107,688)	True-ups	Total \$ (107,688)
Aug 2017	(107,688)		(107,688)
Sept 2017	(107,688)		(107,688)
Oct 2017	(107,688		(107,688)
Nov 2017	(107,688)		(107,688)
Dec 2017	1,413,894	, -	1,413,894
Jan 2018	(176,847) 9,066	(167,782)
Feb 2018	(176,847)		(176,847)
Mar 2018	(176,847)		(399,489)
	(176,847)		
Apr 2018	(176,847)		(176,847)
May 2018			(176,847)
Jun 2018	(176,847)		(176,847)
Jul 2018	(176,847)		(176,847)
Aug 2018	(176,847)) –	(176,847)
Sept 2018	898,635	-	898,635
Oct 2018	(176,847)		(176,847)
Nov 2018	(176,847)		(176,847)
Dec 2018	607,603	1,945,320	2,552,923
Jan 2019	(152,757)		(152,757)
Feb 2019	(152,757)		(152,757)
Mar 2019	(152,757)		(187,677)
	\$ 154,949	\$ 1,696,824	\$ 1,851,773
			Amortization
Amount to be amortized			\$ (664,316)
Jul 2017			\$ (76,730)
Aug 2017			(76,730)
Sept 2017			(76,730)
Oct 2017			(76,730)
Nov 2017			(76,730)
Dec 2017			(76,730)
Jan 2018			(76,730)
Feb 2018			(76,730)
Mar 2018			(76,730)
Apr 2018			(76,730)
May 2018			(76,730)
Jun 2018			(76,730)
Jul 2018			(76,730)
Aug 2018			(70,750)
Sept 2018			-
Oct 2018			-
			-
Nov 2018 Dec 2018			1 201 071
LIPE ZULA			1,301,971
Jan 2019			27,680
Jan 2019 Feb 2019			27,680
Jan 2019 Feb 2019 Mar 2019	2/21/10		27,680 27,680
Jan 2019 Feb 2019	3/31/19		27,680

Notes:

Per Docket No. 45524 the pension and OPEB tracker balance was set at \$(664,316) as of June 30, 2017. This is the balance that will be amortized over a 24-month period starting February 1, 2018. If the entire amount has not been amortized at the time the rates set in SPS's next base rate go into effect, the Docket No. 47527 Stipulation [Section 2(E)(i)] provides that the remaining unamortized amount can be included in a subsequent base rate case and is deemed reasonable and necessary.

Unamortized Balance - May 31, 2017	\$ (664,316)
14 Months of Amortization (Feb-Mar)	387,518
Unamortized Balance - June 30, 2017	\$ (276,798)

May 18, 2018

Mr. Richard R. Schrubbe AVP, Financial Analysis & Planning Xcel Energy Inc. 401 Nicollet Mall 3rd 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	Ba	SPS rgaining Plan	Bar	PSCo gaining Plan
Effective Interest Rate		5.52%	e eller (5.44%	(5.68%		5.65%
Contributions for the 2018 Plan Year (as	of Janu	ary 1, 201	8)					
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

Suite 1700 8400 Normandale Lake Boulevard Minneapolis, MN 55437

T +1 952 842 7000 F +1 952 842 7001 W willistowerswatson.com

Towers Watson Delaware Inc.

http://natcl.internal.towerswatson.com/clients/609084A/XceIRETActuarial-2018/Documents/Projections/May/L_05182018_Schrubbe_2018_Cost_Funding.docx

Page 1 of 11

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	nimum Funding and Benefit Restrictions - 18 in 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) ¹	102.7%	93.4%	111.7%	100.5%

¹ 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)	l Energy sion Plan	Nonba	ICE Irgaining Plan	Ba	SPS Irgaining Plan	PSCo rgaining 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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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:

	10 FTAP – 2018 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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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 ¹	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

¹ 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%
 SPS Bargaining Pension Plan 	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 ¹	3.75%
Initial Medical Trend:	
Pre-Medicare	7.00%
Post-Medicare	5.50%
Ultimate Medical Trend	4.50%
Year Ultimate Trend is Reached	2023

¹ 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	the state of the s		
	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:

			Yea	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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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

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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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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,

Much appliched Ren H. A.L. Kentff Denobusher

Mark A. Afdahl, FSA, EA Director, Retirement

Ross H. Athman, FSA, EA 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. Garrett Mikrut — Xcel Energy Inc. Jill Reed — Xcel Energy Inc. Debbie Robin — Xcel Energy Inc. Jeff Savage — Xcel Energy Inc. Brian Van Abel — Xcel Energy Inc. Greg Zick — Xcel Energy Inc.
- or, Retirement Director, Retirement Inc. Mark Bilderback — Willis Towers Watson Beth Fernandez — Willis Towers Watson Scott Lund — 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

Kristoff M. Hendrickson, FSA, EA

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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	80%	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%	85%	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%	86%	%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%	92%
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 plan provisions

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assigned to the prior plan year

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			XCEL E	ENERGY INC (Cost by L (\$ in Th	XCEL ENERGY INC Qualified Pension Plans Cost by Legal Entity (\$ in Thousands)	n Plans					EXHIBIT I Page 1 of 6
			Amortizations	ations							
2018	Service Cost Interest Cost	Expected Return ost on Assets	Prior Service Cost	Net (Gain)/Loss	Net Cost	Settlement Charge ¹	Aggregate Cost Compensation Method	Aggregate Cost 20-year Amortization Method	January 1 Prepaid (Accrued)	Contribution	PBO
Xcel Energy Pension Plan (XEPP) Discontinued Operations ²				3,615	1,812	ï	N/A	N/A	35,418	4,864	78,815
Xcel Energy Nuclear NSP - MN		38 (6,200) 79 (51 967)		1,129	4,737 38 585	i i	3,574 30,801		e	6,524 56,623	107,357
IN- ASN	4,777 5,442		(00)	5,673	6,837	Ĩ	N/A		242,400 48,153	9,597	156,748
Xcel Services ³ XEDC (former EMI)		U		17,078	23,352	6.5	NIA			42,356	690,963
Total XEPP	55,554 67,187	87 (111,126)	(1,129)	64,826	75,312		34,465		504,566	120,000	1,962,249
NCE Non-Bargaining Pension Plan Discontinued Operations - Cheyenne PSCo SPS	- 133 4,297 6,958 2.656 3.045	33 (218) 58 (11,341) 45 (4.957)	(165) (137)	177 4,403 3.386	92 4,152 3 003	111	N/A N/A	N/A N/A	1,675 18,891 27,500	137 6,830 3.033	3,931 206,586 64 054
Total NCE	953			7,966	8,237	ĩ	AIN			10,000	301,568
SPS Bargaining Plan SPS Total SPS	7,062 15,365 7,062 15,365	65 (23,370) 65 (23,370)		10,682 10,682	9,739 9,739	r a	NIA	N/A N/A	125,403 125,403	5,000	424,828 424,828
PSCo Bargaining Plan Discontinued Operations - Cheyenne PSCo	- 404 24,788 40,296) (3,212)	469 26,855	302 31,548		N/A N/A			150 14,850	11,411 1,127,594
Total PSCo	24,788 40,700	00 (57,750)) (3,212)	27,324	31,850	ï	N/A	NIA		15,000	1,139,005
Total Xcel Energy	94,357 133,388	88 (208,762)	(4,643)	110,798	125,138	×	34,465	29,334	943,897	150,000	3,827,650
¹ 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. ² Includes NRG, MIG, Natro Gas, Utility Engineering, Seren, Quixx, Crockett and QPS ³ Includes Eloigne	benefit payments exceed the neering, Seren, Quixx, Crock	e sum of service co ett and QPS	ost and interest o	un a plan by plan	basis. No settler	nents have been	estimated at this tim	ai			
Assumptions Assumptions XEPP NCE Second PSContributions already momal cost Second PSContributions already metal cost Salary Scale Salary Scale Second PSC Salary Scale Second Salary Scale Scond Salary Scale Scond Salary Scale Scond Salary Scale Scond Salary Scale Scond Salary Scale Scond Salary Scale Scond Salary Scale Scond Salary Scale Scond Salary Scale Scond	3.60% 3.52% 3.71% 3.71% 7.10% 6.90% 6.50% 6.50% 6.50% 6.50% 8.50% 8.50% 8.2014 White Collar proj RP-2014 White Collar proj RP-2014 White Collar proj ance with the January 2, 2011	60% 52% 53% 11% 16% 16% 16% 10% 50% 50% 50% 50% 50% 50% 50% 50% 50% 5	onal mortality in Xcel Energy mo ons. trives provided b	provements usin ritality study, pro	ig an adjusted SC lected with gener	A MP-2016 met	odology nprovements using a	60% 52% 11% 10% 10% 10% 10% 10% 10% 10% 10% 10	016 methodology		

Attachment RRS-RR-2 Page 13 of 16 2019 TX Rate Case

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nay be require. śing, Natrogas age)				XCE	XCEL ENERGY INC Nonqualified Pension Plans Cost by Legal Entity (\$ in Thousands)	/ INC Nonqualified Pension Cost by Legal Entity (\$ in Thousands)	Plans			EXHIBIT II Page 1 of 6
Service Cost Expected Return of Assets Prior Service Cost Net (Sam)(Loss Net (Sam)(Loss					Amortiz	ations				
C Operations ² - 27 - - (51) - (24) (1,320) 25 145 - - 146 - 134 (565) 7 20 - - 145 - 58 (563) 17 20 - - 145 - 58 (563) 17 20 - - 145 - 58 (563) 21 21 145 - - 133 - 212 (455) 21 58 60 613 - - 133 - 212 (455) set Mill - - - 133 - 212 (455) 3. set Station - - - 133 - 237 (147, 553) 3. set Station - - - - - - 3. 3. set Station - - - - - - 3. 3. set Station - - - - - - 3. 3. set Station - - - - - -	2018	Service Cost	Interest Cost	Expected Return on Assets	Prior Service Cost	Net (Gain)/Loss	Settlement Charge ¹		January 1 Prepaid (Accrued)	Expected Benefit Payments
Nuclear 33 25 14 25 14 55 134 (565) 7 20 145 - - 14 - 555 (563) 8 17 20 - - 16 - 555 (563) 8 21 11 - - 16 - 53 (453) 8 21 58 - 133 - 53 (453) 3, 8 800 813 - - 133 - 237 1(332) - 3, er EMI) - - - 1,300 - - 3, - - 3, er EMI) -	Discontinued Operations ²		27	1	3	(51	-	(24)	(1,320)	92
$ \begin{array}{ccccccc} 25 & 145 & - & 415 & - & 585 & (563) \\ 17 & 20 & - & 16 & - & 53 & (43) \\ 21 & 20 & - & 111 & - & - & 53 & (43) \\ 21 & 58 & - & 53 & - & 53 & (43) \\ 21 & - & - & - & - & 133 & - & - & - & - & - & - & - & - & - &$	Xcel Energy Nuclear	693	25	5	9	16	,	134	(565)	32
$ \begin{array}{cccccc} & 17 & 20 & - & - & 16 & - & 53 & (453) \\ & 42 & 111 & - & - & - & 382 & - & 505 & (21) \\ & 21 & 21 & (455) & - & - & - & 133 & - & 212 & (14,355) \\ & - & - & - & - & - & - & - & - & - &$	NSP - MN	25	145	1	•	415	1	585	(568)	791
42 111 - - 322 - 505 (21) ar E(M) - - 133 - 212 (495) 3 ar E(M) - - 133 - 212 (495) 3 ar E(M) - - 1032 - 212 (495) 3 ergy 998 1,199 - - 1,032 - 2,37 (14,355) 3 ergy 998 1,199 - - 227 1,910 - 4,334 (17,653) 4 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. - 4,344 (17,653) - 4 RG, SMG, Viking, Natrogas, Quixx, Seren and UE 3,495 (17,653) - 4,334 (17,653) - after an ergin 3,495 1,510 - - 4,344 (17,653) - after an ergin 3,495 1,510 - - - - - - - - -	NSP - WI	17	20	ī	x	16	•	53	(459)	59
st 21 58 2 133 2 232 (495) st EM) - - 237 1032 - 237 (1435) et EM) - - 237 1032 - 237 (1435) et EM) - - 237 1032 - - (3) et SM - - - 237 (17,853) - et SMG, Viking, Natrogas, Quixx, Seren and UE - - 227 1,910 - - - - 4 RG, SMG, Viking, Natrogas, Quixx, Seren and UE - - 227 1,910 - - - - 4 RG, SMG, Viking, Natrogas, Quixx, Seren and UE - - 227 1,910 - - - - - 4 RG, SMG, Viking, Natrogas, Quixx, Seren and UE -	PSCo ³	42	111	ï	•	352		505	(21)	435
s5 ⁴ 800 813 - 227 1,032 - 2872 (14,385) er E(M) -	SPS	21	58	Ĩ	3	133		212	(495)	235
er EMI)	Xcel Services ⁴	800	813		227	1,032	1	2,872	(14,395)	3,245
letgy 988 1,199 227 1,910 4,334 (17,853) 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. 4,334 (17,853) RG, Micro, Viking, Natrogas, Quixx, Seren and UE 0 4,334 (17,853) RG, BMG, Viking, Natrogas, Quixx, Seren and UE 3,49% 1 1 I te action 3,49% 3,75% 1 1	XEPC (former EMI)			a.		(3	-	(3)	(30)	1
: accounting may be require. RG, BMG, Viking, Natrogas ort St. Vrain loigne loigne te	Total Xcel Energy	866	1,199		227	1,910		4,334	(17,853)	4,889
	Assumptions Discount Rate Salary Scale (career average)	3.49% 3.75%								
Assumed Mortality I able KF-2014 White Collar, as aquisted tor 2014 Xcel Energy mortality study, projected with generational mortality improvements using an adjusted SOA MF-2016 methodology	Salary Scale (career average) Assumed Mortality Table	3.75% RP-2014 White Collar,	as adjusted for 2014	Xcel Energy mortality	study, projected with (generational mortali	y improvements using a	n adjusted SOA MP-2	:016 methodology	
	See May 18, 2018 letter for addition	nal information on data, ass	umptions, methods ar	nd plan provisions.						
See May 18, 2018 letter for additional information on data, assumptions, methods and plan provisions.										
See May 16, 2018 letter for additional information on data, assumptions, methods and plan provisions.										
See May 16, 2018 letter for additional information on data, assumptions, methods and plan provisions.										
See May 16, 2018 letter for additional information on data, assumptions, methods and plan provisions.										
See May 18, 2018 letter for additional information on data, assumptions, methods and plan provisions.										
See May 16, 2018 letter for additional information on data, assumptions, methods and plan provisions.										
See May 18, 2018 letter for additional information on data, assumptions, methods and plan provisions.										

5/18/2018 http://natct.internal.towerswatson.com/clients/609084AX/celRETActuariat-2018/Documents/Projections/May/Projections - 05182018 to Xcelx/isx: Nonqualified

Attachment RRS-RR-2 Page 14 of 16 2019 TX Rate Case

			XCEL ENER U.S. GAAI	XCEL ENERGY INC Postretirement Benefits U.S. GAAP Cost Estimates by Legal Entity (\$ in Thousands)	ment Benefits Legal Entity				EXHIBIT III Page 1 of 6
				Amortizations	SU				
2018	Service Cost	Interest Cost	Expected Return on Assets	Prior Service Cost	Net (Gain)/Loss	Net Cost	January 1 Prepaid (Accrued)	Contribution	
Discontinued Operations ¹	E	308	(66)	(104)	162	267	(4,618)	721	
Xcel Energy Nuclear	19	34		49	(11)	91	(731)	16	
NSP - MN ²	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	а	
SPS ³	1,118	1,641	(2,460)	(404)	(453)	(558)	(13,779)		
Xcel Services ³	62	1,077	(44)	(557)	989	1,527	(13,142)	1,654	
XEPC (former EMI)		۲	•	-	(2)	(3)	(120)	9	
Total Xcel Energy	1,996	21,663	(25,747)	(10,629)	7,711	(5,006)	(57,020)	11,659	
¹ Includes NRG, BMG, Viking, Natrogas, Cheyenne, ² Includes Eloiane and Seren.	latrogas, Cheyenne, Quixx	Quixx and UE.							
³ Includes Executive Life Insurance benefits.	nce benefits.								
Assumptions Discount Rate	3.62%								
Expected Return on Assets	5.80%								
Medical Trend	Pre-65	Post-65							
Initial (2018)	7.00%	5.50%							
Ultimate	4.50%	4.50%							
Year Ultimate Reached	2023	2023							
Assumed Mortality Table									
Bargaining:	KPH-2014 Blue Collar her	headcount-weighted	table adjusted for Xce	el Energy mortality stud	iy, projected with gen	erational mortality	KPT-2014 bits addrount-weighted table adjusted for Xcel Energy montality study, projected with generational montality improvements using an adjusted SOA	adjusted SOA	
Non-bargaining:	RPH-2014 White Collar	y. r headcount-weights	ed table adjusted for Xr	el Energy mortality str	idv projected with de	nerational mortali	otolay. Collar hadronint-weichtied fable adiusted för Ycel Energy modality stridy innigerted with nenerational modality innovvements using an adiusted SOA	n adireted SOA	
	MP-2016 methodology.	IV.			ימן, היטכינים אונו פר				
Contributions for PSCo and SPS are assumed equal to the tost, but not less than zero. Contributions for other legal entities are assumed equal to the expected benefit payments. See May 18, 2018 letter for additional information on data, assumptions, methods and plan provisions.	S are assumed equal to th litional information on data	ne net cost, but not l a, assumptions, met	less than zero. Contribution the back of t	utions for other legal e ns.	ntities are assumed e	qual to the expect	ted benefit payments.		

5/18/2018 http://ratic.internal.towerswatson.com/cilents/609084AXcelRETActuarfat-2018/Documents/Projections/May/Projections - 05182018 to Xcelxisx, PRW

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3	Bene	Benefit Cost Estimates by Legal Entity (\$ in Thousands)	ates by Legal usands)	Entity			
Fiscal Year Ending	<u>2017</u> Actual	2018 Actual	2019 Budget	<u>2020</u> Budget	2021 Budget	2022 Budget	2023 Budget
Discount Rate- Workers' Compensation	3.96%	3.51%	3.51%	3.51%	3.51%	3.51%	3.51%
<u>Former NSP - Workers' Compensation</u> ' MNVSD MI/WI	509 12	339 (53)	291 4	272 4	253 4	236 4	221 3
Subtotal	521	286	295	276	257	240	224
<u>Former NCE - Workers' Compensation</u> ¹ Colorado - PSCo	162	555	58	55	54	51	49
Deductible States - Workers' Compensation Deductible States - SPS (KS, OK, NM, and TX)	ì	(3)	J	э	ï	x	ä
Total Xcel Energy Workers' Compensation	683	838	353	331	311	291	273
Discount Rate - LTD Income	3.96%	3.51%	3.51%	3.51%	3.51%	3.51%	3.51%
<u>LTD Income</u> Discontinued Operations - Cheyenne	14	(21)	8	8	ы	۲	N
Discontinued Operations ²	78	89	19	18	17	. 16	14
NSP-MN NSP-MI	120	(22)	214 43	202	191	179	168
PSCo	26	(117)	41	31	25	19	15
SPS Lititity Encineering	78		19	4	9 7	~ +	4
Xcel Services Xcel Services	.17	91	- O	7	- Q	- 4	4
	0	s		•	1	ı	1
Total Xcel Energy LTD Income	549	(245)	348	318	290	264	241
Total Xcel Energy U.S. GAAP	1,232	593	701	649	601	555	514

Xcel Energy Inc. - LTD and Workers' Compensation

Exhibit VI

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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.

² Includes NRG, BMG, Viking and Natrogas.

r

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

5/18/2018 http://natct.internal.towerswatson.com/clients/509084A/XcelRETActuarial-2018/Documents/Projections/May/Projections - 05182018 to XcelXIsXASC 712 Cost

WillisTowers Watson III"IIII

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 ¹
Qualified Pension Plans ²	\$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 ³	\$90.7	\$0.0	\$0.0
Discount Rate	3.49%-3.71%	3.49%-3.71%	4.25%-4.37%

¹ Workers Compensation and Long-Term Disability costs are preliminary, final results will be provided in May.

² 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.
³ 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 settlements have been estimated for 2019 or beyond at this time.

Suite 1700 8400 Normandale Lake Boulevard Minneapolis, MN 55437

T +1 952 842 7000 F +1 952 842 7001 W willistowerswatson.com

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WillisTowersWatson III"III

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 ¹	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 ²	6.3	(0.7)	(1.4)	0.0	0.0	4.2
Updated demographic assumptions ³	1.1	0.1	0.1	(0.1)	0.0	1.2
Updated retiree claims and participant contributions ⁴	0.0	0.0	(1.6)	0.0	0.0	(1.6)
Discount rates ⁵	(11.6)	(0.2)	(0.9)	(0.6)	(0.7)	(14.0)
2018 asset performance ⁶	9.7	0.0	4.5	0.0	0.0	14.2
Expected rate of return assumption update ⁷	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 experience ⁸	(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 returns9	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

¹Qualified 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.

² 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.

³ Update retirement rates to reflect recent plan changes and benefits offered to new hires and change to middle-of-year decrements.

⁴ 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%.

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.

⁶ 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).

⁷Decrease VEBA expected return on assets assumption from 5.80% to 5.30%.

⁸ Impact of updated participant status and compensation data through November 30, 2018 and benefit payment experience.

⁹ Reflects true-up of December 28, 2018 lump sums payments from XEPP and NCE.

WillisTowers Watson III"III

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.

WillisTowersWatson III"III

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			
Discount 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%
Expected 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%
Expected Return on Assets Assumption – VEBA	5.80%	5.30%	5.30%
Discount Rate – Aggregate Cost	7.10%	7.10%	7.10%
Salary Scale ¹	3.75%	3.75%	3.75%
Initial Medical Trend			
- Pre-Medicare	7.00%	6.50%	6.50%
- Post-Medicare	5.50%	5.30%	5.30%
Ultimate Medical Trend	4.50%	4.50%	4.50%
Year Ultimate Trend is Reached	2023	2023	2023

¹ 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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WillisTowersWatson IIIIIIII

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:

				Yea	r			
		2019	2020	2021		2022	2023	2024
Xcel Energy Pension Plan	1	6 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 15th 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.

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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

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WillisTowersWatson

Mr. Richard R. Schrubbe February 8, 2019

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Kristoff Hendrickson, FSA Director, Retirement

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 afoliche

Mark Afdahl, FSA Director, Retirement

Rem H. AT

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. Garrett Mikrut, Xcel Energy Inc. Debbie Robin, Xcel Energy Inc. Jeff Savage, Xcel Energy Inc 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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Willis Towers Watson

Page 7 of 7

				XCELE	NERGY INC C Cost by L (\$ in The	XCEL ENERGY INC Qualified Pension Plans Cost by Legal Entity (\$ in Thousands)	Plans					EXHIBIT I Page 1 of 6
ŧ				Amortizations	ations							
2019	Service Cost Interest Cost	Interest Cost	Expected Return on Assets	Prior Service Cost	Net (Gain)/Loss	Net Cost	Settlement Charge ¹	Aggregate Cost Compensation Method	Aggregate Cost 20-year Amortization Method	January 1 Prepaid (Accrued)	Contribution	PBO
Xcel Energy Pension Plan (XEPP) Discontinued Operations ²		3,051	(4,468)		3,050	1,633	,	N/A		33,632	3,785	73,890
Xcel Energy Nuclear	5,834	4,153	(6,079)	(214)	630	4,324		3,843		(8,658)	5,052	100,213
NSP - MN	19,538	5,709	(48,176) (8,356)	(30)	29,580	34,030 6,203		30,940 N/A	27,352 N/A	313,067 43.681	41,669 7.239	806,830 139.764
Xcel Services ³	21,737	26,095	(38,200)	(385)	13,112	21,759	∎£ (NIA		84,737	32,227	632,568
	51,602	71,959	(105,312)	(1,129)	50,821	67,941		34,783	30	(3C) 466,401	000'06	1,753,811
NCE Non-Bargaining Pension Plan Discontinued Operations - Cheyenne	,	146	(203)		146	80	a	NIA		1.545	65	3.601
PSCo	3,915	7,642	(10,625)	(165)	3,321 2,608	4,088 3,604		NIA	NIA	17,104	3,434	187,999 83 030
Total NCE	6,346	11,135	(15,473)		6,075	7,781		NIA		42,076	5,000	274,630
SPS Bargaining Plan SPS	6.377	16.788	(23.998)		8.741	7.908		NIA		120.664	15,000	394 752
Total SPS	6,377	16,788	(23,998)	•	8,741	2,908		N/A	NIA	120,664	15,000	394,752
PSCo Bargaining Plan Discontinued Operations - Cheyenne		416 43 085	(547) (57 984)	-	421	290 26 691		NIA	N/A	6,218 242 505	386	9,963
Total PSCo	21,667	44,401	(58,428)		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
¹ 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. ² Includes NRG, BMG, Viking, Natro Gas, Utility Engineering, Seren, Quixx, Crockett and QPS ³ Includes Eloigne	benefit payments (leering, Seren, Qu	exceed the sum lixx, Crockett an	l of service cos Id QPS	t and interest o	n a plan by plan	basis. No settlerr	ients have been e	stimated at this time				
Assumptions Discount Rate - U.S. GAAP												
XEPP NCE	4.31%											
	4.37%											
PSCo Discount Pate Accessorate Marmal Cast	4.36%											
Discount Rate - Aggregate Nonma Cost Salary Scale Expected Return on Assets	3.75%											
XEPP	7.10%											
NCE	6.90%											
PSCo	6.50%											
Assumed Mortality Table Bargaining Participants	RP-2014 Blue (Collar projected	with generation	nal mortality im	provements usir	RP-2014 Blue Collar projected with generational mortality improvements using an adjusted SCA MP-2016 methodology	A MP-2016 metho	ydology		-		
Non-bargaring relucions of the provident information on data, assumption to zuly take to the provisions. See February 3, 2019 letter for additional information on data, assumptions, methods, and plan provisions. Contributions already made are allocated in accordance with the January 2, 2019 contribution directives.	on on data, assum ance with the Jan	ptions, methods uary 2, 2019 co	sted for ZU14 X s, and plan pro- ntribution direc	.cel Energy mo visions. tives.	tality study, proj	ected with genera	uonal mortality im	provements using ar	rer-sult write to a subject on 2.14 xore integrit mortality study, projected with generational mortality improvements using an aquisted SUA MI2016 memodology on data, assume totals, and plan provisions. To data, assume totals, methods, and plan provisions.	lo methodology		

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2/8/2019 Virtual: 2/8/2019 Virtual: 2/8/2019 Virtual: 2/19/Documents/Projections/February/2019 Benefit Costs and 2020-2024 Benefit Cost Estimates - February 2019/Xisx: Qualif

Attachment RRS-RR-3 Page 8 of 11 2019 TX Rate Case

EXHIBIT I

XCEL ENERGY INC. - Qualified Pension Plans

EXHIBIT II Page 1 of 6		Expected Benefit Payments	10		472	49	416	251	4,048 -	5,369													
		January 1 Prepaid (Accrued)	(1 291)	(663)	(272)	(458)	(58)	(462)	(16,717) (27)	(19,948)				016 methodology									
		Net Cost P	(23)	(54) 89	493	38	467	198	2,330 (3)	3,589				adjusted SOA MP-2									
ans		Settlement Charge ¹			Ŧ	ę	ŗ	į			estimated at this time.			mprovements using an									
XCEL ENERGY INC Nonqualified Pension Plans Cost by Legal Entity (\$ in Thousands)	tions	Net (Gain)/Loss S	(53)	(13)	318	2	300	120	578 (3)	1,249	ttlements have been e			enerational mortality in									
ENERGY INC Non Cost by Lei (\$ in Tho	Amortizations	Prior Service Cost			9		t		133	133	d interest cost. No se			ttudy, projected with g									
XCEL	ļ	Expected Return on Assets	,	ï	•		ŝ	I			sum of service cost an			Kcel Energy mortality s	e and also aroundia								
		Interest Cost	30	ន	142	19	126	67	898	1,304	ayments exceed the s			as adjusted for 2014)	pottone mothod								
		Service Cost	ĩ	80	33	17	41	1	721 -	903	iried if lump sum benefit p jas, Quixx, Seren and UE		4.26%	3.75% 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	ateb no noticementi lenei								
		2019	Discontinued Operations ²	Xcel Energy Nuclear	NSP - MN	INP - WI	PSCo ³	SPS	Xcel Services* XEPC (former EMI)	Total Xcel Energy	¹ 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. ² Includes NRG, BMG, Wiking, Natrogas, Quixx, Seren and UE ³ Includes Fort St. Vrain ⁴ Includes Fort St.	Assumptions	Discount Rate	Salary Scale (career average) Assumed Mortality Table	Cae Esherian, 8. 2010 (star for additional information on data accumutione matheda and alan noviviana								

1/30/2018 Internal.towerswatson.com/Dav/WWRoon/clients/609084A/Xce/RETActuaria+2019/Documents/Projections/February/2019 Benefit Costs and 2020-2024 Benefit Cost Estimates - February 2019/Xisx: Nonqualified

Amorizations Amorizations Discontinued Operations' Service Cost Interest Cost Cost Cast Cast Cast Cast Cast Cost				XCEL ENER U.S. GAA	XCEL ENERGY INC Postretirement Benefits U.S. GAAP Cost Estimates by Legal Entity (\$ in Thousands)	ement Benefits Legal Entity			
ed Operations ¹ y Nuclear as ³ her EMI) Energy IRG, BMG, Viking, Ne loigne and Seren. Xecutive Life Insuran teturn on Assets atte teturn on Assets atte fatining: figaining: figaining: figaining:					Amortizati	ons			
y Nuclear w Nuclear her EMI) her EMI, Frengy, Ne RG, BMG, Viking, Ne tracutive Life Insuran to and Seren. w To Assets teturn on A	2019	Service Cost	Interest Cost	Expected Return on Assets	Prior Service Cost	Net (Gain)/Loss	Net Cost	January 1 Prepaid (Accrued)	Contribution
y Nuclear es ³ her EMI) Energy ERG, BMG, Viking, Na Iogene and Seren. Xecutive Life Insuran teturn on Assets and 019) inmate Reached fontality Table inmate Reached fontality Table ing: ing: ing: ing to PSCo and SPS	Discontinued Operations ¹		309	(12)	(110)	52	207	(4,760)	658
es ³ ner EMI) Energy IRG, BMG, Viking, Ne Ioigne and Seren. Xecutive Life Insuran Xecutive Life Insuran teturn on Assets teturn on Assets (ontality Table ing: rgaining: rgaining:	Xcel Energy Nuclear	14	36		57	(15)	92	(822)	17
es ³ Iner EMI) Energy IRG, BMG, Viking, Na Ioigne and Seren. Xecutive Life Insuran ate teturn on Assets teturn on Assets teturn on Assets (ontality Table ing: rgaining: rgaining: rgaining:	NSP - MN ²	112	3,091	(129)	(3,075)	1,523	1,522	(50,755)	7,187
es ³ ner EMI) Energy ERG, BMG, Viking, Na Ioigne and Seren. Xecutive Life Insuran teturn on Assets teturn on Assets teturn on Assets (ontality Table ing: rgaining: rgaining:	NSP - WI	27	528	(23)	(351)	299	480	(8;998)	1,168
es ³ ner EMI) Energy FRG, BMG, Vrking, Ne tolgine and Seren. Xecutive Life Insuran Xecutive Life Insuran tate Antality Life Insuran Antality Table Inster Reached Inster Reached Inster PSCo and SPS Ins for PSCo and SPS	PSCo	478	15,626	(18,936)	(5,399)	2,936	(5,295)	47,175	ï
es ³ her EMI) Energy RG, BMG, Viking, Ne loigne and Seren. Xecutive Life Insuran eterur on Assets end (ortality Table (ortality Table ing: ing: rgaining: se for PSCo and SPS	SPS ³	879	1,741	(2,039)	(466)	(420)	(305)	(13,234)	ì
ner EMI) Energy IRG, BMG, Viking, Na loigne and Seren. xecutive Life Insuran terturn on Assets end ortality Table fortality Table ing: ing: fgaining: ns for PSCo and SPS	Xcel Services ³	43	1,132	(33)	(565)	676	1,253	(12,591)	1,587
Energy IRG, BMG, Viking, Na Iolojne and Seren. xecutive Life Insuran ate teturn on Assets and (ortality Table (ortality Table ing: ing: rgaining: ns for PSCo and SPS	XEPC (former EMI)		~	2 A 2 A		(4)	(3)	(117)	Ω
IRG, BMG, Viking, Ne loigne and Seren. Xecutive Life Insuran eterum on Assets eter on Assets and (ortality Table ing: ing: rgaining: ns for PSCo and SPS	Total Xcel Energy		22,464	(21,231)	(606'6)	5,074	(2,049)	(42,102)	10,622
ate teturn on Assets 019) inmate Reached fortality Table ing: rgatning: rs for PSCo and SPS	³ Includes Executive Life Insur	ance benefits.							
ate teturn on Assets and in Assets in Assets in Assets in Asset ing: ing: ing: ing: ing: ing: ing: ing:	Assumptions								
m on Assets te Reached te Reached ifty Table timug: ning: or PSCo and SPS	Discount Rate	4.32%							
Medical Trend Pre-65 Post-65 Initial (2019) 6.50% 5.30% Ultimate Reached 6.50% 5.30% Var Ultimate Reached 203 203 Assumed Mortality Table RPH-2014 Blue Collar headcount-weighted table adjusted for Xcel Energy montality study, projected with generational mortality improvemen MP-2016 methodology. Non-bargaining: Non-bargaining: RPH-2014 White Collar headcount-weighted table adjusted for Xcel Energy montality study, projected with generational mortality improvemen MP-2016 methodology. Non-bargaining: MP-2016 methodology. Contributions for PSCo and SPS are assumed ecual to the recost. but not less than zero. Contributions for other legal entities are assumed ecual to the exoccted benefit to the scoccted benefit to the scoccted benefit to the recost.	Expected Return on Assets	5.30%							
Initial (2019) 6.50% 5.30% 5.30% 5.30% 5.30% 5.30% 5.30% 7.50%	Medical Trend	Pre-65	Post-65						
Ultimate 4.50% 4.50% 4.50% Ver Ultimate Reached 2023 2023 2023 Assumed Mortality Table RPH-2014 Blue Collar headcount-weighted table adjusted for Xcel Energy mortality study, projected with generational mortality improvemen MP-2016 methodology. Non-bargaining: RPH-2014 White Collar headcount-weighted table adjusted for Xcel Energy mortality study, projected with generational mortality improveme MP-2016 methodology. Non-bargaining: RPH-2014 White Collar headcount-weighted table adjusted for Xcel Energy mortality study, projected with generational mortality improveme MP-2016 methodology. Contributions for PSCo and SPS are assumed equal to the exoected benefit to	Initial (2019)	6.50%	5.30%	(41)					
Year Ultimate Reached 2023 2023 Assumed Mortality Table RPH-2014 Blue Collar headcount-weighted table adjusted for Xcel Energy mortality study, projected with generational mortality improvemer Bargaining: MP-2016 methodology. Non-bargaining: RPH-2014 White Collar headcount-weighted table adjusted for Xcel Energy mortality study, projected with generational mortality improveme MP-2016 methodology. MP-2016 methodology. Contributions for PSCo and SPS are assumed equal to the exoected benefit t	Ultimate	4.50%	4.50%						
Assumed Mortality Table RPH-2014 Blue Collar headcount-weighted table adjusted for Xcel Energy mortality study, projected with generational mortality improvemer MP-2016 methodology. Non-bargaining: RPH-2014 White Collar headcount-weighted table adjusted for Xcel Energy mortality study, projected with generational mortality improveme MP-2016 methodology. Contributions for PSCo and SPS are assumed equal to the exoected benefit to Contributions for PSCo and SPS are assumed equal to the exoected benefit to the exoected benefit to contributions for PSCo and SPS are assumed equal to the exoected benefit to contributions for PSCo and SPS are assumed equal to the exoected benefit to contributions for PSCo and SPS are assumed equal to the exoected benefit to contributions for PSCo and SPS are assumed equal to the exoected benefit to contributions for PSCo and SPS are assumed equal to the exoected benefit to contributions for PSCo and SPS are assumed equal to the exoected benefit to contributions for PSCo and SPS are assumed equal to the exoected benefit to contributions for PSCo and SPS are assumed equal to the exoected benefit to contributions for PSCo and SPS are assumed equal to the exoected benefit to contributions for PSCo and SPS are assumed equal to the exoected benefit to contributions for PSCo and SPS are assumed equal to the exoected benefit to contributions for PSCo and SPS are assumed equal to the accest but not less than zero. Contributions for other lest and set assumed equal to the exoected benefit to contributions for PSCo and SPS are assumed equal to the accest but not less than zero. Contributions for other lest and contained equal to the exoected benefit to contained equal to the accest but not less than zero. Contributions for other lest and contained equal to the exoected benefit to contained equal to the accest benefit to contained equal to the contained equal to the accest benefit to contained equal to the accest benefit to contained equal to the contain contained equal to th	Year Ultimate Reached	2023	2023						
Not 2016 intervention increased in which we have advanced on the subject of the s	Assumed Mortality Table Barraining:	RDH_2014 Blue Collar	headcount-meichte	d table adjuicted for Yr	al Energy mortality e	tudy projected with a	lettom lenoiteren	the improvements lising of	CO Volumeter
Non-bargaining: RPH-2014 White Collar headcount-weighted table adjusted for Xcel Energy mortality study, projected with generational mortality improveme MP-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 to		MP-2016 methodoloc				and, projected min g			
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 to	Non-bargaining:	RPH-2014 White Colla	r headcount-weight	ted table adjusted for >	cel Energy mortality	study, projected with g	generational morta	ality improvements using a	an adjusted SOA
See February 8, 2019 letter for additional information on data, assumptions, and plan provisions.	Contributions for PSCo and S See February 8, 2019 letter ft	PS are assumed equal to or additional information or	the net cost, but no data, assumption	ot less than zero. Cont s, and plan provisions.	ributions for other leg	al entities are assume	id equal to the exp	bected benefit payments.	

EXHIBIT III Page 1 of 6

Willis Towers Watson I.I'I'I.I 28/2019 \natici-internal.towerswatson.com/Dav/WWRcot/clients/609084A/XceRETActuarial-2019/Documents/Projections/February2019 Benefit Costs and 2020-2024 Benefit Cost Estimates - February 2019.visx: PRW

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	Xcel Energy Benef	Inc LTD and it Cost Estima (\$ in Tho	Xcel Energy Inc LTD and Workers' Compensation Benefit Cost Estimates by Legal Entity (\$ in Thousands)	mpensation Entity			Exhibit VI Page 1 of 1	It VI
Fiscal Year Ending	2018	2019	2020	2021	2022	2023	2024	
U.S. GAAP	Actual	Budget	Budget	Budget	Budget	Budget	Budget	
Discount Rate- Workers' Compensation	3.51%	4.23%	4.23%	4.23%	4.23%	4.23%	4.23%	
Former NSP - Workers' Compensation ' MN/SD MI/WI	339 (53)	(472) 8	310 4	289 5	270 4	253 3	234 4	
Subtotal	286	(464)	314	294	274	256	238	
<u>Former NCE - Workers' Compensation</u> ⁷ Colorado - PSCo	555	30	62	60	58	55	53	
<u>Deductible States - Workers' Compensation</u> Deductible States - SPS (KS, OK, NM, and TX)	(3)	i	ĩ	1 :0	ı	ï	,	
Total Xcel Energy Workers' Compensation	838	(434)	376	354	332	311	291	
Discount Rate - LTD Income	3.51%	4.23%	4.23%	4.23%	4.23%	4.23%	4.23%	
<u>LTD Income</u> Discontinued Operations - Cheyenne Discontinued Operations ² NSP-MN NSP-WI PSCo SPS Utility Engineering Xcel Services XEPC	(21) (258) (117) (117) (33) (33) (33) (34) (35) (35) (35) (35) (35) (35) (35) (35	3 2 (2) 2 2 2 2 (3) 2 3 (3) 3 (3)	220 2260 336 77 72 72 72	- 238 2139 6 138 288 288 28 28 28 2 3 3 2 2 3 3 4 2 3 3 3 4 2 3 3 3 4 2 3 3 3 4 2 3 3 3 3	2008 2018 2017 2017 2017 2017 2017 2017 2017 2017	, 1 3887 1 5 5 5 887 1		
Total Xcel Energy LTD Income	(245)	(71)	357	324	298	272	251	
Total Xcel Energy U.S. GAAP	593	(505)	733	678	630	583	542	
¹ 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. ² Includes NRG, BMG, Viking and Natrogas. ² See February 8, 2019 letter for additional information on data, assumptions, methods, and plan provisions.	i coome replacement ikrupt insurers. as. il information on da	t and medical ber ta, assumptions,	nefits as well as re methods, and pla	serve for bankrur n provisions.	t insurers.	-	-	

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Attachment RRS-RR-3 Page 11 of 11 2019 TX Rate Case

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Calculation of Actuarially Determined Pension and Benefit Amounts

Total Cost Amounts from Actuarial Reports

		QUALIFIED PENSION	OPEN	NOIS
		2018		2019
SPS-NCE	s	3,993,000	Ş	3,604,000
SPS-Barg		9,739,000		7,908,000
SPS Total	\$	13,732,000	Ś	11,512,000
cel Service	\$	23,352,000	Ś	21,759,000
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OPEB RETIREE MEDICAL

QUALIFIED PENSION

(305,000) 1,253,000

(558,000) \$ 1,527,000 \$

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 OPEB RETIREE MEDICAL

 2018
 2019

	12 M	Test Year 12 Months Ending		Known Ir	Known & Measurable Incr/(Decr)	12 М	Test Year 12 Months Ending			Measurable Incr/(Decr)
CDC		3/31/19	2019 Cost	froi	from Test Year		3/31/19	2019	2019 Cost f	from Test Year
SPS-NCE Total Cost	Ś	3,895,750 \$	3,604,000	÷	(291,750)					
SPS-Barg Total Cost		9,281,250	7,908,000		(1,373,250)					
Total SPS	Ś	13,177,000 \$	11,512,000 \$	Ś	(1,665,000)	Ş	(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	Ş	8,120,353 \$	7,094,294 \$	Ś	(1,026,060)	÷	(304,891) \$		(187,957) \$	116,934
X cel Service										
Xcel Service Total Cost	\$	22,953,750 \$	21,759,000 \$	\$	(1, 194, 750)	\$	1,458,500 \$	<i>,</i> -	1,253,000 \$	(205,500)
Percent to SPS O&M FERC 926		12.50%	12.50%				12.50%		12.50%	
Amount to SPS O&M FERC 926	s	2,870,332 \$	2,720,930 \$	\$	(149,402)	÷	182,383 \$		156,686 \$	(25,697)
Affiliate Charges	\$	(904) \$,	Ś	904	\$	33 \$		- \$	(33)
Amount to SPS O&M	÷	10.989.781 \$	9.815.224	÷	(1.174.557)	÷	(122.475) \$		(31.271) \$	91.204
	÷	* restanter		÷	(rade refe)	÷	* (2116)		* (=:=(=~)	
 Attachment RRS-2, Exhibit I Page 1 of 6 Attachment RRS-2, Exhibit III Page 1 of 6 Attachment RRS-3, Exhibit I Page 1 of 6 Attachment RRS-3, Exhibit III Page 1 of 6 										

Attachment RRS-RR-4 Page 1 of 2 2019 TX Rate Case

Calculation of Actuarially Determined Pension and Benefit Amounts

Total Cost Amounts from Actuarial Reports

	NON-QUALIFIED PENSION	D PENSION
	2018	2019
SPS	\$ 212,000 \$	198,000
Xcel Service	\$ 2,872,000 \$	2,330,000
	(2)	(6)

SABILITY AND ENSATION	2019	21,000	10,000	(8)
FAS 112 LONG-TERM DISABIL/ITY AND WORKERS COMPENSATION	2018	(10,000) \$	91,000 \$	(4)
FAS 1		s	Ś	

Calculation of Total Cost Amounts to Cost of Service Amounts

		D-NON	NON-QUALIFIED PENSION	N		FAS 112 LONG-TERM DISABILITY AND WORKERS COMPENSATION	ERM DISABILITY AN COMPENSATION	VD WORKERS	TO	FAL NON-QUALIFIE DISABILITY & FAS 1	TOTAL NON-QUALIFIED PENSION, FAS 112 LONG-TERM DISABILITY & FAS 112 WORKERS COMPENSATION	LONG-TERM ENSATION
	12 M	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	12]	Test Year 12 Months Ending 331/19	2019 Cost fro	Known & Measurable Incr/(Decr) from Test Year
SPS SPS Total Cost Percent to SPS O&M FERC 926	÷	208,500 \$ 61.63%	198,000 61.63%	\$ (10,500)	\$ (((9,374) \$ 61.63%	21,000 61.63%	\$ 30,374	\$	199,126 \$ 61.63%	219,000 \$ 61.63%	19,874
Amount to SPS O&M FERC 926	Ś	128,489 \$	122,018	\$ (6,471)	\$	(5,777) \$	12,941	\$ 18,718	÷	122,712 \$	134,959 \$	12,247
Xcel Service Xcel Service Total Cost Percent to SPS O&M FERC 926	Ś	2,736,500 \$ 12.50%	2,330,000 12.50%	\$ (406,500)	\$ ((70,750 \$ 12.50%	10,000 5 12.50%	\$ (60,750)	Ś	2,807,250 \$ 12.50%	2,340,000 \$ 12.50%	(467,250)
Amount to SPS O&M FERC 926	S	342,195 \$	291,363	\$ (50,832)	\$ (2	8,847 \$	1,250	\$ (7,597)	÷	351,042 \$	292,613 \$	(58,429)
Affiliate Charges	S	(13) \$		\$ 13	\$	1 \$		\$ (1)	S	(12) \$	-	12
Amount to SPS O&M	\$	470,671 \$	413,381	\$ (57,290)	*	3,071 \$	14,192	\$ 11,121	÷	473,742 \$	427,573 \$	(46,169)

Attachment RKS-2, Exhibit II Page 1 of 6
 Attachment RKS-2, Exhibit VI
 Attachment RKS-3, Exhibit II Page 1 of 6.
 Attachment RKS-3, Exhibit VI

Calculation of Active Health and Welfare Amounts

Calculation of Total Cost Amounts to Cost of Service Amounts

		ACI	ACTIVE HEALTH CARE	ARE		MISC BENI	MISC BENEFT PROGRAMS AND LIFE INSURANCE	S AND LIFE		TOTALI	TOTAL HEALTH AND WELFARE	/ELFARE
	Test Y	Test Year Adjusted		Known & Measurable Incr/(Decr) from	Ţ			Known & Measurable Incr/(Decr) from	Test N	Test Year Adjusted		Known & Measurable
	12 M	fonths Ending 3/31/19	12 Months Ending Amount Included 3/31/19 in Cost of Service	Base Period Adjusted	Mo	Months Ending 3/31/19	Amount Included in Cost of Service	Base Period Adjusted	12 M	onths Ending 3/31/19	Amount Included in Cost of Service	12 Months Ending Amount Included Incr/(Decr) from Test 3/31/19 in Cost of Service Year Adjusted
SPS												
Total Cost Per Book Amount	S	16,032,231							S	16,032,231		
Adjust to Incurred Basis		(339,472)								(339,472)		
Total Cost on Incurred Basis	Ś	15,692,759 \$	\$ 15,945,132		Ś	1,202,270	\$ 1,202,270		Ś	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	Ś	9,678,590 \$	9,834,115	\$ 155,525	Ś	740,901	\$ 740,901	'	Ś	10,419,491 \$	\$ 10,575,016	\$ 155,525
Xcel Service												
Total Cost Per Book Amount	\$	37,628,208							S	37,628,208		
Adjust to Incurred Basis		(2,229,096)								(2,229,096)		
Total Cost on Incurred Basis	Ś	35,399,112 \$	\$ 36,801,095		Ś	6,094,738	\$ 6,094,738		Ś	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	-	s	5,203,407 \$	\$ 5,378,723	\$ 175,316
Affiliate/Other Charges	S	4,928	\$ 4,928	· *	s	(83)	\$ (83) \$	۰ ج	Ś	4,845	\$ 4,845	۰ ج
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

Company
Public Service
Southwestern

Average Balances of Qualified and Non-Qualified Pension Fund Amounts

				Mar LTD (2018)		Apr LTD (2018)	May LTD (2018)		June LTD (2018)	Jul LTD (2018)	Aug LTD (2018)	Sep LTD (2018)	018)
Prepaid Pension Asset - Qualified	t - Qualified												
FERC Account	JDE Object Account	SAP Object Account	Account Desciption										
228.3	431110.1000	2421006	Accrd Qual Pen Post 15	\$ (74,5	567,250) \$	(74, 550, 667)	\$ (74,534,08	3) \$ (7	4,517,500) \$	(74,567,250) \$ (74,550,667) \$ (74,534,083) \$ (74,517,500) \$ (74,500,917) \$ (74,484,333) \$ (74,467,750)	\$ (74,484,333)	\$ (74,46'	7,750)
182.3	150201.1700	1151021	FAS 158 Reg Asset Pensi	13,1	13,155,000	13,155,000	13,155,000		12,924,000	12,924,000	12,924,000	13,15	13,154,750
182.3	244510.9997	1402006	FAS 158 RA Pension Cont	(13,1	(13, 155, 000)	(13, 155, 000)	(13, 155, 000)	-	(12,924,000)	(12,924,000)	(12,924,000)	Ŭ	13,154,750)
182.3	244510.1700	1402006	FAS 158 Reg Asset Pensi	232,1	232,169,359	231,008,442	229,847,525		228,686,609	227,525,692	226,364,775	225,203,859	3,859
Total Prepaid Pension Asset - Qualified	Asset - Qualified			\$ 157,602,109		156,457,775	\$ 156,457,775 \$ 155,313,442 \$ 154,169,109	2 \$ 15	4,169,109 \$	\$ 153,024,775 \$ 151,880,442 \$ 150,736,109	\$ 151,880,442	\$ 150,730	6,109
La Stand and Andrew Laboration	For Manual Local												
	naminan - 1												
FERC Account	JDE Object Account	SAP Object Account	Account Desciption	I									
182.3	244510.1800	1402001	FAS 158 Reg Asset Nqual	ۍ د	374,604 \$	371,253	\$ 367,903	13 \$	364,552 \$	361,202	\$ 357,851	\$	354,501
182.3	150201.1800	1151001	FAS 158 RA Non Qualified Curr	Ŭ	(39,072)	(39,072)	(39,072)	'2)	(39, 450)	(39, 450)	(39,450)	(36	(39,072)
182.3	244510.9998	1402001	FAS 158 RA NQual Pensio		39,072	39,072	39,072	2	39,450	39,450	39,450		39,072
242	338310.1000	2244031	A/P NonQualified Pen Po	0	(235,000)	(235,000)	(235,000)	(0)	(235,000)	(235,000)	(235,000)	(23:	(235,000)
219	488200.160	3152011	OCI NonQ Pension FAS 158	œ	864,549	856,816	849,083	33	841,350	833,617	825,885	818	818,152
228.3	431440	2421036	Accrued Nonqual Pension	(1,4	(472,791)	(1,460,016)	(1,447,242)	(2)	1,437,752)	(1, 428, 263)	(1,410,845)	(1	,399,997)
Total Prepaid Pension	Fotal Prepaid Pension Asset - Non-Qualified			\$ (4	(468,638) \$	(466,947) \$	\$ (465,256) \$	\$ (9;	(466,850) \$	(468,444) \$	\$ (462,109) \$	-	(462,344)

Total Net Prepaid Pension Costs

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

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Average Balances of Qualified and Non-Qualified Pension Fund Amounts

				Oct LTD (2018)	Nov LTD (2018)	Dec LTD (2018)	Jan LTD (2019)	Feb LTD (2019)	Mar LTD (2019)	13 Month Average
Prepaid Pension Asset - Qualified	- Qualified									
FERC Account	JDE Object Account SAP Object Account	SAP Object Account	Account Desciption	ļ						
228.3	431110.1000	2421006	Accrd Qual Pen Post 15	\$ (74,451,167) \$ (74,434,583) \$ (85,598,000) \$ (46,762,000) \$ (69,147,000) \$ (69,172,000)	\$ (74,434,583)	\$ (85,598,000) .	\$ (46,762,000)	\$ (69,147,000)	\$ (69,172,000)	
182.3	150201.1700	1151021	FAS 158 Reg Asset Pensi	13,154,750	13,154,750	12,896,000	12,896,000	12,896,000	11,172,500	
182.3	244510.9997	1402006	FAS 158 RA Pension Cont	(13, 154, 750)	(13,154,750)	(12, 896, 000)	(12, 896, 000)	(12, 896, 000)	(11,172,500)	
182.3	244510.1700	1402006	FAS 158 Reg Asset Pensi	224,042,942	222,882,025	229,640,109	206,345,776	227,820,442	226,886,109	
Total Prepaid Pension Asset - Qualified	Asset - Qualified			\$ 149,591,775	\$ 148,447,442	\$ 144,042,109	\$ 159,583,776	\$ 158,673,442	\$ 157,714,109	\$ 153,633,570
Prepaid Pension Asset - Non-Qualified FERC Account JDE Object Ac	t - Non-Qualified .IDE Object Account	SAP Object Account	Account Desciption							
182.3	244510.1800	1402001	FAS 158 Reg Asset Nqual	\$ 351,150 \$	\$ 347,800	\$ 386,878	\$ 383,765	\$ 380,652	\$ 377,539	
182.3	150201.1800	1151001	FAS 158 RA Non Qualified Curr	(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	(1, 389, 148)	(1,378,300)	(1,455,000)	(1,408,783)	(1,397,852)	(1, 386, 920)	
Total Prepaid Pension Asset - Non-Qualified	Asset - Non-Qualified			\$ (462,579) \$	\$ (462,814) \$	\$ (463,049) \$	\$ (426,833) \$	\$ (425,901) \$	\$ (424,970) \$	\$ (455,903)

Total Net Prepaid Pension Costs

\$ 149,129,196 \$ 147,984,628 \$ 143,579,059 \$ 159,156,943 \$ 158,247,541 \$ 157,289,139 \$ 153,177,668

Development of Qualified Pension Asset Balance

(\$ in Thousands)	Actual	Actual		Actual	Actual	•	Actual	Actual	7	Actual	Actual	Actual		Actual	Actual	7	Actual
	Aug. 31	Aug. 31		Aug. 31	Aug. 31	1	Aug. 31	Aug. 31	¥	Aug. 31	Aug. 31	Aug. 31		Sep Dec.	Dec. 31		Dec. 31
	1988	1989		1990	1991		1992	1993		1994	1995	1996	Ĩ	Transition	1997		1998
3egining Balance Pension Asset (Liability)	\$ 2,706 \$	\$ 3,724	24 \$	3,902	Ş	4,531	\$ (5,955)	Ş	(7,207) \$	(7,347)	\$ (7,039)	s	(7,045) \$	(6,905)	\$ (6,548)	\$	
Pension (Expense) Credit Accrual	\$ 1,018	\$ (471)	71) \$	(1,332)	÷	(2,464)	\$ (2,487)	\$ (1,354)	4) \$	(761)	\$ (1,097)	÷	(855) \$	6	\$ 12,645	÷	15,175
Net Employer Contributions	• •	\$ 64	649 \$	1,961	÷	'	\$ 1,235	\$ 1,214	4 \$	1,069	\$ 1,091	s	995 \$	348	\$ (6,097)		
Other					\$ (8,1	(8,022)										÷	9,436
				_													
Ending Balance Pension Asset (Liability)	\$ 3,724	3,724 \$ 3,90	3,902 \$		4,531 \$ (5,955	955)	\$ (7,207)	\$	(7,347) \$	(7,039) \$	\$ (7,045) \$		(6,905) \$	(6,548)	\$	÷	24,611

Development of Qualified Pension Asset Balance

Actual	al	A_{i}	Actual	\boldsymbol{A}	Actual	A	Actual	7	Actual	,	Actual	, r	Actual	£.	Actual	4	Actual	A	Actual	4	Actual
Dec. 31	31	Ā	Jec. 31	Ω	Dec. 31	Ω	Dec. 31		Dec. 31		Dec. 31	Γ	Dec. 31		Dec. 31		Dec. 31	β	Dec. 31	Γ	Dec. 31
1999	6	• •	2000		2001		2002		2003		2004		2005		2006		2007		2008		2009
\$ 24	24,611	Ş	40,087	÷	61,359	÷	82,503 \$	\$	105,044	÷	121,580 \$	÷	132,757 \$	÷	143,309 \$	÷	150,827	Ş	158,778	÷	169,516
																L					
\$ 15	15,476	÷	21,352	÷	21,131	÷	22,235	÷	16,536	\diamond	11,177	Ś	9,102	÷	6,934	÷	7,951	÷	10,738	÷	6,644
÷	1	÷	1	÷	1	÷	I	÷	1	÷	1	÷	1,450	÷	584	÷	1	÷	1	÷	8,354
		s	(80)	÷	14	\$	306									L					
												L				L					
\$ 4(40,087	Ŷ	61,359	Ś	82,503	Ś	105,044 \$	Ś	121.580	Ś	121.580 \$ 132.757 \$	Ś	143.309	Ś	143.309 \$ 150.827 \$	Ś	158.778	Ś	158.778 \$ 169.516 \$	Ś	184.514

Development of Qualified Pension Asset Balance

	Actual		Actual	,	Actual	Actual	Actual	Actual	Actual	Actual	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
Γ	Dec. 31	\vdash	Dec. 31		Dec. 31	Dec. 31	Dec. 31	Dec. 31	Dec. 31	Dec. 31	Dec. 31	Dec. 31	Dec. 31	Dec. 31	Dec. 31	Dec. 31
	2011	-	2012		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
\leftrightarrow	178,721	21 \$	\$ 171,936 \$	s 9	167,329 \$	\$ 167,773	153,681	147,626	144,174	153,002	144,091	149,080	152,585	156,514	156,508	161,324
											_					
	\$ (11,961)	61) \$	\$ (17,624) \$	4) \$	(21, 571)	\$ (16,829)) (17,706)	(15,404)	(14,566)	(13,732)	(11,512)	(11,007)	(9,649)	(8,606)	(8,180)	(7,240)
	\$ 5,1	5,176 \$	3 13,060	\$ C	22,015	\$ 4,869	11,651	18,088	23,503	8,033	16,501	14,512	13,578	8,600	12,996	1,504
		3 3	(44)	4)		\$ (2,132)	((6,135)	(109)	(3,212)						
		-														
	178,721 \$ 171,93	36 \$	171,936 \$ 167,329 \$ 167,773 \$	\$ 6	167,773	\$ 153,681	153,681 \$ 147,626	\$ 144,174	\$ 153,002	\$ 144,091 \$	\$ 149,080 \$	\$ 152,585 \$	\$ 156,514 \$	\$ 156,508 \$	\$ 161,324 \$	\$ 155,588