

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

Direct Testimony and Schedules
Benjamin C. Halama

Before the Minnesota Public Utilities Commission
State of Minnesota

In the Matter of the Application of Northern States Power Company
for Authority to Increase Rates for Electric Service in Minnesota

Docket No. E002/GR-19-564
Exhibit___(BCH-1)

**2020 Test Year and 2021-2022 Plan Years
Overall Revenue Requirements
Rate Base
Income Statement**

Rate Rider Recovery 2020-2022

November 1, 2019

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

Table of Contents

I.	Introduction	1
II.	Case Overview	5
	A. MYRP Jurisdictional Revenue Requirements and Deficiencies	5
	B. Case Drivers	10
III.	Supporting Information	19
	A. Data Provided and Selection of the Test Year	19
	1. Overview	19
	2. MYRP Forecast	20
	3. Supporting Information and the 2020 Projected Test Year	22
	B. Jurisdictional Cost of Service Study	25
IV.	Rate Base	28
	A. Net Utility Plant	31
	B. Construction Work In Progress	32
	C. Accumulated Deferred Income Taxes	33
	D. Pre-Funded AFUDC	35
	E. Other Rate Base	37
V.	Income Statement	42
	A. Revenues	43
	B. Operating and Maintenance Expenses	49
	C. Depreciation Expense	54
	D. Taxes	54
	E. AFUDC	61
	F. Interchange Agreement	61
VI.	Utility and Jurisdictional Allocations	64
VII.	Annual Adjustments to the MYRP	70
	A. Precedential Adjustment	73

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

B.	Rate Case Adjustments	75
	1. CIP Incentive	75
	2. CIP Approved Program Costs	76
	3. Interchange ROE	77
	4. Incentive Compensation	78
	5. Mankato Energy Center	79
	6. Active Health Care Expense	79
	7. Deferred Pension Expense	80
	8. Pension Discount Rate Expense	80
	9. Non-Qualified Pension Expense	81
	10. Retiree Medical Discount Rate Expense	82
	11. Trading – Asset Based Margin	82
	12. Trading – Non-Asset Based Margin	83
	13. Trading – Non-Asset Based Administration	83
	14. Transmission ROE	84
C.	Amortizations	85
	15. Aurora Deferral	85
	16. LED Street Lighting Amortization	87
	17. NOL Tax Reform Regulation Amortization	87
	18. Prairie Island EPU Deferred Costs	88
	19. Rate Case Expense	89
	20. Sherco 3 Depreciation	90
D.	Rider Removals	90
	21. Renewable Connect Removal and Avoided Capacity	90
	22. Windsorce Removal and Avoided Capacity	92
	23. RES Rider	93
	24. TCR Rider	94

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

E.	Secondary Cost of Service Calculations	96
	25. ADIT Pro-Rate – IRS Required	96
	26. Cash Working Capital	97
	27. Change in Cost of Capital	98
	28. Net Operating Loss	99
F.	Rebuttal Adjustments	101
	29. Cost of Capital	101
	30. Railroad Island	102
	31. ADIT Pro-Rate for IRS	102
	32. Lobbying Expense	103
	33. Fleet Capital Additions	103
	34. FERC Audits (Potential Adjustment	103
	35. Bonus Tax Depreciation (Potential Adjustment)	104
VIII.	Costs Recovered in Riders	105
	A. RES Rider	107
	B. TCR Rider	111
	C. TCR and RES Rider Roll-In	113
	D. RDF Rider	117
	E. CIP Rider	117
	F. Windsource Rider	118
	G. Renewable*Connect Rider	119
	H. Fuel Clause Adjustment (FCA)	119
	I. Electric Vehicle Program Tracker	120
IX.	Compliance with Prior Commission Orders	121
	A. General Rate Case – Docket No. E002/GR-12-961	122
	1. Mapping to FERC Form 1	122
	2. Changes Between Actuals and MYRP Forecast	123
	3. Financial Labeling	123

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

4.	Wholesale Customer Study	125
B.	Decommissioning	125
C.	Other Compliance Requirements	126
1.	Incentive Compensation Refunds	126
2.	Non-Asset Based Trading Activities—Fully Allocated Cost Study and Incremental Cost Study	127
3.	Nuclear Fuel Outage Costs	127
4.	Capacity Cost Report	127
5.	Lobbyist Compensation	128
6.	North Dakota Income Tax Credits	128
7.	Capital True-Up	129
8.	Recurring Compliance Reporting Requirements	129
X.	Conclusion	132

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

Schedules

Resume	Schedule 1
Summary of Revenue Requirements	Schedule 2
Cost of Service Study Summary	Schedule 3
Cash Working Capital	Schedule 4
Labeling of Financial Sources	Schedule 5
Detailed Case Drivers	Schedule 6
Comparison of Detailed Rate Base Components	Schedule 7
Comparison of Detailed Income Statement Components	Schedule 8
Rate Base, CWIP and ADIT Summary	Schedule 9
2020 Test Year Rate Base Adjustment Schedule	Schedule 10a
2021 Plan Year Rate Base Adjustment Schedule	Schedule 10b
2022 Plan Year Rate Base Adjustment Schedule	Schedule 10c
2020 Test Year Income Statement Adjustment Schedule	Schedule 11a
2021 Plan Year Income Statement Adjustment Schedule	Schedule 11b
2022 Plan Year Income Statement Adjustment Schedule	Schedule 11c
MYRP Adjustment Summary	Schedule 12
Precedential Adjustment Detail	Schedule 13
Wholesale Customer Study	Schedule 14
Capacity Cost Study	Schedule 15
Economic Development Cost-Benefit Analysis	Schedule 16
Non-Asset Based Trading Cost Study	Schedule 17
Production Tax Credits	Schedule 18
ADIT Pro-Rate	Schedule 19
Net Operating Loss	Schedule 20
Fuel Reconciliation	Schedule 21
Rider Roll-In Timeline	Schedule 22

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

I. INTRODUCTION

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22

Q. PLEASE STATE YOUR NAME AND TITLE.

A. My name is Benjamin C. Halama. I am Manager of Revenue Analysis for Xcel Energy Services Inc. (XES or the Service Company), the service company for Xcel Energy, Inc. and its operating company subsidiaries.

Q. PLEASE DESCRIBE YOUR QUALIFICATIONS AND EXPERIENCE.

A. I have over four years of experience at XES, supporting Northern States Power Company–Minnesota (NSPM or the Company) in the areas of regulatory accounting, financial operations, and revenue requirements. In my current role, I am responsible for the development of jurisdictional revenue requirements for all NSPM jurisdictions. My resume is attached as Exhibit___(BCH-1), Schedule 1, Resume.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

A. In my Direct Testimony, I support the Company’s Minnesota jurisdiction electric operations cost of service, revenue requirements, and revenue deficiency for each of the three years of the Company’s multi-year rate plan (MYRP), which include calendar year 2020 (the test year) and 2021 and 2022 (the plan years). Overall, the net deficiencies and retail revenue requirements for the test year and plan years are summarized in Table 1 below:

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

Table 1

2020-2022 Revenue Requests

Minnesota Jurisdictional Costs Net of Interchange (\$s in millions)

MYRP Year	2020	2021	2022
Amount, cumulative	\$201.4	\$347.8	\$466.1
Amount, incremental	\$201.4	\$146.4	\$118.3
Average % increase, incremental *	6.5%	4.8%	3.9%

* The average percent increase, incremental is calculated using the incremental revenue request over the forecasted present revenues in each applicable year.

I provide the financial data supporting this overall revenue deficiency for the State of Minnesota retail electric jurisdiction, including a description of cost changes, the data we provide, and our selection of the test year. Further, I present:

- our jurisdictional cost of service study and the revenue requirement effects of our utility and jurisdictional allocations; and
- our revenue requirement, including rate base and income statement components with related adjustments and amortizations.

My testimony also supports the 2020 and 2021 requested interim rate increases discussed in the Company's Petition for Interim Rates. Company witness Mr. Gregory P. Chamberlain provides additional support for the interim rate increases proposed as a part of our multi-year rate plan, as does the Notice and Petition for Interim Rates, included in Volume 1 of our Application.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 In addition, I explain our treatment of riders, and identify certain compliance
2 requirements addressed in our general rate filing.

3
4 I relied on information provided by other witnesses in this proceeding to
5 develop many of the test year revenue requirement adjustments discussed in
6 my Direct Testimony.

7
8 Q. HOW IS THE REST OF YOUR DIRECT TESTIMONY ORGANIZED?

9 A. I present my testimony in the following sections:

- 10 • Section II, *Case Overview*, summarizes our jurisdictional revenue
11 requirement for the 2020 test year and 2021-2022 plan years, and
12 discusses the key drivers of cost increases compared to our last MYRP
13 established in Docket No. E002/GR-15-826 (the 2016-2019 MYRP).
- 14 • Section III, *Supporting Information*, provides information related to the
15 data provided in our application, the selection of the test year and plan
16 years, and the jurisdictional cost of service study.
- 17 • Section IV, *Rate Base*, identifies and explains the components of rate
18 base, and supports the reasonableness of the Company's projected
19 2020 test year and 2021-2022 plan years rate base.
- 20 • Section V, *Income Statement*, identifies and explains the major
21 components of the income statement and supports the reasonableness
22 of the Company's proposed 2020 test year and 2021-2022 plan years
23 income statement.
- 24 • Section VI, *Utility and Jurisdictional Allocations*, explains why it is
25 necessary for the Company to allocate costs among its affiliates and
26 between jurisdictions, and describes the utility and jurisdictional

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 allocators that are used in determining the MYRP revenue requirement.

- 2 • Section VII, *Annual Adjustments to the MYRP*, presents adjustments
3 affecting the 2020 test year and 2021-2022 plan years revenue
4 requirements, providing both rate base and income statement impacts.
- 5 • Section VIII, *Costs Recovered in Riders*, presents our proposed treatment
6 of costs recovered in riders during the MYRP period, providing details
7 about which riders we propose to continue to use and costs we
8 propose to move into base rates.
- 9 • Section IX, *Compliance with Prior Commission Orders*, provides information
10 related to specific requirements from prior Minnesota Public Utilities
11 Commission (Commission) Orders that have not been addressed
12 elsewhere in my testimony.
- 13 • Section X, *Conclusion*, summarizes our request.

14
15 Q. ARE ALL OF THE DOLLAR VALUES PRESENTED IN YOUR TESTIMONY
16 JURISDICTIONALIZED TO STATE OF MINNESOTA ELECTRIC JURISDICTION?

17 A. While most of the dollar values presented in my testimony are
18 jurisdictionalized to State of Minnesota Electric Jurisdiction, there are several
19 instances where dollars are either Total Company, or net of Interchange
20 Agreement billings to Northern States Power Company-Wisconsin (NSPW).
21 Dollar values that are Total Company or net of Interchange Agreement
22 billings to NSPW are labeled accordingly.

23
24 Q. DO YOU PROVIDE INFORMATION IN COMPLIANCE WITH PAST COMMISSION
25 ORDERS AND COMPANY COMMITMENTS?

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

1 A. Yes. Throughout my testimony I note where I am providing information
2 related to prior Commission Orders and Company commitments. In Section
3 IX, I provide additional information related to compliance with prior
4 Commission Orders that have not been addressed elsewhere in my testimony.
5

II. CASE OVERVIEW

6
7
8 Q. WHAT TOPICS DO YOU DISCUSS IN THIS SECTION OF YOUR TESTIMONY?

9 A. In this section, I will:

- 10 • present the jurisdictional revenue requirement and revenue deficiencies
11 for Minnesota for the 2020 test year and 2021-2022 plan years, referred
12 to in total as the “MYRP Forecast”;
- 13 • present a summary comparison of the costs in the MYRP Forecast to
14 the costs approved in our last rate case, which include costs in the
15 2016-2019 MYRP, including changes and true-ups in each year of the
16 MYRP; and
- 17 • provide an explanation of the primary sources of the changes in overall
18 costs, including plant-related costs and operations and maintenance
19 (O&M) costs.
20

21 **A. MYRP Jurisdictional Revenue Requirements and Deficiencies**

22 Q. PLEASE DESCRIBE THE BASIS OF THE COMPANY’S MYRP PROPOSAL.

23 A. The Company’s three-year plan utilizes 2020 as the test year, with 2021 and
24 2022 as additional plan years developed using budgeted capital additions and
25 budgeted O&M expenses. Also included in the proposal are impacts to other
26 rate base items, sales adjustments, and other adjustments impacting the

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 revenue requirements for these years, so that each year represents a cost of
2 service approach to rate-setting for both capital and O&M.

3
4 Q. WHAT IS THE 2020 TEST YEAR JURISDICTIONAL OVERALL REVENUE
5 REQUIREMENT AND REVENUE DEFICIENCY?

6 A. The overall jurisdiction revenue requirement for the 2020 test year is \$3.3
7 billion. The 2020 test year revenue deficiency, excluding rider roll-ins, is
8 \$201.4 million. The 2020 test year revenue deficiency amount represents a 6.5
9 percent overall increase in retail revenues from base rates compared to
10 projected 2020 retail revenues at present rates. A summary of the 2020
11 revenue deficiency (in dollars and as a percent) is provided in
12 Exhibit____(BCH-1) Schedule 2, Summary of Revenue Requirements. The
13 calculation of these dollar amounts is provided in Exhibit____(BCH-1)
14 Schedule 3, Cost of Service Study Summary.

15
16 Q. WHAT ARE THE OVERALL REVENUE REQUIREMENT AND REVENUE
17 DEFICIENCIES FOR THE 2021 THROUGH 2022 PLAN YEARS?

18 A. The overall jurisdiction revenue requirements for the 2021 and 2022 plan
19 years are \$3.4 billion and \$3.5 billion, respectively. The 2021 and 2022
20 revenue deficiencies, excluding rider roll-ins, are \$347.8 million and \$466.1
21 million, respectively. The overall revenue requirement request for the MYRP
22 Forecast represents a 15.2 percent increase in retail revenues from base rates
23 in 2022 compared to projected 2020 retail revenues at present rates. A
24 summary of the 2021 and 2022 revenue deficiencies (in dollars and as
25 percentages) is provided in Schedule 2, Summary of Revenue Requirements.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 The calculation of these dollar amounts is provided in Schedule 3, Cost of
2 Service Study Summary.

3

4 Q. WHAT IS THE AMOUNT OF THE INTERIM RATE REVENUE DEFICIENCY IN 2020?

5 A. The Interim Rate Petition (Petition) supports an interim revenue deficiency
6 based on the 2020 test year of \$122.0 million, which results in a proposed
7 interim rate increase of 4.1 percent beginning January 1, 2020.

8

9 Q. IS AN INTERIM RATE REQUEST FOR 2021 INCLUDED IN THIS FILING?

10 A. Yes. As discussed in the Direct Testimony of Mr. Chamberlain and in the
11 Notice and Petition for Interim Rates, the Company is also proposing an
12 interim rate adjustment for 2021 as part of its multi-year rate plan filing. The
13 2021 interim rate revenue deficiency includes an additional \$144.0 million
14 beginning on January 1, 2021, which equates to an additional interim rate
15 increase of 4.9 percent in 2021.

16

17 Q. HOW DOES THE COMPANY CALCULATE REVENUE REQUIREMENT AND
18 REVENUE DEFICIENCY?

19 A. The general formula for calculation of the revenue requirement and revenue
20 deficiency is depicted below in Table 2 as follows:

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

Table 2

Revenue Requirement and Revenue Deficiency

	Item	2020 Test Year Amount (\$000s)	2021 Plan Year Amount (\$000s)	2022 Plan Year Amount (\$000s)	Exhibit__ (BCH-1), Sch. 3 Reference
	Average Rate Base	\$8,986,901	\$9,309,544	\$9,805,740	Page 1, Line 44
multiplied by	Cost of capital	7.45%	7.45%	7.47%	Page 1, Line 20
	Operating Income Requirement	\$669,524	\$693,561	\$732,489	Page 4, Line 158
	Current Retail Revenue	\$3,121,140	\$3,080,944	\$3,069,438	Page 2, Line 47 + Line 48
plus	Current Other Revenue	\$545,018	\$560,238	\$574,740	Page 2, Line 49
equals	Current Total Revenue	\$3,666,158	\$3,641,182	\$3,644,178	Page 2, Line 50
minus	Operating Expenses	\$2,313,678	\$2,365,673	\$2,381,602	Page 2, Line 74
minus	Depreciation Expense	\$683,392	\$719,524	\$760,859	Page 2, Line 76
minus	Amortization Expense	\$43,948	\$43,475	\$44,757	Page 2, Line 77
minus	Taxes	\$127,994	\$97,781	\$90,108	Page 3, Line 135
plus	AFUDC	\$28,846	\$31,000	\$33,500	Page 4, Line 140 + Line 141
equals	Total Available for Return	\$525,991	\$445,729	\$400,352	Page 4, Line 143
	Operating Income Requirement	\$669,524	\$693,561	\$732,489	Page 4, Line 158
minus	Total Available for Return	\$525,991	\$445,729	\$400,352	Page 4, Line 143
equals	Income Deficiency	\$143,533	\$247,832	\$332,137	Page 4, Line 160
multiplied by	Gross Revenue Conversion Factor	1.403351	1.403351	1.403351	Page 4, Line 162
equals	Revenue Deficiency	\$201,426.70	\$347,794.68	\$466,104.28	Page 4, Line 163
plus	Current Retail Revenue	\$3,121,140	\$3,080,944	\$3,069,438	Page 4, Line 166
equals	Total Revenue Requirement	\$3,322,566	\$3,428,739	\$3,535,542	Page 4, Line 168

Q. HAS THE COMPANY PROVIDED AN EXPLANATION OF THE ASSUMPTIONS AND APPROACHES USED IN DEVELOPING THE TEST YEAR OPERATING INCOME?

A. Yes. An explanation is provided in the Financial Information section of Volume 3 (Required Information) of this Application. In addition, work

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 papers supporting the 2020 test year cost of service are provided in Volume 4
2 (MYRP Workpapers) of this Application.

3
4 Q. HOW DOES THE COMPANY TREAT CAPITAL AND O&M COSTS IN THE 2020-
5 2022 MYRP?

6 A. Our proposal uses the following reasoning to develop costs:

7 1. Capital, capital-related, and O&M costs follow the Company's budget,
8 except as needed to comply with prior Commission Orders or
9 adjustments the Company is specifically proposing in this proceeding.
10 (Capital-related consists of depreciation and allowance for funds used
11 during construction (AFUDC) as well as the cost of capital).

12 2. Fuel revenues and expenses for all years of the 2020-2022 MYRP are
13 represented in this docket at the level filed in the Company's July fuel
14 update¹ as discussed in the Company's August 11, 2019 Compliance
15 Filing in Docket No. E999/CI-03-802 (Order pending).

16 3. Expenses that have jurisdiction-specific regulatory accounting
17 treatment follow that treatment. For example:

18 a. The Company amortizes nuclear fueling outage costs over the
19 periods between outages. These costs should follow the Company's
20 budget; and

21 b. Expenses related to the Company's pension and benefit costs have
22 several regulatory adjustments based on the outcome of the
23 Company's recent rate cases.

¹ Company's July 31, 2019 Reply Comments, Docket No. E002/AA-19-293.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

- 1 4. Secondary calculations necessary for a full cost of service study are
2 based on the results of the above items.
- 3 a. Cash Working Capital balance related to the revenues and expenses
4 developed above
- 5 b. Deferred Tax Asset balance and deferred tax expense related to a
6 Net Operating Loss calculation
- 7 c. Change in debt interest expense related to the budgeted change in
8 debt costs and the budget of rate base.
- 9

10 **B. Case Drivers**

11 Q. HAVE YOU PREPARED A COMPARISON OF THE COSTS IN THE MYRP FORECAST
12 TO CURRENT RATES RESULTING FROM THE 2016-2019 MYRP?

13 A. Yes. I provide an explanation of the detailed case drivers of the deficiency
14 using a comparison of the 2020 test year (including rider roll-ins) with the
15 base rates in effect in 2019 as a result of the MYRP in our last case, Docket
16 No. E002/GR-15-826 (the 2016-2019 MYRP).² My analysis also includes a
17 comparison of years two (2021) and three (2022) of the MYRP. My analysis
18 differs from the Direct Testimony analyses of the Company's business area
19 witnesses, who primarily discuss costs and cost changes in terms of actual
20 costs and budgets (not revenue deficiencies). Therefore, my discussion of key
21 cost drivers reflects dollar values that are, in large part, different from their

² The 2016-2019 MYRP was based on a settlement that included an illustrative rate base, plus true-ups during the MYRP period for sales forecast, property tax expense, and capital-related revenue requirements. In addition, the cost of service was updated to reflect the implications of the Tax Cuts and Jobs Act (TCJA) as a result of the Commission's findings in Docket No. E, G999/CI-17-895. Therefore, our comparison of drivers compares the base rates in effect in 2019 to the 2020 test year.

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

1 discussions. In addition, I discuss these drivers at a high level, and defer to
2 the business area witnesses to provide more detail around the activities and
3 changes giving rise to these drivers.

4
5 Q. HAVE YOU PREPARED A SCHEDULE IDENTIFYING THE CHANGES IN THE MAJOR
6 COST ELEMENTS SINCE THE LAST RATE CASE?

7 A. Yes. I provide Exhibit____(BCH-1), Schedule 6, Detailed Case Drivers, which
8 provides a Summary of Major Cost Drivers (identification of case drivers for
9 the MYRP Forecast), including details of the categories identified in Table 3
10 below

11 **Table 3**
12 **MYRP Net Incremental Deficiency (\$ in millions)**

	Increase (Decrease) 2020 TY to 2019 MYRP	Increase (Decrease) 2021 TY to 2020 TY	Increase (Decrease) 2022 TY to 2021 TY	3-Year MYRP
16 Capital and Capital Related	\$292.7	\$58.7	\$78.8	\$430.3
17 Amortizations	5.4	(0.0)	(2.0)	3.5
18 Taxes	(203.3)	11.2	25.3	(166.9)
19 Operating Expense	(76.9)	50.8	14.5	(11.6)
20 Other Margin Impacts*	183.4	25.7	1.7	210.8
	\$201.4	\$146.4	\$118.3	\$466.1

21 *Includes settlement Other Revenue credit (revenue requirement reduction) from the 2016-2019 MYRP

22
23 In addition to the discussion in this Section, support for our proposed
24 increase in rates for the 2020 test year is provided in the Direct Testimonies
25 of the Company's business area witnesses and the Direct Testimony of
26 Company witness Mr. Gregory J. Robinson.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. PLEASE DESCRIBE THE REVENUE REQUIREMENT IMPACT FOR THE PRINCIPAL
2 CHANGES IN CAPITAL AND CAPITAL RELATED COSTS.

3 A. Table 4 below compares the MYRP Forecast revenue requirements with the
4 comparable revenue requirements for the 2019 MYRP, by category, for
5 capital plant related costs as shown on Schedule 6, Detailed Case Drivers.

7 **Table 4**
8 **Capital and Capital Related Cost Changes (\$ in millions)**

	Increase (Decrease) 2020 TY to 2019 MYRP	Increase (Decrease) 2021 TY to 2020 TY	Increase (Decrease) 2022 TY to 2021 TY	3-Year MYRP
12 Nuclear	\$55.2	\$3.0	\$4.9	\$63.1
13 Steam	(18.3)	2.6	4.4	(11.4)
14 Wind	77.0	4.6	(1.1)	80.5
15 All Other Production	2.9	3.8	2.6	9.3
16 Transmission	60.8	1.3	9.5	71.6
17 Distribution	22.8	19.9	32.2	74.9
18 General and Intangible	18.8	11.8	11.9	42.6
19 DTA (Federal Credits & NOL)	5.8	9.2	11.5	26.5
20 Other Rate Base	1.0	0.0	(0.8)	0.2
21 Cost of Capital	66.8	2.4	3.7	72.9
22 TOTAL Capital and Capital 23 Related	<u>\$292.7</u>	<u>\$58.7</u>	<u>\$78.8</u>	<u>\$430.3</u>

21 Q. PLEASE DESCRIBE THE PRINCIPAL CHANGES IN NUCLEAR CAPITAL COSTS.

22 A. The MYRP Forecast revenue requirements include a \$63.1 million increase in
23 Nuclear. This increase is due to capital investments for Nuclear Fuel, Dry
24 Cask Storage, Mandated Compliance, Reliability and Improvements in the
25 MYRP Forecast as well as incremental additions during the last MYRP

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 period. Additional information regarding nuclear projects is discussed in the
2 Direct Testimony of Company witness Mr. Timothy J. O'Connor.

3
4 Q. WHAT ARE THE PRINCIPAL CHANGES IN WIND CAPITAL COSTS?

5 A. The MYRP Forecast revenue requirements include an \$80.5 million increase
6 to Wind. This increase is due to capital investments for Blazing Star I wind
7 farm, Foxtail wind farm and Lake Benton wind farm as well as a roll-in of
8 Courtenay Wind Farm. Additional information regarding wind projects are
9 discussed in the Direct Testimony of Company witness Mr. Randy A. Capra.

10
11 Q. PLEASE DESCRIBE THE PRINCIPAL CHANGES IN TRANSMISSION CAPITAL COSTS.

12 A. The MYRP Forecast revenue requirements include a \$71.6 million increase to
13 Transmission. This increase is due to a roll-in of large transmission capital
14 projects, particularly the CapX2020 projects from the Transmission Cost
15 Recover Rider (TCR). Additional information regarding transmission projects
16 are discussed in the Direct Testimony of Company witness Mr. Ian R.
17 Benson.

18
19 Q. PLEASE IDENTIFY THE PRINCIPAL CHANGES IN DISTRIBUTION CAPITAL COSTS.

20 A. The MYRP Forecast revenue requirements include a \$74.9 million increase to
21 Distribution. This increase is due to capital investments relating to expansion
22 of Distribution's asset health programs to address the portions of our system
23 that are closest to our customers, such as overhead tap lines, as well as costs
24 associated with the Company's Advanced Grid Intelligence and Security
25 (AGIS) initiative. This increase is also due to capacity investment for greater
26 reliability and required relocation projects stemming from an increased

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 number of road construction projects. Additional information regarding
2 distribution projects are discussed in the Direct Testimony of Company
3 witness Ms. Kelly A. Bloch.

4
5 Q. WHAT ARE THE PRINCIPAL CHANGES IN GENERAL & INTANGIBLE CAPITAL
6 COSTS?

7 A. The MYRP Forecast revenue requirements include a \$42.6 million increase to
8 General & Intangible. This increase is due to capital investments relating to
9 replacing aging technology, addressing evolving cyber security threats and
10 requirements, enhancing capabilities, enhancing the customer experience,
11 addressing emergent demands, and the AGIS initiative. Additional
12 information regarding general and intangible projects is discussed in the
13 Direct Testimony of Company witness Mr. David C. Harkness.

14
15 Q. PLEASE DESCRIBE THE PRINCIPAL CHANGES IN COST OF CAPITAL.

16 A. The MYRP Forecast revenue requirements include a \$72.9 million increase
17 related to changes in cost of capital. The change in cost of capital is due to a
18 requested 10.2 percent return on equity (ROE), partially offset by a decrease
19 in the cost of long-term debt. Company witness Ms. Sarah Soong describes
20 the capital structure and costs of debt in her Direct Testimony. Company
21 witness Mr. John J. Reed of Concentric Energy Advisors, Inc. discusses the
22 ROE.

23
24 Q. PLEASE DESCRIBE THE PRINCIPAL CHANGES IN AMORTIZATIONS.

25 A. The MYRP Forecast revenue requirements include a small (\$3.5 million)
26 increase related to amortizations. This increase is due to new amortizations

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 for Aurora Deferral (discussed in adjustment 15 below) and Net Operating
2 Loss (NOL) Tax Reform Regulatory Amortization (discussed in adjustment
3 17 below), as well as an increase in Rate Case Expense amortization.

4
5 Q. PLEASE DESCRIBE THE PRINCIPAL CHANGES IN TAXES.

6 A. The MYRP Forecast revenue requirements include a \$166.9 million decrease
7 to taxes. This decrease is due to the impacts of TCJA, increased Production
8 Tax Credits (PTC) associated with new wind farms, and a decrease in
9 property taxes. The decrease related to the TCJA is currently being refunded
10 to customers in base rates effective June 1, 2019 as a result of the
11 Commission decision in Docket No. E,G999/CI-17-895. Additional
12 information regarding property taxes is discussed in the Direct Testimony of
13 Company witness Mr. Christopher A. Arend.

14
15 Q. PLEASE DESCRIBE THE PRINCIPAL CHANGES IN O&M COSTS.

16 A. Table 5 below compares the MYRP Forecast revenue requirements with the
17 comparable revenue requirements for the 2019 MYRP, by category, for
18 operating expenses as shown on Schedule 6, Detailed Case Drivers.

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

Table 5

O&M Cost Changes (\$ in millions)

	Increase (Decrease) 2020 TY to 2019 MYRP	Increase (Decrease) 2021 TY to 2020 TY	Increase (Decrease) 2022 TY to 2021 TY	3-Year MYRP
Nuclear	(\$60.3)	\$6.9	\$2.3	(\$51.1)
Steam	(36.3)	3.2	(6.2)	(39.3)
Wind	7.1	1.8	3.8	12.7
Purchased Demand	2.3	4.8	7.7	14.8
All Other Production	7.7	7.1	1.6	16.4
Transmission	(1.7)	(1.6)	0.1	(3.1)
Transmission Interchange	(22.9)	5.4	7.2	(10.4)
Distribution	3.1	17.9	(5.1)	15.9
Regional Markets	3.3	0.0	0.1	3.4
Customer Accounting / Info / Service	(1.7)	(0.0)	(5.0)	(6.7)
A&G	22.5	5.3	8.0	35.9
TOTAL O&M	(\$76.9)	\$50.8	\$14.5	(\$11.6)

Q. WHAT ARE THE REASONS FOR THE DECREASE IN NUCLEAR OPERATIONS OPERATING EXPENSE?

A. The MYRP Forecast revenue requirements include a \$51.1 million decrease in nuclear operating expenses. This decrease is due to reductions in contractor costs and materials as several major initiatives have ended, as well as an overall reduction in outage costs. Additional information regarding nuclear operating expenses is discussed in the Direct Testimony of Company witness Mr. Timothy J. O'Connor.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. WHAT ARE THE REASONS FOR THE DECREASE IN STEAM OPERATING EXPENSE?

2 A. The MYRP Forecast revenue requirements include a \$39.3 million decrease in
3 steam operating expenses. This decrease is due to a reduction in overhaul
4 costs, elimination of biomass plants, and labor attrition due to planned
5 retirements. Additional information regarding steam operating expenses is
6 discussed in the Direct Testimony of Mr. Capra.

7

8 Q. WHAT ARE THE REASONS FOR THE INCREASE IN ADMINISTRATIVE AND
9 GENERAL (A&G) OPERATING EXPENSE?

10 A. The MYRP Forecast revenue requirements include a \$35.9 million increase in
11 A&G operating expenses. This increase is due to increased investments in
12 Business Systems and Enterprise Security related to the Company's additional
13 investments in AGIS and the customer experience, software licensing cost
14 increases, and networking costs. Additionally, the Company's insurance costs
15 have decreased. Additional information regarding Business Systems O&M is
16 discussed in the Direct Testimony of Mr. Harkness. Additional information
17 regarding insurance costs is provided by Company witness Mr. Robert L.
18 Miller.

19

20 Q. PLEASE DESCRIBE HOW CHANGES IN SALES RELATE TO THE RATE INCREASE.

21 A. As discussed by Company witness Ms. Jannell E. Marks, actual sales have
22 declined from 2016 levels and are expected to continue to decline through
23 2022. Ms. Marks explains that the projected decrease is a result of declining
24 Residential and Commercial and Industrial sales. Consequently, the
25 Company's retail revenues are also expected to decrease, increasing the 2020
26 revenue deficiency.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. ARE THERE ANY OTHER MARGIN ITEMS WITH A SIGNIFICANT IMPACT ON THE
2 2020 REVENUE DEFICIENCY?

3 A. Yes. As discussed above with respect to taxes, the impacts of the TCJA are
4 currently being refunded to customers in base rates effective June 1, 2019,
5 which is driving a decrease in revenue compared to the 2019 MYRP. This is
6 partially offset by the 2016-2019 MYRP rate case settlement impacts and
7 interchange revenue credits.

8

9 Q. ARE THE FUNCTIONAL CLASS CATEGORIES OF OPERATING EXPENSE
10 COMPARABLE BETWEEN THE 2020 TEST YEAR AND DOCKET NO. E002/GR-
11 15-826 2019 PLAN YEAR?

12 A. Yes. Budget amounts for both periods conform to the Federal Energy
13 Regulatory Commission (FERC) Uniform System of Accounts. To better
14 show cost drivers, especially as they relate to operating margins, some
15 reclassifications are made in the cost driver analysis from the Jurisdictional
16 Cost of Service Study.

17

18 Q. DID YOU INCLUDE COMPARISONS OF THE CHANGE IN THE FUEL AND
19 PURCHASED ENERGY EXPENSE AS PART OF THE O&M EXPENSE ANALYSIS?

20 A. No. Although the cost of fuel and purchased energy are considered to be an
21 operating expense, recovery occurs through the Company's separate fuel
22 clause adjustment (FCA) mechanism and true-up process. I provide a
23 reconciliation of fuel costs and revenues in Exhibit___(BCH-1), Schedule 21,
24 Fuel Reconciliation.

25

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

III. SUPPORTING INFORMATION

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

Q. WHAT TOPICS DO YOU DISCUSS IN THIS SECTION OF YOUR TESTIMONY?

A. In this section, I provide information related to data provided in our application, the selection of the test year and the jurisdictional cost of service study.

A. Data Provided and Selection of the Test Year

Q. WHAT TOPICS DO YOU DISCUSS IN THIS SECTION OF YOUR TESTIMONY?

A. In this section, I will:

- identify the supporting financial information and related fiscal periods that we are providing in connection with the MYRP Forecast; and
- demonstrate that the supporting financial information and related fiscal periods that we are presenting provide appropriate information and facilitate review of our MYRP Forecast.

1) Overview

Q. PLEASE DEFINE THE FISCAL PERIODS FOR WHICH FINANCIAL DATA IS PROVIDED IN THIS PROCEEDING.

A. Following the Commission’s rules, financial data is provided for 2018 (the most recent fiscal year), 2019 (the projected fiscal year), and 2020 (the test year). In addition, we provide financial data to support the MYRP Forecast. The most recent fiscal year (calendar year 2018) reflects the Company’s actual financial results. For the projected fiscal year 2019, actual financial results through June 2019 are provided as rate base data, operating expenses and revenues. Forecast projections are provided for the remainder of 2019.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 The MYRP Forecast reflects the Company's most recent available budget
2 data.

3
4 All fiscal periods provided in this testimony are adjusted for traditional
5 regulatory adjustments (e.g., charitable donations, etc.).

6
7 I also provide schedules showing: the actual unadjusted average rate base
8 consisting of the same rate base components; unadjusted operating income;
9 overall rate of return; the calculation of required income; and the income
10 deficiency and revenue requirements for the most recent fiscal year (2018), the
11 projected fiscal year (2019), and the MYRP Forecast. Separate rate base and
12 income statement bridge schedules for the MYRP Forecast that identify test
13 period adjustments are provided with my testimony.

14
15 2) *MYRP Forecast*

16 Q. WHAT WAS THE BASE SOURCE FOR THE PROPOSED MYRP FORECAST COSTS?

17 A. Calendar year 2020 was selected as the test year for this filing using Xcel
18 Energy's most recent available budget data for the first year of the budget
19 cycle. Use of a fully projected calendar test year (2020) is consistent with
20 longstanding practice and precedent in the Company's rate cases before the
21 Commission.

22
23 The 2021 and 2022 plan years reflect year two and three from the most recent
24 available budget information, of which the 2020 test year is year one. Unlike
25 our last rate case, our plan year O&M is based on the budget for those years
26 as opposed to using escalations from the test year budget. Using the same

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 budget vintage for the test year and plan years allows for a consistent MYRP
2 Forecast.

3
4 The 2020-2022 Budget is supported in Mr. Robinson's Direct Testimony and
5 provided in Volumes 5 (Budget Summary and Documentation) and 6 (Budget
6 Documentation) of the Application.

7
8 Q. DOES THE COMPANY ANTICIPATE UPDATING SOME OF ITS INFORMATION IN
9 REBUTTAL TESTIMONY?

10 A. Yes. Consistent with prior cases, we will update certain costs to incorporate
11 updated information. More specifically, as in our last rate case, we will review
12 the following and update in this case as appropriate.

- 13 • Cost of capital to reflect the most currently available data;
- 14 • Current customer count and sales information and expected trends that
15 might indicate that adjustments to the sales and customer counts
16 forecast are needed;
- 17 • Assumptions used for calculating Qualified Pension, FAS 106 retiree
18 medical and FAS 112 post-employment benefits expense based on
19 information as of December 31, 2019;
- 20 • O&M active health care may be updated to reflect actual 2019 active
21 medical and pharmacy claims;
- 22 • Property tax forecasts based upon property tax data that will become
23 available during 2020.

24

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. IN ADDITION TO THE UPDATES LISTED ABOVE THAT WILL REFLECT THE MOST
2 CURRENT AVAILABLE DATA IN THE TEST YEAR, DO YOU ANTICIPATE ANY
3 OTHER ADJUSTMENTS IN REBUTTAL TESTIMONY?

4 A. Yes. As discussed in further detail in Section VII, Annual Adjustments to the
5 MYRP Forecast, Part F. Rebuttal Adjustments, of my testimony, we have
6 identified certain adjustments that may be necessary. We have made these
7 known adjustments for purposes of interim rates, and we will make
8 adjustments for final rates in our Rebuttal Testimony.

9

10 3) *Supporting Information and the 2020 Projected Test Year*

11 Q. WHY DOES THE COMPANY USE 2018 AS ITS MOST RECENT FISCAL YEAR
12 INSTEAD OF 2019?

13 A. Minn. R. 7825.3100, Subp. 10 provides the following definition:

14

15 Most recent fiscal year” is the *utility’s prior fiscal year [here, 2018] unless*
16 *notice of a change in rates is filed with the commission within the*
17 *last three months of the current fiscal year and at least nine months of*
18 *historical data is available for presentation of current fiscal year financial*
19 *information, in which case the most recent fiscal year is deemed to be*
20 *the current fiscal year [here 2019]. (Emphasis added.)*
21

22 In this proceeding, the Company’s most recent fiscal year is 2018, and its
23 current fiscal year is 2019. The Company’s “most recent fiscal year” is also
24 2018, as the two exceptions to the rule that would instead convert 2019 into
25 the most recent fiscal year are not fulfilled here. While the Company is filing
26 this rate case within the last three months of 2019, nine months of actual
27 2019 data is “not available for presentation.” Since that requirement cannot
28 be met, the plain language of the Rule directs the Company to use 2018 as the

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 most recent fiscal year, consistent with the Company’s long standing
2 approach.

3
4 Nothing in the Rule requires the Company to delay its filing until additional
5 2019 data becomes available or to accelerate the availability of the actual data
6 to include nine months of actual data with the filing. Rather, Minn. R.
7 7825.3100, Subp. 10 requires the Company to treat 2018 as the prior fiscal
8 year and Minn. R. 7825.3100, Subp. 12 requires that we treat 2019 as the
9 projected fiscal year.

10
11 Q. IS THIS APPROACH ALSO CONSISTENT WITH THE COMPANY’S PAST PRACTICES
12 THAT HAVE BEEN ACCEPTED BY THE COMMISSION?

13 A. Yes. In our rate case in Docket E002/GR-12-961, the Administrative Law
14 Judge (ALJ) found that the Company’s practice was consistent with its filings
15 in past rate cases, and was in compliance with Commission rules. Therefore,
16 the ALJ supported,³ and the Commission adopted, the Company’s use of a
17 fully projected test year. Most recently, we utilized actual 2014 data as the
18 “most recent fiscal year” data in Docket No. E002/GR-15-826, as 2015 actual
19 data was not available for presentation at the time of that filing. There was no
20 issue with that approach in that case.⁴

³ ALJ Report Findings 866-873 in Docket No. E002/GR-12-961 (July 3, 2013).

⁴ We recently noted that in one case, the Commission issued a rule variance in order to permit a utility to utilize the last full calendar year (2020 data) as the “most recent fiscal year” for a rate case filed in the last two months of 2017. *In the Matter of the Application of Minnesota Energy Resources Corporation for Authority to Increase Rates for Natural Gas Service in Minnesota*, ORDER ACCEPTING FILING, SUSPENDING RATES, EXTENDING TIMELINE, AND VARYING RULE, Docket No. G011/GR-15-736 (Dec. 5, 2017). We do not believe a variance is necessary here, just as it has not been necessary in prior NSPM rate cases, because utilizing 2018 data is consistent with the Minnesota Rule under the circumstances of this filing. But if the

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. DOES THE COMPANY'S PRACTICE RESULT IN LESS INFORMATION BEING
2 INCLUDED IN THE FILING?

3 A. No. The Company filed information for 2018 (the most recent fiscal year),
4 2019 (the projected year), the unadjusted 2020 year, the adjusted 2020 test
5 year, and the 2021-2022 plan years. Definitions and financial schedules
6 related to 2018 actual and 2019 projections are included in the following
7 locations.

8 • Volume 3, Required Information, Section II:

9 - Tab 2, Jurisdictional Financial Summary Schedules, Schedule A-1

10 - Tab 3, Rate Base Schedules, Section A, Schedule A-1

11 - Tab 3, Rate Base Schedules, Section B, Schedule B-2

12 - Tab 3, Rate Base Schedules, Section E, Schedule E, Page 2

13 - Tab 4, Operating Income Schedules, Section A, Schedule A-1

14 - Tab 4, Operating Income Schedules, Section B, Schedule B-1

15 - Tab 4, Operating Income Schedules, Section C, Schedules C-1 and C-3

16 - Tab 4, Operating Income Schedules, Section F, Schedule F, Page 2

17 - Tab 5, Rate of Return Cost of Capital Schedules, Sections A-D;

18 • Exhibit____(BCH-1), Schedule 7, Comparison of Detailed Rate Base
19 Components;

Commission determines that a variance is necessary, the Company requests a variance under Minn. R. 7829.3200, because (i) the Company began preparing this rate case filing several months before the requisite data was available for 2019, and it would be an excessive burden on the utility to wait to file the case or refile the case when 2019 data is available (and would not align with a calendar year test year); (ii) granting the variance would not adversely affect the public interest, because NSPM has used this approach in the past with the same extensive data, and it has resulted in just and reasonable rates; and (iii) granting the variance would not conflict with standards imposed by law.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

- 1 • Exhibit___(BCH-1), Schedule 8, Comparison of Detailed Income
2 Statement Components.

3
4 **B. Jurisdictional Cost of Service Study**

5 Q. WHAT TOPICS DO YOU DISCUSS IN THIS SECTION OF YOUR TESTIMONY?

6 A. In this section, I will explain the jurisdictional cost of service studies that we
7 prepared for the MYRP Forecast.

8
9 Q. PLEASE DESCRIBE THE COMPONENTS OF THE JURISDICTIONAL COST OF
10 SERVICE STUDY FOR THE MYRP Forecast.

11 A. A summary of the jurisdictional cost of service study for the MYRP Forecast
12 is provided in Schedule 2, Summary of Revenue Requirements. The complete
13 jurisdictional cost of service study for the MYRP Forecast are provided in
14 Schedules 3, Cost of Service Study Summary, and in Volume 4 (MYRP
15 Workpapers) of this filing and include all the adjustments discussed in my
16 Direct Testimony.

17
18 The jurisdictional cost of service study includes the following financial data
19 input sections, for both Total Company and the Minnesota Jurisdiction:
20 (i) capital structure; (ii) cost of capital; (iii) income tax rates; (iv) rate base; (v)
21 income statement; (vi) income tax calculations; and (vii) cash working capital.

22
23 Q. PLEASE DESCRIBE THE JURISDICTIONAL COST OF SERVICE SUMMARY
24 SCHEDULES.

25 A. The jurisdictional cost of service summary for each year of the MYRP
26 Forecast is included as Schedule 3, Cost of Service Study Summary:

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

- 1 • The Rate Base Summary for Total Company electric operations and the
2 Minnesota jurisdiction is shown on Page 1. It provides the assumed
3 capital structure, including the earned overall rate of return on rate base
4 and the earned ROE. The Rate Base Summary references a calculation
5 of cash working capital, which is detailed in Exhibit ___(BCH-1),
6 Schedule 4 (Cash Working Capital), and Volume 4, Section P10, Cash
7 Working Capital.
- 8 • An Income Statement for Total Company electric operations and the
9 Minnesota jurisdiction is shown on Page 2 and Page 3. The income
10 statement shows the determination of total operating income at present
11 authorized retail rates. The Income Statement references calculations
12 for federal and state income taxes, which are detailed on Page 3.
- 13 • The Revenue Requirement and Return Summary for Total Company
14 electric operations and the Minnesota jurisdiction is shown on Page 4.
15 It shows the revenue deficiency that needs to be recovered to enable
16 the Minnesota jurisdiction electric operations to earn the requested rate
17 of return on equity (ROE) and the total revenue requirements and the
18 percent of increase that would result by increasing retail billing rates by
19 the amount of the revenue deficiency.

20
21 Q. ARE THE REVENUE CONVERSION FACTOR CALCULATION AND THE
22 MINNESOTA COMPOSITE INCOME TAX RATES INCLUDED IN THIS FILING?

23 A. Yes. The revenue conversion factor calculation is included in Volume 3, Tab
24 B of the Other Supplemental Information; and composite income tax rates
25 are included in Volume 3, Tab C, Schedule C-5, of the Operating Income
26 Schedules.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. PLEASE EXPLAIN HOW THE INTEREST DEDUCTION FOR DETERMINING
2 TAXABLE INCOME IS CALCULATED.

3 A. The amount of interest deducted for income tax purposes is the weighted cost
4 of debt capital multiplied by the average rate base. This is sometimes called
5 “interest synchronization.” The MYRP calculation for the interest
6 synchronization is provided in Schedule 3, Cost of Service Summary, line 110.

7

8 Q. WHICH SCHEDULES IN YOUR EXHIBIT ARE RELATED TO RATE BASE?

9 A. I have provided three schedules related to rate base: Schedule 7, Comparison
10 of Detailed Rate Base Components; Exhibit____(BCH-1) Schedules 10a-10c,
11 2020-2022 Rate Base Adjustment Schedule; and Exhibit____(BCH-1) Schedule
12 9, Rate Base, CWIP and ADIT Summary. I discuss these schedules in Section
13 IV, Rate Base and Section VII, Annual Adjustments to the Test Year.
14 Additional comparative rate base schedules are provided in Volume 3,
15 Required Information.

16

17 Q. WHICH SCHEDULES IN YOUR EXHIBIT ARE RELATED TO THE INCOME
18 STATEMENT?

19 A. I have provided two schedules related to the income statement: Schedule 8,
20 Comparison of Detailed Income Statement Components, and
21 Exhibit____(RAC-1), Schedules 11a-11c, 2020-2022 Income Statement
22 Adjustment Schedule. I discuss these schedules in Section V, Income
23 Statement and Section VII, Annual Adjustments to the Test Year. Additional
24 comparative income statement schedules are provided in Volume 3, Required
25 Information.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

IV. RATE BASE

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

Q. WHAT TOPICS DO YOU ADDRESS IN THIS SECTION OF YOUR TESTIMONY?

A. In this section of my testimony, I support the reasonableness of the Company's projected 2020-2022 MYRP rate base and identify and explain how the components of the rate base were determined. I begin by providing the overall rate base calculation and identify its components, then walk through each of the MYRP Forecast components of rate base in turn.

Q. IS THE COMPANY'S PROJECTED 2020 TEST YEAR RATE BASE REASONABLE FOR PURPOSES OF DETERMINING FINAL RATES IN THIS PROCEEDING?

A. Yes. The projected 2020-2022 MYRP rate base for the Company's Minnesota jurisdiction electric operations was developed on sound ratemaking principles in a manner similar to prior Company electric rate cases.

Q. PLEASE EXPLAIN WHAT RATE BASE REPRESENTS.

A. Rate base primarily reflects the capital expenditures made by a utility to secure plant, equipment, materials, supplies and other assets necessary for the provision of utility service, reduced by amounts recovered from depreciation and non-investor sources of capital.

Q. PLEASE IDENTIFY THE MAJOR COMPONENTS OF THE PROJECTED 2020-2022 MYRP RATE BASE.

A. The MYRP rate base is generally comprised of the following major items, which I later describe in detail:

- Net Utility Plant,

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

- 1 • Construction Work in Progress,
- 2 • Accumulated Deferred Income Taxes,
- 3 • Pre-Funded Allowance for Funds Used During Construction
- 4 (AFUDC), and
- 5 • Other Rate Base.

6

7 Q. HOW DOES THE COMPANY CALCULATE RATE BASE?

8 A. The Company's rate base can be expressed using the breakdown on Page 27
9 of the "Electric Utility Cost Allocation Manual" of the National Association
10 of Regulatory Utility Commissioners (NARUC) as follows:

11

12 Original Average Cost of Electric Plant in Service (Plant)
13 Less: Average Accumulated Depreciation Reserve (Reserve)
14 Less: Average Accumulated Provision for Deferred Taxes
15 (net of accts 281-283 and 190) (ADIT)
16 Plus: Average Construction Work in Progress (CWIP)
17 Plus: Average Working Capital (Work Cap)
18 Equals: Rate Base

19

20 In this case, the calculation is as follows, using the average of the beginning
21 of year (BOY) and end of year (EOY) balances for the test year:

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1	Plant	\$19,958,469	(per BCH-1, Schedule 3, Page 1, Line 23)
2	Reserve	(9,295,420)	(per BCH-1, Schedule 3, Page 1, Line 24)
3	ADIT	(2,301,002)	(per BCH-1, Schedule 3, Page 1, Line 32)
4	CWIP	363,989	(per BCH-1, Schedule 3, Page 1, Line 26)
5	<u>Other Rate Base</u>	<u>260,864</u>	(per BCH-1, Schedule 3, Page 1, Line 42)
6	Rate Base	\$8,986,901	(thousands of dollars)

7

8 Q. PLEASE DESCRIBE THE SCHEDULES IN YOUR EXHIBIT THAT ARE RELATED TO
9 THE TEST YEAR AVERAGE INVESTMENT IN RATE BASE.

10 A. Schedule 7, Comparison of Detailed Rate Base, provides a detailed statement
11 of the rate base components. Page 1 provides a comparison of the rate base
12 components for the 2020 test year, to the 2019 plan year used in our most
13 recent rate case. Page 2 provides the rate base components for the MYRP
14 Forecast.

15

16 Schedule 9, Rate Base, CWIP and ADIT Summary, Page 1 of 4, shows a
17 detailed average rate base by component for the 2020 test year for the
18 Minnesota jurisdiction and Total Company, before and after making
19 proposed test period adjustments. Page 2 shows the 2021 and 2022 plan
20 year detailed average rate base by component for the Minnesota jurisdiction
21 and Total Company. Page 3 shows the MYRP Forecast average Construction
22 Work in Progress for the Minnesota jurisdiction and Total Company, before
23 and after making proposed test period adjustments. Page 4 shows the MYRP
24 Forecast for accumulated deferred income taxes for the Minnesota
25 jurisdiction and Total Company, before and after making proposed test
26 period adjustments.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Schedules 10a-10c, 2020-2022 Test/Plan Year Rate Base Adjustment
2 Schedules, are a bridge schedule showing the 2020-2022 unadjusted rate base,
3 each proposed rate base adjustment, and the resulting proposed 2020-2022
4 test/plan year rate base.

5
6 **A. Net Utility Plant**

7 Q. WHAT DOES NET UTILITY PLANT REPRESENT?

8 A. Net utility plant represents the Company's investment in plant and equipment
9 that is used and useful in providing retail electric service to its customers, net
10 of accumulated depreciation and amortization.

11
12 Q. PLEASE EXPLAIN THE METHOD USED TO CALCULATE NET UTILITY PLANT
13 INVESTMENT IN THIS CASE.

14 A. The net utility plant is included in rate base at depreciated original cost
15 reflecting the simple average of projected net plant balances at the beginning
16 and end of the 2020 test year. Such treatment is consistent with the method
17 employed in the most recent Minnesota electric rate case.

18
19 Q. WHAT HISTORICAL BASE DID THE COMPANY USE AS A STARTING POINT TO
20 DEVELOP THE PROJECTED NET PLANT BALANCES FOR THE BEGINNING OF THE
21 2020 TEST YEAR?

22 A. The historical base used for the beginning of the 2020 test year was the
23 Company's actual net investment (Plant in Service less Accumulated
24 Depreciation) on the Company's books and records as of June 30, 2019 plus
25 the forecast for the remaining months of 2019.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. ON WHAT BASIS WERE NET PLANT BALANCES PROJECTED FOR THE END OF THE
2 2020 TEST YEAR?

3 A. The 2020 test year ending net plant balances were determined by applying the
4 data contained in the 2020 capital budget to the above-described beginning
5 test year balances, adjusted for retirements, depreciation, salvage and removal
6 costs projected to occur during the 2020 test year.

7

8 Q. WHAT WAS THE AVERAGE NET UTILITY PLANT INCLUDED IN THE 2020 TEST
9 YEAR RATE BASE?

10 A. The average net utility plant included in the 2020 test year rate base is \$10.663
11 billion, as shown on Schedule 7, Comparison of Detailed Rate Base
12 Components. This is comprised of an average plant balance of \$19.958
13 billion as detailed on Schedule 7, minus an average depreciation reserve of
14 \$9.295 billion, also shown by component on Schedule 7.

15

16 **B. Construction Work In Progress**

17 Q. WHAT IS CONSTRUCTION WORK IN PROGRESS (CWIP)?

18 A. In Minnesota, construction work in progress (CWIP) is included as part of
19 the revenue requirement calculation for base rates. CWIP is the accumulation
20 of construction costs that directly relate to putting a fixed asset into use.

21

22 Q. HAS CWIP BEEN INCLUDED IN THE 2020 TEST YEAR RATE BASE?

23 A. Yes. CWIP is included in rate base with a corresponding offset of AFUDC
24 added to operating income, except where the Company is allowed to earn a
25 current return. The rate base amount reflects a simple average of projected
26 CWIP beginning and ending 2020 test year balances. This is consistent with

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 the method employed in Minnesota and approved by the Commission in the
2 Company's last rate case and matches the use of an average rate base. The
3 CWIP and AFUDC determinations for rate base are discussed in the Direct
4 Testimony of Company witness Ms. Laurie J. Wold.

5
6 Q. HOW WERE THE 2020 TEST YEAR BEGINNING AND ENDING CWIP BALANCES
7 DETERMINED?

8 A. The beginning balance for CWIP was the June 30, 2019 historical balance.
9 The beginning CWIP balance was adjusted to reflect projected construction
10 expenditures, AFUDC, and transfers to Plant in Service during the remainder
11 of 2019 and in 2020 to obtain the beginning and ending 2020 test year CWIP
12 balance. These projections were developed from the Company's 2020 capital
13 budget.

14
15 **C. Accumulated Deferred Income Taxes**

16 Q. PLEASE DESCRIBE ACCUMULATED DEFERRED INCOME TAXES (ADIT).

17 A. Inter-period differences exist between the book and taxable income treatment
18 of certain accounting transactions. These differences typically originate in
19 one period and reverse in one or more subsequent periods. For utilities, the
20 largest such timing difference typically is the extent to which accelerated
21 income tax depreciation generally exceeds book depreciation during the early
22 years of an asset's service life. ADIT represents the cumulative net deferred
23 tax amounts that have been allowed and recovered in rates in previous
24 periods.

25

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. WHY IS ADIT DEDUCTED IN ARRIVING AT TOTAL RATE BASE?

2 A. To the extent income taxes recovered in rates are deferred for later payment,
3 they represent a prepayment by customers, a non-investor source of funds.
4 The average projected ADIT balance is deducted in arriving at total rate base
5 to recognize such funds are available for corporate use between the time they
6 are collected in rates and ultimately remitted to the respective taxing
7 authorities.

8

9 Q. WHAT AMOUNT OF ADIT WAS DEDUCTED TO ARRIVE AT THE 2020-2022
10 MYRP RATE BASE?

11 A. As shown on Schedule 7, Comparison of Detailed Rate Base Components,
12 \$2.301 billion was deducted. This amount reflects a simple average of the
13 projected beginning and ending 2020 test year ADIT balances, and
14 incorporates Internal Revenue Service (IRS) tax regulations. Specifically, Sec.
15 1.167(l) of the tax code defines a pro-rated schedule for the extent average
16 accumulated deferred income taxes can be used to reduce rate base to comply
17 with the tax normalization requirements of the Code when forecast
18 information is used to set rates. Details related to ADIT are provided in
19 Schedule 9, Rate Base, CWIP and ADIT Summary, on Page 4 of 4.

20

21 Q. HOW DID THE FEDERAL TAX CUT AND JOBS ACT (TCJA) AFFECT THE
22 PROPOSED MYRP ADIT IN RATE BASE?

23 A. The Commission's Order in Docket No. E,G999/CI-17-895 requires that the
24 Company amortize its protected excess ADIT as early as IRS provisions allow
25 (using the Average Rate Assumption Method, or ARAM), and amortize
26 unprotected excess ADIT over ten years. This ADIT is included in the

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 amount shown on Schedule 7, Comparison of Detailed Rate Base
2 Components, Page 1. A summary of the TCJA's effect on the deferred taxes
3 associated with plant assets of a regulated activity is discussed in the Direct
4 Testimony of Ms. Wold. Support for the unprotected excess ADIT can be
5 found in Volume 4 MYRP Workpapers, Section III Rate Base (Plant), Tab
6 P2-3.

7
8 **D. Pre-Funded AFUDC**

9 Q. WHAT IS PRE-FUNDED AFUDC?

10 A. In Minnesota, AFUDC is included as part of the revenue requirement
11 calculation for base rates. Specifically, during construction, AFUDC is
12 calculated and included in the CWIP balance and is also included in operating
13 income as an offset to the revenue requirement. AFUDC is added to the cost
14 of related capital projects and is reflected in rate base when the related capital
15 project is placed into service. Once a project is placed in service, the
16 recording of AFUDC ceases, and the total capital cost of the project
17 including accumulated AFUDC is recovered through depreciation.

18
19 However, certain rate riders in Minnesota (*e.g.*, the TCR Rider and the
20 Renewable Energy Standards Rider (RES)) include a current return on CWIP
21 as part of the revenue requirement calculation for the rider. The capital
22 projects associated with those riders do not include the accumulated (pre-
23 funded) AFUDC as part of rate base. Pre-funded AFUDC is the Minnesota
24 jurisdictional amount of AFUDC related to those rate riders.

25

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. HOW IS PRE-FUNDED AFUDC TREATED?

2 A. Pre-funded AFUDC is calculated and credited against the total jurisdictional
3 AFUDC to prevent double-counting. This treatment, in effect, reduces the
4 income offset provided by AFUDC and reduces the accumulated AFUDC
5 that is added to rate base when a project is placed into service. The Company
6 tracks Pre-funded AFUDC and the non-rider AFUDC separately so that the
7 Minnesota jurisdictional customers are assured of receiving the entire benefit
8 in lower fixed asset costs during the in-service period for the assets included
9 in rate riders. In this way, we ensure that costs are recovered in the
10 appropriate jurisdictions, pursuant to their specific ratemaking procedures.

11

12 Q. HOW DOES THE COMPANY ACCOUNT FOR PRE-FUNDED AFUDC?

13 A. Pre-funded AFUDC is recorded in FERC Account No. 253, Other Deferred
14 Credits, during the construction process as AFUDC is incurred, separated by
15 rate jurisdiction within this FERC account. Pre-funded AFUDC is related to
16 projects recovering a current return on CWIP from customers in Minnesota
17 and wholesale transmission customers who pay our FERC-regulated
18 Midcontinent Independent System Operator (MISO) Attachment O and
19 Schedule 26 rates. Once the associated asset is placed into service, the Pre-
20 Funded AFUDC balance is amortized over the same time period as the
21 associated asset.

22

23 Q. HOW HAVE YOU TREATED PRE-FUNDED AFUDC IN THE 2020-2022 MYRP?

24 A. All Minnesota jurisdictional Pre-funded AFUDC has been directly assigned to
25 the Minnesota jurisdiction, according to the functional class of the associated
26 asset for CWIP, Depreciation Reserve, Plant in Service and ADIT in rate base,

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 and to depreciation and deferred taxes, and AFUDC on the income
2 statement. Accumulated Pre-funded AFUDC is a reduction to rate base, with
3 the amortization of the Pre-funded AFUDC balance being a reduction to
4 depreciation expense. The deferred taxes associated with Pre-funded
5 AFUDC create a deferred tax asset during construction that flows back as the
6 book amortization is recognized. These Pre-funded AFUDC items are at a
7 jurisdictional level; thus the offset is made once the rate base and the income
8 statement are jurisdictionalized. The Pre-funded AFUDC recorded and
9 budgeted associated with our MISO transmission tariff have been allocated to
10 Minnesota, North Dakota and South Dakota jurisdictions based on 12
11 coincident peak demand. This allocation method is consistent with treatment
12 of the underlying transmission assets and their associated expenses and
13 revenues.

14
15 **E. Other Rate Base**

16 Q. PLEASE SUMMARIZE THE ITEMS YOU HAVE INCLUDED IN OTHER RATE BASE.

17 A. Other Rate Base is comprised primarily of Working Capital. It also includes
18 certain unamortized balances that are the result of specific ratemaking
19 amortizations, as discussed below in my testimony.

20
21 Q. PLEASE EXPLAIN WHAT WORKING CAPITAL REPRESENTS.

22 A. Working Capital is the average investment in excess of net utility plant
23 provided by investors that is required to provide day-to-day utility service. It
24 includes items such as materials and supplies, fuel inventory, prepayments, and
25 various non-plant assets and liabilities. The net cash requirement (referred to
26 as Cash Working Capital) is shown separately.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. HOW WERE 2020-2022 MYRP MATERIALS AND SUPPLIES AND FUEL
2 INVENTORY REQUIREMENTS CALCULATED?

3 A. The Materials and Supplies and Fuel Inventory amounts shown on Schedule 3
4 Page 1, Cost of Service Study Summary, are based on the 13-month average
5 balances ending June 30, 2019, the most recent data available. The Materials
6 and Supplies average balance included in the MYRP rate base equals \$154
7 million. The MYRP average rate base amount for Fuel Inventory is \$66
8 million.

9

10 Q. HOW WERE 2020-2022 MYRP NON-PLANT ASSETS AND LIABILITIES
11 DETERMINED?

12 A. These balances as shown on Schedule 3 Page 1, Cost of Service Study
13 Summary represent 2020-2022 estimates of these balances. Any book/tax
14 timing differences associated with these items have been reflected in the
15 determination of current and deferred income tax provision and ADIT
16 balances previously discussed. The Non-Plant Assets and Liabilities average
17 balance are included on Schedule 3, Cost of Service Study Summary Page 1,
18 Line 37 for each year of the MYRP Forecast.

19

20 Q. HOW WERE 2020-2022 MYRP PREPAYMENTS AND OTHER WORKING CAPITAL
21 ITEMS DETERMINED?

22 A. Prepayments and Other Working Capital, such as customer advances and
23 deposits, are based on the actual 13-month average balances during the period
24 ended June 30, 2019, as a proxy for the 2020-2022 MYRP. Our nuclear
25 outage amortization is also included in Other Working Capital. The average
26 rate base for nuclear outage amortization is based on the average of the

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 beginning of year and end of year balances. The unamortized balances
2 included in this section are based on the amortization schedules as described
3 in Section IV. The Prepayments and Other Working Capital average balances
4 are included on Schedule 3, Cost of Service Study Summary Page 1, Lines 38-
5 40 for each year of the MYRP Forecast.

6
7 Q. HOW WERE THE MYRP FORECAST CASH WORKING CAPITAL REQUIREMENTS
8 DETERMINED?

9 A. Cash Working Capital requirements have been determined by applying the
10 results of a comprehensive lead/lag study to the projected MYRP Forecast
11 revenues and expenses.

12
13 Q. WERE THE COMPONENTS OF THE MYRP Forecast CASH WORKING CAPITAL
14 CALCULATED CONSISTENT WITH METHODS USED IN THE LAST RATE CASE?

15 A. Yes. The MYRP Forecast cash working capital has been calculated consistent
16 with methods accepted in our most recent Minnesota electric rate case.

17
18 Q. PLEASE BRIEFLY EXPLAIN HOW A LEAD/LAG STUDY MEASURES CASH WORKING
19 CAPITAL.

20 A. A lead/lag study is a detailed analysis of the time periods involved in the
21 utility's receipt and disbursement of funds. The study measures the difference
22 in days between the date services to a customer are rendered and the revenues
23 for that service are received, and the date the costs of rendering the services
24 are incurred until the related disbursements are actually made.

25

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. HAS XCEL ENERGY'S LEAD/LAG STUDY BEEN UPDATED SINCE THE LAST
2 ELECTRIC RATE CASE?

3 A. Yes. The Company has updated the lead/lag study for the calculation of the
4 lead and lag days for all categories through year end 2018, using the
5 methodology for calculating the lead/lag days consistent with the Company's
6 prior electric and gas regulatory filings. The results of the updated lead/lag
7 study for electric operations were incorporated into the Minnesota
8 jurisdiction cash working capital calculations as shown on Schedule 3, Cost of
9 Service Study Summary, Page 1.

10

11 Q. WHAT ARE THE MYRP FORECAST CASH WORKING CAPITAL AMOUNTS?

12 A. The amounts included as reduction in average rate base in the MYRP
13 Forecast are based on the results of our lead lag study prepared consistently
14 with previous rate cases. The resulting Cash Working Capital amounts are as
15 follows:

- 16 • 2020 Test Year: (\$119.1 million),
- 17 • 2021 Plan Year: (\$127.0 million),
- 18 • 2022 Plan Year: (\$140.9 million).

19

20 Q. HAS THERE BEEN A CHANGE IN THE TEST-YEAR CASH WORKING CAPITAL
21 AMOUNT SINCE THE LAST RATE CASE?

22 A. Yes. The \$119.1 million reduction in test year Cash Working Capital
23 requirement is an \$8.0 million greater reduction than the amount of the
24 reduction in the test year in the last rate case (\$111.1 million).

25

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. WHAT IS THE SOURCE OF THE CHANGE IN CASH WORKING CAPITAL?

2 A. The change in Cash Working Capital from the 2016 level is primarily due to
3 the net changes in the average expense lead and revenue lag days between the
4 two periods. Average revenue lag days decreased to 39.66 in 2020 from 41.58
5 in 2016, meaning the Company's revenues are being collected on average 1.92
6 days quicker in 2020 than in 2016. Conversely, the Company's average
7 expense lead days decreased to 55.61 in 2020 from 56.34 in 2016, meaning
8 that the Company's cash outlay for paying expenses has been shortened by an
9 average of 0.73 days. Overall, cash inflows from revenue collections exceed
10 the longer time frame for disbursing cash, giving rise to a negative cash
11 working capital balance to be included in rate base.

12

13 Q. WHAT IS THE SIGNIFICANCE OF NEGATIVE CASH WORKING CAPITAL?

14 A. A negative cash working capital indicates that overall revenue collections
15 occur sooner than the date when the associated costs of service are paid. In
16 other words, on average, more cash requirements are being provided by
17 customers and vendors. The negative cash working capital reduces rate base
18 to compensate customers for funds provided to meet cash working capital
19 requirements. It should be noted that changes in the revenues or expenses
20 could cause the cash working capital calculation to be changed. The
21 Company will update the 2020-2022 MYRP COSS accordingly.

22

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

V. INCOME STATEMENT

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

Q. WHAT TOPICS WILL YOU DISCUSS IN THIS SECTION OF YOUR TESTIMONY?

A. In this section, I will support the reasonableness of the Company’s proposed MYRP Forecast income statements. I begin by providing the overall income statement calculations and identify their components, then walk through each of the MYRP Forecast components of the income statements in turn.

Q. ARE THE COMPANY’S PROPOSED MYRP FORECAST INCOME STATEMENTS REASONABLE FOR DETERMINING FINAL RATES IN THIS PROCEEDING?

A. Yes. The proposed MYRP Forecast income statements for the Company’s Minnesota jurisdiction electric operations were developed on sound ratemaking principles in a manner similar to prior Company electric rate cases.

Q. PLEASE IDENTIFY THE MAJOR COMPONENTS OF THE PROJECTED INCOME STATEMENTS.

A. The following are the major components of the MYRP Forecast income statements:

- Revenues,
- Operating and Maintenance Expenses,
- Depreciation Expense,
- Taxes,
- AFUDC, and
- Interchange Agreement.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. PLEASE DESCRIBE THE SCHEDULES TO YOUR TESTIMONY THAT ARE RELATED
2 TO THE INCOME STATEMENT.

3 A. Schedules 11a-11c, 2020-2022 Income Statement Adjustment Schedules, are
4 bridge schedules that show the unadjusted income statement, each proposed
5 income statement adjustment, and the resulting proposed income statement
6 for each year of the MYRP Forecast. Schedules 11a-11c also include the
7 revenue deficiency amount for each item included in this schedule.

8

9 Schedule 8, Comparison of Detailed Income Statement Components,
10 provides a detailed statement of the income statement components. Page 1
11 provides a comparison of income statement components for the Company's
12 last rate case filing to the 2020 test year assuming final rates. Page 2 provides
13 the income statement components for the MYRP Forecast.

14

15 **A. Revenues**

16 Q. HOW DOES THE COMPANY PRESENT ITS PROJECTED SALES FOR THE MYRP
17 FORECAST CONSIDERED?

18 A. The MYRP Forecast sales volumes are supported by the Direct Testimony of
19 Ms. Marks. Ms. Marks discusses the bases for the Company's sales forecasts,
20 including the use of normal weather to develop the Company's projected
21 MYRP sales.

22

23 Q. DO RETAIL OPERATING REVENUES REFLECT THE PROJECTED LEVEL OF
24 UNBILLED SALES VOLUMES IN THE MYRP FORECAST?

25 A. Yes. As Ms. Marks explains, the projected level of unbilled sales is
26 incorporated into the retail sales forecast on a calendar-month basis. This

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 eliminates the need to reconcile billing-month sales to calendar-month sales
2 by recording unbilled revenues.

3
4 Q. HAVE YOU CONSIDERED OTHER OPERATING REVENUES AS AN OFFSET TO THE
5 RETAIL REVENUE REQUIREMENT?

6 A. Yes. The MYRP Forecast includes items such as revenues from sales to other
7 utilities, certain revenues from wholesale trading activities, wholesale
8 transmission revenues, and specific tariff charges, including service activation
9 fees, reconnection fees and others. In areas where the Company did not
10 budget for the collection of these tariffed charges, a representative level was
11 determined and included as part of the revenues in the cost of service study.
12 Other operating revenues also include billings to NSPW under the
13 Interchange Agreement.

14
15 Consistent with our previous rate cases, I have included an adjustment to use
16 the three-year average (2017, 2018 and 2019 Bridge) for certain other
17 revenues in the determination of the MYRP Forecast levels of Other
18 Revenues. This adjustment accounts for variability and includes other
19 unbudgeted revenue that the Company receives in an actual year that cannot
20 be anticipated for budget purposes. I discuss this revenue adjustment and
21 other adjustments to revenues in more detail in Section VII, Annual
22 Adjustments to the MYRP Forecast.

23
24 Q. HAVE REVENUES AND EXPENSES ASSOCIATED WITH NSPM'S NON-
25 REGULATED BUSINESS ACTIVITIES BEEN EXCLUDED FROM THE MYRP
26 FORECAST COST OF SERVICE?

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 A. Yes, we have excluded the revenues and expenses associated with
2 Commission-approved non-regulated business activities (i.e. customer-owned
3 street lighting maintenance and Sherco steam sales to Liberty Paper) from the
4 MYRP cost of service. Because these activities are recorded in below the line
5 accounts, they were not included in the MYRP Forecast.

6

7 Q. HOW ARE REVENUES AND EXPENSES RELATED TO THE MISO SCHEDULES
8 TREATED IN RATES?

9 A. Both revenues and expenses related to the MISO schedules are included in
10 the determination of retail rates through either base rates, the FCA or the
11 TCR Rider. Base rate recovery, for example, includes both the revenues
12 received from MISO and the expense billings from MISO for Schedules 1
13 (Scheduling, System Control and Dispatch Service) and 2 (Reactive Supply
14 and Voltage). The FCA, for example, includes Schedule 3 (Regulating
15 Reserve). The TCR Rider includes recovery of Schedule 26 (Network
16 Upgrade from Transmission Expansion Plan) and 26-A (Multi-Value Project
17 Usage Rate) revenues and expenses. The TCR Rider also includes, for capital
18 projects not regionally shared, an Open Access Transmission Tariff (OATT)
19 Revenue Credit to estimate the revenue that will be collected for the project
20 from wholesale transmission customers. The treatment of revenues and
21 expenses related to the MISO schedules is consistent with their treatment in
22 prior rate cases.

23

24 Q. WHAT ARE WHOLESAL MARGINS?

25 A. There are two categories of transactions that generate wholesale margins
26 (revenues less costs): asset based transactions; and non-asset based

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 transactions. Asset based transactions are comprised of short-term sales of
2 excess energy or capacity from Company-owned generation assets or power
3 purchase agreements (PPAs) executed to serve our native load customers.
4 The Company executes these asset based transactions through bilateral
5 agreements with specific wholesale customers and through sales directly into
6 the MISO energy market. Sales into the MISO market account for the bulk
7 of these transactions.

8
9 Non-asset based transactions are wholesale trading transactions undertaken to
10 obtain margins from purchases and sales of energy or capacity unrelated to
11 meeting the energy needs of our native load customers. The only transactions
12 that qualify as non-asset based transactions are third-party supplied electricity
13 or financial transactions that are not purchased to meet the needs of our retail
14 customers and that are then resold to other utilities or market participants.

15
16 Q HOW HAVE ASSET BASED MARGINS BEEN TREATED IN PRIOR RATE CASES?

17 A. Because asset based margins are created by selling energy or capacity from
18 generating facilities or PPAs paid for by customers, all asset based margins
19 have been credited to customers. In each of our last three rate cases, the
20 Commission approved passing the sales margins through to customers using
21 the FCA.

22
23 Q. IS THE COMPANY RECOMMENDING ANY CHANGE TO THE TREATMENT OF
24 ASSET BASED MARGINS?

25 A. No. The Company recommends the same treatment of crediting asset based
26 energy sales margins to customers through the FCA going forward, which is

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 reflected in an adjustment discussed in Section VII, Annual Adjustments to
2 the MYRP Forecast.

3
4 Q. HOW HAVE NON-ASSET BASED MARGINS BEEN ADDRESSED IN PRIOR CASES?

5 A. In our last two rate cases: (i) 100 percent of the non-asset based trading
6 margins were retained by the Company; and (ii) 100 percent of the fully
7 allocated O&M costs and IT system-related costs associated with non-asset
8 based trading margins were excluded from the test year and, thus, resulted in a
9 decrease in test year operating expenses.

10
11 Q. HAS THE COMPANY CONDUCTED INCREMENTAL AND FULLY ALLOCATED COST
12 STUDIES OF NON-ASSET BASED TRADING?

13 A. No. At one time, the Company advocated a contribution from non-asset
14 based margins based on incremental cost. As a consequence, the Commission
15 ordered the Company to prepare incremental and fully allocated cost studies
16 to support the Company's position. However, the Company is already
17 required to exclude the fully allocated non-asset based trading costs from test
18 year expense, and because we requested the elimination of an incremental cost
19 study in our previous electric rate case with no comment or objection, no
20 incremental cost study was prepared for this proceeding.

21
22 Q. IS THE COMPANY RECOMMENDING ANY CHANGE TO THE TREATMENT OF
23 NON-ASSET BASED MARGINS?

24 A. The only change in the treatment of non-asset based margins is the
25 elimination of the incremental cost study. Consistent with past Commission
26 decisions, we are making an adjustment to exclude costs equal to the fully

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 allocated cost of non-asset based trading, as further explained in Volume 4
2 MYRP Workpapers, Section VIII Adjustments, Tab A30.

3
4 Q. UNDER THE COMPANY'S PROPOSALS FOR ASSET BASED MARGINS AND NON-
5 ASSET BASE MARGINS, IS IT NECESSARY TO MAKE ANY TEST OR PLAN YEAR
6 ADJUSTMENTS?

7 A. Yes, we make three adjustments. First, with respect to asset-based energy
8 sales margins, the 2020-2022 budget base data includes all fuel costs and
9 trading revenues. However, all asset-based energy sales margins are passed
10 through to the customers in the FCA. The fuel clause revenue included in
11 retail revenue does not include asset-based margins. Therefore, the Asset
12 Margin Sharing adjustment also excludes asset-based energy sales revenues
13 and expenses from the MYRP Forecast.

14
15 Second, the 2020-2022 budget base data does not reserve the non-asset based
16 trading margin for the shareholders. Therefore, the Non-Asset Margin
17 Retention adjustment removes these revenues and expenses from the test and
18 plan years.

19
20 Lastly, the Non-Asset Trading O&M Credit adjustment credits the operating
21 expenses in the income statement for the fully allocated O&M and IT-related
22 costs of non-asset based trading activity. The MYRP Forecast adjustments
23 are also included in Section VII, Annual Adjustments to the MYRP Forecast.

24

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

B. Operating and Maintenance Expenses

Q. HOW DOES THE COMPANY CALCULATE OPERATING EXPENSES?

A. The Company’s operating expenses can be expressed using the breakdown on Pages 30-31 of the “Electric Utility Cost Allocation Manual” of the National Association of Regulatory Utility Commissioners (NARUC) as follows:

- Operation and Maintenance Expense (including fuel) (Operating Exp)
- + Depreciation Expense (Depreciation)
- + Miscellaneous Amortization Expense (Amortization)
- + Taxes other than Income Taxes (Other Taxes)
- + Income Taxes (Income Tax)
- = Total Expenses

In this case, the calculation is provided in Table 6 below:

**Table 6
Operating Expenses**

		2020	2021	2022	Exhibit__ (BCH-1),
		Test Year	Plan Year	Plan Year	Sch. 3
		Amount	Amount	Amount	Reference
	Item	(\$000s)	(\$000s)	(\$000s)	
	Operating Expense	\$ 2,313,678	\$ 2,365,673	\$ 2,381,602	Page 2, Line 74
plus	Depreciation	683,392	719,524	760,859	Page 2, Line 76
plus	Amortization	43,948	43,475	44,757	Page 2, Line 77
plus	Other Taxes	134,178	38,204	33,630	Page 2, Line 88
plus	Income Tax	(6,184)	59,576	56,478	Page 3, Line 134
equals	Total Expense	\$ 3,169,012	\$ 3,226,453	\$ 3,277,326	Page 3, Line 138

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

1 Q. WHAT ARE THE PRINCIPLE O&M EXPENSE CATEGORIES?

2 A. The principle expense categories are:

- 3 • Fuel & Purchased Energy,
- 4 • Power Production,
- 5 • Regional Markets,
- 6 • Transmission Interchange,
- 7 • Transmission,
- 8 • Distribution,
- 9 • Customer Accounting,
- 10 • Customer Service & Information,
- 11 • Sales, Economic Development and Other,
- 12 • Administrative and General.

13

14 Q. HOW ARE FUEL AND PURCHASED ENERGY COSTS TREATED?

15 A. These fuel and purchased energy costs are collected through the FCA. Those
16 costs are fully offset by revenues from the FCA. Therefore, these costs have
17 no impact on the 2020 test year revenue deficiency.

18

19 Q. HAS THIS CHANGED SINCE THE LAST RATE CASE?

20 A. Yes, while the level of fuel revenues and expenses are consistent with the last
21 rate case, the Company is no longer providing a base cost of energy filing with
22 this rate case, consistent with the Commission's October 17, 2019
23 determination in Docket No. E999/CI-03-802. In recognition of that
24 proceeding we have provided financial schedules that reflect a cost of service
25 with and without fuel revenues and expenses. Where comparisons are made

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 with prior years we continue to present those financial schedules with fuel
2 revenues and expenses to allow comparison.

3
4 Q. WHAT ARE POWER PRODUCTION COSTS AND HOW ARE THEY DETERMINED?

5 A. Power production costs are primarily the costs of operating our generating
6 facilities. These costs are budgeted through development of a production
7 budget prepared to serve the combined energy and demand requirements of
8 the NSP System (used for both NSPM and NSPW). Our Risk Management
9 Department conducts a production simulation (called PLEXOS) model run
10 based on the forecasted system sales to derive the costs. Please see the Direct
11 Testimony of Mr. Capra for additional details.

12
13 Q. HOW DOES XCEL ENERGY DEVELOP ITS TEST YEAR TRANSMISSION EXPENSE?

14 A. Transmission expenses are the O&M costs associated with operating and
15 maintaining our system transmission facilities. These costs are budgeted
16 through development of a transmission budget prepared to serve the NSP
17 System (*i.e.*, for both NSPM and NSPW). These costs and their development
18 are detailed in Mr. Benson's Direct Testimony.

19
20 Q. HOW DOES XCEL ENERGY DEVELOP ITS TEST YEAR DISTRIBUTION EXPENSE?

21 A. Distribution expenses are the O&M costs associated with operating and
22 maintaining our Minnesota distribution facilities. These costs are developed
23 through a distribution budget prepared for both the NSPM electric and gas
24 utilities. These costs and their development are detailed in the Direct
25 Testimony of Ms. Bloch. The allocation of these costs to the electric utility

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 and then to the Minnesota jurisdiction is addressed in Section VI of my
2 Direct Testimony.

3
4 Q. HOW DOES XCEL ENERGY DEVELOP ITS TEST YEAR CUSTOMER SERVICE
5 EXPENSE?

6 A Customer Service O&M cost is associated with providing meter reading,
7 billing, credit and collections, bad debt expense, contact center and
8 operational support services. These costs are developed through the
9 Customer Care budget prepared for both the NSPM electric and gas utilities.
10 These costs and their development are detailed in the Direct Testimony of
11 Company witness Mr. Christopher C. Cardenas. The allocation of these costs
12 to the electric utility and then to the Minnesota jurisdiction is addressed in
13 Section VI of my Direct Testimony. As Mr. Cardenas explains, our bad debt
14 expense is affected by the level of commodity sales (retail sales). Therefore,
15 changes in the sales forecast affect the bad debt expense. As a result of
16 updating the sales forecast after the 2020 budget was developed, a change in
17 the bad debt expense is needed. I discuss that adjustment in Section VII of
18 my Direct Testimony.

19
20 Q. WHAT COSTS ARE INCLUDED IN ADMINISTRATIVE AND GENERAL (A&G)
21 EXPENSE?

22 A. A&G expense includes IT, compensation, office supplies and expenses and
23 consulting services for officers, executives, and other Company employees
24 properly chargeable to utility operations and not chargeable directly to a
25 particular operating function. Also included in A&G expense are property
26 insurance, insurance and other costs related to injury or damage claims made

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 by employees or others, employee pensions and benefits, regulatory expenses,
2 general advertising expense, utility rental expense not properly chargeable
3 directly to a particular operating function and maintenance costs assignable to
4 the customer accounts, sales and A&G functions.

5
6 Q. ARE ANY COSTS RELATED TO CIVIC OR POLITICAL ACTIVITIES (LOBBYING),
7 IDENTIFIED IN THE COST OF SERVICE, OR ADJUSTMENTS?

8 A. No. Beginning in 1999, the Company made a conscious decision to move all
9 lobbying costs to below the line accounting, FERC account 426.4,
10 Expenditures For Certain Civic, Political and Related Activities. The
11 Company prepares the unadjusted expenses for the test year using queries that
12 restrict the data to only above-the-line accounts (FERC Accounts 500
13 through 935). Thus, no adjustment to the cost of service for lobbying costs is
14 required, as these below the line amounts are not used in our development of
15 the test year cost of service.⁵ We have also excluded the portion of
16 organizational dues associated with lobbying activities. Company witness Mr.
17 Gary J. O'Hara addresses our efforts to identify and remove lobbying
18 expenses in his Direct Testimony.⁶

⁵ As discussed by Company witness Mr. Gary J. O'Hara, the Company discovered that the lobbying labor costs budgeted for State Public Affairs did not align with State Public Affairs' actual forecasted labor costs for purposes of the Company's calculation of the Minnesota cost of service. This misalignment was not discovered until after the cost of service was developed. The Company will make an appropriate adjustment in Rebuttal Testimony.

⁶ Charitable contributions, economic development contributions, and Chamber of Commerce dues are other below-the-line expenses that are moved above the line, in part, through adjustments described in Section VII.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

C. Depreciation Expense

1 **C. Depreciation Expense**
2 Q. WHAT IS THE BASIS OF THE DEPRECIATION RATES AND EXPENSE USED IN THE
3 2020-2022 MYRP?

4 A. Depreciation expense for the 2020 test year reflects the Company's approved
5 2019 Average Remaining Life filing (Docket No. E, G002/D-19-161) and the
6 results of the Annual Update of Remaining Lives and Depreciation Rates for
7 Transmission, Distribution and General Accounts (Docket No. E,G002/D-
8 18-523).

9
10 Ms. Wold discusses the Company's depreciation expense in her Direct
11 Testimony.

12
13 **D. Taxes**

14 Q. WHAT TAX EXPENSES ARE INCLUDED IN THE 2020 TEST YEAR INCOME
15 STATEMENT?

16 A. We have line items for Property; Income Taxes including Deferred Income
17 Tax, Investment Tax Credits and Federal and State Income Tax; and Payroll.
18 The State and Federal income taxes are calculated in Schedule 3, Cost of
19 Service Study Summary for 2020 test year, Page 2 of 4.

20
21 Q. HOW ARE PROPERTY TAXES DETERMINED FOR THE JURISDICTION?

22 A. Property taxes are determined on a NSPM Total Company basis. The
23 functions are then allocated to the Company's regulatory jurisdictions using
24 the demand allocator for electric production and transmission, the gas design
25 day allocator for gas production, and transmission and distribution is direct

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 assigned by state for both electric and gas. Please see Volume 4, Tab P-6,
2 Property Tax for more details.

3
4 Q. HOW ARE INCOME TAXES DETERMINED FOR THE JURISDICTION?

5 A. Income taxes are determined based on total before tax book income, tax
6 additions, and deductions which determine deferred income taxes and the
7 resulting taxable income that is used to calculate federal and state income
8 taxes. The federal income tax rate reflects the 21 percent rate effective
9 January 1, 2018 with the enactment of the TCJA. The utilization or
10 generation of net operating losses or tax credits impact both deferred income
11 taxes and federal and state income taxes, which I will discuss in more detail
12 below.

13
14 Q. PLEASE SUMMARIZE THE RATEMAKING TREATMENT OF NET OPERATING
15 LOSSES (NOLs).

16 A. The Company continues to follow the resolution of “Tax Normalization and
17 Allowance for Net Operating Losses” from the last three rate cases, which
18 was reflected in Exhibit 105 in Docket No. E002/GR-10-971. Specifically,
19 the Company will continue to give back to retail customers annually the
20 revenue requirement benefit associated with the utilization of tax deductions
21 and credits carried forward from prior periods.

22
23 The timing of utilization and the carry-forward balances associated with
24 unused deductions and credits will continue to change over time as the
25 Company’s revenue and deduction levels change. The annual reporting
26 process which incorporates actual revenues, deductions and cost of capital

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 will continue to be the vehicle to track the utilization and balances and
2 annually refund any utilization that has not been applied in base rates.

3
4 Had this rate treatment not been approved by the Commission, the 2020 test
5 year revenue requirement would be the same. However, if utilization of
6 carried-forward deductions and credits took place outside of a rate case test
7 year, then customers would not receive refunds for the revenue requirement
8 value. Therefore this treatment ensures customers are protected in the event
9 of changes in the utilization of tax deductions and credits.

10
11 Q. PLEASE EXPLAIN HOW THE COMPANY DETERMINES WHETHER DEFERRED TAX
12 ASSETS (DTAs) ARE CREATED OR CONSUMED.

13 A. The calculation of income taxes determines whether DTAs are created or
14 consumed. After the calculated income tax expense is reduced for allowed
15 NOL deductions or tax credits, the remaining income tax credits and
16 deductions are “carried forward” and can be used to reduce taxes in future
17 years. The federal income tax code and tax regulations dealing with NOLs
18 state that unused deductions carried forward to a future tax year must be
19 utilized before credits. The opposite is true during a time of setup. To the
20 extent the calculated income tax expense is negative, first tax credits and then
21 depreciation deductions are reversed, carried forward, and are available for
22 utilization in a future period. This reversal creates a reduction to deferred tax
23 expense, resulting in the creation of a DTA.

24
25 In future periods, to the extent the calculated income tax expense is positive,
26 the federal income tax code and tax regulations prioritize that first

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 depreciation deductions that were carried forward, and then credits that were
2 carried forward are utilized to reduce the income tax expense by 80 percent
3 for depreciation deductions and 75 percent for credits. This utilization
4 creates an increase in deferred tax expense, reducing the balance of the DTA.
5 Once all depreciation deductions and credits previously carried forward are
6 utilized, the Company will have returned to a positive tax position. This is
7 normal NOL accounting.

8
9 For the purpose of determining the NOL, these income tax calculations are
10 done on an all-inclusive jurisdictional cost of service basis in which rider
11 revenues and rider related investments are included with non-rider revenues
12 and investments. This approach determines the extent to which the NSPM
13 Electric Utility Minnesota retail jurisdiction is in a tax loss position or in a
14 position to utilize deductions and credits carried forward from previous
15 periods as is the case with the 2020 test year. This approach ensures that any
16 reduction in revenue requirements resulting from the utilization of deductions
17 or credits carried forward from prior periods is returned to customers as soon
18 as it is available in the form of a rate refund or reduction to base rates.

19
20 These balances related to unused credits and deductions are reported in the
21 Company's May 1 Jurisdictional Annual Report, including the May 1, 2019
22 Jurisdictional Annual Report. Separate detailed reporting and the revenue
23 requirement value associated with any utilization was most recently reported
24 on June 14, 2019. By having these annual determinations made on an all-in
25 basis, the jurisdictional cost of service study (JCOSS) includes actual data for

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 both rider recovery and base rate recovery properties. Any change in rider
2 recovery by the Commission will be incorporated in this process.

3
4 Q. DO THE DTAs AFFECT THE 2020-2022 MYRP REVENUE REQUIREMENTS?

5 A. Yes. The Company's 2020-2022 MYRP COSS includes a revenue requirement
6 increase associated with PTCs carried forward from prior periods to the 2020
7 test year and 2020-2022 MYRP generation of federal tax credits to be carried
8 forward based on the Company's 2020-2022 MYRP COSS. An accounting
9 for the balances carried forward to the 2020 test year COSS, as well as the
10 documented calculations supporting this revenue requirement increase, can be
11 found in Exhibit____(BCH-1), Schedule 20, Net Operating Loss.

12
13 It should be noted that any change in the revenues, expenses or capital
14 structure will cause the income tax calculation to be changed. This could in
15 turn affect the timing of the DTAs being generated or consumed and added
16 to or removed from rate base. The Company will update the 2020-2022
17 MYRP COSS accordingly.

18
19 Q. HOW WILL THE RATES SET IN THIS CASE AFFECT THE UTILIZATION OF DTAs
20 IN FUTURE TEST YEARS?

21 A. The utilization of DTAs is based on taxable income for the NSPM retail
22 electric jurisdiction. Taxable income is determined by total revenues less total
23 deductions and total tax credits. Once base rates are set in this case for the
24 2020 test year and any additional years considered by the Commission in the
25 Company's multi-year rate proposal, they will remain in place until changed in
26 another electric rate case. If all other factors are held constant, an increase in

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

1 base rate revenue as proposed by the Company in this case will increase the
2 utilization of deferred tax assets in future years.

3
4 Q. WHAT ARE PRODUCTION TAX CREDITS?

5 A. Production Tax Credits (PTCs) are per-kWh tax credits to income for
6 electricity generated using qualified renewable energy resources.

7
8 Q. WHAT IS THE LEVEL OF PRODUCTION TAX CREDITS INCLUDED IN THE STATE
9 AND FEDERAL INCOME TAX CALCULATION IN THE 2020 TEST YEAR?

10 A. As shown on Exhibit____(BCH-1), Schedule 18, Production Tax Credits, the
11 MYRP Forecast assumes PTCs for the Company-owned wind farms as
12 shown in Table 7 below.

13
14 **Table 7**

15 **Production Tax Credits included in MYRP Forecast**

16

<i>(Amount in \$000s)</i>	2020	2021	2022
MN Jurisdictional PTC	\$106,916	\$94,548	\$94,414
MN PTC Impact on Revenue Requirement	(150,041)	(132,685)	(132,496)
MN PTC Impact on Rev Req net of I/A	(124,467)	(110,070)	(109,913)

17
18
19
20

21 We expect production to begin at additional wind facilities in late in 2020 or
22 2021. Due to the anticipated in-service date of these projects, the Company is
23 recommending that these projects be recovered through the RES Rider. I
24 provide a discussion later in this Section of my Direct Testimony about how
25 PTCs interact with the deferred tax asset calculations in the 2020 test year.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. WHAT IS THE COMPANY'S PROPOSAL WITH RESPECT TO THE TREATMENT OF
2 PTCs BETWEEN TEST YEARS?

3 A. In addition to the PTCs included in the RES Rider, the Company continues
4 to recommend that the RES Rider act as a true-up mechanism for the PTCs
5 related to projects already in service and included in base rates as a part of the
6 2020 test year cost of service. We propose that the difference in the dollar
7 value of actual PTCs generated and the amounts included in the test year be
8 recorded to the RES Tracker account and either returned to, or recovered
9 from, customers through the RES Rider. This approach meets our
10 understanding of the current regulatory treatment for PTCs.

11

12 Q. PLEASE EXPLAIN THE EFFECT OF TAX TREATMENT OF PTCs AND THE
13 REQUIRED REVENUE LEVEL NECESSARY TO COVER THE CHANGE IN
14 OPERATING INCOME.

15 A. PTCs create a direct reduction (credit) to income tax expense causing a
16 corresponding increase to operating income. Every dollar change in
17 operating income needs a revenue conversion factor to be applied to
18 determine the pre-tax revenue level necessary to achieve the operating income
19 change. The revenue conversion factor calculation is included in Volume 3,
20 Tab B of the Other Supplemental Information; and composite income tax
21 rates are included in Volume 3, Tab C, Schedule C-5, of the Operating
22 Income Schedules.

23

24 Q. WHAT IS THE REDUCTION IN REVENUE REQUIREMENTS FOR PTCs REFLECTED
25 IN THE 2020 TEST YEAR FINANCIAL STATEMENTS?

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 A. The State of Minnesota jurisdictional revenue requirement impact of (\$106.9
2 million) of PTCs after applying the 1.403351 revenue conversion factor is
3 (\$150.0 million) or (\$124.5 million) net of Interchange Agreement billings to
4 NSPW. Support for these calculations is shown on Schedule 18, Production
5 Tax Credits.

6

7 **E. AFUDC**

8 Q. WHAT IS AFUDC, AND WHAT IS ITS FUNCTION IN THE INCOME STATEMENT?

9 A. As previously noted, AFUDC is the cost of financing during the period a
10 capital investment is included in CWIP. Once an asset is placed in service,
11 the total cost to construct including accumulated AFUDC is recovered
12 through depreciation expense. Ms. Wold's Direct Testimony discusses the
13 role AFUDC plays in allowing utilities to recover their cost of financing. In
14 the income statement, AFUDC is used to offset expenses, thus increasing
15 total operating income, and reducing the revenue requirement. This provides
16 a direct offset to the return requirement associated with the inclusion of
17 CWIP in rate base. Please see Section IV. Rate Base, for a detailed discussion
18 of the relationship between CWIP and AFUDC and a discussion of Pre-
19 Funded AFUDC.

20

21 **F. Interchange Agreement**

22 Q. PLEASE DESCRIBE THE INTERCHANGE AGREEMENT BETWEEN THE COMPANY
23 AND NSPW.

24 A. The Company and NSPW operate a single integrated electric generation and
25 transmission system and a single electrical "local balancing authority area."
26 This integrated NSP System jointly serves the electric customers and loads of

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 the Company and NSPW. However, the specific generators and transmission
2 facilities making up the NSP System are owned by the two separate legal
3 entities (the Company and NSPW), with the ownership boundary at the
4 Minnesota/Wisconsin border. The Interchange Agreement is a FERC-
5 approved contractual mechanism that provides a means to share the costs of
6 the integrated NSP System between the Company and NSPW.

7
8 Q. PLEASE DESCRIBE THE COSTS AND REVENUES ALLOCATED BETWEEN THE
9 COMPANY AND NSPW UNDER THE INTERCHANGE AGREEMENT.

10 A. Under the Interchange Agreement, the Company and NSPW share annual
11 system generation (production) and transmission costs. Under the
12 Interchange Agreement formulas, approximately 16 percent of the costs of
13 the Company system are allocated to NSPW, and approximately 84 percent of
14 the NSPW system costs are allocated to the Company, because approximately
15 84 percent of the load on the integrated system is the Company load and 16
16 percent is NSPW load. The exact allocation percentages are determined by
17 the allocation factors updated and filed at FERC annually.

18
19 The Interchange Agreement also provides for an allocation of revenues
20 received by the Company and NSPW, such as revenues from transmission
21 services or off-system wholesale sales. Interchange Agreement costs and
22 revenues are budgeted by the Company and NSPW annually. Thus, the
23 Company's budget shows Interchange Revenues, which are revenues that
24 reflect the charges to NSPW for its share of production and transmission
25 assets and associated expenses. Likewise, Interchange Expense reflects the
26 Company's budgeted payments to NSPW for its proportionate share of the

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 costs of generation and transmission assets and associated expenses incurred
2 by NSPW to serve the NSP System needs.

3
4 The MYRP Forecast Interchange Revenue and Interchange Expenses have
5 been calculated using 2020-2022 Company and NSPW budget information.
6 This is consistent with the treatment of Interchange Revenues and
7 Interchange Expenses in our last three rate cases.

8
9 Q. PLEASE DESCRIBE THE INTERCHANGE AGREEMENT OFF-SET TREATMENT
10 BEING EMPLOYED IN THE MYRP FORECAST COSS.

11 A. As discussed earlier, in general, the Interchange Agreement is designed to
12 share system-related production and transmission cost between the two
13 operating companies, NSPM and NSPW. The intent of this sharing is to
14 represent these two company systems as a single joint operation. To equalize
15 the costs across this joint system, each operating company bills the other
16 operating company for their share of the joint costs in general using energy
17 requirements as the basis for variable cost sharing and peak demand as the
18 basis for sharing capital related and other fixed costs.

19
20 Q. WHAT SPECIFIC COMPONENTS ARE IMPACTED BY THIS SHARING IN THE 2020
21 TEST YEAR COSS?

22 A. The NSPM billings to NSPW for the sharing of NSPM costs appear as other
23 revenues in the MYRP Forecast cost of service. The NSPW billings to NSPM
24 for the sharing of NSPW costs appear as either production or transmission
25 expenses in the MYRP Forecast cost of service. Also, any adjustments being

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 proposed in the case that pertain to production or transmission are developed
2 using the same mechanics.

3
4 **VI. UTILITY AND JURISDICTIONAL ALLOCATIONS**

5
6 Q. WHAT TOPICS DO YOU DISCUSS IN THIS SECTION OF YOUR TESTIMONY?

7 A. In this section I will:

- 8 • explain, at a high level, why it is necessary for the Company to allocate
9 costs among its affiliates and between the jurisdictions in which it does
10 business;
- 11 • describe the utility and jurisdictional allocations that are used in
12 determining the revenue requirement;
- 13 • explain the circumstances of the elimination of the separate Wholesale
14 Jurisdiction, the circumstances that led to the loss of full service
15 wholesale customers, and the effect of those events, including the
16 results of the Company's Wholesale Customer Study.

17
18 Q. WHY IS IT NECESSARY TO ASSIGN OR ALLOCATE COSTS BETWEEN NSPM AND
19 ITS AFFILIATES?

20 A. Whenever services or facilities are shared between NSPM and an affiliate, it is
21 necessary that the appropriate costs related to those services or facilities be
22 assigned or allocated to the appropriate entity. Company witness Ms. Melissa
23 L. Schmidt, in her Direct Testimony, explains the allocations for services and
24 facilities shared between NSPM and an affiliate. The cost assignment and
25 allocation principles are unchanged from those used by the Company in the
26 most recent Minnesota electric rate case. Additional information regarding

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 this process and the reason for selecting a particular allocator is also included
2 in the Cost Assignment and Allocation Manual (CAAM) submitted with this
3 application as Ms. Schmidt's Exhibit____(MLS-1), Schedule 3.
4

5 Q. IS IT NECESSARY TO ASSIGN OR ALLOCATE COSTS BETWEEN NSPM'S ELECTRIC
6 AND GAS UTILITIES?

7 A. Yes. NSPM operates both an electric utility and a gas utility. Therefore, it is
8 necessary that the appropriate costs related to those services or facilities be
9 assigned or allocated to the appropriate utility.
10

11 Q. IS IT NECESSARY TO ASSIGN OR ALLOCATE COSTS BETWEEN JURISDICTIONS?

12 A. Yes. The Company operates in three jurisdictions: Minnesota, North Dakota
13 and South Dakota. Thus, it is necessary to allocate or assign costs
14 appropriately between jurisdictions. Previously, costs were allocated or
15 assigned to four jurisdictions: Minnesota, North Dakota, South Dakota and
16 Wholesale. Beginning in 2014, however, the Company has no full
17 requirements wholesale customers. Therefore, since 2014, costs are allocated
18 between the Company's three retail jurisdictions.
19

20 Q. HOW ARE COSTS ASSIGNED AND ALLOCATED?

21 A. The expense budgets relied upon to develop test-year income statement items
22 were generally prepared on a functional basis (*i.e.* Production, Transmission,
23 Distribution, Customer Accounts, Customer Information, Sales,
24 Administrative and General). These functional amounts are directly assigned
25 to the Minnesota jurisdiction electric utility operations where appropriate or
26 allocated based on cost causation.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Detailed records are maintained on a functional basis (*i.e.* Production,
2 Transmission, Distribution, etc.). The capital budgets, from which the
3 projected plant balances in rate base were developed, are also prepared on a
4 functional basis. These functional amounts are assigned to the appropriate
5 jurisdiction directly, or allocated based on the use of such assets in providing
6 electric service in a particular jurisdiction and the underlying elements of cost
7 causation.

8
9 Generally, all production plant is allocated to jurisdiction using the
10 jurisdictional demand allocator, with the exception of wind projects, which
11 are allocated using the jurisdictional energy allocator. In addition, production
12 costs are shared with NSPW under the terms of the Interchange Agreement.
13 The Interchange Agreement tariff approved by FERC specifically requires
14 fixed production assets to be allocated between NSPM and NSPW based on
15 demand.

16
17 Fixed production O&M expense is allocated using the jurisdictional demand
18 allocator. In addition, fixed production O&M expense is shared with NSPW
19 under the terms of the Interchange Agreement. The Interchange Agreement
20 requires these costs to be allocated between NSPM and NSPW based on
21 demand.

22
23 All variable production O&M expense is allocated to jurisdiction using the
24 jurisdictional energy allocator. In addition, variable production O&M
25 expense is shared with NSPW under the terms of the Interchange Agreement.
26

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 The Interchange Agreement requires these costs to be allocated between
2 NSPM and NSPW based on energy.

3
4 Ms. Schmidt further explains assignment and allocation of costs in her Direct
5 Testimony.

6
7 Q. HOW ARE THESE ALLOCATION FACTORS DEVELOPED?

8 A. A summary and description of the allocation factors used to allocate expenses
9 and capital items to the Minnesota jurisdictional electric operations income
10 statement and rate base is contained in Volume 3, Required Information, II
11 Required Financial Information, 3E Rate Base Jurisdictional Allocation
12 Factors and 4F Operating Income Jurisdictional Allocation Factors. Plant
13 investments are accounted for in the manner prescribed by the FERC
14 Uniform System of Accounts. Ms. Schmidt also further explains the
15 development of allocation factors in her Direct Testimony.

16
17 Q. HOW ARE FUEL AND PURCHASED POWER COSTS ALLOCATED?

18 A. Fuel and purchased energy costs are allocated to each jurisdiction using the
19 jurisdictional energy allocator. Purchased demand costs are allocated to each
20 jurisdiction using the jurisdictional demand allocator. In addition, fuel and
21 purchased power costs are shared with NSPW under the terms of the
22 Interchange Agreement. The Interchange Agreement requires fuel and
23 purchased energy costs to be allocated between NSPM and NSPW based on
24 energy. Purchased demand costs are allocated between NSPM and NSPW
25 using demand.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. HOW ARE COMPENSATION- AND BENEFIT-RELATED RATE CASE ADJUSTMENTS
2 ALLOCATED?

3 A. Compensation and benefit related rate case adjustments are allocated to
4 jurisdictions using a weighted allocator based on all expenses in FERC 926
5 Employee Pensions and Benefits. Expenses in FERC 926 were allocated
6 following the Cost Assignment and Allocation Manual (CAAM) submitted
7 with this application as Schedule 3 to Ms. Schmidt's Direct Testimony. An
8 additional allocator was then created by determining each jurisdiction's
9 portion of the Total NSPM expenses. The data used to calculate this
10 allocator can be found in Volume 4 MYRP Workpapers, Section VII Budget
11 Allocators, Tab B-4.

12

13 Q. WHAT IS THE WHOLESALER CUSTOMER STUDY?

14 A. The Wholesale Customer Study shows all wholesale customers being served
15 by the Company (including, but not limited to, full requirements, partial
16 requirements, and market based wholesale customers), types of service being
17 provided to each wholesale customer, costs and revenues associated with each
18 wholesale customer, and a clear showing either that wholesale costs are
19 allocated out of the retail rate case or that the revenues are included in the
20 retail rate case, for all services provided to wholesale customers.

21

22 Q. DOES THE WHOLESALER CUSTOMER STUDY EXPLAIN WHY THE COMPANY NO
23 LONGER ALLOCATES COSTS TO A WHOLESALER JURISDICTION?

24 A. Yes. Exhibit___(BCH-1) Schedule 14, Wholesale Customers Study, explains
25 that all of our partial requirements and energy only wholesale customers are
26 provided services pursuant to bilateral agreements, and also explains the

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 treatment of costs and revenues related to services provided to those
2 customers.

3
4 Q. WHAT SERVICES DOES THE COMPANY ANTICIPATE PROVIDING TO PARTIAL
5 REQUIREMENTS WHOLESAL CUSTOMERS DURING THE MYRP FORECAST?

6 A. During the MYRP Forecast, the Company expects to provide services to
7 wholesale customers in the following categories: asset based energy sales, asset
8 based capacity sales, non-asset based energy and capacity sales, and other
9 wholesale transactions (including interfacing and scheduling services, energy
10 services agreements, and pass through charges).

11
12 Services to wholesale customers include interfacing between the customer and
13 MISO, including providing balancing services. Revenues from these customers
14 for services and asset based capacity are included in Other Revenues (*e.g.*, for
15 balancing services). Sales of asset based energy are treated as asset based
16 margins and passed through the fuel clause. We also provide some non-asset
17 based services to these customers (energy and capacity sales using financial
18 instruments). The margins from non-asset based transactions as well as the
19 fully allocated embedded costs related those activities are treated as below the
20 line activities not included in the retail revenue requirement.

21
22 Attachment A to Schedule 14, Wholesale Customer Study provides a list of the
23 types of services provided, and the ratemaking treatment for each type of
24 service. Attachment B to Schedule 14, Wholesale Customer Study provides a
25 wholesale customer summary including all current agreements by customer and
26 the expected revenues for the years 2020 to 2022.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. DOES THE WHOLESALE CUSTOMER STUDY DEMONSTRATE THAT THE
2 REVENUES ARE INCLUDED IN THE RETAIL RATE CASE?

3 A. Yes. After reviewing the services provided to our wholesale customers and
4 the transactions associated with those services, the Company concludes that
5 the ratemaking treatment of these transactions is consistent with past
6 regulatory practice and the requirements of the Commission. Based on the
7 treatment of these transactions, the Company believes that costs and revenues
8 associated with wholesale customers are reflected properly in the test year.
9

VII. ANNUAL ADJUSTMENTS TO THE MYRP

10
11
12 Q. WHAT TOPICS DO YOU ADDRESS IN THIS SECTION OF YOUR TESTIMONY?

13 A. In this section of my testimony, I explain adjustments that affect our
14 proposed MYRP Forecast revenue requirement. These adjustments were
15 identified during our review of the 2020 budget and preparation for this case.
16 An individual adjustment may be related to a previous Commission Order,
17 reflect Commission policy or traditional ratemaking treatment, or may be
18 proposed to address a situation particular to this rate case. In this section, I
19 provide details related to each adjustment and explain why each is necessary
20 in order to present a representative level of rate base or costs in the MYRP
21 Forecast. I also identify where another Company witness provides
22 information to explain and support the adjustment.
23

24 Q. HOW ARE THESE ADJUSTMENTS PRESENTED IN YOUR TESTIMONY?

25 A. First, I present traditional adjustments consistent with treatment in prior cases
26 and existing Commission Policy Statements (Precedential Adjustments) and

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 rate case adjustments related to this particular case (Rate Case Adjustments).
2 Next, I explain the various amortizations affecting the test year
3 (Amortizations), the removal of certain costs and revenues being recovered
4 through riders (Rider Removals), a group of adjustments that are the result of
5 secondary dynamic calculations in the cost of service model (Secondary COS
6 Calculations), and certain adjustments that may be necessary for Rebuttal
7 Testimony in this proceeding.

8
9 Q. PLEASE LIST THE 2020-2022 MYRP ADJUSTMENTS.

10 A. The following adjustments were made to rate base and the income statement
11 where applicable. Rate base adjustments are shown on Schedules 10a-10c,
12 Rate Base Adjustment Schedule. Income statement (revenue requirement)
13 adjustments are shown on Schedules 11a-11c, 2020-2022 Income Statement
14 Adjustment Schedule. As a general note, all revenue requirements shown on
15 Schedules 11a-11c, are net of Interchange Agreement billings, where
16 applicable, and capital related revenue requirements are shown calculated at
17 the last authorized rate of return. Exhibit___(BCH-1), Schedule 12 MYRP
18 Adjustment Summary provides adjustment amounts for the MYRP.
19 Precedential Adjustments are set forth in Table 8 below.

20
21 Rate Case Adjustments

- 22 1) CIP Incentive
- 23 2) CIP Approved Program Costs
- 24 3) Interchange ROE
- 25 4) Incentive Compensation
- 26 5) Mankato Energy Center

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

- 1 6) Pension: Active Healthcare
- 2 7) Pension: Deferred Expense
- 3 8) Pension: Discount Rate Expense
- 4 9) Pension: Non-Qualified Expense
- 5 10) Pension: Retiree Medical Discount Rate Expense
- 6 11) Trading – Asset Based Margin
- 7 12) Trading – Non-Asset Based Margin
- 8 13) Trading – Non-Asset Based Administration
- 9 14) Transmission ROE

10 Amortizations

- 11 15) Aurora Deferral
- 12 16) LED Street Lighting Amortization
- 13 17) NOL Tax Reform Regulatory Amortization
- 14 18) Prairie Island EPU Deferred Costs
- 15 19) Rate Case Expense
- 16 20) Sherco 3 Depreciation

17 Rider Removals

- 18 21) Renewable Connect Removal and Avoided Capacity
- 19 22) Windsorce Removal and Avoided Capacity
- 20 23) RES Rider
- 21 24) TCR Rider

22 Secondary Cost of Service Calculations

- 23 25) ADIT Pro-Rate – IRS Required
- 24 26) Cash Working Capital
- 25 27) Change in Cost of Capital
- 26 28) Net Operating Loss

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

A. Precedential Adjustments

Q. PLEASE LIST THE PRECEDENTIAL TEST YEAR ADJUSTMENTS INCLUDED IN THE REVENUE REQUIREMENT CALCULATION.

A. Table 8 below is a list of Precedential Adjustments and their associated revenue requirement impact, based on past rate case precedent and Commission policy:

Table 8
Precedential Adjustments

Adjustment	2020 Test Year	2021 Plan Year	2022 Plan Year	Workpaper Reference
NSPM-Advertising	(\$2,846,381)	(\$2,912,580)	(\$2,967,208)	WP A-1
NSPM-Assn Dues	(734,495)	(724,005)	(723,460)	WP A-2
NSPM-Aviation	(2,051,482)	(2,094,034)	(2,139,338)	WP A-3
NSPM-Chamber of Commerce Dues	214,391	215,975	217,580	WP A-4
NSPM-Customer Deposits - A&G Expense	18,870	18,870	18,870	WP A-5
NSPM-Donations	1,851,065	1,851,564	1,852,349	WP A-6
NSPM-Econ Dev Donations	50,660	51,144	51,632	WP A-7
NSPM-Econ Develop	(56,203)	(56,203)	(56,203)	WP A-8
NSPM-Employee Expenses	(1,485,915)	(1,505,456)	(1,454,796)	WP A-9
NSPM-Foundation Admin	(113,729)	(115,300)	(116,960)	WP A-10
NSPM-Investor Relations	(358,045)	(362,548)	(364,736)	WP A-11
NSPM-Monticello EPU No Return	(11,636,431)	(10,390,232)	(9,242,691)	WP A-12
NSPM-Nobles Disallowed Assets	(191,073)	(177,039)	(163,345)	WP A-13
NSPM-Nuclear Retention Removal	(15,818)	(15,818)		WP A-14
NSPM-Other Revenue to 3 Year Average Adj	(2,193,405)	(2,255,012)	(2,807,078)	WP A-15
Sub-Total Precedential	<u>(\$19,547,993)</u>	<u>(\$18,470,674)</u>	<u>(\$17,895,384)</u>	

Q. HOW DOES THE COMPANY PROVIDE SUPPORT FOR THESE PRECEDENTIAL ADJUSTMENTS?

A. Treatment of these precedential adjustments has not changed from the Commission's Order in the Company's previous two electric rate cases

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 (Docket Nos. E002/GR-13-868 and E002/GR-15-826). As such, the
2 Company has provided the adjustments themselves in Schedules to my Direct
3 Testimony, and support for these adjustments, including a detailed
4 description of each adjustment and supporting materials, in the workpapers
5 identified in Table 8 above. This organization is intended to facilitate the
6 review of and full support for each adjustment within the identified
7 workpaper.

8
9 Q. WHAT IMPACT DO THESE PRECEDENTIAL ADJUSTMENTS HAVE ON THE
10 DEFICIENCY?

11 A. Regulatory treatment of these precedential adjustments combined with the
12 incentive compensation adjustments discussed below decrease our 2020
13 deficiency by approximately \$35 million as shown in Table 9 below. The
14 Company expects to incur these costs over the three years, so the cumulative
15 cost to the Company is \$100 million over the three-year MYRP.

Table 9
Regulatory Disallowances

Adjustment	2020 Test Year	2021 Plan Year	2022 Plan Year	Total
Total Precedential	(\$19,547,993)	(\$18,470,674)	(\$17,895,384)	(\$55,914,050)
Total Incentive	(15,255,273)	(16,182,118)	(17,045,714)	(48,483,105)
Total Disallowances	(\$34,803,265)	(\$34,652,792)	(\$34,941,098)	(\$104,397,155)

16
17
18
19
20
21
22
23
24 Q. HOW IS THE COMPANY INCORPORATING THESE ADJUSTMENTS INTO THE
25 MYRP FORECAST?

26 A. These 15 precedential adjustments are combined in one column matching the
27 Total row in Table 8 above to Schedules 11a–11c, 2020-2022 Income

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Statement Adjustment Schedule. In total, these precedential adjustments
2 represent a decrease in our rate request compared to our budgeted costs. The
3 detail of the precedential adjustments in bridge schedule format can be seen
4 in Exhibit____(BCH-1), Schedule 13, Precedential Adjustment Detail. In
5 addition, as noted above, each respective workpaper referenced above
6 contains a detail description of the adjustment, including the past precedent
7 and related Commission Orders or Policy Statements.

8
9 Q. WITH RESPECT TO THE ECONOMIC DEVELOPMENT INCLUDED IN THE
10 PRECEDENTIAL ADJUSTMENTS HAS THE COMPANY PERFORMED A COST
11 BENEFIT ANALYSIS TO DETERMINE THAT THE BENEFITS OF THE ECONOMIC
12 DEVELOPMENT PROGRAMS EXCEED THEIR COST TO RETAIL CUSTOMERS?

13 A. Yes. We completed a cost-benefit analysis supporting the inclusion of
14 economic development costs in the MYRP Forecast. Exhibit____(BCH-1),
15 Schedule 16, Economic Development Cost-Benefit Analysis, Attachments A
16 and B provide the potential revenue and cost impacts of the addition of one
17 commercial/industrial customer to NSPM's electric system due to economic
18 development programs. The results indicate that the investments made by the
19 Company to support economic development in our community have the
20 potential to provide value to customers as soon as the first year.

21
22 **B. Rate Case Adjustments**

23 *1) CIP Incentive*

24 Q. PLEASE DESCRIBE THE CIP INCENTIVE ADJUSTMENT.

25 A. The CIP performance incentive is designed to compensate the Company for
26 lost sales due to Company conservation efforts. The annual projected CIP

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 performance incentive margin is included in the Other Revenue budget. The
2 CIP performance margin is intended as an incentive to the Company and
3 represents budgeted level in anticipation of achieving the CIP goals. An
4 adjustment is necessary to remove the estimated performance margin from
5 the MYRP Forecast. Failure to include this adjustment would flow the annual
6 CIP performance incentive to customers by overstating operating revenues in
7 the MYRP Forecast and therefore understating the revenue deficiency for the
8 test year.

9
10 This adjustment impacts the MYRP Forecast revenue requirements by the
11 amounts shown on:

- 12 • Schedule 11, page 1, row 41, column 10,
- 13 • Schedule 12, page 1, row 21, columns 5 through 7,
- 14 • Volume 4, Section VIII Adjustments, Tab A17.

15
16 2) *CIP Approved Program Costs*

17 Q. PLEASE DESCRIBE THE CIP APPROVED PROGRAM LEVELS ADJUSTMENT.

18 A. The MYRP Forecast CIP expenses and corresponding revenues have been set
19 at the 2020 level of \$102.37 million as proposed in Docket E,G002/CIP-16-
20 115.

21
22 Because we make corresponding adjustments to both revenue and expense,
23 this adjustment has no impact on the MYRP Forecast deficiency, as shown
24 on:

- 25 • Schedule 11, page 1, row 41, column 9,

26

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

- 1 • Schedule 12, page 1, row 20, columns 5 through 7,
- 2 • Volume 4, Section VIII Adjustments, Tab A16.

3

4 I note that the decision of the Deputy Commissioner of the Minnesota

5 Department of Commerce in Docket No. E,G002/CIP-16-115 authorizing a

6 higher level of CIP expenditures is expected to be issued November 12, 2019.

7 Obviously this timing did not allow the Company to incorporate the

8 approved levels in this initial rate case filing. If necessary, the Company will

9 propose an adjustment in Rebuttal Testimony to modify the CIP expenditures

10 and offsetting revenues to reflect the final authorized level in the test year.

11

12 3) *Interchange ROE*

13 Q. PLEASE DESCRIBE THE INTERCHANGE ROE ADJUSTMENT.

14 A. We have adjusted the 2020-2022 MYRP interchange billings between NSPM

15 and NSPW to reflect a proposed change to the Interchange Agreement ROE.

16 On October 2, 2019, the NSP Companies filed with FERC revisions to the

17 “Restated Agreement to Coordinate Planning and Operations and

18 Interchange Power and Energy between Northern States Power Company

19 (Minnesota) and Northern States Power Company (Wisconsin),” proposing to

20 reduce the rate of return on common equity from 11.47 percent to 10.4

21 percent, effective January 1, 2020. The proposed changes are pending FERC

22 acceptance.

23

24 This adjustment reflects the impact of the Interchange Agreement ROE

25 change and increases MYRP Forecast revenue requirements by the amounts

26 shown on:

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

- 1 • Schedule 11, page 1, row 41, column 11,
- 2 • Schedule 12, page 1, row 22, columns 5 through 7,
- 3 • Volume 4, Section VIII Adjustments, Tab A18.

4
5 If FERC modifies the Interchange Agreement ROE to a level that is different
6 from the NSP Companies' proposal, the Company will update the MYRP
7 revenue requirement in Rebuttal Testimony to reflect the final accepted
8 Interchange Agreement ROE.

9
10 4) *Incentive Compensation*

11 Q. PLEASE DESCRIBE THE INCENTIVE COMPENSATION ADJUSTMENT.

12 A. We have adjusted MYRP Forecast costs to exclude the budgeted costs of: 1)
13 the long-term portion of the incentive compensation, other than incentive
14 compensation related to environmental goals; 2) any non-corporate incentive
15 plan costs; and 3) all Annual Incentive Plan amounts above 20 percent of
16 each individual's base pay. Company witness Ms. Ruth K. Lowenthal
17 discusses incentive compensation in her Direct Testimony.

18
19 This adjustment decreases MYRP Forecast revenue requirements by the
20 amounts shown on:

- 21 • Schedule 11, page 1, row 41, column 12,
- 22 • Schedule 12, page 1, row 23-25, columns 5 through 7,
- 23 • Volume 4, Section VIII Adjustments, Tab A19-A21.

24

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 5) *Mankato Energy Center*

2 Q. PLEASE DESCRIBE THE MANKATO ENERGY CENTER ADJUSTMENT.

3 A. The 2020-2022 budget developed in July 2019 assumed NSPM regulatory
4 ownership of the Mankato Energy Center (MEC), including components of
5 capital and O&M expenses. Based on the Commission's decision in Docket
6 IP6949, E002/PA-18-702, these MEC-related capital and O&M expenses
7 need to be removed, and the PPA costs need to be reinstated. This
8 adjustment changes the 2020-2022 MYRP budget to reflect the Mankato
9 Energy Center purchases as a PPA.

10
11 This adjustment impacts the MYRP Forecast revenue requirements by the
12 amounts shown on:

- 13 • Schedule 10, page 1, row 41, column 5,
- 14 • Schedule 11, page 1, row 41, column 13,
- 15 • Schedule 12, page 1, row 26-27, columns 5 through 7,
- 16 • Volume 4, Section VIII Adjustments, Tab A22-A23.

17
18 6) *Active Health Care Expense*

19 Q. PLEASE DESCRIBE THE ACTIVE HEALTH CARE EXPENSE ADJUSTMENT.

20 A. The per-book amounts for active healthcare in the 2020-2022 budget include
21 estimates due to a lag between when healthcare is provided and when the
22 Company receives a bill for that care. This adjustment changes the per-book
23 amounts in the MYRP Forecast so they reflect the actual incurred claim
24 amounts during that period. Please see the Direct Testimony of Mr. Richard
25 R. Schrubbe for a more information.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 This adjustment impacts the MYRP Forecast revenue requirements by the
2 amounts shown on:

- 3 • Schedule 11, page 1, row 41, column 14,
- 4 • Schedule 12, page 1, row 28, columns 5 through 7,
- 5 • Volume 4, Section VIII Adjustments, Tab A24.

6
7 7) *Deferred Pension Expense*

8 Q. PLEASE DESCRIBE THE DEFERRED PENSION EXPENSE ADJUSTMENT.

9 A. This adjustment reflects the annual amount of the three-year amortization of
10 the XES Plan cap cumulative deferred balance. The cumulative deferred
11 balance is discussed in the Direct Testimony of Mr. Schrubbe.

12
13 This adjustment impacts MYRP Forecast revenue requirements by the
14 amounts shown on:

- 15 • Schedule 11, page 1, row 41, column 15,
- 16 • Schedule 12, page 1, row 29, columns 5 through 7,
- 17 • Volume 4, Section VIII Adjustments, Tab A25.

18
19 8) *Pension Discount Rate Expense*

20 Q. PLEASE DESCRIBE THE PENSION DISCOUNT RATE EXPENSE ADJUSTMENT.

21 A. This adjustment reflects the Company's recalculation of its MYRP Forecast
22 pension costs using a five-year average discount rate. The Company
23 determined the five-year rolling average discount rate consistent with Order
24 Point 7 in Docket No. E002/GR-13-868. Mr. Schrubbe discusses the
25 pension discount rate in his Direct Testimony.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 This adjustment impacts MYRP Forecast revenue requirements by the
2 amounts shown on:

- 3 • Schedule 11, page 1, row 41, column 16,
- 4 • Schedule 12, page 1, row 30, columns 5 through 7,
- 5 • Volume 4, Section VIII Adjustments, Tab A26.

6
7 9) *Non-Qualified Pension Expense*

8 Q. PLEASE DESCRIBE THE NON-QUALIFIED PENSION EXPENSE ADJUSTMENT.

9 A. This adjustment excludes from the MYRP Forecast all non-qualified pension
10 expenses related to the Company's Supplemental Executive Retirement Plan
11 (SERP) and Restoration Plan. Non-qualified pension expenses are discussed
12 in the Direct Testimony of Ms. Lowenthal. Our treatment of SERP and
13 restoration costs in this case is consistent with treatment of these costs in our
14 last rate case, Docket No. E002/GR-15-826. As discussed further by Ms.
15 Lowenthal, we are making the adjustment for Restoration Plan costs to
16 reduce the number of disputed issues in this case.

17
18 This adjustment impacts MYRP Forecast revenue requirements by the
19 amounts shown on:

- 20 • Schedule 11, page 1, row 41, column 17,
- 21 • Schedule 12, page 1, row 31, columns 5 through 7,
- 22 • Volume 4, Section VIII Adjustments, Tab A27.

23

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 10) *Retiree Medical Discount Rate Expense*

2 Q. PLEASE DESCRIBE THE RETIREE MEDICAL DISCOUNT RATE PENSION
3 EXPENSE ADJUSTMENT.

4 A. The Commission’s Order in Docket No. E002/GR-13-868 states the
5 discount rate used to calculate retiree medical benefit costs for ratemaking
6 purposes shall be set to equal the five-year average of the FAS 106-based
7 discount rates. An adjustment is necessary to reflect the use of the five-year
8 average discount rate to calculate retiree medical benefits and reflect the
9 appropriate expense level in the MYRP Forecast. Mr. Schrubbe discusses
10 retiree medical benefits and the discount rate in his Direct Testimony.

11
12 This adjustment impacts MYRP Forecast revenue requirements by the
13 amounts shown on:

- 14 • Schedule 11, page 1, row 41, column 18,
- 15 • Schedule 12, page 1, row 32, columns 5 through 7,
- 16 • Volume 4, Section VIII Adjustments, Tab A28.

17
18 11) *Trading – Asset Based Margin*

19 Q. PLEASE DESCRIBE THE ASSET BASED MARGIN ADJUSTMENT.

20 A. Consistent with previous rate cases, the adjustment to Asset Based Margins
21 excludes the budgeted asset based energy sales margins from the test year. As
22 I previously explained, asset based energy sales margins are passed through to
23 customers through the FCA. Accordingly, this adjustment ensures no double
24 counting occurs between base rates and the FCA.

25 This adjustment impacts MYRP Forecast revenue requirements by the
26 amounts shown on:

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

- 1 • Schedule 11, page 1, row 41, column 19,
2 • Schedule 12, page 1, row 33, columns 5 through 7,
3 • Volume 4, Section VIII Adjustments, Tab A29.

4

5 This impact is offset by the amount of actual asset based margins credited to
6 the fuel cost revenue requirement on a going forward basis in the FCA.

7

8 12) *Trading – Non-Asset Based Margin*

9 Q. PLEASE DESCRIBE THE NON-ASSET BASED MARGIN ADJUSTMENT.

10 A. Consistent with our process to develop test and plan year base rates, the
11 adjustment to Non-Asset Based Margins excludes the non-asset based trading
12 margins from the test year so that the Company retains all margins resulting
13 from non-asset based trading activity. As discussed above, the Company
14 excludes from the test year the fully allocated costs of performing activities
15 associated with achieving these trades.

16

17 This adjustment impacts MYRP Forecast revenue requirements by the
18 amounts shown on:

- 19 • Schedule 11, page 1, row 41, column 21,
20 • Schedule 12, page 1, row 34, columns 5 through 7,
21 • Volume 4, Section VIII Adjustments, Tab A30.

22

23 13) *Trading – Non-Asset Based Administration*

24 Q. PLEASE DESCRIBE THE NON-ASSET TRADING ADJUSTMENT RELATED TO
25 ADMINISTRATION.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 A. This adjustment excludes the fully allocated non-asset based trading O&M
2 and associated IT costs from the test year deficiency based on a cost study.
3 The cost study measures the fully allocated non-asset based trading costs
4 included in the 2020-2022 capital and O&M budget and is provided as
5 Exhibit____(BCH-1), Schedule 17, Non-Asset Based Trading Cost Study.

6
7 This adjustment impacts MYRP Forecast revenue requirements by the
8 amounts shown on:

- 9 • Schedule 11, page 1, row 41, column 20,
- 10 • Schedule 12, page 1, row 35, columns 5 through 7,
- 11 • Volume 4, Section VIII Adjustments, Tab A31.

12
13 *14) Transmission ROE*

14 Q. PLEASE DESCRIBE THE TRANSMISSION ROE ADJUSTMENT.

15 A. In his Direct Testimony, Mr. Benson describes the MISO ROE complaints
16 and the potential test year impact on transmission revenues and expenses of
17 any final decision from FERC related to the November 2013 and February
18 2015 MISO ROE Complaints. The Company believes a determination at
19 FERC on this matter should not impact the retail jurisdiction, and the cost of
20 capital should be treated consistently across our rate base; therefore, we are
21 proposing this adjustment to calculate the net transmission revenue credit
22 using the ROE approved by the Commission in this case. For purposes of
23 this filing, the adjustment was prepared based on the last authorized ROE of

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 9.06 percent for the TCR.⁷ In final compliance, the Company will make an
2 adjustment to reflect the final authorized ROE in this case.

3
4 This adjustment includes the impact on Attachment O, GG and MM from
5 the MISO Transmission Formula Rate which will be partially offset in the
6 TCR Rider removal of RECB revenue and expenses discussed in Sections VII
7 and VIII of my testimony. This adjustment impacts the MYRP Forecast
8 revenue requirements by the amounts shown on:

- 9 • Schedule 11, page 1, row 41, column 22,
- 10 • Schedule 12, page 1, row 36, columns 5 through 7,
- 11 • Volume 4, Section VIII Adjustments, Tab A32.

12
13 **C. Amortizations**

14 15) *Aurora Deferral*

15 Q. PLEASE DESCRIBE THE AURORA DEFERRAL EXPENSE AMORTIZATION.

16 A. The Commission's Order in Docket No. E-002/M-15-330 approved the
17 power purchase agreement between Xcel Energy and Aurora Distributed
18 Solar, LLC. This resource was disputed by the South Dakota Public Utilities
19 Commission (SDPUC) in Docket EL16-037 and resulted in recovery limited
20 to an energy proxy price (derived from the system average cost of fuel and
21 purchased power), with no capacity component. The Company is therefore
22 requesting authorization to recover the difference between the contracted

⁷ In Docket No. E002/M-17-797 the Minnesota Public Utilities Commission ordered the following: Xcel Energy must "use an ROE of 9.06 percent in all electric dockets filed by the Company that require an ROE until the Commission issues an Order in the Company's next rate case authorizing a different

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 PPA and the proxy price through this case. Mr. Chamberlain discusses this
2 request in his Direct Testimony. We are requesting recovery of these costs
3 over the two-year period from 2020-2021, along with the ability to pass this
4 cost on a going forward basis to MN customers through the FCA beginning
5 January 1, 2022.

6
7 Q. PLEASE DESCRIBE HOW THE AURORA DEFERRAL EXPENSE AMORTIZATION
8 ADJUSTMENT WAS CALCULATED.

9 A. This adjustment reflects 31 months of actual and 29 months of budgeted PPA
10 costs in excess of the energy proxy price referenced above from January 1,
11 2017, the date the South Dakota Public Utilities Commission denied recovery,
12 to January 1, 2022, the date the Company requests to shift recovery to the
13 FCA. The total accumulated balance over the five years is then amortized
14 over 24 months.

15
16 This adjustment impacts the MYRP Forecast revenue requirements by the
17 amounts shown on:

- 18 • Schedule 10, page 1, row 41, column 6,
- 19 • Schedule 11, page 1, row 41, column 23,
- 20 • Schedule 12, page 1, row 39, columns 5 through 7,
- 21 • Volume 4, Section VIII Adjustments, Tab A33.

22
ROE.” September 27, 2019 ORDER AUTHORIZING RIDER RECOVERY, SETTING RETURN ON EQUITY,
AND SETTING FILING REQUIREMENTS, p. 8.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 16) *LED Street Lighting Amortization*

2 Q. PLEASE DESCRIBE THE LED STREET LIGHTING AMORTIZATION.

3 A. The Commission’s Order in Docket No. E002/GR-15-826 approved deferral
4 of the LED Street Lighting revenue requirements. The Company is therefore
5 requesting authorization to recover a total of \$0.503 million in LED Street
6 Lighting costs over the MYRP Forecast.

7
8 This adjustment impacts the MYRP Forecast revenue requirements by the
9 amounts shown on:

- 10 • Schedule 10, page 1, row 41, column 7,
11 • Schedule 11, page 1, row 41, column 24,
12 • Schedule 12, page 1, row 40, columns 5 through 7,
13 • Volume 4, Section VIII Adjustments, Tab A34.

14
15 17) *NOL Tax Reform Regulatory Amortization*

16 Q. PLEASE DESCRIBE THE NOL TAX REFORM REGULATORY AMORTIZATION.

17 A. The Commission’s Order in Docket No. E,G999/CI-17-895 approved the
18 Company’s proposed amortization level included in the TCJA refund
19 calculation. This is being amortized over 23 years.

20
21 The adjustment impacts the MYRP Forecast revenue requirements by the
22 amounts shown on:

- 23 • Schedule 10, page 1, row 41, column 8,
24 • Schedule 11, page 1, row 41, column 25,

25

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

- 1 • Schedule 12, page 1, row 41, columns 5 through 7,
- 2 • Volume 4, Section VIII Adjustments, Tab A35.

3

4 18) *Prairie Island EPU Deferred Costs*

5 Q. PLEASE EXPLAIN THE ADJUSTMENT NEEDED TO RECOVER THE PRAIRIE
6 ISLAND EXTENDED POWER UPRATE (EPU) DEFERRED COSTS.

7 A. The Commission's Order in Docket No. E002/GR-13-868 approved the
8 recovery of the abandoned Prairie Island EPU project costs over the
9 remaining life of the plant through an amortization expense. The Order also
10 approved including this unrecovered investment in rate base, but limited the
11 return on rate base related to this project to the weighted cost of debt.

12

13 The amortization and rate of return adjustment impacts the MYRP Forecast
14 revenue requirements by the amounts shown on:

- 15 • Schedule 10, page 1, row 41, column 9,
- 16 • Schedule 11, page 1, row 41, column 26,
- 17 • Schedule 12, page 1, row 42, columns 5 through 7,
- 18 • Volume 4, Section VIII Adjustments, Tab A36.

19

20 Q. PLEASE DESCRIBE THE PRAIRIE ISLAND EPU ADJUSTMENTS INCLUDED IN THE
21 2020-2022 MYRP COSS IN MORE DETAIL.

22 A. First, the various rate base and income statement components related to the
23 amortization of this deferred cost are input as an adjustment to the cost of
24 service. This results in the calculation of the overall revenue requirement
25 associated with this project. Embedded in these calculations is a computation
26 of return on rate base at the overall weighted cost of capital (debt and equity).

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 To adjust for the ordered weighted cost of debt return requirement, the
2 Company computes the revenue requirements associated with the weighted
3 cost of equity and includes the result of this calculation as Other Revenues to
4 reduce the deficiency by this amount. Because this adjustment includes a
5 return in the calculation, this adjustment will require a recalculation if return
6 component weighted costs are adjusted during this case.

7
8 *19) Rate Case Expense*

9 Q. PLEASE DESCRIBE THE RATE CASE EXPENSE AMORTIZATION.

10 A. The Company is requesting authorization to recover a total of \$5.382 million
11 in rate case costs over the MYRP Forecast. We are requesting recovery of
12 these costs over the three-year period 2020-2022, consistent with our Multi-
13 Year Rate Plan.

14
15 Q. PLEASE DESCRIBE HOW RATE CASE EXPENSE WAS ESTIMATED.

16 A. The rate case expense budget was developed by first reviewing actual
17 expenses incurred in our 2015 electric rate case. We built the 2020 rate case
18 budget based upon a combination of our plans for outside experts, expected
19 regulatory and legal fees and estimates for administrative costs such as
20 required notices.

21
22 This adjustment impacts the MYRP Forecast revenue requirements by the
23 amounts shown on:

- 24 • Schedule 11, page 1, row 41, column 27,

25

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

- 1 • Schedule 12, page 1, row 43, columns 5 through 7,
- 2 • Volume 4, Section VIII Adjustments, Tab A37.

3
4 20) *Sherco 3 Depreciation*

5 Q. PLEASE DESCRIBE THE SHERCO 3 DEPRECIATION DEFERRAL AMORTIZATION.

6 A. The Commission's Order in Docket No. E002/GR-12-961 required the
7 Company to defer the depreciation expense incurred for Sherco 3 during the
8 extended repair outage following the 2011 catastrophic event and amortize it
9 over the remaining life of the plant.

10
11 The adjustment impacts the MYRP Forecast revenue requirements by the
12 amounts shown on:

- 13 • Schedule 10, page 1, row 41, column 10,
- 14 • Schedule 11, page 1, row 41, column 28,
- 15 • Schedule 12, page 1, row 44, columns 5 through 7,
- 16 • Volume 4, Section VIII Adjustments, Tab A38.

17
18 **D. Rider Removals**

19 21) *Renewable Connect Removal and Avoided Capacity*

20 Q. PLEASE DESCRIBE THE RENEWABLE CONNECT (R*C) REMOVAL AND
21 AVOIDED CAPACITY ADJUSTMENT.

22 A. The Renewable*Connect program is a stand-alone retail service program with
23 discrete revenues, purchase power contracts and operating expenses. We
24 have excluded all Renewable*Connect revenues and associated expenses from
25 our MYRP Forecast revenue requirements determination.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Renewable*Connect is a voluntary renewable energy program that gives
2 customers an option to purchase renewable energy to meet all of their energy
3 needs. Customers can choose to subscribe to a five or ten year term or on a
4 month-to-month basis. A customer subscribing to Renewable*Connect is
5 charged the Renewable*Connect price in lieu of the fuel clause pricing, which
6 is based on the Company's current mix of energy resources.

7
8 Including Renewable*Connect as part of a utility's resource mix means that
9 the utility avoided building or purchasing from other sources. The kWh cost
10 of renewable energy purchased by a utility includes a capacity factor or value
11 which would otherwise have been included in the utility's base rates and paid
12 by all customers because all customers benefit from the capacity. This
13 capacity credit is subtracted from the Renewable*Connect rate because it is a
14 cost that should be shared by all customers, rather than only by
15 Renewable*Connect customers. The Direct Testimony of Company witness
16 Mr. Michael A. Peppin further supports the development of the
17 Renewable*Connect avoided capacity credit.

18
19 The net of these adjustments impacts the MYRP Forecast revenue
20 requirements by the amounts shown on:

- 21 • Schedule 11, page 1, row 41, column 29,
- 22 • Schedule 12, page 1, row 47, columns 5 through 7,
- 23 • Volume 4, Section VIII Adjustments, Tab A39.

24

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 22) *Windsorce Removal and Avoided Capacity*

2 Q. PLEASE DESCRIBE THE WINDSORCE REMOVAL AND AVOIDED CAPACITY
3 ADJUSTMENT.

4 A. The Windsorce program is a stand-alone retail service program with discrete
5 revenues, purchase power contracts and operating expenses. We have
6 excluded all Windsorce revenues and associated expenses from our MYRP
7 Forecast revenue requirements determination.

8
9 Including wind energy generation as part of a utility's resource mix means that
10 the utility avoided building or purchasing from other sources. The kWh cost
11 of wind energy purchased by a utility includes a capacity factor or value which
12 would otherwise have been included in the utility's base rates and paid by all
13 customers because all customers benefit from the capacity. This capacity
14 credit is subtracted from the Windsorce rate because it is a cost that should
15 be shared by all customers, rather than only by Windsorce customers. The
16 Direct Testimony of Company witness Mr. Michael A. Peppin further
17 supports the development of the Windsorce avoided capacity credit.

18
19 The net of these adjustments impacts the MYRP Forecast revenue
20 requirements by the amounts shown on:

- 21 • Schedule 11, page 1, row 41, column 32,
- 22 • Schedule 12, page 1, row 50, columns 5 through 7,
- 23 • Volume 4, Section VIII Adjustments, Tab A42.

24

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 23) *RES Rider*

2 Q. IS THE COMPANY PROPOSING CONTINUED USE OF THE RES RIDER DURING
3 THE MYRP?

4 A. Yes. As I describe in detail in Section VIII, Costs Recovered in Riders, we
5 propose continued use of the RES Rider during the MYRP for the projects
6 that will not be placed in service as of December 31, 2019.

7

8 Q. PLEASE DESCRIBE THE RES RIDER REMOVAL ADJUSTMENT.

9 A. The RES Rider removal adjustment removes all costs and PTCs from the test
10 year jurisdictional cost of service for the projects that we propose will stay in
11 the rider after the implementation of final rates in this case. The RES Rider
12 test year adjustment ensures no double recovery of these costs.

13

14 For PTCs related to energy production at other Company-owned wind farms,
15 currently and proposed to be included in base rates, we propose to continue
16 the true-up to actual PTCs in the RES Rider. These wind farms include
17 Borders Wind Farm, Nobles Wind Farm, Pleasant Valley Wind Farm,
18 Courtenay Wind Farm, Foxtail Wind Farm, Blazing Star I Wind Farm and
19 Lake Benton Wind Farm. Finally, should the Company sell any Renewable
20 Energy Credits (RECs), the proceeds from those sales would be shared with
21 customers through the RES Rider.

22

23 Q. WHAT COSTS ARE INCLUDED IN THE RES RATE RIDER REMOVAL
24 ADJUSTMENT?

25 A. This adjustment includes project costs and PTCs for the Blazing Star II Wind
26 Farm, Freeborn Wind Farm, Crowned Ridge Wind Farm, Dakota Range

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Wind Farm, Community Wind North Wind Farm, Jeffers Wind Farm and
2 Mower Wind Farm, and RES Rider present revenue associated with these
3 items that are proposed to be included in the RES Rider after the
4 implementation of final rates. Costs or revenues associated with the PTC
5 true-up and RECs sales occur only on an actual basis and, as such, require no
6 test year adjustment.

7
8 This adjustment decreases the MYRP Forecast rate base by \$549.960 million
9 in 2020, as well as \$942.039 million and \$920.073 million in years 2021 and
10 2022 respectively. The adjustment has a net zero impact on the MYRP
11 Forecast revenue requirements, as we expect full recovery in the RES rider.
12 Support for these amounts can be found on:

- 13 • Schedule 10, page 1, row 41, column 11,
- 14 • Schedule 11, page 1, row 41, column 30,
- 15 • Schedule 12, page 1, row 48, columns 5 through 7,
- 16 • Volume 4, Section VIII Adjustments, Tab A40.

17
18 *24) TCR Rider*

19 Q. IS THE COMPANY PROPOSING CONTINUED USE OF THE TCR RIDER DURING
20 THE MYRP?

21 A. Yes. As I describe in detail in Section VIII, Costs Recovered in Riders, we
22 propose continued use of the TCR Rider during the MYRP for the projects
23 that will not be placed in service as of December 31, 2019 and MISO
24 Regional Expansion Criteria and Benefits (RECB) Schedule 26 and 26A
25 revenues net of expenses.

26

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. PLEASE DESCRIBE THE TCR RIDER REMOVAL ADJUSTMENT.

2 A. The TCR Rider removal adjustment removes all costs and revenues from the
3 MYRP Forecast jurisdictional cost of service for the Advanced Distribution
4 Management System (ADMS) and Huntley-Wilmarth projects, as well as
5 MISO RECB Schedule 26 and 26A net revenues. In our TCR Rider filing, we
6 proposed to include these project costs and revenues in the TCR Rider, and
7 to continue cost recovery for these projects in the rider after the
8 implementation of final rates in this case. The TCR Rider MYRP Forecast
9 adjustment ensures no double recovery of these costs.

10

11 This adjustment decreases the MYRP Forecast rate base by \$43.772 million in
12 2020, as well as \$66.423 million and \$74.773 million in years 2021 and 2022
13 respectively. The adjustment has a net zero impact on the MYRP Forecast
14 revenue requirements, as we expect full recovery in the TCR Rider. Support
15 for these amounts can be found on:

- 16 • Schedule 10, page 1, row 41, column 12,
- 17 • Schedule 11, page 1, row 41, column 31,
- 18 • Schedule 12, page 1, row 49, columns 5 through 7,
- 19 • Volume 4, Section VIII Adjustments, Tab A41.

20

21 Q. IS THE TCR RIDER REMOVAL BASED ON THE SAME DATA AS WAS USED IN THE
22 2019-2020 TCR RIDER FILING?

23 A. Yes, the same vintage of data was used for both the rate case test year and our
24 TCR Rider filing. However, we note the two filings calculate revenue
25 requirements using different rate base averaging methodologies, and certain
26 inputs in the rider are required to use historically-approved values. Therefore,

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 even though the underlying data is the same, small variances exist in the
2 revenue requirement calculations between the two filings.

3
4 **E. Secondary Cost of Service Calculations**

5 25) *ADIT Pro-Rate – IRS Required*

6 Q. PLEASE DESCRIBE THE ADIT PRO-RATE ADJUSTMENT THAT IS REQUIRED BY
7 THE IRS AND INCLUDED IN THESE SECONDARY CALCULATIONS.

8 A. In general, the IRS tax regulations in Sec. 1.167(l) define a pro-rated schedule
9 for the extent average accumulated deferred income taxes can be used to
10 reduce rate base to comply with the tax normalization requirements of the
11 Code when forecast information is used to set rates. Given that the
12 Company's MYRP filing utilizes forecast test year data, this condition applies.
13 This has been supported by a number of Private Letter Rulings (PLRs) issued
14 by the IRS. In addition, FERC approved the pro-ration logic included in the
15 Company's Attachment O-NSP transmission formula rate of the MISO Open
16 Access Transmission, Energy and Operating Reserve Markets Tariff in
17 Docket No. ER18-2322-000.

18
19 This secondary calculation limits the ADIT deduction from rate base by
20 applying the IRS defined pro-rate method to only the forecast entries to this
21 balance. During final validation on the ADIT pro-rate calculation, we
22 identified that the pro-rate factor used in our model had inadvertently
23 included a double average of the factor. This has been corrected in our
24 interim rate petition and is discussed further in Section F below. Support for
25 this calculation is included in Exhibit___(BCH-1), Schedule 19, ADIT Pro-

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Rate. The IRS requirements for this adjustment are described in more detail
2 in the Direct Testimony of Ms. Wold.

3
4 The adjustment impacts the MYRP Forecast revenue requirements by the
5 amounts shown on:

- 6 • Schedule 10, page 1, row 41, column 13,
- 7 • Schedule 11, page 1, row 41, column 33,
- 8 • Schedule 12, page 1, row 53, columns 5 through 7,
- 9 • Volume 4, Section VIII Adjustments, Tab A43.

10
11 *26) Cash Working Capital*

12 Q. PLEASE DESCRIBE THE CASH WORKING CAPITAL ADJUSTMENT BEING MADE
13 AS A SECONDARY CALCULATION.

14 A. As discussed earlier in Section IV.E, Other Rate Base, the Company has
15 incorporated a secondary calculation to apply the various revenue lead days
16 and expense lag days to the various income statement components to result in
17 the appropriate cash working capital rate base adjustment. The adjustment
18 impacts the MYRP Forecast revenue requirements by the amounts shown on:

- 19 • Schedule 10, page 1, row 41, column 14,
- 20 • Schedule 11, page 1, row 41, column 34,
- 21 • Schedule 12, page 1, row 54, columns 5 through 7,
- 22 • Volume 4, Section VIII Adjustments, Tab A44.

23

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 calculates the required operating income resulting from the change in the
2 overall cost of capital applied to the requested rate base.

3
4 We calculated the revenue deficiencies in this manner so that changes, if any,
5 in the overall cost of capital that occurs during the duration of the rate case
6 do not affect the revenue requirements for each adjustment. The adjustment
7 reflects both the change in the stated ROE of 9.20 percent in our last rate
8 case to 10.20 percent (for final rates only) as well as the changes in short-term
9 and long-term debt.

10
11 The impact of these adjustments on the MYRP Forecast revenue
12 requirements is shown on:

- 13 • Schedule 11, page 1, row 41, column 35,
- 14 • Volume 4, Section VIII Adjustments, Tab A46,
- 15 • Schedules 11, 2020-2022 Income Statement Adjustment Schedule,
16 Page 3, Column 34.

17
18 28) *Net Operating Loss*

19 Q. PLEASE DESCRIBE THE COMPANY'S NET OPERATING LOSS POSITION.

20 A. The NSPM income tax determination was in a net operating loss (NOL)
21 position through 2018. This means that more deductions existed in the
22 current period than are needed to bring current taxable income to zero. The
23 Company still has federal tax credits that have been deferred and tracked for
24 use in future periods. The Company worked with the Department on this
25 issue, which resulted in a process for reporting these deferred balances and
26 returning to customers the revenue requirement reduction associated with the

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 utilization of these deferred balances in the form of a refund or as a reduction
2 to base rates.

3
4 Net Operating Losses, unused tax credits and the associated ratemaking
5 treatment are discussed in detail earlier in my testimony in Section V. D.
6 Taxes.

7
8 Q. IS THE COMPANY PROPOSING AN ADJUSTMENT TO BASE RATES RELATED TO
9 NET OPERATING LOSSES IN THIS CASE?

10 A. No. The Company was able to utilize the remainder of the deductions
11 previously deferred.

12
13 Q. IS THE COMPANY PROPOSING AN ADJUSTMENT TO BASE RATES RELATED TO
14 DEFERRED TAX CREDITS IN THIS CASE?

15 A. Yes, the Company is utilizing federal tax credits during the 2020-2022 MYRP,
16 but due to the amount of federal tax credits earned during the year, the DTA
17 is increasing in each year of the MYRP. As noted previously in my testimony,
18 any changes in the revenues, expenses or capital structure will cause the
19 income tax calculation to be changed. This could in turn affect the timing of
20 the DTAs being generated or consumed and added to or removed from rate
21 base.

22
23 This adjustment impacts the MYRP Forecast revenue requirements by the
24 amounts shown on:

25

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

- 1 • Schedule 10, page 1, row 41, column 16,
- 2 • Schedule 11, page 1, row 41, column 36,
- 3 • Schedule 12, page 1, row 55, columns 5 through 7,
- 4 • Schedule 20, Net Operating Loss,
- 5 • Volume 4, Section VIII Adjustments, Tab A45.

6

7 **F. Rebuttal Adjustments**

8 Q. WHAT INFORMATION DO YOU PROVIDE IN THIS SECTION?

9 A. In this section, I provide details related to three adjustments we identified
10 during our final quality assurance reviews performed just prior to this filing.
11 These adjustments reflect small changes we believe necessary that we
12 identified after we finalized our cost of service and rate design that we were
13 not able to incorporate due to timing constraints. Consistent with prior rate
14 cases, we propose to incorporate these adjustments into the MYRP Forecast
15 revenue requirement when we file Rebuttal Testimony.

16

17 29) *Cost of Capital*

18 Q. PLEASE DESCRIBE THE REBUTTAL ADJUSTMENT RELATED TO COST OF
19 CAPITAL.

20 A. As discussed previously in my testimony, the Company issued a bond after the
21 cost of service was generated, which resulted in a decrease to the cost of
22 capital. This change will reduce the overall deficiency. This change is
23 reflected in our interim rate revenue deficiency in our Interim Rate Petition,
24 Schedule B, Part 3 of 3, page 1. Our cost of service will be corrected in
25 Rebuttal for final rates.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 32) *Lobbying Expense*

2 Q. PLEASE DESCRIBE THE REBUTTAL ADJUSTMENT RELATED TO LOBBYING
3 EXPENSE.

4 A. The Company was completing final validation and discovered that \$0.178
5 million of lobbying labor was included in our 2020 test year budget. An
6 adjustment will be made to reduce the overall deficiency. This change is
7 reflected in our interim rate revenue deficiency, and will be corrected in
8 Rebuttal for final rates.

9
10 33) *Fleet Capital Additions*

11 Q. PLEASE DESCRIBE THE REBUTTAL ADJUSTMENT RELATED TO FLEET CAPITAL
12 ADDITIONS.

13 A. After the cost of service was completed, we discovered that the Fleet capital
14 additions budgeted for Energy Supply and Nuclear for 2020-2022 did not
15 have closing patterns to incorporate these capital additions in the Company's
16 calculation of the Minnesota cost of service. We will include these additions
17 in an adjustment made in Rebuttal Testimony. This change will increase the
18 overall deficiency. This change is not included in interim rates, but will be
19 corrected in Rebuttal Testimony for final rates.

20
21 34) *FERC Audits (Potential Adjustment)*

22 Q. PLEASE DESCRIBE THE POTENTIAL REBUTTAL ADJUSTMENT RELATED TO THE
23 FERC AUDITS.

24 A. As discussed in the Direct Testimony of Ms. Schmidt, the Company is
25 currently evaluating the impacts of the Xcel Energy Services Inc. FERC audit

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 findings but expects any impact to the MYRP Forecast (if there is any impact)
2 to be immaterial.

3
4 The FERC audit findings related to the NSPM FERC audit were incorporated
5 into the transmission revenue and expense MYRP Forecast included in the
6 rate case, to the extent they impacted the transmission formula development.
7 The audit findings would have no financial impact on other rate base, so no
8 Rebuttal adjustment is anticipated.

9
10 *35) Bonus Tax Depreciation (Potential Adjustment)*

11 Q. PLEASE DESCRIBE THE POTENTIAL REBUTTAL ADJUSTMENT RELATED TO
12 BONUS TAX DEPRECIATION.

13 A. The MYRP Forecast was prepared in a manner consistent with the tax
14 guidance available at the time of preparation and filing of our 2018 tax return.
15 The 2018 tax return was filed on September 12, 2019. Based on the guidance
16 available, no bonus depreciation beyond December 31, 2017 was included in
17 the filing. Subsequent to the filing of our return, the United States Treasury
18 and the IRS released final and proposed regulations on 100 percent bonus
19 depreciation and phase down of previous bonus depreciation, respectively.
20 The Company is working to determine how, if at all, the new guidance
21 impacts the MYRP Forecast and in Rebuttal will propose any adjustment that
22 may be needed to reflect the new guidance, but does not believe it to be
23 material to our cost of service. We will include these adjustments in our
24 Rebuttal Testimony.

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

VIII. COSTS RECOVERED IN RIDERS

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

Q. WHAT TOPICS DO YOU DISCUSS IN THIS SECTION OF YOUR TESTIMONY?

A. In this section, I present our proposed treatment of costs recovered in riders during the MYRP period, including riders that we propose to continue to use and costs we propose to move to base rates. I provide detailed information supporting the adjustments to the MYRP Forecast that I presented in Section VII of my testimony.

Q. WHAT RIDER MECHANISMS ARE CURRENTLY USED BY THE COMPANY?

A. The Company currently uses six cost recovery riders:

- Renewable Energy Standards (RES) Rider,
- Transmission Cost Recovery (TCR) Rider,
- Renewable Development Fund (RDF) Rider,
- Conservation Improvement Program (CIP) Rider,
- Windsource Rider,
- Renewable Connect Rider, and
- Fuel Clause Adjustment Rider (FCA).

Q. WHAT IS THE COMPANY PROPOSING WITH RESPECT TO THE TREATMENT OF COSTS RECOVERED THROUGH RATE RIDERS?

A. As discussed and supported in the Direct Testimony of Mr. Chamberlain, we propose to:

- Continue use of the RES Rider for recovery of costs for the Blazing Star II, Freeborn, Crowned Ridge, Dakota Range, Community Wind

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 North, Jeffers and Mower Wind Farms and the associated PTCs, the
2 PTC true-up for other Company-owned wind projects, and sharing
3 with customers potential proceeds related to any Renewable Energy
4 Credits the Company may sell in the future after the implementation of
5 final rates in this case. All current and proposed rider projects and
6 revenue credits will be collected through the RES Rider during the
7 interim rate period.

- 8 • Continue use of the TCR Rider, with costs for ADMS and Huntley
9 Wilmarth, and MISO RECB Schedule 26 and 26A net revenues to
10 continue to be included in the rider after implementation of final rates
11 in this case. All current and proposed rider projects and revenue
12 credits will be collected through the RES Rider during the interim rate
13 period.
- 14 • Continue use of the RDF Rider, CIP Rider, Windsorce Rider,
15 Renewable Connect Rider, and the FCA in their current forms.

16
17 In the following subsections of my testimony, I will address our proposed rate
18 case treatment for each of these riders in detail, and discuss how the
19 Company ensures there is no double recovery of these costs.

20
21 Q. WHAT IS THE COMPANY'S BASE RATE REVENUE REQUIREMENT EXCLUSIVE OF
22 RIDER ROLL-INS?

23 A. Our proposed total revenue requirement in 2020, 2021, and 2022, including
24 our proposed increase in base rates, is approximately \$2.4 billion in 2020, \$2.5
25 billion in 2021 and \$2.6 billion in 2022, as shown in Table 12 below.

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

Table 12

Total Cost Recovery Including Riders

Recovery Method	\$ in Thousands		
	2020 Test Year	2021 Plan Year	2022 Plan Year
Present Revenues	\$3,121,140	\$3,080,944	\$3,069,438
Cumulative Rate Increase	201,427	347,795	466,104
Proposed Revenues	3,322,567	3,428,739	3,535,542
Less: Rider Revenue included in present revenue			
TCR Rider	88,375	85,369	82,638
CIP Rider	15,868	16,367	16,351
FCA Rider	796,051	796,051	796,051
RDF Rider	34,361	33,888	37,139
RES Rider	27,082	21,069	16,340
Total Rider Revenue included in present revenue	961,737	952,743	948,519
Net Base Rate Revenue Requirement	2,360,830	2,475,996	2,587,023

Rate rider recovery estimates are preliminary, are subject to change, and are also subject to the Commission's decision in individual rate rider dockets. We provide this information so that the Commission, parties, and our customers can understand the combined impact of our requests.

A. RES Rider

Q. WHAT IS THE RES RIDER?

A. The RES Rider is authorized by Minn. Stat. § 216B.1645, subd. 2a for the recovery of a utility's investments, expenses, or costs associated with facilities constructed, owned, or operated by a utility to satisfy the Minnesota Renewable Energy Standard.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. WHAT COSTS ARE CURRENTLY INCLUDED IN THE RES RIDER?

2 A. The Commission's Order in Docket No. E002/M-17-818 approved our 2017
3 and 2018 RES Rider request to recover the costs of the following projects in
4 the RES Rider:

- 5 • Courtenay Wind Farm,
- 6 • Foxtail Wind Farm,
- 7 • Blazing Star I Wind Farm,
- 8 • Lake Benton Wind Farm,
- 9 • Blazing Star II Wind Farm,
- 10 • Freeborn Wind Farm,
- 11 • Crowned Ridge Wind Farm,
- 12 • PTCs for all wind farms above,
- 13 • PTC true up for wind farms included in base, and
- 14 • REC sales proceeds.

15

16 Q. WHAT IS THE COMPANY'S PROPOSAL WITH RESPECT TO THE RES RIDER
17 DURING THE MULTI-YEAR RATE PLAN?

18 A. As described earlier, we propose to:

- 19 • Move Courtenay Wind Farm, Foxtail Wind Farm, Blazing Star I Wind
20 Farm and Lake Benton Wind Farm projects from RES Rider recovery
21 to base rate recovery coincident with implementation of final rates in
22 this rate case;
- 23 • Continue including Costs and Production Tax Credits of the Blazing
24 Star II Wind Farm, Freeborn Wind Farm and Crowned Ridge Wind
25 Farm in the RES Rider;

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

- 1 • Begin recovery of costs and refunds for PTCs on Dakota Range Wind
2 Farm;
- 3 • In the RES Rider, true-up actual PTCs related to energy production at
4 Borders Wind Farm, Nobles Wind Farm, Pleasant Valley Wind Farm,
5 Courtenay Wind Farm, Foxtail Wind Farm, Blazing Star I Wind Farm
6 and Lake Benton Wind Farm compared to the amount included in base
7 rates; and
- 8 • Include in the RES Rider customers' share of potential proceeds related
9 to any Renewable Energy Credits the Company may sell in the future.

10

11 These costs are fully supported in our 2019 and 2020 RES Rider petition
12 being prepared concurrently with the preparation of my Direct Testimony.

13

14 Q. PLEASE BRIEFLY DESCRIBE THE COMPANY'S REQUEST FOR RECOVERY OF THE
15 WIND PROJECTS GOING INTO SERVICE IN 2020 AND BEYOND IN THE RES
16 RIDER.

17 A. As described by Mr. Chamberlain, the Company proposes to recover all wind
18 farms going into service in 2020 and beyond through the RES Rider. We
19 propose to recover the capital-related revenue requirements and property
20 taxes as well as incremental operating and maintenance expenses. We also
21 propose to include all of the PTCs associated with these projects in the RES
22 Rider. Therefore, we have not included any PTCs for these projects in the
23 2020-2022 MYRP as a part of our 2020-2022 MYRP.

24

25 Q. HOW IS THE RES RIDER TREATED WITH RESPECT TO PTCs IN THE 2020-2022
26 MYRP?

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 A. The Company requests PTC treatment consistent with the previously
2 approved process. Specifically, we request that:

3 1) A new baseline PTC will be set in this rate case. We have included
4 PTC amounts shown in Table 7 above as the base amount in the 2020-
5 2022 MYRP. See Schedule 18, Production Tax Credits. These PTCs
6 are generated from the Nobles, Pleasant Valley, Border, Courtenay,
7 Foxtail, Blazing Star I and Lake Benton Winds facilities which are
8 included in the 2020-2022 MYRP.

9 2) The difference between actual and baseline PTCs be recorded in the
10 RES Tracker account.

11 3) The difference will be either refunded to, or recovered from, customers
12 as established in future RES Rider filings.

13
14 Because we propose that the true-up between the level of PTCs included in
15 base rates through this MYRP and the actual amount of PTCs earned in the
16 respective period would occur through the RES Rider, we do not anticipate a
17 need to address this issue in the base rate revenue requirement in the final
18 compliance filing.

19
20 Q. WHAT ADJUSTMENT HAVE YOU MADE TO ENSURE NO DOUBLE RECOVERY OF
21 COSTS RECOVERED IN THE RES RIDER AFTER THE IMPLEMENTATION OF
22 FINAL RATES IN THIS CASE?

23 A. The project costs and revenues associated with the projects remaining in the
24 RES Rider have been removed from our 2020-2022 MYRP. A review is also
25 done for each RES filing to ensure that no costs included in base rates are
26 included in the RES filing. I provide information related to the 2020-2022

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 MYRP adjustment that ensures no double recovery of these costs in Section
2 VII.D. Rider Removals, RES Rider Adjustment 23.

3
4 **B. TCR Rider**

5 Q. WHAT IS THE TCR RIDER?

6 A. The TCR Rider is authorized by Minn. Stat. § 216B.16, subd. 7b to allow the
7 recovery of Minnesota jurisdictional costs related to transmission and grid
8 modernization investments and for MISO charges incurred for projects for
9 which MISO assigns regional costs under Schedule 26 and Schedule 26A of
10 its Tariff.

11
12 Q. WHAT COSTS ARE CURRENTLY INCLUDED IN THE TCR RIDER?

13 A. The Commission's Order in Docket No. E002/M-17-797 approved our 2017
14 and 2018 TCR Rider request to recover the following projects in the TCR
15 Rider:

- 16 • ADMS,
- 17 • CapX2020 Brookings,
- 18 • CapX2020 Fargo,
- 19 • CapX2020 La Crosse,
- 20 • Big Stone – Brookings,
- 21 • La Crosse – Madison, and
- 22 • MISO RECB Schedule 26 and 26A net revenue.

23
24 Q. WHAT IS THE COMPANY'S PROPOSAL WITH RESPECT TO THE TCR RIDER
25 DURING THE MULTI-YEAR RATE PLAN?

26 A. As described earlier, we propose to:

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

- 1 • Move the three CapX2020 La Crosse projects, CapX2020 Brookings,
2 CapX2020 Fargo, Big Stone–Brookings, and La Crosse-Madison
3 projects from TCR Rider recovery to base rate recovery coincident
4 with implementation of final rates in this rate case;
- 5 • Continue recovery of the ADMS project in the TCR Rider;
- 6 • Begin recovery of the Huntley–Wilmarth project in the TCR Rider
7 effective January 1, 2019. This request will be included 2019 and 2020
8 TCR Rider filing, which will follow the filing of this rate case; and
- 9 • Continue recovery of MISO RECB Schedule 26 and 26A net revenue
10 in the TCR Rider.

11

12 These costs are fully supported in our 2019 and 2020 TCR petition, which is
13 being prepared concurrently with the preparation of my Direct Testimony.

14

15 Q. PLEASE DESCRIBE THE PROJECTS THAT WILL REMAIN IN THE TCR RIDER
16 AFTER THE IMPLEMENTATION OF FINAL RATES.

17 A. The Company is requesting continued recovery of the ADMS project, and to
18 begin recovery of the Huntley–Wilmarth project through the TCR Rider. We
19 propose to recover these projects through the TCR Rider because these are
20 large qualifying projects that are not yet fully in service. We are also
21 requesting to continue recovery of the MISO RECB Schedule 26 and 26A net
22 revenues through the TCR Rider.

23

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. WHAT ADJUSTMENT HAVE YOU MADE TO ENSURE NO DOUBLE RECOVERY OF
2 PROJECTS CONTINUING RECOVERY IN THE TCR RIDER AFTER THE
3 IMPLEMENTATION OF FINAL RATES IN THIS CASE?

4 A. The project costs and revenues remaining in the TCR Rider have been
5 removed from our 2020-2022 MYRP. A review is also done for each TCR
6 filing to ensure that no costs included in base, are included in the TCR filing. I
7 provide information related to the 2020-2022 MYRP adjustment that ensures
8 no double recovery of these costs in Section VII.D. Rider Removals, TCR
9 Rider Adjustment 24.

10

11 **C. TCR and RES Rider Roll-In**

12 Q. YOU NOTED YOU ARE PROPOSING TO MOVE PROJECTS TO BASE RATES AT THE
13 CONCLUSION OF THIS RATE CASE. PLEASE DESCRIBE HOW THESE PROJECTS
14 WILL BE ROLLED IN TO BASE RATES.

15 A. As noted above, we propose to move projects from the TCR and RES riders
16 to base rates at the conclusion of this case because it reduces the Interim Rate
17 increase and helps eliminate any potential for double recovery of costs.
18 Coincident with the implementation of final rates in this rate case, the project
19 costs will be removed from the TCR and RES Riders for the remaining
20 months of the year and final rates will be designed to recover the costs of
21 these projects. This approach is consistent with the method used in Docket
22 No. E002/GR-10-971, where we moved the Metropolitan Emission
23 Reduction Project (MERP) costs recovered through the Environmental
24 Improvement Rider (EIR) and the Nobles Wind, Grand Meadow Wind and
25 Wind2Battery projects recovered through the RES Rider into base rates when
26 final rates were implemented in that case.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 More specifically, the TCR and RES rate riders will be updated to exclude
2 costs for these projects from the TCR and RES Riders for the remaining
3 months of the year following implementation. The TCR and RES present
4 revenues will be excluded from the 2021 plan year and final rates will be
5 designed to recover the final revenue requirement approved by the
6 Commission, including the final revenue requirement for these projects. The
7 interim rate refund will not be affected for these projects, as any over/under
8 recovery during the Interim Rate period related to these projects will remain
9 in the TCR or RES rider.

10
11 Q. WHAT DOES THE COMPANY PROPOSE TO INCLUDE IN ITS FINAL RATE
12 COMPLIANCE TO SUPPORT MOVEMENT OF THESE PROJECTS FROM THE TCR
13 RIDER TO BASE RATES?

14 A. We propose to submit a TCR and RES Rider compliance reports with Final
15 Rate compliance. This report will clearly identify the revenue requirements
16 removed from the TCR and RES Riders, the revenue recovered from
17 customers for the projects moving to base rates during the Interim Rate
18 period, and the development of the revised TCR and RES Rider adjustment
19 factors. The Company anticipates this process will be similar to the process
20 used to move recovery of CIP costs from the CIP Rider to base rates.

21
22 Q. HOW ARE THE PROJECTS THAT WILL MOVE TO BASE RATES TREATED DURING
23 THE INTERIM RATE PERIOD?

24 A. During the interim rate period, the Company proposes that the identified
25 projects continue recovery through the TCR or RES Riders, along with the

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 other costs that we are proposing to continue to recover through the TCR
2 and RES Riders after implementation of final rates.

3
4 Q. IF YOU ARE PROPOSING TO INCLUDE THE PROJECTS IN THE TCR AND RES
5 RIDERS DURING THE INTERIM RATE PERIOD, HOW WILL YOU ENSURE NO
6 DOUBLE RECOVERY OF THESE PROJECT COSTS OCCURS DURING THIS TIME?

7 A. Because we are proposing to continue recovery of these projects through the
8 TCR and RES Riders during the interim period and move these projects into
9 base rates at the end of this case. The 2020 test year also includes the project
10 costs in the test year cost of service as well as the project revenues (from the
11 TCR Rider) in present revenue. Thus, an interim rate adjustment is necessary
12 to ensure no double recovery of these costs during the interim rate period.
13 Accordingly, our 2020 and 2021 Interim Rate requests each include an
14 adjustment to remove the projects identified to roll into base rates and
15 present revenue and revenue requirements from the development of Interim
16 Rates.

17
18 Q. PLEASE PROVIDE ADDITIONAL DETAIL RELATED TO THE INTERIM RATE
19 ADJUSTMENT FOR THE TCR AND RES RIDER COSTS.

20 A. The Interim Rate Adjustment removes the project costs and revenue
21 requirements included in the 2020 test year and 2021 plan year from the
22 Interim Cost of Service. This adjustment decreases the Interim Cost of
23 Service rate base and revenue deficiency by the amounts shown in table 13
24 below.

25

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

Table 13

Rider Removals from Interim Rates (\$ in millions)

	Decrease in Rate Base		Decrease in Revenue Requirement	
	2020	2021	2020	2021
TCR Rider	\$610.507	\$587.378	\$5.141	\$4.946
RES Rider	577.286	515.166	4.861	4.338
TOTAL Rider Removal	<u>\$1,187.793</u>	<u>\$1,102.544</u>	<u>\$10.002</u>	<u>\$9.284</u>

The TCR and RES Rider removal for Interim Rates results in a reduction to our Interim Rate request primarily because the present revenue from the TCR and RES Rider revenue requirements are calculated at the last authorized rate of return rather than the rate of return requested in this case. Additional detail on these adjustments can be found in Volume 1, Notice of Change in Rates and Interim Rate Petition, Interim Rate Supporting Schedules and Workpapers.

Q. DO YOU PROVIDE ANY OTHER INFORMATION RELATED TO TREATMENT OF TCR AND RES RIDER COSTS AND PROJECTS DURING THE MULTI-YEAR RATE PLAN PERIOD?

A. Yes. Exhibit___(BCH-1), Schedule 22, Rider Roll-in Timeline, provides a timeline illustrating how projects will be rolled in to base rates or will remain in the TCR and RES Riders during the course of the multi-year rate plan.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 **D. RDF Rider**

2 Q. WHAT COSTS ARE RECOVERED THROUGH THE RDF RIDER?

3 A. Commission-approved RDF costs pursuant to Minn. Stat. §§ 116C.779 and
4 216B.1645, subd. 2 are recovered from retail customers through the RDF
5 Rider.

6

7 Q. HOW IS THE RDF RIDER TREATED IN THE MYRP FORECAST?

8 A. Both revenue and amortization expense for the RDF Rider are included in the
9 MYRP Forecast. The amount of each is equal and, therefore, does not
10 contribute to the MYRP Forecast deficiency. Any true-up of the revenues
11 and costs will occur in the RDF Rider, such that there will be no need to
12 address a change in revenue requirement in the final compliance filing.

13

14 **E. CIP Rider**

15 Q. WHAT COSTS ARE RECOVERED THROUGH THE CIP RIDER?

16 A. The CIP Rider is designed to recover conservation and demand-side
17 management program costs that are incremental to the level collected in base
18 rates. Base electric rates are designed to include conservation and demand-
19 side management cost at an authorized level approved by the Deputy
20 Commissioner of the Minnesota Department of Commerce, Division of
21 Energy Resources for a given test year. The CIP Rider collects any
22 incremental conservation and demand-side management costs above the
23 authorized level in final base rates.

24

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. HOW IS THE CIP RIDER TREATED IN THE MYRP FORECAST?

2 A. As discussed in Section VII, Annual Adjustments to the Test Year, the CIP
3 Rider amount in the case is at the level needed to assure that the CIP revenue
4 (Base and Rider) is equal to the expense in the MYRP Forecast. With the
5 total amount of CIP expense and CIP revenue equal, the overall CIP program
6 does not contribute to the test year deficiency.

7

8 **F. Windsource Rider**

9 Q. WHAT COSTS ARE RECOVERED THROUGH THE WINDSOURCE RIDER?

10 A. Costs related to the Windsource program, a stand-alone retail service program
11 with discrete revenues, purchase power contracts and operating expenses, are
12 recovered through the Windsource Rider.

13

14 Q. HOW IS THE WINDSOURCE RIDER TREATED IN THE MYRP FORECAST?

15 A. All revenue and expense related to the Windsource program is excluded from
16 the MYRP Forecast. The Windsource rider removal adjustment shown in
17 column 32 of Exhibit___(BCH-1), Schedules 11a-11c, 2020-2022 Income
18 Statement Adjustment Schedules reflects the removal of the Windsource
19 related expenses and revenue included in base data, and does not impact the
20 deficiency. Any true up of the revenues and costs incurred during the MYRP
21 Forecast will occur in the Windsource Rider and, therefore, there will be no
22 need to address a change in revenue requirement in the final compliance
23 filing. Further information is provided in Section VII, Annual Adjustments to
24 the Test Year.

25

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

G. Renewable*Connect Rider

1 Q. WHAT COSTS ARE RECOVERED THROUGH THE RENEWABLE*CONNECT RIDER?

2 A. Costs related to the Renewable*Connect program, a stand-alone retail service
3 program with discrete revenues, purchase power contracts and operating
4 expenses, are recovered through the Renewable*Connect Rider.
5

6
7 Q. HOW IS THE RENEWABLE*CONNECT RIDER TREATED IN THE MYRP
8 FORECAST?

9 A. All revenue and expense related to the Renewable*Connect program is
10 excluded from the MYRP Forecast. The Renewable*Connect Rider removal
11 adjustment shown in column 29 of Schedules 11a-11c, 2020-2022 Income
12 Statement Adjustment Schedule reflects the removal of the
13 Renewable*Connect-related expenses and revenue included in base data, and
14 does not impact the deficiency. Any true-up of the revenues and costs
15 incurred during the MYRP Forecast will occur in the Renewable*Connect
16 Rider, such that there will be no need to address a change in revenue
17 requirement in the final compliance filing. Further information is provided in
18 Section VII, Annual Adjustments to the Test Year.
19

H. Fuel Clause Adjustment (FCA)

20 Q. WHAT COSTS ARE RECOVERED THROUGH THE FCA?

21 A. Fuel and purchased energy are recovered from customers through the FCA.
22
23

24 Q. HOW IS THE FCA TREATED IN THE MYRP FORECAST?

25 A. Both revenue and fuel expenses recovered through the FCA are included in
26 the MYRP Forecast, and the total amount of each is equal. Any true-up of

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 the revenues and costs during the MYRP Forecast will occur in the FCA and,
2 therefore, there will be no need to address a change in revenue requirement in
3 the final compliance filing. I provide a reconciliation of fuel costs and
4 revenues in the Cost of Service in Schedule 21, Fuel Reconciliation. As
5 required by the Commission in its October 17, 2019 decision in Docket No.
6 E999/CI-03-802 (although no Order has yet been issued as of the finalization
7 of my Direct Testimony), this schedule illustrates that fuel costs are equal to
8 fuel costs to be recovered through the FCA and thus the Company's
9 proposed base rates do not include any amount of FCA costs.

10
11 **I. Electric Vehicle Program Tracker**

12 Q. PLEASE DESCRIBE THE STATUS OF THE ELECTRIC VEHICLE TRACKER AND
13 DEFERRAL.

14 A. In its June 22, 2015, Order in Docket No. E002/M-15-111, the Commission
15 approved the Company using a tracker account to defer costs associated with
16 electric vehicle (EV) rate education and outreach activities. Consistent with
17 Minn. Stat. § 216B.1614, subd. 2(2), the Company attributes costs to the
18 tracker associated with providing general EV information, as well as EV rate-
19 specific information. Additionally, in granting approval for several EV pilots
20 in its July 17, 2019 Order in Docket No. E002/M-18-643, the Commission
21 approved deferred accounting for Xcel Energy's O&M and depreciation
22 expenses related to the capital assets that are placed in service for these pilots.
23 This deferred accounting applied to expenses incurred between the date of
24 the Commission's Order (July 17, 2019) and January 1, 2020.

25

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 Q. WHAT IS THE COMPANY’S PROPOSED TREATMENT OF EV PILOT COSTS
2 DURING THE MYRP?

3 A. The Company proposes to incorporate the balance in the EV tracker and the
4 final deferral balance related to Docket No. E002/18-643 into a three-year
5 amortization over the MYRP to ensure that all expenses incurred up until
6 January 1, 2020 are included in base rates. The total amount of these costs
7 will be known at the time of Rebuttal Testimony (which is anticipated to be
8 due after the conclusion of calendar year 2020), and will therefore be updated
9 at that time.

10

11 As noted in the Direct Testimony of Ms. Bloch, certain O&M expenses
12 related to the EV pilots approved in Docket No. E002/M-18-643 and
13 proposed in the Company's June 2019 Transportation Electrification Plan
14 (Docket No. E999/CI-17-879) are not yet included in the rate case. Going
15 forward, the Company proposes to either continue use of the EV tracker
16 account that was established in Docket No. E002/M-15-111 to track these
17 costs for future recovery or, if that option is not preferred, include these
18 expenses in O&M expenses as a Rebuttal Testimony adjustment. This
19 omitted O&M amounts to: (1) \$2.3 million (2020); (2) \$2.7 million (2021); and
20 (3) \$2.3 million (2022).

21

22 **IX. COMPLIANCE WITH PRIOR COMMISSION ORDERS**

23

24 Q. WHAT TOPIC DO YOU DISCUSS IN THIS SECTION OF YOUR TESTIMONY?

25 A. The Completeness Checklist included in the Direct Testimony of Mr.
26 Chamberlain as Exhibit____(GPC-1), Schedule 2 documents how our rate case

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 filing includes information required by Rule or prior Commission Orders, and
2 provides specific references to the testimony of Company witnesses that
3 addresses each requirement. In this section of my testimony, I identify and
4 provide information related to specific requirements from prior Commission
5 Orders that have not been addressed elsewhere in my testimony.

6
7 **A. General Rate Case – Docket No. E002/GR-12-961**

8 1) *Mapping to FERC Form 1*

9 Order Point 47 from Docket E002/GR-12-961 stated:

10
11 Expanding upon the information filed under Minnesota Rules
12 7825.4000(B) and 7825.4100(B), direct the Company to include in
13 its initial filing of its next rate case balance sheet and income
14 statement reconciliations between its FERC Form 1 and its general
15 ledger accounts for each of the three most recent calendar years
16 relative to the rate case test year. The schedules provided should be
17 produced in like manner as requested and illustrated in the
18 Department's Information Request 128-Revised, marked in the
19 record as Exhibit 163, DOC Attachment ACB-15.

20
21 These requirements have been met. The mapping to FERC Form 1 is located
22 in Volume 3, Required Information, Section IV, Other Required Information,
23 Tab 5, GAAP/FERC/COSS Comparison. There we provide accounting of
24 the NSPM Total Company for 2015 to 2018. For each year, we provide the
25 GAAP financial statements reconciled to the FERC Form 1. We then
26 provide the FERC Form 1 reconciled to the Minnesota Jurisdictional Annual
27 Report Total Company amounts.

28

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 2) *Changes Between Actuals and MYRP Forecast*

2 Order Point 47 also requests explanations for deviations ten percent or
3 greater (+/- 10 percent) “between actuals and [the Company’s] test-year
4 request.” Explanations of operating expense variations of +/-5 percent and
5 +/- \$500,000 are provided for 2018 actuals compared to the 2020 budget by
6 FERC account in Volume 6, Budget Documentation, Variance Analysis.
7 Explanations of variations of +/-10 percent on rate base items are provided
8 with the schedules in Volume 3, Required Information, Section IV, Other
9 Required Information, Tab 5, GAAP/FERC/COSS Comparison

10
11 3) *Financial Labeling*

12 In the Revenue Requirement Rebuttal Testimony in Docket E002/GR-12-
13 961, the Company agreed to make efforts to label all costs and revenues to the
14 relevant financial source: Xcel Energy Services, Inc.; NSP System; NSP-
15 Minnesota or NSPM (Total Company – electric and gas utilities); NSPM
16 Electric; and State of Minnesota Electric Jurisdiction. We have made a good
17 faith effort to satisfy that commitment.

18
19 For reference, following is a list of the labels used and the definitions of each.

- 20 • Xcel Energy or XEI: The entire enterprise – XES, NSPM, NSPW, SPS,
21 PSCo, and affiliate companies.
- 22 • XES: Xcel Energy Services: Xcel Energy’s service company that
23 provides services across all Xcel Energy affiliate companies.
- 24 • NSPM (Total Company): Northern States Power Company-Minnesota,
25 providing service to electric and gas customers in Minnesota, North
26 Dakota, and South Dakota.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

- 1 • NSPW (Total Company): Northern States Power Company-Wisconsin,
2 providing service to electric and gas customers in Wisconsin and
3 Michigan.
- 4 • NSP System: The combined NSPM and NSPW electric production and
5 transmission system.
- 6 • NSPM Electric: Northern States Power Company, including the
7 portion allocated or direct assigned to the electric utility.
- 8 • State of Minnesota: Items physically located in the State of Minnesota
9 such as distribution facilities or property taxes assessed by the State.
- 10 • State of Minnesota Electric Jurisdiction: Amounts direct assigned or
11 allocated to the electric utility and to the State of Minnesota.
12 Interchange Agreement billings to and from NSPW are reflected in
13 revenues and expenses, respectively.
- 14 • State of Minnesota Electric Jurisdiction net of Interchange Agreement
15 billings to NSPW or State of Minnesota Electric Jurisdiction, net of
16 Interchange: The net amount allocated to the cost of service for electric
17 customers in the State of Minnesota. The portion of the item billed to
18 NSPW through the Interchange Agreement has been netted against the
19 item to show the net impact to Minnesota electric customers.

20
21 Other Company witnesses provide amounts in their testimonies from several
22 applicable financial sources. To the extent practicable, they have also
23 provided the State of Minnesota jurisdictional amount. The jurisdictional
24 amounts were developed under my guidance and are consistent with
25 development of allocators as explained in the Cost Assignment and Allocation
26 Manual presented by Ms. Schmidt as Schedule 3 to her Direct Testimony, and

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 in Schedule 3, Cost of Service Study Summary to my Direct Testimony. In
2 order to provide further context, an index to these financial sources is
3 included as Exhibit____(BCH-1), Schedule 5, Labeling of Financial Sources.
4

5 4) *Wholesale Customer Study*

6 With respect to the costs and revenues related to services provided to wholesale
7 customers, the Company and Department agreed as follows:

8
9 The Company will provide as a compliance filing in future rate cases
10 a wholesale customer study which shows all wholesale customers
11 being served by the Company (including, but not limited to, full
12 requirements, partial requirements, and market based wholesale
13 customers), types of service being provided to each wholesale
14 customer, costs and revenues associated with each wholesale
15 customer, and a clear showing either that wholesale costs are
16 allocated out of the retail rate case or that the revenues are included
17 in the retail rate case, for all services provided to wholesale
18 customers.⁹
19

20 Schedule 14, Wholesale Customer Study, provides the required information.
21 The study does not address wholesale transmission revenues. Wholesale
22 transmission revenues and associated costs are discussed in the Direct
23 Testimony of Mr. Benson.
24

25 **B. Decommissioning**

26 A discussion of the Company's compliance history and the status of pending
27 dockets with respect to nuclear decommissioning and the use of Department

⁹ May 22, 2013 Issues List Page 19 in Docket No E002/GR-12-961.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 of Energy payments is contained in Section VII. Triennial Nuclear
2 Decommissioning Costs, of Ms. Wold's Direct Testimony.

3
4 **C. Other Compliance Requirements**

5 1) *Incentive Compensation Refunds*

6 In Docket No. E002/GR-10-971, the Commission required Xcel Energy to
7 continue to refund all incentive compensation payments earned according to
8 the Xcel Energy incentive compensation plan and recoverable in rates under
9 the Order, but not paid. For 2018 (paid in March 2019), incentive plan
10 payouts were at a level that required the Company to refund customers \$1.8
11 million, as reported in our annual incentive compensation compliance filing in
12 Docket Nos. E002/GR-92-1185, G002/GR-92-1186, and E,G002/M-19-376
13 on May 31, 2019. Our last rate case, which was based on a 2016 test year and
14 escalated to a 2018 plan year, included the budgeted incentive compensation
15 costs accrued in 2018 and payable in March 2019, after excluding certain costs
16 (*e.g.*, executive long term incentive).

17
18 The 2020 test year includes the budgeted incentive compensation costs
19 accrued in 2020 and payable in March 2021, after excluding certain costs (*e.g.*,
20 executive long term incentive), which I identified in Section VII. B.4, Annual
21 Adjustments to Test Year. As in the past, if the Company does not pay a
22 level of incentive compensation at least equal to the amount of expense
23 recovered in rates, the Company agrees to track and refund the difference to
24 customers.

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 2) *Non-Asset Based Trading Activities–Fully Allocated Cost Study and*
2 *Incremental Cost Study*

3 In Docket No. E002/GR-10-971, the Company was directed to file in its next
4 rate case both an incremental and fully allocated cost study of its non-asset
5 based trading activities. In Direct Testimony in Docket E002/GR-15-826, we
6 requested that only a fully-allocated cost study be submitted in future rate
7 cases, as the incremental study is not used to determine the level of costs to
8 charge to this activity. No opposition was raised in those proceedings.
9 Therefore, only the fully allocated cost study is provided with this testimony
10 as Schedule 17, Non-Asset Based Trading Cost Study.

11
12 3) *Nuclear Fuel Outage Costs*

13 In Docket No. E002/GR-08-1065, the Company was directed to include an
14 analysis of nuclear plant outage costs as shown in Exhibit 86 to the hearing
15 record. The required information is included in Volume 4, Section VIII
16 Adjustments, Tab P4-1. Volume 4 also includes schedules in support of the
17 2021 and 2022 Plan Year nuclear fuel outage costs. These schedules provide
18 a determination of the Minnesota retail jurisdiction revenue requirements
19 associated with the Nuclear Outage Deferral and Amortization method, as
20 well as a comparison to the Direct Expense method for the MYRP Forecast.

21
22 4) *Capacity Cost Report*

23 In Docket No. E002/GR-08-1065, the Commission ordered the Company to
24 describe NSP System short-term and long-term capacity costs by contract.
25 The required information is attached as Exhibit___(BCH-1) Schedule 15,
26 Capacity Cost Study, which is Trade Secret. The methodology for budgeting

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 capacity costs for the 2020-2022 MYRP is similar to that described by Mr.
2 David G. Horneck in his Direct Testimony from Docket No. E002/GR-10-
3 971. Contracts with which NSPM has long-term obligations to purchase
4 capacity remain the same as described in that docket. The Company
5 anticipates that it can meet the expected Midcontinent Independent System
6 Operator (MISO) capacity planning reserve requirements for the 2020
7 planning year from its current generation and long term purchased capacity
8 contracts. Therefore, the Company does not expect to purchase short term
9 capacity contracts for the 2020 test year.

10
11 *5) Lobbyist Compensation*

12 In Docket No. E002/GR-10-971, we agreed to include a report of the total
13 compensation for employees engaged in lobbying with an explanation of the
14 costs included and excluded in the rate request. This information is provided
15 in the Direct Testimony of Mr. O'Hara.

16
17 *6) North Dakota Income Tax Credits*

18 In Docket No. E-002/M-15-805, the Company was instructed to share non-
19 Minnesota state tax credits as follows:

20
21 Northern States Power Company d/b/a Xcel Energy shall credit its
22 Minnesota ratepayers for their proportionate share of used North
23 Dakota Investment Tax Credits associated with the Courtenay
24 Wind project, based on the pro-rata share of the costs of the
25 Courtenay Wind project that is charged to Minnesota ratepayers.
26

27 The North Dakota state credit for North Dakota-located wind generation is
28 the only non-Minnesota state credit utilized by NSPM. Due to the size of the

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 credits available relative to the North Dakota state taxable income, it is
2 anticipated that the utilization of these credits will be limited by taxable
3 income and not specifically known until North Dakota state tax returns are
4 filed. The potential for credits are primarily the result of the Border,
5 Courtenay and Foxtail Wind Farms. Pursuant to the Commission's April 11,
6 2017 Order in Docket No. E002/M-17-818, we will include North Dakota
7 investment tax credits (NDITCs) associated with the wind farms mentioned
8 above in our calculation of the revenue requirements in the RES rider.

9
10 7) *Capital True-Up*

11 Continuing the capital true-up reporting from our last rate case, the Company
12 will submit an annual compliance filing during the MYRP that calculates the
13 prior-year actual plant-related base rate revenue requirements. This
14 compliance filing will compare the actual capital-related revenue requirements
15 (actuals) to the capital forecast revenue requirements (forecast), consistent
16 with the 2018 Capital True-Up Report submitted on May 1, 2019 under
17 Docket No. E002/GR-15-826.

18
19 8) *Recurring Compliance Reporting Requirements*

20 The following compliance requirements are of a recurring nature reported
21 upon in each rate case:

22
23 a) *Edison Electric Institute Spare Transformer Sharing Agreement*

24 The Commission's Order in Docket No. E002/PA-06-1662 required the
25 Company to report any sales or purchases of transformers made under the
26 EEI Spare Transformer Sharing Agreement in its next rate case. Over the life

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 of the program there have been no triggering events to initiate a transformer
2 sale or purchase under the program. Therefore, Xcel Energy has not sold or
3 purchased any transformers under this agreement.

4
5 *b) Minnesota Emissions Allowance*

6 In Docket No. E002/M-94-13, the Commission ordered deferred accounting
7 for revenues from the sale of certain emission allowances until the Company's
8 next general rate case, where the effects of then-new changes to the FERC
9 Uniform System of Accounts could be examined. The Company has
10 continued the deferral over several rate cases, but the accumulated
11 unamortized deferred balance of emission sales is less than \$4,000. Due to
12 the small level in this account that has been accumulating since 2010 when the
13 deferral was last resolved, combined with the limited market for these
14 allowances, the Company is proposing to discontinue the deferral of emission
15 allowances with no adjustment in this proceeding. Thus, there is no
16 adjustment included in this filing.

17
18 *c) Advantage Service (a/k/a HomeSmart)*

19 In Docket No. E002/GR-91-1, the Company was directed to require NSP
20 Advantage Service (now branded as Xcel Energy HomeSmart) to: 1) pay a
21 return on the use of the Company's billing services asset; 2) compensate the
22 Company for its personnel's referral time; and 3) compensate the Company
23 for use of its mailing lists. The Company has complied with these
24 requirements.

25

PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED

1 d) *Liberty Paper*

2 In Docket No. E002/M-93-1253, the Commission ordered the Company to
3 segregate the cost of constructing a steam pipeline from Sherco to Liberty
4 Paper, Inc. from utility rate base, and to record operating and maintenance
5 expenses to non-utility operations. The Company has complied with these
6 requirements.

7
8 e) *Tax Benefit Transfer Leases*

9 In Docket No. G002/GR-97-1606, the Company was directed to treat Tax
10 Benefit Transfer (TBT) leases consistent with prior Commission approved
11 methodology. There are no TBTs included in the MYRP.

12
13 f) *Sale of Renewable Energy Credits*

14 In Docket No. E002/GR-08-1065, the Company was directed to flow
15 revenues from the sale of Renewable Energy Credits (RECs) through the RES
16 Rider. A petition to pass certain RECs to customers using the FCA was
17 approved by the Commission in Docket No. E002/M-12-1132. The
18 Commission ordered the proceeds from the sale of RECs be returned to
19 customers through the RES Rider unless the Commission makes a specific
20 determination to allow a sharing of the proceeds. The Company has
21 complied with this requirement.

22
23 g) *Competitive Bidding*

24 In Docket No. E002/M-95-174 the Company was permitted to offer
25 Company-owned generation to compete against other provider offerings.
26 The Company is required to track capacity-related non-performance penalties

**PUBLIC DOCUMENT
NOT-PUBLIC DATA HAS BEEN EXCISED**

1 on NSP Generation projects for return to customers. We have incurred no
2 such penalties.

X. CONCLUSION

6 Q. PLEASE SUMMARIZE YOUR RECOMMENDATIONS TO THE COMMISSION.

7 A. I recommend that the Commission determine an overall 2020 retail revenue
8 requirement of \$3.3 billion and 2020 revenue deficiency of \$201 million for
9 the Company's Minnesota jurisdictional electric operation, determined by the
10 cost of service for the 2020 test year. I also recommend a revenue deficiency
11 for each year of the MYRP as follows:

Table 14

2020-2022 Revenue Requests

Minnesota Jurisdictional Costs Net of Interchange (\$s in millions)

MYRP Year	2020	2021	2022
Amount, cumulative	\$201.4	\$347.8	\$466.1
Amount, incremental	\$201.4	\$146.4	\$118.3
Average % increase, incremental *	6.5%	4.8%	3.9%

* The average percent increase, incremental is calculated using the incremental revenue request over the forecasted present revenues in each applicable year.

21 Lastly, I also recommend the Commission grant a 2020 interim rate increase
22 of \$122.0 million, and an additional 2021 interim rate increase of \$144.0
23 million, for the Company's Minnesota jurisdictional operation.

25 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

26 A. Yes, it does.

Resume of Benjamin C. Halama

**Manager of Revenue Analysis
Revenue Requirements–North**

**Xcel Energy Services Inc.
414 Nicollet Mall
Minneapolis, MN 55401**

Current Responsibilities

Since September 2018, I have worked as Manager of the Revenue Requirements–North department. In this position, I prepare and present cost of service studies, revenue requirement determinations, and jurisdictional annual reports for the electric and gas operations of Northern States Power Company to the Minnesota Public Utilities Commission, the South Dakota Public Utilities Commission, and the North Dakota Public Service Commission, and the Federal Energy Regulatory Commission.

Prior Testimony

North Dakota - Advance Determination of Prudence for Dakota Range III
Case N. PU-18-430
FERC – Interchange Agreement Annual Update, Docket No. ER19-1340-000,
effective January 2019

Energy-Related Employment History

Xcel Energy – Minneapolis, MN

- Manager of Revenue Requirements–North, September 2018 to Present
- Manager Utility Accounting, May 2015 to August 2018

Education

University of Wisconsin at Eau Claire, May 2002
Bachelor of Science in Accounting

SUMMARY OF REVENUE REQUIREMENTS
(\$000's)

<u>Line</u>	<u>Description</u>	Adjusted Proposed Test Year 2020	Adjusted Proposed Plan Year 2021	Adjusted Proposed Plan Year 2022
1	Average Rate Base	\$8,986,901	\$9,309,544	\$9,805,740
2	Operating Income (Before AFUDC)	\$497,145	\$414,729	\$366,852
3	Allowance for Funds Used During Construction	\$28,846	\$31,000	\$33,500
4	Total Available for Return (Line 2 + Line 3 + Rounding)	\$525,991	\$445,729	\$400,352
5	Overall Rate of Return (Line 4 / Line 1)	5.85%	4.79%	4.08%
6	Required Rate of Return	7.45%	7.45%	7.47%
7	Operating Income Requirement (Line 1 x Line 6)	\$669,524	\$693,561	\$732,489
8	Income Deficiency (Line 7 - Line 4)	\$143,533	\$247,832	\$332,137
9	Gross Revenue Conversion Factor	1.40335	1.40335	1.40335
10	Revenue Deficiency (Line 8 x Line 9)	\$201,427	\$347,795	\$466,104
11	Retail Related Revenue Under Present Rates	\$3,121,140	\$3,080,944	\$3,069,438
12	Revenue Requirements Under Proposed Rates	\$3,322,566	\$3,428,739	\$3,535,542
13	Percentage Increase Needed in Overall Revenue (Line 10 / Line 11)	6.45%	11.29%	15.19%
14	Retail Related Revenue Under Present Rates EXCLUDING FUEL	\$2,325,085	\$2,284,889	\$2,273,383
15	Percentage Increase Needed Excluding Fuel (Line 10 / Line 14)	8.66%	15.22%	20.50%

COST OF SERVICE SUMMARY for 2020-2022 MYRP FORECAST

(\$000s)

Line No.		Minnesota Electric Jurisdiction		
		2020 Test Year	2021 Plan Year	2022 Plan Year
1	Composite Income Tax Rate			
2	State Tax Rate	9.80%	9.80%	9.80%
3	Federal Statutory Tax Rate	21.00%	21.00%	21.00%
4	<u>Federal Effective Tax Rate</u>	18.94%	18.94%	18.94%
5	Composite Tax Rate	28.74%	28.74%	28.74%
6	Revenue Conversion Factor (1/(1--Composite Tax Rate))	1.403351	1.403351	1.403351
7				
8	Weighted Cost of Capital			
9	Active Rates and Ratios Version	Proposed	Proposed	Proposed
10	Cost of Short Term Debt	2.97%	2.99%	3.04%
11	Cost of Long Term Debt	4.42%	4.44%	4.48%
12	Cost of Common Equity	10.20%	10.20%	10.20%
13	Ratio of Short Term Debt	0.87%	1.22%	1.08%
14	Ratio of Long Term Debt	46.63%	46.28%	46.42%
15	Ratio of Common Equity	52.50%	52.50%	52.50%
16	Weighted Cost of STD	0.03%	0.04%	0.03%
17	Weighted Cost of LTD	2.06%	2.05%	2.08%
18	Weighted Cost of Debt	2.09%	2.09%	2.11%
19	<u>Weighted Cost of Equity</u>	<u>5.36%</u>	<u>5.36%</u>	<u>5.36%</u>
20	Required Rate of Return	7.45%	7.45%	7.47%
21				
22	Rate Base			
23	Plant Investment	19,958,469	20,817,953	21,700,191
24	<u>Depreciation Reserve</u>	<u>9,295,420</u>	<u>10,004,539</u>	<u>10,641,880</u>
25	Net Utility Plant	10,663,050	10,813,415	11,058,311
26	CWIP	363,989	417,804	507,890
27				
28	Accumulated Deferred Taxes	2,657,733	2,677,245	2,670,102
29	DTA - NOL Average Balance	(0)	(0)	(0)
31	DTA - Federal Tax Credit Average Balance	<u>(356,731)</u>	<u>(489,606)</u>	<u>(654,397)</u>
32	Total Accum Deferred Taxes	2,301,002	2,187,638	2,015,705
33				
34	Cash Working Capital	(119,149)	(127,030)	(140,888)
35	Materials and Supplies	153,932	153,932	153,932
36	Fuel Inventory	65,875	65,875	65,875
37	Non-plant Assets and Liabilities	60,475	81,070	90,346
38	Customer Advances	(9,797)	(9,797)	(9,797)
39	Customer Deposits	(54,826)	(54,826)	(54,826)
40	Prepays and Other	68,747	67,952	68,129
41	<u>Regulatory Amortizations</u>	<u>95,608</u>	<u>88,788</u>	<u>82,473</u>
42	Total Other Rate Base Items	260,864	265,964	255,244
43				
44	Total Rate Base	8,986,901	9,309,544	9,805,740
45				

COST OF SERVICE SUMMARY for 2020-2022 MYRP FORECAST

(\$000s)

Line No.		Minnesota Electric Jurisdiction		
		2020 Test Year	2021 Plan Year	2022 Plan Year
46	Operating Revenues			
47	Retail	3,120,645	3,080,450	3,068,944
48	Interdepartmental	494	494	494
49	<u>Other Operating Rev - Non-Retail</u>	<u>545,018</u>	<u>560,238</u>	<u>574,740</u>
50	Total Operating Revenues	3,666,158	3,641,182	3,644,178
51				
52	Expenses			
53	Operating Expenses:			
54	Fuel	937,629	937,984	937,289
55	Deferred Fuel			
56	Variable IA Production Fuel			
57	<u>Purchased Energy - Windsource</u>	<u>0</u>	<u>0</u>	<u>0</u>
58	Fuel & Purchased Energy Total	937,629	937,984	937,289
59	Production - Fixed	419,439	431,090	430,921
60	Production - Fixed IA Investment			
61	Production - Fixed IA O&M	32,191	39,885	40,363
62	Production - Variable	6,023	6,338	6,704
63	Production - Variable IA O&M	16,285	15,635	16,433
64	<u>Production - Purchased Demand</u>	<u>130,789</u>	<u>135,602</u>	<u>143,342</u>
65	Production Total	604,726	628,551	637,764
66	Regional Markets	10,571	10,576	10,664
67	Transmission IA	107,247	112,621	119,784
68	Transmission	137,802	137,076	139,239
69	Distribution	114,249	132,140	127,086
70	Customer Accounting	48,973	48,931	43,907
71	Customer Service & Information	105,520	105,532	105,572
72	Sales, Econ Dvlp & Other	(6)	(5)	(5)
73	<u>Administrative & General</u>	<u>246,966</u>	<u>252,269</u>	<u>260,301</u>
74	Total Operating Expenses	2,313,678	2,365,673	2,381,602
75				
76	Depreciation	683,392	719,524	760,859
77	Amortization	43,948	43,475	44,757
78				
79	Taxes:			
80	Property Taxes	178,357	183,524	197,091
81	ITC Amortization	(1,223)	(1,223)	(1,222)
82	Deferred Taxes	23,496	590	(32,132)
83	Deferred Taxes - NOL			
84	Less State Tax Credits deferred			
85	Less Federal Tax Credits deferred	(93,712)	(172,039)	(157,543)
86	Deferred Income Tax & ITC	(71,438)	(172,672)	(190,897)
87	Payroll & Other Taxes	27,259	27,352	27,435
88	Total Taxes Other Than Income	134,178	38,204	33,630
89				

COST OF SERVICE SUMMARY for 2020-2022 MYRP FORECAST

(\$000s)

Line No.		Minnesota Electric Jurisdiction		
		2020 Test Year	2021 Plan Year	2022 Plan Year
90	<u>Income Before Taxes</u>			
91	Total Operating Revenues	3,666,158	3,641,182	3,644,178
92	less: Total Operating Expenses	2,313,678	2,365,673	2,381,602
93	Book Depreciation	683,392	719,524	760,859
94	Amortization	43,948	43,475	44,757
95	<u>Taxes Other than Income</u>	<u>134,178</u>	<u>38,204</u>	<u>33,630</u>
96	Total Before Tax Book Income	490,962	474,306	423,330
97				
98	<u>Tax Additions</u>			
99	Book Depreciation	683,392	719,524	760,859
100	Deferred Income Taxes and ITC	(71,438)	(172,672)	(190,897)
101	Nuclear Fuel Burn (ex. D&D)	105,136	102,794	107,318
102	Nuclear Outage Accounting	43,158	41,788	41,215
103	Avoided Tax Interest	10,700	12,433	15,172
104	<u>Other Book Additions</u>	<u>5,656</u>	<u>5,656</u>	<u>5,656</u>
105	Total Tax Additions	776,603	709,523	739,323
106				
107	<u>Tax Deductions</u>			
108	Total Rate Base	8,986,901	9,309,544	9,805,740
109	Weighted Cost of Debt	2.09%	2.09%	2.11%
110	Debt Interest Expense	187,826	194,569	206,901
111	Nuclear Outage Accounting	29,284	54,072	29,285
112	Tax Depreciation and Removals	997,042	930,357	886,793
113	NOL Utilized / (Generated)			
114	<u>Other Tax / Book Timing Differences</u>	<u>11,855</u>	<u>3,725</u>	<u>(12,176)</u>
115	Total Tax Deductions	1,226,007	1,182,723	1,110,803
116				
117	<u>State Taxes</u>			
118	State Taxable Income	41,558	1,106	51,850
119	State Income Tax Rate	9.80%	9.80%	9.80%
120	State Taxes before Credits	4,073	108	5,081
121	<u>Less State Tax Credits applied</u>	<u>(1,195)</u>	<u>(1,195)</u>	<u>(1,195)</u>
122	Total State Income Taxes	2,877	(1,087)	3,886
123				
124	<u>Federal Taxes</u>			
125	Federal Sec 199 Production Deduction			
126	Federal Taxable Income	38,680	2,193	47,964
127	Federal Income Tax Rate	21.00%	21.00%	21.00%
128	Federal Tax before Credits	8,123	461	10,072
129	<u>Less Federal Tax Credits</u>	<u>(17,184)</u>	<u>60,203</u>	<u>42,520</u>
130	Total Federal Income Taxes	(9,061)	60,663	52,592
131				
132	Total Taxes			
133	Total Taxes Other than Income	134,178	38,204	33,630
134	Total Federal and State Income Taxes	(6,184)	59,576	56,478
135	Total Taxes	127,994	97,781	90,108
136				
137	Total Operating Revenues	3,666,158	3,641,182	3,644,178
138	Total Expenses	3,169,012	3,226,453	3,277,326
139				
140	AFDC Debt	9,050	11,245	12,320
141	AFDC Equity	19,796	19,755	21,180
142				
143	Net Income	525,991	445,729	400,352

COST OF SERVICE SUMMARY for 2020-2022 MYRP FORECAST

(\$000s)

Line No.	Minnesota Electric Jurisdiction			
	2020 Test Year	2021 Plan Year	2022 Plan Year	
144				
145	<u>Rate of Return (ROR)</u>			
146	Total Operating Income	525,991	445,729	400,352
147	<u>Total Rate Base</u>	<u>8,986,901</u>	<u>9,309,544</u>	<u>9,805,740</u>
148	ROR (Operating Income / Rate Base)	5.85%	4.79%	4.08%
149				
150	<u>Return on Equity (ROE)</u>			
151	Net Operating Income	525,991	445,729	400,352
152	Debt Interest (Rate Base * Weighted Cost of Debt)	(187,826)	(194,569)	(206,901)
153	Earnings Available for Common	338,165	251,160	193,451
154	<u>Equity Rate Base (Rate Base * Equity Ratio)</u>	<u>4,718,123</u>	<u>4,887,511</u>	<u>5,148,014</u>
155	ROE (earnings for Common / Equity)	7.17%	5.14%	3.76%
156				
157	<u>Revenue Deficiency</u>			
158	Required Operating Income (Rate Base * Required Return)	669,524	693,561	732,489
159	<u>Net Operating Income</u>	525,991	445,729	400,352
160	Operating Income Deficiency	143,533	247,832	332,137
161				
162	Revenue Conversion Factor (1/(1--Composite Tax Rate))	1.403351	1.403351	1.403351
163	<u>Revenue Deficiency (Income Deficiency * Conversion Factor)</u>	<u>201,427</u>	<u>347,795</u>	<u>466,104</u>
164				
165	<u>Total Revenue Requirements</u>			
166	Total Retail Revenues	3,121,140	3,080,944	3,069,438
167	<u>Revenue Deficiency</u>	<u>201,427</u>	<u>347,795</u>	<u>466,104</u>
168	Total Revenue Requirements	3,322,566	3,428,739	3,535,542
169				
170				
171	<u>Excluding Fuel Clause Expense and Revenue</u>			
172	Base Cost of Energy	796,055	796,055	796,055
173	Line 137 - Total Operating Revenue	2,870,103	2,845,127	2,848,123
174	Line 138 - Total Operating Expense	2,372,958	2,430,398	2,481,271
175	Line 143 - Net Income	525,991	445,729	400,352
176	Change	0	0	0

CASH WORKING CAPITAL

Line No.	Summary Cash Working Capital	Lead/Lag Days	Minnesota Electric Jurisdiction						
			2020 Test Year		2021 Plan Year		2022 Plan Year		
			Dollars	Dollar x Days	Dollars	Dollar x Days	Dollars	Dollar x Days	
1	Fuel Expenses								
2	Coal and Rail Transport	18.40	228,698	4,208,036	228,698	4,208,036	228,698	4,208,036	
3	Gas for Generation	39.39	88,560	3,488,373	88,560	3,488,373	88,560	3,488,373	
4	Oil	10.83	40	437	40	437	40	437	
5	Nuclear and EOL		104,427	-	104,624	-	104,834	-	
6	Subtotal Fuel Expenses		421,725	7,696,845	421,922	7,696,845	422,132	7,696,845	
7	Purchased Power								
8	Purchases	39.59	631,643	25,006,744	636,456	25,197,288	644,196	25,503,700	
9	Interchange	37.29	161,157	6,009,537	173,782	6,480,348	182,503	6,805,550	
10	SubTotal Purchased Power		792,800	31,016,281	810,238	31,677,636	826,699	32,309,250	
11	Labor and Related								
12	Regular Payroll	11.74	362,651	4,257,520	373,994	4,390,685	372,284	4,370,615	
13	Incentive	250.47	14,759	3,696,575	15,201	3,807,473	15,657	3,921,695	
14	Pension and Benefits	37.29	77,314	2,883,038	78,336	2,921,144	79,517	2,965,176	
15	SubTotal Labor and Related		454,723	10,837,133	467,531	11,119,302	467,458	11,257,486	
16	All Other Operating Expenses	43.89	735,400	32,276,716	771,869	33,877,309	776,931	34,099,522	
17	Property taxes	354.80	179,102	63,545,422	187,066	66,371,046	202,475	71,838,111	
18	Employer's Payroll Taxes	31.05	27,259	846,380	27,352	849,267	27,435	851,869	
19	Gross Earnings Tax	58.80	67,116	3,946,413	67,116	3,946,413	67,116	3,946,413	
20	Federal Income Tax	34.50	(32,651)	(1,126,465)	(64,122)	(2,212,221)	(76,415)	(2,636,323)	
21	State Income Tax	30.25	(8,687)	(262,795)	(31,507)	(953,087)	(20,373)	(616,296)	
22	State Sales Tax Customer Billings	35.14	151,865	5,336,532	151,865	5,336,532	151,865	5,336,532	
23	Total Expenses	A	2,788,651	154,112,463	2,809,329	157,709,043	2,845,323	164,083,409	
24	Net Annual Expense		55.26	422,226	56.14	432,080	57.67	449,544	
25	Revenues								
26	Retail Revenue	41.01	3,182,153	130,500,088	3,136,708	128,636,382	3,116,261	127,797,877	
27	Late Payment	-	5,687		5,687		5,687		
28	Interdepartmental	-	494		494		494		
29	Misc Services	41.01	3,593	147,355	3,933	161,273	3,286	134,745	
30	Rentals	(104.24)	4,982	(519,288)	5,006	(521,817)	5,006	(521,817)	
31	Interchange	37.29	393,977	14,691,411	414,576	15,459,549	427,409	15,938,075	
32	Retail Rev Lag Days	41.01	18,376	753,593	17,049	699,197	16,312	668,959	
33	MISO	14.00	6,421	89,897	6,428	89,987	6,434	90,075	
34	Wholesale Lag Days	28.63	202,231	5,789,877	204,100	5,843,389	211,973	6,068,788	
35	Total Revenues	B	3,817,914	151,452,933	3,793,981	150,367,961	3,792,862	150,176,701	
36	Net Annual Amount		39.67	414,940	39.63	411,967	39.59	411,443	
37	Expense/Revenue Factor	C = A/B		73.041%		74.047%		75.018%	
38	Allocated Revenue Amount	D = B * C		<u>303,077</u>		<u>305,049</u>		<u>308,656</u>	
39	Net Cash Working Capital	E = D - A		(119,149)		(127,030)		(140,888)	

LABELING OF FINANCIAL SOURCES

Xcel Energy or XEI

The entire enterprise – XES, NSPM, NSPW, SPS, PSCo, and affiliate companies.

XES: Xcel Energy Services

Xcel Energy's service company that provides services across all Xcel Energy affiliate companies.

NSPM (Total Company)

Northern States Power Company-Minnesota providing service to electric and gas customers in Minnesota, North Dakota, and South Dakota.

NSPW (Total Company)

Northern States Power Company-Wisconsin providing service to electric and gas customers in Wisconsin and Michigan.

NSP System

The combined NSPM and NSPW electric production and transmission system.

NSPM Electric

Northern States Power Company, including the portion allocated or direct assigned to the electric utility.

State of Minnesota

Items physically located in the State of Minnesota, such as distribution facilities or property taxes assessed by the State.

State of Minnesota Electric Jurisdiction

Amounts direct assigned or allocated to the electric utility and to the State of Minnesota. Interchange Agreement billings to and from NSPW are reflected in revenues and expenses, respectively.

State of Minnesota Electric Jurisdiction net of Interchange Agreement billings to NSPW

Or, State of Minnesota Electric Jurisdiction, net of Interchange

The net amount allocated to the cost of service for electric customers in the State of Minnesota. The portion of the item billed to NSPW through the Interchange Agreement has been netted against the item to show the net impact to Minnesota electric customers.

Notes:

1. Jurisdictional numbers will be provided where practicable.
2. The table below shows the typical financial basis from which the allocations are being made, unless otherwise specified.

Order	Topic	Witness	Financial Source
1	Policy / MYRP Policy	Chamberlain	NSPM Electric
2	MYRP	Liberkowski	State of MN Electric Jurisdiction
3	Performance Based Rates (PBR)	Ryan	N/A
4	Revenue Requirements	Halama	State of MN Electric Jurisdiction
5	Capital Structure	Soong	NSPM (Total Company)
6	Return on Equity	Reed	State of MN Electric Jurisdiction
7	Budgeting	Robinson	NSPM Electric
8	Cost Allocations	Schmidt	NSPM Electric
9	Sales Forecast	Marks	NSPM Electric
10	Nuclear Operations	O'Connor	NSPM Electric
11	Transmission	Benson	NSPM Electric
12	Energy Supply	Capra	NSPM Electric
13	Distribution	Bloch	NSPM Electric / State of MN Electric Jurisdiction
14	Business Systems	Harkness	NSPM (Total Company)
15	Customer Experience (AGIS Policy)	Gersack	NSPM (Total Company)
16	AGIS Costs/Benefits	Ravikrishna	NSPM (Total Company)
17	Insurance	Miller	XEI and NSPM (Total Company)
18	Compensation and Benefits	Lowenthal	Xcel Energy, NSPM (Total Company), and NSPM Electric
19	Pension	Schrubbe	State of MN Electric Jurisdiction
20	Pension Investments	Inglis	N/A
21	Employee Expenses	O'Hara	NSPM (Total Company)
22	Depreciation	Wold	NSPM Electric
23	Property Tax	Arend	NSPM (Total Company)
24	Customer Care/Bad Debt	Cardenas	NSPM Electric
25	CCOSS	Peppin	State of MN Electric Jurisdiction
26	Rate Design	Huso	State of MN Electric Jurisdiction
27	Decoupling	Huber	N/A

DETAILED CASE DRIVERS

Test Year Drivers - Revenue Requirements - Incremental

Amounts in millions

Increase / (Decrease)

Line		2020 TY to	2021 TY to	2022 TY to	
No.	Description	2019 MYRP	2020 TY	2021 TY	3-Year MYRP
		Adjusted	Adjusted	Adjusted	Adjusted
	Capital and Capital Related				
1	Nuclear	\$55.2	\$3.0	\$4.9	\$63.1
2	Steam	(18.3)	2.6	4.4	(11.4)
3	Wind	77.0	4.6	(1.1)	80.5
4	All Other Production	2.9	3.8	2.6	9.3
5	Transmission	60.8	1.3	9.5	71.6
6	Distribution	22.8	19.9	32.2	74.9
7	General and Intangible	18.8	11.8	11.9	42.6
8	DTA (Federal Credits & NOL)	5.8	9.2	11.5	26.5
9	Other Rate Base	1.0	0.0	(0.8)	0.2
10	Cost of Capital	66.8	2.4	3.7	72.9
11	TOTAL Capital and Capital Related	\$292.7	\$58.7	\$78.8	\$430.3
12	Amortizations	\$5.4	(\$0.0)	(\$2.0)	\$3.5
	Taxes				
13	Taxes - Other	(\$5.7)	\$6.8	\$14.8	\$16.0
14	PTCs	(67.1)	(0.9)	(3.2)	(71.2)
15	TCJA Impact	(107.5)	-	-	(107.5)
16	Property Tax	(20.4)	5.2	13.6	(1.7)
17	Payroll Tax	(2.6)	0.1	0.1	(2.5)
18	TOTAL Taxes	(\$203.3)	\$11.2	\$25.3	(\$166.9)
	Operating Expense				
19	Nuclear	(\$60.3)	\$6.9	\$2.3	(\$51.1)
20	Steam	(36.3)	3.2	(6.2)	(39.3)
21	Wind	7.1	1.8	3.8	12.7
22	Purchased Demand	2.3	4.8	7.7	14.8
23	All Other Production	7.7	7.1	1.6	16.4
24	Transmission	(1.7)	(1.6)	0.1	(3.1)
25	Transmission Interchange	(22.9)	5.4	7.2	(10.4)
26	Distribution	3.1	17.9	(5.1)	15.9
27	Regional Markets	3.3	0.0	0.1	3.4
28	Customer Accounting / Info / Service	(1.7)	(0.0)	(5.0)	(6.7)
29	A&G	22.5	5.3	8.0	35.9
30	TOTAL O&M	(\$76.9)	\$50.8	\$14.5	(\$11.6)
	Margins				
31	Sales Change	\$94.3	\$33.4	\$7.3	\$135.0
32	TCJA Refunds	107.5	-	-	107.5
34	Other Revenue	(18.3)	(7.7)	(5.7)	(31.7)
35	TOTAL Margins	\$183.4	\$25.7	\$1.7	\$210.8
36	TOTAL Net Incremental Deficiency	\$201.4	\$146.4	\$118.3	\$466.1

COMPARISON OF DETAILED RATE BASE COMPONENTS

Test Year Ending December 31, 2020

(\$000s)

Line No.	Description	General Rate	General Rate	Change
		Case Filing Docket No. E002/GR-15-826 (A)	Case Filing Docket No. E002/GR-19-564 Final Rates (B)	(C) = (B) - (A)
	Electric Plant as Booked			
1	Production	\$10,060,608	\$11,115,442	\$1,054,834
2	Transmission	2,397,725	3,268,599	870,874
3	Distribution	3,658,370	3,883,261	224,891
4	General	888,530	940,887	52,357
5	Common	781,187	750,280	(30,907)
6	TOTAL Utility Plant in Service	\$17,786,420	\$19,958,469	2,172,049
	Reserve for Depreciation			
7	Production	\$6,015,790	\$6,326,757	\$310,967
8	Transmission	619,062	728,387	109,325
9	Distribution	1,391,483	1,446,041	54,558
10	General	451,746	459,973	8,227
11	Common	412,713	334,261	(78,452)
12	TOTAL Reserve for Depreciation	\$8,890,795	\$9,295,420	\$404,625
	Net Utility Plant in Service			
13	Production	\$4,044,818	\$4,788,685	\$743,867
14	Transmission	\$1,778,663	2,540,212	761,549
15	Distribution	\$2,266,887	2,437,219	170,332
16	General	\$436,784	480,914	44,130
17	Common	\$368,473	416,019	47,546
18	Net Utility Plant in Service	\$8,895,625	\$10,663,050	\$1,767,424
19	Utility Plant Held for Future Use	\$0	\$0	\$0
20	Construction Work in Progress	\$380,350	\$363,989	(\$16,362)
21	Less: Accumulated Deferred Income Taxes	\$2,302,072	\$2,301,002	(\$1,071)
22	Cash Working Capital	(\$111,130)	(\$119,149)	(\$8,019)
	Other Rate Base Items:			
23	Materials and Supplies	\$135,797	\$153,932	\$18,134
24	Fuel Inventory	73,476	65,875	(7,601)
25	Non-Plant Assets & Liabilities	27,456	60,475	33,018
26	Customer Advances	(5,562)	(9,797)	(4,235)
27	Interest on Customer Deposits	(28,127)	(54,826)	(26,698)
28	Prepays and Other	85,941	68,747	(17,194)
29	Regulatory Amortizations	\$50,579	95,608	45,029
30	Total Other Rate Base Items	\$339,561	\$380,013	\$40,453
31	Total Average Rate Base	\$7,202,334	\$8,986,901	\$1,784,567

RATE BASE SCHEDULES

Detailed Rate Base Components

(\$000s)

Line No.	Description	2020 Test Year Adjusted (1)	2021 Plan Year Adjusted (1)	2022 Plan Year Adjusted (1)
	Electric Plant as Booked			
1	Production	\$11,115,442	\$11,481,125	\$11,673,805
2	Transmission	3,268,599	3,359,259	3,490,183
3	Distribution	3,883,261	4,136,381	4,500,875
4	General	940,887	1,010,202	1,080,459
5	Common	750,280	830,985	954,870
6	TOTAL Utility Plant in Service	\$19,958,469	\$20,817,953	\$21,700,191
	Reserve for Depreciation			
7	Production	\$6,326,757	\$6,774,974	\$7,136,281
8	Transmission	728,387	787,936	848,684
9	Distribution	1,446,041	1,519,172	1,597,559
10	General	459,973	520,017	582,722
11	Common	334,261	402,441	476,634
12	TOTAL Reserve for Depreciation	\$9,295,420	\$10,004,539	\$10,641,880
	Net Utility Plant in Service			
13	Production	\$4,788,685	\$4,706,151	\$4,537,524
14	Transmission	2,540,212	2,571,324	2,641,499
15	Distribution	2,437,219	2,617,209	2,903,316
16	General	480,914	490,186	497,737
17	Common	416,019	428,545	478,235
18	Net Utility Plant in Service	\$10,663,050	\$10,813,415	\$11,058,311
19	Utility Plant Held for Future Use	\$0	\$0	\$0
20	Construction Work in Progress	\$363,989	\$417,804	\$507,890
21	Less: Accumulated Deferred Income Taxes	\$2,301,002	\$2,187,638	\$2,015,705
22	Cash Working Capital	(\$119,149)	(\$127,030)	(\$140,888)
	Other Rate Base Items:			
23	Materials and Supplies	\$153,932	\$153,932	\$153,932
24	Fuel Inventory	65,875	65,875	65,875
25	Non-Plant Assets & Liabilities	60,475	81,070	90,346
26	Customer Advances	(9,797)	(9,797)	(9,797)
27	Interest on Customer Deposits	(54,826)	(54,826)	(54,826)
28	Prepays and Other	68,747	67,952	68,129
29	Regulatory Amortizations	95,608	88,788	82,473
30	Total Other Rate Base Items	\$380,013	\$392,994	\$396,132
31	Total Average Rate Base	\$8,986,901	\$9,309,544	\$9,805,740

(1) Revenues and expenses for Transmission Cost Recovery (TCR) rider have been excluded.

STATEMENT OF OPERATING INCOME

2019 Final Compliance versus 2020 Test Year

(\$000s)

Line No.	Description	General Rate Case Filing E002/GR-15-826 Final Rates	General Rate Case Filing E002/GR-19-564 Test Year	Change
		(A)	(B)	(C) = (B) - (A)
<u>Operating Revenues</u>				
1	Retail	3,051,778	3,120,645	\$68,868
3	Interdepartmental	672	494	(178)
4	Other Operating	687,000	545,018	(141,982)
5	Gross Earnings Tax	0	0	0
6	Total Operating Revenues	\$3,739,450	\$3,666,158	(\$73,292)
<u>Expenses</u>				
Operating Expenses:				
7	Fuel & Purchased Energy	\$1,125,206	\$937,629	(\$187,577)
8	Power Production	691,533	604,726	(86,807)
9	Transmission	243,697	255,621	11,924
10	Distribution	111,186	114,249	3,063
11	Customer Accounting	50,555	48,973	(1,582)
12	Customer Service & Information	95,067	105,520	10,454
13	Sales, Econ Dvlp & Other	69	(6)	(75)
14	Administrative & General	224,433	246,966	22,534
15	Total Operating Expenses	\$2,541,744	\$2,313,678	(\$228,065)
16	Depreciation	\$568,522	\$683,392	\$114,870
17	Amortizations	21,871	43,948	22,077
Taxes:				
18	Property	\$198,796	\$178,357	(\$20,439)
19	Gross Earnings	0	0	0
20	Deferred Income Tax & ITC	107,334	(71,438)	(178,772)
21	Federal & State Income Tax	(67,264)	(6,184)	61,081
22	Payroll & Other	29,896	27,259	(2,637)
23	Total Taxes	\$268,761	\$127,994	(\$140,767)
24	Total Expenses	\$3,400,898	\$3,169,012	(\$231,886)
25	AFUDC	\$27,894	\$28,846	\$952
26	Total Operating Income	\$366,445	\$525,991	\$159,546

Note: Revenues reflect calendar month sales.

STATEMENT OF OPERATING INCOME2020 Test Year, 2021-2022 Plan Years
(\$000s)

Line No.	Description	2020 Test Year (A)	2021 Plan Year (B)	2022 Plan Year (C)
<u>Operating Revenues</u>				
1	Retail	3,120,645	3,080,450	\$3,068,944
3	Interdepartmental	494	494	494
4	Other Operating	545,018	560,238	574,740
5	Gross Earnings Tax	0	0	0
6	Total Operating Revenues	\$3,666,158	\$3,641,182	\$3,644,178
<u>Expenses</u>				
Operating Expenses:				
7	Fuel & Purchased Energy	\$937,629	\$937,984	\$937,289
8	Power Production	604,726	628,551	637,764
9	Transmission	255,621	260,272	269,688
10	Distribution	114,249	132,140	127,086
11	Customer Accounting	48,973	48,931	43,907
12	Customer Service & Information	105,520	105,532	105,572
13	Sales, Econ Dvlp & Other	(6)	(5)	(5)
14	Administrative & General	246,966	252,269	260,301
15	Total Operating Expenses	\$2,313,678	\$2,365,673	\$2,381,602
16	Depreciation	\$683,392	\$719,524	\$760,859
17	Amortizations	43,948	43,475	44,757
Taxes:				
18	Property	\$178,357	\$183,524	\$197,091
19	Gross Earnings	0	0	0
20	Deferred Income Tax & ITC	(71,438)	(172,672)	(190,897)
21	Federal & State Income Tax	(6,184)	59,576	56,478
22	Payroll & Other	27,259	27,352	27,435
23	Total Taxes	\$127,994	\$97,781	\$90,108
24	Total Expenses	\$3,169,012	\$3,226,453	\$3,277,326
25	AFUDC	\$28,846	\$31,000	\$33,500
26	Total Operating Income	\$525,991	\$445,729	\$400,352

Note: Revenues reflect calendar month sales.

RATE BASE SCHEDULESDetailed Rate Base Components
(\$000s)

		Proposed Test Year 2020					
Line No.	Description	Total Utility			Minnesota Jurisdiction		
		Unadjusted (A)	Adjustments (B)	Adjusted (C) (A) + (B)	Unadjusted (D)	Adjustments (E)	Adjusted (F) (D) + (E)
	Electric Plant as Booked						
1	Production	\$13,956,816	(\$1,084,037)	\$12,872,778	\$12,114,337	(\$998,895)	\$11,115,442
2	Transmission	3,773,349	(12,781)	3,760,568	3,281,379	(12,781)	3,268,599
3	Distribution	4,439,012	0	4,439,012	3,883,261	0	3,883,261
4	General	1,101,039	(17,721)	1,083,317	958,608	(17,721)	940,887
5	Common	861,661	0	861,661	750,280	0	750,280
6	TOTAL Utility Plant in Service	\$24,131,876	(\$1,114,539)	\$23,017,336	\$20,987,865	(\$1,029,396)	\$19,958,469
	Reserve for Depreciation						
7	Production	\$7,299,546	(\$18,846)	\$7,280,700	\$6,343,405	(\$16,647)	\$6,326,757
8	Transmission	859,966	(10)	859,956	728,397	(10)	728,387
9	Distribution	1,632,155	0	1,632,155	1,446,041	0	1,446,041
10	General	529,865	(1,072)	528,793	461,045	(1,072)	459,973
11	Common	383,872	0	383,872	334,261	0	334,261
12	TOTAL Reserve for Depreciation	\$10,705,404	(\$19,928)	\$10,685,476	\$9,313,149	(\$17,729)	\$9,295,420
	Net Utility Plant in Service						
13	Production	\$6,657,270	(\$1,065,191)	\$5,592,079	\$5,770,932	(\$982,248)	\$4,788,685
14	Transmission	2,913,383	(12,771)	2,900,612	2,552,983	(12,771)	2,540,212
15	Distribution	2,806,857	0	2,806,857	2,437,219	0	2,437,219
16	General	571,173	(16,649)	554,525	497,562	(16,648)	480,914
17	Common	477,789	0	477,789	416,019	0	416,019
18	Net Utility Plant in Service	\$13,426,471	(\$1,094,611)	\$12,331,861	\$11,674,717	(\$1,011,667)	\$10,663,050
19	Utility Plant Held for Future Use	\$0	\$0	\$0	\$0	\$0	\$0
20	Construction Work in Progress	\$597,512	(\$157,555)	\$439,957	\$521,530	(\$157,542)	\$363,989
21	Less: Accumulated Deferred Income Taxes	\$2,596,303	\$19,561	\$2,615,864	\$2,283,455	\$17,547	\$2,301,002
22	Cash Working Capital	(\$145,597)	\$12,391	(\$133,206)	(\$129,815)	\$10,666	(\$119,149)
	Other Rate Base Items:						
23	Materials and Supplies	\$176,908	\$0	\$176,908	\$153,932	\$0	\$153,932
24	Fuel Inventory	75,984	0	75,984	65,875	0	65,875
25	Non-Plant Assets & Liabilities	72,003	0	72,003	60,475	0	60,475
26	Customer Advances	(11,777)	0	(11,777)	(9,797)	0	(9,797)
27	Interest on Customer Deposits	(54,994)	0	(54,994)	(54,826)	0	(54,826)
28	Prepays and Other	79,092	0	79,092	68,747	0	68,747
29	Regulatory Amortizations	0	104,360	104,360	0	95,608	95,608
33	Total Other Rate Base Items	\$337,216	\$104,360	\$441,577	\$284,405	\$95,608	\$380,013
34	Total Average Rate Base	\$11,619,300	(\$1,154,975)	\$10,464,325	\$10,067,382	(\$1,080,481)	\$8,986,901

RATE BASE SCHEDULESDetailed Rate Base Components
(\$000s)

Line No.	Description	Adjusted (1) Plan Year 2021		Adjusted (1) Plan Year 2022	
		Total Utility (A)	Minnesota Jurisdiction (B)	Total Utility (C)	Minnesota Jurisdiction (D)
	Electric Plant as Booked				
1	Production	\$13,380,594	\$11,481,125	\$13,621,180	\$11,673,805
2	Transmission	3,871,783	3,359,259	4,027,285	3,490,183
3	Distribution	4,707,724	4,136,381	5,104,737	4,500,875
4	General	1,165,338	1,010,202	1,246,268	1,080,459
5	Common	954,347	830,985	1,096,625	954,870
6	TOTAL Utility Plant in Service	\$24,079,786	\$20,817,953	\$25,096,095	\$21,700,191
	Reserve for Depreciation				
7	Production	\$7,800,210	\$6,774,974	\$8,223,319	\$7,136,281
8	Transmission	928,483	787,936	998,538	848,684
9	Distribution	1,715,984	1,519,172	1,805,026	1,597,559
10	General	598,133	520,017	670,608	582,722
11	Common	462,172	402,441	547,379	476,634
12	TOTAL Reserve for Depreciation	\$11,504,982	\$10,004,539	\$12,244,870	\$10,641,880
	Net Utility Plant in Service				
13	Production	\$5,580,384	\$4,706,151	\$5,397,861	\$4,537,524
14	Transmission	2,943,300	2,571,324	3,028,747	2,641,499
15	Distribution	2,991,741	2,617,209	3,299,711	2,903,316
16	General	567,205	490,186	575,660	497,737
17	Common	492,175	428,545	549,246	478,235
18	Net Utility Plant in Service	\$12,574,804	\$10,813,415	\$12,851,225	\$11,058,311
19	Utility Plant Held for Future Use	\$0	\$0	\$0	\$0
20	Construction Work in Progress	\$483,557	\$417,804	\$579,001	\$507,890
21	Less: Accumulated Deferred Income Taxes	\$2,493,929	\$2,187,638	\$2,310,566	\$2,015,705
22	Cash Working Capital	(\$141,786)	(\$127,030)	(\$157,026)	(\$140,888)
	Other Rate Base Items:				
23	Materials and Supplies	\$176,908	\$153,932	\$176,908	\$153,932
24	Fuel Inventory	75,984	65,875	75,984	65,875
25	Non-Plant Assets & Liabilities	94,015	81,070	103,791	90,346
26	Customer Advances	(11,777)	(9,797)	(11,777)	(9,797)
27	Interest on Customer Deposits	(54,994)	(54,826)	(54,994)	(54,826)
28	Prepays and Other	78,189	67,952	78,396	68,129
29	Regulatory Amortizations	97,114	88,788	90,371	82,473
30	Total Other Rate Base Items	\$455,439	\$392,994	\$458,680	\$396,132
31	Total Average Rate Base	\$10,878,085	\$9,309,544	\$11,421,314	\$9,805,740

(1) Revenues and expenses for Transmission Cost Recovery (TCR) rider have been excluded.

COMPARISON OF DETAILED RATE BASE COMPONENTS: CWIP

Test Year Ending December 31, 2020

(\$000s)

Proposed Test Year 2020							
Line No. Description	Total Utility			Minnesota Jurisdiction *			
	Unadjusted (A)	Adjustments (B)	Total (A) + (B)	Unadjusted (D)	Adjustments (E)	Total (D) + (E)	
	Construction Work in Progress						
1	Production	\$396,032	(\$121,645)	\$274,387	\$343,148	(\$121,632)	\$221,516
2	Transmission	77,174	(22,813)	54,361	67,081	(22,813)	44,269
3	Distribution	42,674	0	42,674	40,228	0	40,228
4	General	38,032	(13,097)	24,935	33,110	(13,097)	20,013
5	Common	43,599	0	43,599	37,964	0	37,964
6	TOTAL Construction Work In Progress	\$597,512	(\$157,555)	\$439,957	\$521,530	(\$157,542)	\$363,989

Plan Year 2021							
Line No. Description	Total Utility			Minnesota Jurisdiction *			
	Unadjusted (A)	Adjustments (B)	Total (A) + (B)	Unadjusted (D)	Adjustments (E)	Total (D) + (E)	
	Construction Work in Progress						
7	Production	\$269,424	(\$32,488)	\$236,936	\$233,855	(\$32,486)	\$201,369
8	Transmission	105,259	(16,361)	88,899	91,578	(16,361)	75,217
9	Distribution	66,302	0	66,302	61,610	0	61,610
10	General	24,211	57	24,268	21,079	57	21,135
11	Common	67,152	0	67,152	58,472	0	58,472
12	TOTAL Construction Work In Progress	\$532,349	(\$48,792)	\$483,557	\$466,594	(\$48,791)	\$417,804

Plan Year 2022							
Line No. Description	Total Utility			Minnesota Jurisdiction *			
	Unadjusted (A)	Adjustments (B)	Total (A) + (B)	Unadjusted (D)	Adjustments (E)	Total (D) + (E)	
	Construction Work in Progress						
13	Production	\$271,567	(\$686)	\$270,881	\$236,223	(\$686)	\$235,537
14	Transmission	132,258	0	132,258	115,059	0	115,059
15	Distribution	69,535	0	69,535	64,700	0	64,700
16	General	44,713	59	44,772	38,935	59	38,994
17	Common	61,555	0	61,555	53,599	0	53,599
18	TOTAL Construction Work In Progress	\$579,629	(\$627)	\$579,001	\$508,517	(\$627)	\$507,890

(*) See Volume 3, Rate Base Section, Schedule E for allocation factors.

COMPARISON OF DETAILED RATE BASE COMPONENTS: ADITTest Year Ending December 31, 2020
(\$000s)

Proposed Test Year 2020							
Line No.	Description	Total Utility			Minnesota Jurisdiction *		
		Unadjusted (A)	Adjustments (B)	Total (A) + (B)	Unadjusted (D)	Adjustments (E)	Total (D) + (E)
	Accumulated Deferred Income Taxes						
1	Production	\$1,343,262	\$5,189	\$1,348,452	\$1,164,648	\$6,508	\$1,171,157
2	Transmission	810,198	5,783	815,981	710,085	7,549	717,634
3	Distribution	694,763	(4,722)	690,041	610,533	(6,391)	604,142
4	General	88,746	(1,897)	86,849	78,058	(2,359)	75,699
5	Common	75,702	(249)	75,454	66,028	(326)	65,702
6	Net Operating Loss (NOL)	(442,699)	15,456	(427,243)	(369,297)	12,565	(356,731)
7	Non-Plant Related	26,330	0	26,330	23,399	0	23,399
8	TOTAL Accum Deferred Income Taxes	\$2,596,303	\$19,561	\$2,615,864	\$2,283,455	\$17,547	\$2,301,002

Plan Year 2021							
Line No.	Description	Total Utility			Minnesota Jurisdiction *		
		Unadjusted (A)	Adjustments (B)	Total (A) + (B)	Unadjusted (D)	Adjustments (E)	Total (D) + (E)
	Accumulated Deferred Income Taxes						
9	Production	\$1,426,253	(\$51,082)	\$1,375,171	\$1,261,328	(\$74,098)	\$1,187,230
10	Transmission	805,491	22,605	828,096	884,280	(156,136)	728,144
11	Distribution	697,516	(17,295)	680,222	475,003	120,343	595,346
12	General	90,459	(5,849)	84,610	48,365	25,192	73,558
13	Common	78,981	(4,430)	74,551	34,468	30,448	64,916
14	Net Operating Loss (NOL)	(613,490)	33,387	(580,103)	(517,285)	27,678	(489,606)
15	Non-Plant Related	31,382	0	31,382	28,051	0	28,051
16	TOTAL Accum Deferred Income Taxes	\$2,516,592	(\$22,663)	\$2,493,929	\$2,214,211	(\$26,573)	\$2,187,638

Plan Year 2022							
Line No.	Description	Total Utility			Minnesota Jurisdiction *		
		Unadjusted (A)	Adjustments (B)	Total (A) + (B)	Unadjusted (D)	Adjustments (E)	Total (D) + (E)
	Accumulated Deferred Income Taxes						
17	Production	\$1,508,336	(\$131,176)	\$1,377,160	\$1,308,263	(\$129,244)	\$1,179,019
18	Transmission	846,263	(7,618)	838,645	743,207	(6,020)	737,187
19	Distribution	670,646	2,403	673,049	587,311	1,747	589,058
20	General	85,644	(2,759)	82,885	74,826	(3,015)	71,812
21	Common	72,903	30	72,933	63,484	23	63,506
22	Net Operating Loss (NOL)	(807,234)	40,138	(767,096)	(687,629)	33,232	(654,397)
23	Non-Plant Related	32,990	0	32,990	29,519	0	29,519
24	TOTAL Accum Deferred Income Taxes	\$2,409,547	(\$98,981)	\$2,310,566	\$2,118,982	(\$103,277)	\$2,015,705

(*) See Volume 3, Rate Base Section, Schedule E for allocation factors.

RATE BASE SCHEDULES
 RATE BASE ADJUSTMENT SCHEDULES
 2020 Unadjusted Test Year versus Final Adjusted Test Year
 (\$000s)

Line No.	Description	Base				Adjustment	Amortization					Rider Removals		Secondary Calculations				Total	
		Unadjusted w/o NOL & 199 Unadjusted	ADIT Prorate for IRS	Unadjusted NOL & 199	Total Unadjusted	Mankato Energy	Aurora	LED Street Lighting	NOL ADIT ARAM	PI EPU Recovery	Sherco 3 Depr Deferral	Rider: RES	Rider: TCR	ADIT Prorate for IRS	Cash Working Capital	Change in Cost of Capital	Net Operating Loss		
	<u>Work Paper Reference</u>	(1)	(2)	(3)	(4)	WP A-22	WP A-33	WP A-34	WP A-35	WP A-36	WP A-38	WP A-40	WP A-41	WP A-43	WP A-44	WP A-46	WP A-45	(17)	
1	Plant as booked																		
2	Production	12,114,337			12,114,337	(569,751)						(429,143)							11,115,442
3	Transmission	3,281,379			3,281,379							(10,929)	(1,851)						3,268,599
4	Distribution	3,883,261			3,883,261														3,883,261
5	General	958,608			958,608								(17,721)						940,887
6	Common	750,280			750,280														750,280
7	Total Utility Plant in Service	20,987,865			20,987,865	(569,751)						(440,073)	(19,573)						19,958,469
8																			
9	Reserve for Depreciation																		
10	Production	6,343,405			6,343,405	(14,716)						(1,931)							6,326,757
11	Transmission	728,397			728,397							(10)							728,387
12	Distribution	1,446,041			1,446,041														1,446,041
13	General	461,045			461,045								(1,072)						459,973
14	Common	334,261			334,261														334,261
15	Total Reserve for Depreciation	9,313,149			9,313,149	(14,716)						(1,940)	(1,072)						9,295,420
16																			
17	Net Utility Plant																		
18	Production	5,770,932			5,770,932	(555,035)						(427,213)							4,788,685
19	Transmission	2,552,983			2,552,983							(10,920)	(1,851)						2,540,212
20	Distribution	2,437,219			2,437,219														2,437,219
21	General	497,563			497,563								(16,649)						480,914
22	Common	416,019			416,019														416,019
23	Net Utility Plant in Service	11,674,717			11,674,717	(555,035)						(438,132)	(18,500)						10,663,050
24																			
25	Utility Plant Held for Future Use																		
26																			
27	Construction Work in Progress	521,530			521,530	(88)						(131,463)	(25,991)						363,989
28																			
29	Less: Accumulated Deferred Income Taxes	2,521,395	(18,918)	(219,022)	2,283,455	(7,566)				16,310	2,977	(19,635)	(719)	13,615				12,565	2,301,002
30																			
31	Other Rate Base Items																		
32	Cash Working Capital	(129,815)			(129,815)											10,666			(119,149)
33	Materials and Supplies	153,932			153,932														153,932
34	Fuel Inventory	65,875			65,875														65,875
35	Non Plant Assets and Liabilities	60,475			60,475														60,475
36	Customer Advances	(9,797)			(9,797)														(9,797)
37	Customer Deposits	(54,826)			(54,826)														(54,826)
38	Prepayments	68,747			68,747														68,747
39	Regulatory Amortizations						1,488	419	46,509	39,896	7,295								95,608
40	Total Other Rate Base	154,590			154,590		1,488	419	46,509	39,896	7,295					10,666			260,864
41																			
42	Total Average Rate Base	9,829,442	18,918	219,022	10,067,382	(547,556)	1,488	419	46,509	23,587	4,319	(549,960)	(43,772)	(13,615)	10,666			(12,565)	8,986,901

RATE BASE SCHEDULES
 RATE BASE ADJUSTMENT SCHEDULES
 2021 Unadjusted Test Year versus Final Adjusted 2021 Plan Year
 (\$000s)

Line No.	Description	Base				Adjustment	Amortization					Rider Removals		Secondary Calculations			2021 Plan Year		
		Unadjusted w/o NOL & 199 Unadjusted	ADIT Prorate for IRS	Unadjusted NOL & 199	Total Unadjusted	Mankato Energy						Rider: RES	Rider: TCR	ADIT Prorate for IRS	Cash Working Capital	Change in Cost of Capital		Net Operating Loss	
	<u>Work Paper Reference</u>	(1)	(2)	(3)	(4)	<u>WP A-22</u>	<u>WP A-33</u>	<u>WP A-34</u>	<u>WP A-35</u>	<u>WP A-36</u>	<u>WP A-38</u>	<u>WP A-40</u>	<u>WP A-41</u>	<u>WP A-43</u>	<u>WP A-44</u>	<u>WP A-46</u>	<u>WP A-45</u>	(17)	
1																			
2	Plant as booked																		
3	Production	13,030,270			13,030,270	(572,869)						(976,276)							11,481,125
4	Transmission	3,417,466			3,417,466							(31,312)	(26,894)						3,359,259
5	Distribution	4,136,381			4,136,381														4,136,381
6	General	1,044,195			1,044,195								(33,992)						1,010,202
7	Common	830,985			830,985														830,985
8	Total Utility Plant in Service	22,459,297			22,459,297	(572,869)						(1,007,589)	(60,887)						20,817,953
9																			
10	Reserve for Depreciation																		
11	Production	6,830,940			6,830,940	(33,129)						(22,837)							6,774,974
12	Transmission	788,218			788,218							(260)	(22)						787,936
13	Distribution	1,519,172			1,519,172														1,519,172
14	General	523,622			523,622								(3,605)						520,017
15	Common	402,441			402,441														402,441
16	Total Reserve for Depreciation	10,064,393			10,064,393	(33,129)						(23,097)	(3,628)						10,004,539
17																			
18	Net Utility Plant																		
19	Production	6,199,330			6,199,330	(539,740)						(953,439)							4,706,151
20	Transmission	2,629,248			2,629,248							(31,052)	(26,872)						2,571,324
21	Distribution	2,617,209			2,617,209														2,617,209
22	General	520,573			520,573								(30,387)						490,186
23	Common	428,545			428,545														428,545
24	Net Utility Plant in Service	12,394,904			12,394,904	(539,740)						(984,491)	(57,259)						10,813,415
25																			
26	Utility Plant Held for Future Use																		
27																			
28	Construction Work in Progress	466,594			466,594	(10)						(37,113)	(11,668)						417,804
29																			
30	Less: Accumulated Deferred Income Taxes	2,754,586	(23,090)	(517,285)	2,214,211	(13,551)				15,131	2,771	(79,565)	(2,504)	23,467				27,678	2,187,638
31																			
32	Other Rate Base Items																		
33	Cash Working Capital	(139,445)			(139,445)											12,415			(127,030)
34	Materials and Supplies	153,932			153,932														153,932
35	Fuel Inventory	65,875			65,875														65,875
36	Non Plant Assets and Liabilities	81,070			81,070														81,070
37	Customer Advances	(9,797)			(9,797)														(9,797)
38	Customer Deposits	(54,826)			(54,826)														(54,826)
39	Prepayments	67,952			67,952														67,952
40	Regulatory Amortizations						492	252	44,240	37,012	6,792								88,788
41	Total Other Rate Base	164,760			164,760		492	252	44,240	37,012	6,792					12,415			265,964
42																			
43	Total Average Rate Base	10,271,673	23,090	517,285	10,812,048	(526,198)	492	252	44,240	21,882	4,021	(942,039)	(66,423)	(23,467)	12,415			(27,678)	9,309,544

RATE BASE SCHEDULES
 RATE BASE ADJUSTMENT SCHEDULES
 2022 Unadjusted Test Year versus Final Adjusted 2022 Plan Year
 (\$000s)

Line No.	Description	Base				Adjustment	Amortization					Rider Removals		Secondary Calculations				2022 Plan Year	
		Unadjusted w/ NOL & 199 Unadjusted	ADIT Prorate for IRS	Unadjusted NOL & 199	Total Unadjusted	Mankato Energy	Aurora	LED Street Lighting	NOL ADIT ARAM	PI EPU Recovery	Sherco 3 Depr Deferral	Rider: RES	Rider: TCR	ADIT Prorate for IRS	Cash Working Capital	Change in Cost of Capital	Net Operating Loss		
	<u>Work Paper Reference</u>	(1)	(2)	(3)	(4)	WP A-22 (5)	WP A-33 (6)	WP A-34 (7)	WP A-35 (8)	WP A-36 (9)	WP A-38 (10)	WP A-40 (11)	WP A-41 (12)	WP A-43 (13)	WP A-44 (14)	WP A-46 (15)	WP A-45 (16)	(17)	
1	Plant as booked																		
2	Production	13,342,206			13,342,206	(576,195)						(1,092,206)							11,673,805
3	Transmission	3,582,112			3,582,112							(40,767)	(51,162)						3,490,183
4	Distribution	4,500,875			4,500,875														4,500,875
5	General	1,116,125			1,116,125								(35,666)						1,080,459
6	Common	954,870			954,870														954,870
7	Total Utility Plant in Service	23,496,188			23,496,188	(576,195)						(1,132,973)	(86,829)						21,700,191
8	Reserve for Depreciation																		
9	Production	7,253,560			7,253,560	(51,628)						(65,650)							7,136,281
10	Transmission	850,218			850,218							(944)	(590)						848,684
11	Distribution	1,597,559			1,597,559														1,597,559
12	General	589,371			589,371								(6,649)						582,722
13	Common	476,634			476,634														476,634
14	Total Reserve for Depreciation	10,767,342			10,767,342	(51,628)						(66,594)	(7,239)						10,641,880
15	Net Utility Plant																		
16	Production	6,088,646			6,088,646	(524,567)						(1,026,556)							4,537,524
17	Transmission	2,731,894			2,731,894							(39,823)	(50,572)						2,641,499
18	Distribution	2,903,316			2,903,316														2,903,316
19	General	526,754			526,754								(29,018)						497,737
20	Common	478,235			478,235														478,235
21	Net Utility Plant in Service	12,728,846			12,728,846	(524,567)						(1,066,378)	(79,590)						11,058,311
22	Utility Plant Held for Future Use																		
23	Construction Work in Progress	508,517			508,517	(1)						(685)	59						507,890
24	Less: Accumulated Deferred Income Taxes	2,815,347	(8,736)	(687,629)	2,118,982	(18,741)				13,952	2,566	(146,990)	(4,758)	17,463				33,232	2,015,705
25	Other Rate Base Items																		
26	Cash Working Capital	(154,456)			(154,456)										13,568				(140,888)
27	Materials and Supplies	153,932			153,932														153,932
28	Fuel Inventory	65,875			65,875														65,875
29	Non Plant Assets and Liabilities	90,346			90,346														90,346
30	Customer Advances	(9,797)			(9,797)														(9,797)
31	Customer Deposits	(54,826)			(54,826)														(54,826)
32	Prepayments	68,129			68,129														68,129
33	Regulatory Amortizations							84	41,972	34,128	6,289								82,473
34	Total Other Rate Base	159,203			159,203			84	41,972	34,128	6,289				13,568				255,244
35	Total Average Rate Base	10,581,220	8,736	687,629	11,277,585	(505,827)		84	41,972	20,177	3,723	(920,073)	(74,773)	(17,463)	13,568			(33,232)	9,805,740

**2020 TEST YEAR INCOME STATEMENT
 ADJUSTMENT SCHEDULE**

Line No.	NSPM - 11 Bridge by Report Label - Income Statement	Unadjusted Secondary Calcs				Base	Precedential	Adjustment													
		Unadjusted	ADIT Prorate for IRS	Cash Working Capital	Net Operating Loss	Final Unadjusted	Precedential Adjustments	CIP Approved Program Levels	CIP Incentive	IA ROE	Incentive Compensation	Mankato Energy as PPA	Pension: Active Healthcare	Pension: Deferred Amort	Pension: Discount Rate	Pension: Non Qualified	Pension: Retiree Medical	Trading: Asset-Based Margin	Trading: Non Asset-Based Admin	Trading: Non Asset-Based Margin	
1																					
2	Operating Revenues																				
3	Retail Revenue	3,197,649				3,197,649		(15,496)													
4	Interdepartmental	494				494															
5	Other Operating	765,610				765,610	14,021		15,033	(8,285)		(4,590)					(108,280)				(13,649)
6	Total Revenue	3,963,753				3,963,753	14,021	(15,496)	15,033	(8,285)		(4,590)					(108,280)				(13,649)
7																					
8	Expenses																				
9	Operating Expenses																				
10	Fuel & Purchased Energy	1,062,005				1,062,005											(103,457)				(6,918)
11	Power Production	563,360				563,360	(16)			(5,434)	(3,728)	50,713									
12	Transmission	354,649				354,649															
13	Distribution	114,249				114,249															
14	Customer Accounting	48,973				48,973															
15	Customer Service and Information	95,818				95,818		(15,496)	25,373												
16	Sales, Econ Dev, & Other						(6)														
17	Administrative and General	262,005				262,005	(5,474)			(11,527)		(1,524)	5,882	66	(875)	207				(1,793)	
18	Total Operating Expenses	2,501,059				2,501,059	(5,495)	(15,496)	25,373	(5,434)	(15,255)	50,713	(1,524)	5,882	66	(875)	207	(103,457)	(1,793)		(6,918)
19																					
20	Depreciation	707,973				707,973						(18,606)									
21	Amortization	34,361				34,361															
22																					
23	Taxes																				
24	Property	179,102				179,102															
25	Deferred Income Tax and ITC	74,987			(103,482)	(28,495)						(6,335)									
26	Federal and State Income Tax	(138,396)	(122)	840	102,066	(35,614)	5,618	(0)	(2,972)	(819)	4,385	(539)	438	(1,690)	(19)	252	(60)	(1,386)	515	(1,934)	
27	Payroll and Other	27,290				27,290	(32)														
28	Total Taxes	142,983	(122)	840	(1,416)	142,283	5,587	(0)	(2,972)	(819)	4,385	(6,874)	438	(1,690)	(19)	252	(60)	(1,386)	515	(1,934)	
29																					
30	Total Expenses	3,386,376	(122)	840	(1,416)	3,385,676	91	(15,496)	22,401	(6,253)	(10,871)	25,232	(1,086)	4,191	47	(624)	148	(104,844)	(1,278)		(8,853)
31																					
32	Allowance for Funds Used During Constru	28,853				28,853						(7)									
33																					
34	Net Income	606,231	122	(840)	1,416	606,930	13,930	(0)	(7,368)	(2,032)	10,871	(29,829)	1,086	(4,191)	(47)	624	(148)	(3,437)	1,278		(4,796)
35																					
36	Calculation of Revenue Requirements																				
37	Rate Base	9,959,257	18,918	(129,815)	219,022	10,067,382						(547,556)									
38	Required Operating Income	705,115	1,339	(9,191)	15,507	712,771						(38,767)									
39	Operating Income	606,231	122	(840)	1,416	606,930	13,930	(0)	(7,368)	(2,032)	10,871	(29,829)	1,086	(4,191)	(47)	624	(148)	(3,437)	1,278		(4,796)
40	Income Deficiency	98,884	1,217	(8,351)	14,090	105,840	(13,930)	0	7,368	2,032	(10,871)	(8,938)	(1,086)	4,191	47	(624)	148	3,437	(1,278)		4,796
41	Revenue Deficiency	138,770	1,708	(11,720)	19,774	148,531	(19,548)	0	10,340	2,851	(15,255)	(12,543)	(1,524)	5,882	66	(875)	207	4,823	(1,793)		6,730
42																					
43	Calculation of Income Taxes																				
44	Operating Revenue	3,963,753				3,963,753	14,021	(15,496)	15,033	(8,285)		(4,590)								(108,280)	(13,649)
45	-Operating Expense	2,501,059				2,501,059	(5,495)	(15,496)	25,373	(5,434)	(15,255)	50,713	(1,524)	5,882	66	(875)	207	(103,457)	(1,793)		(6,918)
46	-Amortization	34,361				34,361															
47	-Taxes Other than Income	281,379			(103,482)	177,897	(32)					(6,335)									
48	Operating Income Before Adjs	1,146,954			103,482	1,250,436	19,548	(0)	(10,340)	(2,851)	15,255	(48,968)	1,524	(5,882)	(66)	875	(207)	(4,823)	1,793		(6,730)
49	Additions to Income	248,212			(103,482)	144,730						(6,339)									
50	Deductions from Income	1,259,160				1,259,160						(41,111)									
51	Debt Synchronization	224,083	426	(2,921)	4,928	226,516						(12,320)									
52	State Taxable Income	(88,077)	(426)	2,921	(4,928)	(90,510)	19,548	(0)	(10,340)	(2,851)	15,255	(1,876)	1,524	(5,882)	(66)	875	(207)	(4,823)	1,793		(6,730)
53	State Income Tax Before Credits	(8,632)	(42)	286	(483)	(8,870)	1,916	(0)	(1,013)	(279)	1,495	(184)	149	(576)	(6)	86	(20)	(473)	176		(660)
54	State Tax Credits	(1,195)				(1,195)															
55	Federal Tax Deductions																				
56	Federal Taxable Income	(78,250)	(384)	2,635	(4,445)	(80,445)	17,632	(0)	(9,327)	(2,572)	13,760	(1,692)	1,375	(5,305)	(59)	790	(187)	(4,350)	1,617		(6,071)
57	Federal Income Tax Before Credits	(16,433)	(81)	553	(933)	(16,893)	3,703	(0)	(1,959)	(540)	2,890	(355)	289	(1,114)	(12)	166	(59)	(914)	340		(1,275)
58	Federal Tax Credits	(112,137)				103,482	(8,655)														
59	Total Income Taxes	(138,396)	(122)	840	102,066	(35,614)	5,618	(0)	(2,972)	(819)	4,385	(539)	438	(1,690)	(19)	252	(60)	(1,386)	515		(1,934)

**2020 TEST YEAR INCOME STATEMENT
 ADJUSTMENT SCHEDULE**

Line No.	NSPM - 11 Bridge by Report Label - Income Statement	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
		WP-A32	WP-A33	WP-A34	WP-A35	WP-A36	WP-A37	WP-A38	WP-A39	WP-A40	WP-A41	WP-A42	WP-A43	WP-A44	WP-A46	WP-A45			
		Amortizations							Rider Removals				Secondary Calculations				Fuel Adjustment		
		Transmission ROE	Aurora	LED Street Lighting	NOL ADIT ARAM	PI EPU Recovery	Rate Case Expenses	Sherco 3 Depr Deferral	Renewable Connect	Rider: RES	Rider: TCR	Windsource	ADIT Prorate for IRS	Cash Working Capital	Change in Cost of Capital	Net Operating Loss	Total	Remove FCA Revenue and Fuel Expense	Total Net of Fuel
1																			
2	Operating Revenues																		
3	Retail Revenue																3,120,645	(796,055)	2,324,590
4	Interdepartmental																494		494
5	Other Operating	(15,963)					1,750					(90,249)	(10,381)				545,018		545,018
6	Total Revenue	(15,963)					1,750					(56,514)	(95,243)	(10,381)			3,666,158	(796,055)	2,870,103
7																			
8	Expenses																		
9	Operating Expenses																		
10	Fuel & Purchased Energy								(6,395)				(7,605)				937,629	(796,055)	141,574
11	Power Production								1,339	(2,037)	(250)	779					604,726		604,726
12	Transmission	(10,346)									(88,683)						255,621		255,621
13	Distribution																114,249		114,249
14	Customer Accounting																48,973		48,973
15	Customer Service and Information																105,520		105,520
16	Sales, Econ Dev, & Other								(25)			(150)					(6)		(6)
17	Administrative and General																246,966		246,966
18	Total Operating Expenses	(10,346)							(5,081)	(2,037)	(88,933)	(6,976)					2,313,679	(796,055)	1,517,624
19																			
20	Depreciation																683,392		683,392
21	Amortization		1,970	168	2,269	2,884	1,794	503		(3,879)	(2,095)						43,948		43,948
22																			
23	Taxes																		
24	Property										(706)	(39)					178,357		178,357
25	Deferred Income Tax and ITC						(1,179)				(43,761)	(1,233)			9,770		(71,438)		(71,438)
26	Federal and State Income Tax	(1,614)	(576)	(51)	(301)	351	(516)	(28)	1,460	35,094	339	(979)	88	(69)	4,133	(9,689)	(6,184)		(6,184)
27	Payroll and Other																27,259		27,259
28	Total Taxes	(1,614)	(576)	(51)	(301)	(828)	(516)	(233)	1,460	(9,373)	(933)	(979)	88	(69)	4,133	81	127,994		127,994
29																			
30	Total Expenses	(11,960)	1,394	117	1,968	2,056	1,278	270	(3,621)	(15,289)	(91,961)	(7,955)	88	(69)	4,133	81	3,169,013	(796,055)	2,372,958
31																			
32	Allowance for Funds Used During Constr																28,846		28,846
33																			
34	Net Income	(4,002)	(1,394)	(117)	(1,968)	(305)	(1,278)	(270)	3,621	(41,225)	(3,281)	(2,426)	(88)	69	(4,133)	(81)	525,991		525,991
35																			
36	Calculation of Revenue Requirements																		
37	Rate Base		1,488	419	46,509	23,587		4,319		(549,960)	(43,772)		(13,615)	10,666		(12,565)	8,986,901		8,986,901
38	Required Operating Income		105	30	3,293	1,670		306		(38,937)	(3,099)		(964)	755	33,252	(890)	669,524		669,524
39	Operating Income	(4,002)	(1,394)	(117)	(1,968)	(305)	(1,278)	(270)	3,621	(41,225)	(3,281)	(2,426)	(88)	69	(4,133)	(81)	525,991		525,991
40	Income Deficiency	4,002	1,499	146	5,261	1,975	1,278	576	(3,621)	2,288	182	2,426	(876)	686	37,384	(808)	143,533		143,533
41	Revenue Deficiency	5,616	2,104	206	7,383	2,772	1,794	808	(5,081)	3,211	256	3,405	(1,229)	963	52,463	(1,134)	201,427		201,427
42																			
43	Calculation of Income Taxes																		
44	Operating Revenue	(15,963)															3,666,158		3,666,158
45	-Operating Expense	(10,346)							(5,081)	(2,037)	(88,933)	(6,976)					2,313,678		2,313,678
46	-Amortization		1,970	168	2,269	2,884	1,794	503									43,948		43,948
47	-Taxes Other than Income									(44,467)	(1,272)					9,770	134,178		134,178
48	Operating Income Before Adjs	(5,616)	(1,970)	(168)	(2,269)	45	(1,794)	(298)	5,081	(10,011)	(5,038)	(3,405)				(9,770)	1,174,354		1,174,354
49	Additions to Income				2,269	1,705		298		(57,579)	(1,644)						93,211		93,211
50	Deductions from Income									(172,995)	(6,874)						1,038,181		1,038,181
51	Debt Synchronization		33	9	1,046	531		97		(12,374)	(985)		(306)	240	(14,379)	(283)	187,826		187,826
52	State Taxable Income	(5,616)	(2,003)	(177)	(1,046)	1,220	(1,794)	(97)	5,081	117,780	1,178	(3,405)	306	(240)	14,379	283	41,558		41,558
53	State Income Tax Before Credits	(550)	(196)	(17)	(103)	120	(176)	(10)	498	11,542	115	(334)	30	(24)	1,409	28	4,073		4,073
54	State Tax Credits																(1,195)		(1,195)
55	Federal Tax Deductions																		
56	Federal Taxable Income	(5,066)	(1,807)	(160)	(944)	1,100	(1,618)	(88)	4,583	106,237	1,062	(3,071)	276	(216)	12,970	255	38,680		38,680
57	Federal Income Tax Before Credits	(1,064)	(379)	(34)	(198)	231	(340)	(18)	962	22,310	223	(645)	58	(45)	2,724	54	8,123		8,123
58	Federal Tax Credits									1,241							(9,770)		(17,184)
59	Total Income Taxes	(1,614)	(576)	(51)	(301)	351	(516)	(28)	1,460	35,094	339	(979)	88	(69)	4,133	(9,689)	(6,184)		(6,184)

**2021 TEST YEAR INCOME STATEMENT
ADJUSTMENT SCHEDULE**

Line No.	NSPM - 11 Bridge by Report Label - Income Statement	Unadjusted Secondary Calcs				Base	Precedential	Adjustment													
		Unadjusted	ADIT Prorate for IRS	Cash Working Capital	Net Operating Loss	Final Unadjusted	Precedential Adjustments	CIP Approved Program Levels	CIP Incentive	IA ROE	Incentive Compensation	Mankato Energy as PPA	Pension: Active Healthcare	Pension: Deferred Amort	Pension: Discount Rate	Pension: Non Qualified	Pension: Retiree Medical	Trading: Asset-Based Margin	Trading: Non Asset-Based Admin	Trading: Non Asset-Based Margin	
1																					
2	Operating Revenues																				
3	Retail Revenue	3,183,551				3,183,551		(46,844)													
4	Interdepartmental	494				494															
5	Other Operating	800,891				800,891	12,822		3,654	(9,521)		(4,045)						(108,280)			(13,649)
6	Total Revenue	3,984,937				3,984,937	12,822	(46,844)	3,654	(9,521)		(4,045)						(108,280)			(13,649)
7																					
8	Expenses																				
9	Operating Expenses																				
10	Fuel & Purchased Energy	1,062,360				1,062,360												(103,457)			(6,918)
11	Power Production	599,485				599,485	(16)			(5,641)	(3,867)	51,979									
12	Transmission	360,238				360,238															
13	Distribution	132,140				132,140															
14	Customer Accounting	48,931				48,931															
15	Customer Service and Information	138,556				138,556		(46,844)	13,994												
16	Sales, Econ Dev, & Other						(5)														
17	Administrative and General	268,528				268,528	(5,595)			(12,315)		(1,904)	5,882	66	(817)	206				(1,781)	
18	Total Operating Expenses	2,610,238				2,610,238	(5,616)	(46,844)	13,994	(5,641)	(16,182)	51,979	(1,904)	5,882	66	(817)	206	(103,457)	(1,781)	(6,918)	
19																					
20	Depreciation	779,626				779,626						(18,650)									
21	Amortization	33,888				33,888															
22																					
23	Taxes																				
24	Property	187,066				187,066															
25	Deferred Income Tax and ITC	88,399			(187,794)	(99,396)						(5,633)									
26	Federal and State Income Tax	(267,987)	(149)	902	184,387	(82,848)	5,309	(0)	(2,972)	(1,115)	4,651	(1,601)	547	(1,690)	(19)	235	(59)	(1,386)	512	(1,934)	
27	Payroll and Other	27,384				27,384	(32)														
28	Total Taxes	34,861	(149)	902	(3,407)	32,206	5,277	(0)	(2,972)	(1,115)	4,651	(7,234)	547	(1,690)	(19)	235	(59)	(1,386)	512	(1,934)	
29																					
30	Total Expenses	3,458,613	(149)	902	(3,407)	3,455,958	(340)	(46,844)	11,022	(6,756)	(11,531)	26,095	(1,357)	4,191	47	(582)	147	(104,844)	(1,269)	(8,853)	
31																					
32	Allowance for Funds Used During Constru	31,116				31,116						(115)									
33																					
34	Net Income	557,440	149	(902)	3,407	560,095	13,162	(0)	(7,368)	(2,765)	11,531	(30,255)	1,357	(4,191)	(47)	582	(147)	(3,437)	1,269	(4,796)	
35																					
36	Calculation of Revenue Requirements																				
37	Rate Base	10,411,119	23,090	(139,445)	517,285	10,812,048						(526,198)									
38	Required Operating Income	737,107	1,635	(9,873)	36,624	765,493						(37,255)									
39	Operating Income	557,440	149	(902)	3,407	560,095	13,162	(0)	(7,368)	(2,765)	11,531	(30,255)	1,357	(4,191)	(47)	582	(147)	(3,437)	1,269	(4,796)	
40	Income Deficiency	179,667	1,485	(8,971)	33,217	205,398	(13,162)	0	7,368	2,765	(11,531)	(6,999)	(1,357)	4,191	47	(582)	147	3,437	(1,269)	4,796	
41	Revenue Deficiency	252,137	2,085	(12,589)	46,614	288,246	(18,471)	0	10,340	3,880	(16,182)	(9,823)	(1,904)	5,882	66	(817)	206	4,823	(1,781)	6,730	
42																					
43	Calculation of Income Taxes																				
44	Operating Revenue	3,984,937				3,984,937	12,822	(46,844)	3,654	(9,521)		(4,045)							(108,280)		(13,649)
45	-Operating Expense	2,610,238				2,610,238	(5,616)	(46,844)	13,994	(5,641)	(16,182)	51,979	(1,904)	5,882	66	(817)	206	(103,457)	(1,781)	(6,918)	
46	-Amortization	33,888				33,888															
47	-Taxes Other than Income	302,848			(187,794)	115,054	(32)					(5,633)									
48	Operating Income Before Adjs	1,037,962			187,794	1,225,757	18,471	(0)	(10,340)	(3,880)	16,182	(50,391)	1,904	(5,882)	(66)	817	(206)	(4,823)	1,781	(6,730)	
49	Additions to Income	253,030			(187,794)	65,236						(5,706)									
50	Deductions from Income	1,367,087			(31,119)	1,335,968						(38,687)									
51	Debt Synchronization	234,250	520	(3,138)	11,639	243,271						(11,839)									
52	State Taxable Income	(310,344)	(520)	3,138	19,480	(288,246)	18,471	(0)	(10,340)	(3,880)	16,182	(5,571)	1,904	(5,882)	(66)	817	(206)	(4,823)	1,781	(6,730)	
53	State Income Tax Before Credits	(30,414)	(51)	307	1,909	(28,248)	1,810	(0)	(1,013)	(380)	1,586	(546)	187	(576)	(6)	80	(20)	(473)	175	(660)	
54	State Tax Credits	(1,195)			1,195																
55	Federal Tax Deductions																				
56	Federal Taxable Income	(278,735)	(469)	2,830	16,376	(259,998)	16,661	(0)	(9,327)	(3,499)	14,596	(5,025)	1,718	(5,305)	(59)	737	(186)	(4,350)	1,607	(6,071)	
57	Federal Income Tax Before Credits	(58,534)	(98)	594	3,439	(54,600)	3,499	(0)	(1,959)	(735)	3,065	(1,055)	361	(1,114)	(12)	155	(59)	(914)	337	(1,275)	
58	Federal Tax Credits	(177,844)			177,844																
59	Total Income Taxes	(267,987)	(149)	902	184,387	(82,848)	5,309	(0)	(2,972)	(1,115)	4,651	(1,601)	547	(1,690)	(19)	235	(59)	(1,386)	512	(1,934)	

**2021 TEST YEAR INCOME STATEMENT
 ADJUSTMENT SCHEDULE**

Line No.	NSPM - 11 Bridge by Report Label - Income Statement	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
		WP-A32	WP-A33	WP-A34	WP-A35	WP-A36	WP-A37	WP-A38	WP-A39	WP-A40	WP-A41	WP-A42	WP-A43	WP-A44	WP-A46	WP-A45			
		Amortizations							Rider Removals				Secondary Calculations				Fuel Adjustment		
		Transmission ROE	Aurora	LED Street Lighting	NOL ADIT ARAM	PI EPU Recovery	Rate Case Expenses	Sherco 3 Depr Deferral	Renewable Connect	Rider: RES	Rider: TCR	Windsource	ADIT Prorate for IRS	Cash Working Capital	Change in Cost of Capital	Net Operating Loss	Total	Remove FCA Revenue and Fuel Expense	Total Net of Fuel
1																			
2	Operating Revenues																		
3	Retail Revenue																3,080,450	(796,055)	2,284,395
4	Interdepartmental																494		494
5	Other Operating	(16,336)					1,622					(96,541)	(10,381)				560,238		560,238
6	Total Revenue	(16,336)					1,622					(52,116)	(100,683)	(10,381)			3,641,181	(796,055)	2,845,126
7																			
8	Expenses																		
9	Operating Expenses																		
10	Fuel & Purchased Energy								(6,395)				(7,605)				937,984	(796,055)	141,929
11	Power Production								1,364	(15,102)			(429)	779			628,551		628,551
12	Transmission	(9,611)										(90,355)					260,272		260,272
13	Distribution																132,140		132,140
14	Customer Accounting																48,931		48,931
15	Customer Service and Information																105,532		105,532
16	Sales, Econ Dev, & Other																(5)		(5)
17	Administrative and General																252,269		252,269
18	Total Operating Expenses	(9,611)							(5,056)	(15,102)	(90,784)	(6,976)					2,365,673	(796,055)	1,569,618
19																			
20	Depreciation																719,524		719,524
21	Amortization		1,970	168	2,269	2,884	1,794	503				(38,437)	(3,015)				43,475		43,475
22																			
23	Taxes																		
24	Property																		
25	Deferred Income Tax and ITC																15,756	(172,672)	(172,672)
26	Federal and State Income Tax	(1,933)	(569)	(50)	(286)	325	(516)	(26)	1,453	154,591	1,099	(979)	152	(80)	4,281	(15,515)	59,576		59,576
27	Payroll and Other																27,352		27,352
28	Total Taxes	(1,933)	(569)	(50)	(286)	(854)	(516)	(231)	1,453	72,038	(1,904)	(979)	152	(80)	4,281	241	97,780		97,780
29																			
30	Total Expenses	(11,544)	1,400	118	1,983	2,030	1,278	272	(3,603)	18,499	(95,703)	(7,955)	152	(80)	4,281	241	3,226,452	(796,055)	2,430,397
31																			
32	Allowance for Funds Used During Constr																31,000		31,000
33																			
34	Net Income	(4,792)	(1,400)	(118)	(1,983)	(408)	(1,278)	(272)	3,603	(70,615)	(4,979)	(2,426)	(152)	80	(4,281)	(240)	445,730	-	445,730
35																			
36	Calculation of Revenue Requirements																		
37	Rate Base		492	252	44,240	21,882		4,021		(942,039)	(66,423)		(23,467)	12,415		(27,678)	9,309,544		9,309,544
38	Required Operating Income		35	18	3,132	1,549		285		(66,696)	(4,703)		(1,661)	879	34,445	(1,960)	693,561		693,561
39	Operating Income	(4,792)	(1,400)	(118)	(1,983)	(408)	(1,278)	(272)	3,603	(70,615)	(4,979)	(2,426)	(152)	80	(4,281)	(240)	445,730		445,730
40	Income Deficiency	4,792	1,435	136	5,115	1,957	1,278	557	(3,603)	3,919	276	2,426	(1,510)	799	38,727	(1,720)	247,831		247,831
41	Revenue Deficiency	6,724	2,014	190	7,178	2,746	1,794	781	(5,056)	5,499	388	3,405	(2,119)	1,121	54,347	(2,413)	347,794		347,794
42																			
43	Calculation of Income Taxes																		
44	Operating Revenue	(16,336)															3,641,181	(796,055)	2,845,126
45	-Operating Expense	(9,611)							(5,056)	(15,102)	(90,784)	(6,976)					2,365,673	(796,055)	1,569,618
46	-Amortization		1,970	168	2,269	2,884	1,794	503									43,475		43,475
47	-Taxes Other than Income																15,756		38,204
48	Operating Income Before Adjs	(6,724)	(1,970)	(168)	(2,269)	(83)	(1,794)	(298)	5,056	45,539	(6,896)	(3,405)				(15,756)	1,193,829		1,193,829
49	Additions to Income																15,756	(10,001)	(10,001)
50	Deductions from Income																31,119	988,153	988,153
51	Debt Synchronization		11	6	995	492		90		(21,196)	(1,495)		(528)	279	(14,895)	(623)	194,569		194,569
52	State Taxable Income	(6,724)	(1,981)	(173)	(995)	1,130	(1,794)	(90)	5,056	308,200	3,822	(3,405)	528	(279)	14,895	(30,496)	1,105		1,105
53	State Income Tax Before Credits	(659)	(194)	(17)	(98)	111	(176)	(9)	495	30,204	375	(334)	52	(27)	1,460	(2,989)	108		108
54	State Tax Credits																(1,195)	(1,195)	(1,195)
55	Federal Tax Deductions																		
56	Federal Taxable Income	(6,065)	(1,787)	(156)	(898)	1,019	(1,618)	(82)	4,561	277,997	3,448	(3,071)	476	(252)	13,436	(26,312)	2,192		2,192
57	Federal Income Tax Before Credits	(1,274)	(375)	(33)	(189)	214	(340)	(17)	958	58,379	724	(645)	100	(53)	2,821	(5,526)	460		460
58	Federal Tax Credits									66,008							(5,805)	60,203	60,203
59	Total Income Taxes	(1,933)	(569)	(50)	(286)	325	(516)	(26)	1,453	154,591	1,099	(979)	152	(80)	4,281	(15,515)	59,576		59,576

**2022 TEST YEAR INCOME STATEMENT
 ADJUSTMENT SCHEDULE**

Line No.	NSPM - 11 Bridge by Report Label - Income Statement	Unadjusted Secondary Calcs				Base	Precedential	Adjustment													
		Unadjusted	ADIT Prorate for IRS	Cash Working Capital	Net Operating Loss	Final Unadjusted	Precedential Adjustments	CIP Approved Program Levels	CIP Incentive	IA ROE	Incentive Compensation	Mankato Energy as PPA	Pension: Active Healthcare	Pension: Deferred Amort	Pension: Discount Rate	Pension: Non Qualified	Pension: Retiree Medical	Trading: Asset-Based Margin	Trading: Non Asset-Based Admin	Trading: Non Asset-Based Margin	
1																					
2	Operating Revenues																				
3	Retail Revenue	3,165,850				3,165,850		(49,589)													
4	Interdepartmental	494				494															
5	Other Operating	825,186				825,186	12,213		(9,963)		(3,648)						(108,280)				(13,649)
6	Total Revenue	3,991,531				3,991,531	12,213	(49,589)	(9,963)		(3,648)						(108,280)				(13,649)
7																					
8	Expenses																				
9	Operating Expenses																				
10	Fuel & Purchased Energy	1,061,665				1,061,665											(103,457)				(6,918)
11	Power Production	610,736				610,736			(5,923)	(4,086)	52,945										
12	Transmission	370,336				370,336															
13	Distribution	127,086				127,086															
14	Customer Accounting	43,907				43,907															
15	Customer Service and Information	144,996				144,996		(49,589)	10,340												
16	Sales, Econ Dev, & Other							(5)													
17	Administrative and General	277,657				277,657	(5,645)			(12,959)		(2,335)	5,882	66	(748)	206				(1,820)	
18	Total Operating Expenses	2,636,383				2,636,383	(5,650)	(49,589)	10,340	(5,923)	(17,046)	52,945	(2,335)	5,882	66	(748)	206	(103,457)		(1,820)	(6,918)
19																					
20	Depreciation	832,484				832,484						(18,840)									
21	Amortization	37,139				37,139															
22																					
23	Taxes																				
24	Property	202,475				202,475															
25	Deferred Income Tax and ITC	30,677			(162,293)	(131,615)						(4,748)									
26	Federal and State Income Tax	(252,058)	(56)	999	157,892	(93,208)	5,143	(2,972)	(1,161)	4,899	(2,736)	671	(1,690)	(19)	215	(59)	(1,386)		523	(1,934)	
27	Payroll and Other	27,468				27,468	(32)														
28	Total Taxes	8,562	(56)	999	(4,400)	5,119	5,111	(2,972)	(1,161)	4,899	(7,484)	671	(1,690)	(19)	215	(59)	(1,386)		523	(1,934)	
29																					
30	Total Expenses	3,514,567	(56)	999	(4,400)	3,511,125	(539)	(49,589)	7,368	(7,084)	(12,146)	26,621	(1,664)	4,191	47	(533)	147	(104,844)		(1,297)	(8,853)
31																					
32	Allowance for Funds Used During Constru	33,511				33,511						(11)									
33																					
34	Net Income	510,475	56	(999)	4,400	513,917	12,752	(7,368)	(2,879)	12,146	(30,280)	1,664	(4,191)	(47)	533	(147)	(3,437)		1,297	(4,796)	
35																					
36	Calculation of Revenue Requirements																				
37	Rate Base	10,735,676	8,736	(154,456)	687,629	11,277,585						(505,827)									
38	Required Operating Income	760,086	619	(10,935)	48,684	798,453						(35,813)									
39	Operating Income	510,475	56	(999)	4,400	513,917	12,752	(7,368)	(2,879)	12,146	(30,280)	1,664	(4,191)	(47)	533	(147)	(3,437)		1,297	(4,796)	
40	Income Deficiency	249,611	562	(9,937)	44,284	284,536	(12,752)	7,368	2,879	(12,146)	(5,533)	(1,664)	4,191	47	(533)	147	3,437		(1,297)	4,796	
41	Revenue Deficiency	350,292	789	(13,945)	62,146	399,304	(17,895)	10,340	4,040	(17,046)	(7,764)	(2,335)	5,882	66	(748)	206	4,823		(1,820)	6,730	
42																					
43	Calculation of Income Taxes																				
44	Operating Revenue	3,991,531				3,991,531	12,213	(49,589)	(9,963)		(3,648)								(108,280)		(13,649)
45	-Operating Expense	2,636,383				2,636,383	(5,650)	(49,589)	10,340	(5,923)	(17,046)	52,945	(2,335)	5,882	66	(748)	206	(103,457)		(1,820)	(6,918)
46	-Amortization	37,139				37,139															
47	-Taxes Other than Income	260,620			(162,293)	98,328	(32)					(4,748)									
48	Operating Income Before Adjs	1,057,389			162,293	1,219,682	17,895		(10,340)	(4,040)	17,046	(51,845)	2,335	(5,882)	(66)	748	(206)	(4,823)		1,820	(6,730)
49	Additions to Income	194,426			(162,293)	32,133						(4,755)									
50	Deductions from Income	1,197,875			31,119	1,228,994						(35,701)									
51	Debt Synchronization	241,553	197	(3,475)	15,525	253,746						(11,381)									
52	State Taxable Income	(187,613)	(197)	3,475	(46,644)	(230,925)	17,895		(10,340)	(4,040)	17,046	(9,518)	2,335	(5,882)	(66)	748	(206)	(4,823)		1,820	(6,730)
53	State Income Tax Before Credits	(18,386)	(19)	341	(4,571)	(22,631)	1,754		(1,013)	(396)	1,670	(933)	229	(576)	(6)	73	(20)	(473)		178	(660)
54	State Tax Credits	(1,195)			(1,195)	(2,391)															
55	Federal Tax Deductions																				
56	Federal Taxable Income	(168,032)	(177)	3,135	(40,877)	(205,904)	16,142		(9,327)	(3,644)	15,375	(8,585)	2,107	(5,305)	(59)	675	(186)	(4,350)		1,642	(6,071)
57	Federal Income Tax Before Credits	(35,287)	(37)	658	(8,584)	(43,240)	3,590		(1,959)	(765)	3,229	(1,803)	442	(1,114)	(12)	142	(59)	(914)		345	(1,275)
58	Federal Tax Credits	(197,190)			172,243	(24,947)															
59	Total Income Taxes	(252,058)	(56)	999	157,892	(93,208)	5,143		(2,972)	(1,161)	4,899	(2,736)	671	(1,690)	(19)	215	(59)	(1,386)		523	(1,934)

**2022 TEST YEAR INCOME STATEMENT
 ADJUSTMENT SCHEDULE**

Line No.	NSPM - 11 Bridge by Report Label - Income Statement	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
		WP-A32	WP-A33	WP-A34	WP-A35	WP-A36	WP-A37	WP-A38	WP-A39	WP-A40	WP-A41	WP-A42	WP-A43	WP-A44	WP-A46	WP-A45	
		Amortizations							Rider Removals				Secondary Calculations				
		Transmission ROE	Aurora	LED Street Lighting	NOL ADIT ARAM	PI EPU Recovery	Rate Case Expenses	Sherco 3 Depr Deferral	Renewable Connect	Rider: RES	Rider: TCR	Windsource	ADIT Prorate for IRS	Cash Working Capital	Change in Cost of Capital	Net Operating Loss	Total
1																	
2	Operating Revenues																
3	Retail Revenue									(44,519)	(2,799)						3,068,944
4	Interdepartmental																494
5	Other Operating	(16,870)				1,494				(101,366)	(10,381)						574,739
6	Total Revenue	(16,870)				1,494				(44,519)	(104,165)	(10,381)					3,644,177
7																	
8	Expenses																
9	Operating Expenses																
10	Fuel & Purchased Energy								(6,395)			(7,605)					937,289
11	Power Production								3,863	(20,119)	(430)	779					637,764
12	Transmission	(9,580)									(91,069)						269,688
13	Distribution																127,086
14	Customer Accounting																43,907
15	Customer Service and Information											(150)					105,572
16	Sales, Econ Dev, & Other								(25)								(5)
17	Administrative and General																260,301
18	Total Operating Expenses	(9,580)							(2,558)	(20,119)	(91,499)	(6,976)					2,381,602
19																	
20	Depreciation									(48,577)	(4,208)						760,859
21	Amortization			168	2,269	2,884	1,794	503									44,757
22																	
23	Taxes																
24	Property									(4,072)	(1,312)						197,091
25	Deferred Income Tax and ITC					(1,179)		(205)		(55,791)	(2,108)					4,750	(190,897)
26	Federal and State Income Tax	(2,095)	(49)	(271)	299	(516)	(24)	735	153,141	576	(979)	113	(88)	3,946	(4,596)	56,478	27,435
27	Payroll and Other																90,108
28	Total Taxes	(2,095)	(49)	(271)	(880)	(516)	(229)	735	93,277	(2,843)	(979)	113	(88)	3,946	154	90,108	
29																	
30	Total Expenses	(11,675)	119	1,997	2,004	1,278	274	(1,822)	24,581	(98,550)	(7,955)	113	(88)	3,946	154	3,277,326	
31																	
32	Allowance for Funds Used During Constr																33,500
33																	
34	Net Income	(5,195)	(119)	(1,997)	(510)	(1,278)	(274)	1,822	(69,100)	(5,616)	(2,426)	(113)	88	(3,946)	(154)	400,352	
35																	
36	Calculation of Revenue Requirements																
37	Rate Base			84	41,972	20,177		3,723		(920,073)	(74,773)		(17,463)	13,568		(33,232)	9,805,740
38	Required Operating Income			6	2,972	1,429		264		(65,141)	(5,294)		(1,236)	961	38,242	(2,353)	732,489
39	Operating Income	(5,195)	(119)	(1,997)	(510)	(1,278)	(274)	1,822	(69,100)	(5,616)	(2,426)	(113)	88	(3,946)	(154)	400,352	
40	Income Deficiency	5,195	125	4,969	1,939	1,278	537	(1,822)	3,959	322	2,426	(1,123)	873	42,188	(2,199)	332,137	
41	Revenue Deficiency	7,290	175	6,973	2,721	1,794	754	(2,558)	5,555	451	3,405	(1,577)	1,225	59,205	(3,086)	466,104	
42																	
43	Calculation of Income Taxes																
44	Operating Revenue	(16,870)				1,494				(44,519)	(104,165)	(10,381)					3,644,177
45	-Operating Expense	(9,580)							(2,558)	(20,119)	(91,499)	(6,976)					2,381,602
46	-Amortization			168	2,269	2,884	1,794	503									44,757
47	-Taxes Other than Income					(1,179)		(205)		(59,863)	(3,420)					4,750	33,630
48	Operating Income Before Adjs	(7,290)	(168)	(2,269)	(211)	(1,794)	(298)	2,558	35,464	(9,247)	(3,405)					(4,750)	1,184,189
49	Additions to Income			2,269	1,705		298		(55,827)	(2,109)						4,750	(21,536)
50	Deductions from Income								(246,593)	(11,679)						(31,119)	903,902
51	Debt Synchronization			2	944	454		84		(20,702)	(1,682)		(393)	305	(13,728)	(748)	206,901
52	State Taxable Income	(7,290)	(170)	(944)	1,040	(1,794)	(84)	2,558	246,932	2,006	(3,405)	393	(305)	13,728	31,867	51,850	
53	State Income Tax Before Credits	(714)	(17)	(93)	102	(176)	(8)	251	24,199	197	(334)	39	(30)	1,345	3,123	5,081	
54	State Tax Credits														1,195		(1,195)
55	Federal Tax Deductions																
56	Federal Taxable Income	(6,575)	(153)	(852)	938	(1,618)	(76)	2,307	222,732	1,809	(3,071)	354	(275)	12,383	27,549	47,964	
57	Federal Income Tax Before Credits	(1,381)	(32)	(179)	197	(340)	(16)	484	46,774	380	(645)	74	(58)	2,600	5,785	10,072	
58	Federal Tax Credits								82,168							(14,701)	42,520
59	Total Income Taxes	(2,095)	(49)	(271)	299	(516)	(24)	735	153,141	576	(979)	113	(88)	3,946	(4,597)	56,478	

2020-2022 MYRP ADJUSTMENT SUMMARY

(1) Line No.	(2) Record Category	(3) Report Label	(4) Record Type	(5) MN Electric			(8) Workpaper Reference
				(6) 2020 Test Year	(7) 2021 Plan Year	(7) 2022 Plan Year	
1	Unadjusted	Unadjusted	Total Unadjusted	196,909,388	312,912,994	415,108,228	
2							
3	Precedential	Precedential Adjustments	NSPM-Advertising (Trad)	(2,846,381)	(2,912,580)	(2,967,208)	WP-A1
4	Precedential	Precedential Adjustments	NSPM-Assn Dues (Trad)	(734,495)	(724,005)	(723,460)	WP-A2
5	Precedential	Precedential Adjustments	NSPM-Aviation (remove 100%)	(2,051,482)	(2,094,034)	(2,139,338)	WP-A3
6	Precedential	Precedential Adjustments	NSPM-Chamber of Commerce Dues	214,391	215,975	217,580	WP-A4
7	Precedential	Precedential Adjustments	NSPM-Customer Deposits - A&G Expense (Trad)	18,870	18,870	18,870	WP-A5
8	Precedential	Precedential Adjustments	NSPM-Donations (Trad)	1,851,065	1,851,564	1,852,349	WP-A6
9	Precedential	Precedential Adjustments	NSPM-Econ Dev Donations (Trad)	50,660	51,144	51,632	WP-A7
10	Precedential	Precedential Adjustments	NSPM-Econ Develop (Trad)	(56,203)	(56,203)	(56,203)	WP-A8
11	Precedential	Precedential Adjustments	NSPM-Employee Expenses	(1,485,915)	(1,505,456)	(1,454,796)	WP-A9
12	Precedential	Precedential Adjustments	NSPM-Foundation Admin	(113,729)	(115,300)	(116,960)	WP-A10
13	Precedential	Precedential Adjustments	NSPM-Investor Relations	(358,045)	(362,548)	(364,736)	WP-A11
14	Precedential	Precedential Adjustments	NSPM-Monticello EPU Commission Order No Return	(11,636,431)	(10,390,232)	(9,242,691)	WP-A12
15	Precedential	Precedential Adjustments	NSPM-Nobles Disallowed Assets	(191,073)	(177,039)	(163,345)	WP-A13
16	Precedential	Precedential Adjustments	NSPM-Nuclear Retention Removal	(15,818)	(15,818)		WP-A14
17	Precedential	Precedential Adjustments	NSPM-Other Revenue to 3 Year Average Adj	(2,193,405)	(2,255,012)	(2,807,078)	WP-A15
18	Precedential		Sub-Total Precedential	(19,547,993)	(18,470,674)	(17,895,384)	
19							
20	Adjustment	CIP Approved Program Levels	NSPM-CIP Revenue and Expense Elimination		1		WP-A16
21	Adjustment	CIP Incentive	NSPM-CIP Incentive - Retain Shareholder Portion	10,340,229	10,340,229	10,340,229	WP-A17
22	Adjustment	IA ROE	NSPM-IA ROE	2,851,091	3,879,582	4,039,956	WP-A18
23	Adjustment	Incentive Compensation	NSPM-Incentive Pay	(1,901,127)	(1,958,159)	(2,016,905)	WP-A19
24	Adjustment	Incentive Compensation	NSPM-Incentive Pay_Environmental LTI	1,939,801	2,009,497	2,119,491	WP-A20
25	Adjustment	Incentive Compensation	NSPM-Incentive Pay_Remove Long Term	(15,293,947)	(16,233,456)	(17,148,300)	WP-A21
26	Adjustment	Mankato Energy	NSPM-Mankato Energy Center	(64,186,320)	(62,039,064)	(60,692,423)	WP-A22
27	Adjustment	Mankato Energy	NSPM-MEC PPA Cost	48,446,937	49,144,661	49,874,150	WP-A23
28	Adjustment	Pension: Active Healthcare	NSPM-Pension Active Healthcare	(1,524,307)	(1,904,372)	(2,335,431)	WP-A24
29	Adjustment	Pension: Deferred Amort	NSPM-Pension Deferred Amortization	5,881,632	5,881,632	5,881,632	WP-A25
30	Adjustment	Pension: Discount Rate	NSPM-Pension Discount Rate Int	65,960	65,821	65,885	WP-A26
31	Adjustment	Pension: Non Qualified	NSPM-Non Qualified Pension Removal	(875,437)	(817,203)	(748,194)	WP-A27
32	Adjustment	Pension: Retiree Medical	NSPM-Pension Retiree Medical	207,079	206,323	205,764	WP-A28
33	Adjustment	Trading: Asset-Based Margin	NSPM-Remove Asset Trading	4,822,836	4,822,836	4,822,836	WP-A29
34	Adjustment	Trading: Non Asset-Based Admin	NSPM-Remove NonAsset Trading Fully Allocated Costs	(1,793,054)	(1,781,312)	(1,820,356)	WP-A30
35	Adjustment	Trading: Non Asset-Based Margin	NSPM-Remove NonAsset Trading	6,730,471	6,730,471	6,730,471	WP-A31
36	Adjustment	Transmission ROE	NSPM-Transmission ROE Change	5,616,345	6,724,271	7,289,797	WP-A32
37	Adjustment		Sub-Total Adjustment	1,328,189	5,071,757	6,608,603	
38							
39	Amortization	Aurora	NSPM-Aurora Deferral	2,112,688	2,016,945		WP-A33
40	Amortization	LED Street Lighting	NSPM-Settlement LED Street Lighting	207,983	191,865	175,764	WP-A34
41	Amortization	NOL ADIT ARAM	NSPM-NOL Tax Reform ADIT ARAM	7,654,276	7,436,206	7,226,530	WP-A35
42	Amortization	PI EPU Recovery	NSPM-PI EPU Deferral	2,909,573	2,873,937	2,842,337	WP-A36
43	Amortization	Rate Case Expenses	NSPM-Amortization Rate Case Expense	1,794,123	1,794,123	1,794,123	WP-A37
44	Amortization	Sherco 3 Depr Deferral	NSPM-Sherco 3 Deferral	833,079	804,451	776,567	WP-A38
45	Amortization		Sub-Total Amortization	15,511,723	15,117,527	12,815,321	
46							
47	Rider Removals	Renewable Connect	NSPM-Remove Renewable Connect	(5,080,949)	(5,055,990)	(2,557,503)	WP-A39
48	Rider Removals	Rider: RES	NSPM-RES Rider Removal	0	0	0	WP-A40
49	Rider Removals	Rider: TCR	NSPM-TCR Rider Removal	0	(0)	(0)	WP-A41
50	Rider Removals	Windsource	NSPM-Remove Windsource	3,404,613	3,404,613	3,404,613	WP-A42
51	Rider Removals		Sub-Total Rider Removals	(1,676,336)	(1,651,377)	847,110	
52							
53	Secondary Calculations	ADIT Prorate for IRS	NSPM-ADIT Prorate for IRS	509,783	(36,227)	(840,601)	WP-A43
54	Secondary Calculations	Cash Working Capital	NSPM-Cash Working Capital	(11,452,564)	(12,210,115)	(13,570,274)	WP-A44
55	Secondary Calculations	Net Operating Loss	NSPM-NOL/Credits/199	19,844,507	47,060,791	63,031,282	WP-A45
56	Secondary Calculations		Sub-Total Secondary Calculations	8,901,727	34,814,450	48,620,407	
57							
58			Total Revenue Deficiency	201,426,697	347,794,678	466,104,285	

PRECEDENTIAL ADJUSTMENT DETAIL SCHEDULE
 2020 Unadjusted Test Year versus 2020 Adjusted Test Year
 (\$000s)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Line No.	NSPM - 11 Bridge by Report Lable - Precedential Adjustments	Precedential Adjustments															Total
		NSPM-Advertising	NSPM-Assn Dues	NSPM-Aviation	NSPM-Chamber of Commerce Dues	NSPM-Customer Deposits - A&G Expense	NSPM-Donations	NSPM-Econ Dev Donations	NSPM-Econ Develop	NSPM-Employee Expenses	NSPM-Foundation Admin	NSPM-Investor Relations	NSPM-Monticello EPU Commission Order No Return	NSPM-Nobles Disallowed Assets	NSPM-Nuclear Retention Removal	NSPM-Other Revenue to 3 Year Average Adj	
1																	
2	Operating Revenues																
3	Retail Revenue																
4	Other Operating												11,636	191		2,193	14,021
5	Total Revenue												11,636	191		2,193	14,021
6																	
7	Expenses																
8	Operating Expenses																
9	Power Production																
10	Customer Accounting															(16)	(16)
11	Customer Service and Information																
12	Sales, Econ Dev, & Other							51	(56)								(6)
13	Administrative and General	(2,846)	(734)	(2,029)	214	19	1,851		(1,486)	(110)	(352)						(5,474)
14	Total Operating Expenses	(2,846)	(734)	(2,029)	214	19	1,851	51	(56)	(1,486)	(110)	(352)			(16)		(5,495)
15																	
16	Depreciation																
17	Amortization																
18																	
19	Taxes																
20	Property																
21	Deferred Income Tax and ITC																
22	Federal and State Income Tax	818	211	590	(62)	(5)	(532)	(15)	16	427	33	103	3,345	55	5	630	5,618
23	Payroll and Other	(22)									(4)	(6)					(32)
24	Total Taxes	818	211	567	(62)	(5)	(532)	(15)	16	427	29	97	3,345	55	5	630	5,587
25																	
26	Total Expenses	(2,028)	(523)	(1,462)	153	13	1,319	36	(40)	(1,059)	(81)	(255)	3,345	55	(11)	630	91
27																	
28	Allowance for Funds Used During Constru																
29																	
30	Net Income	2,028	523	1,462	(153)	(13)	(1,319)	(36)	40	1,059	81	255	8,292	136	11	1,563	13,930
31																	
32	Calculation of Revenue Requirements																
33	Rate Base																
34	Required Operating Income																
35	Operating Income	2,028	523	1,462	(153)	(13)	(1,319)	(36)	40	1,059	81	255	8,292	136	11	1,563	13,930
36	Income Deficiency	(2,028)	(523)	(1,462)	153	13	1,319	36	(40)	(1,059)	(81)	(255)	(8,292)	(136)	(11)	(1,563)	(13,930)
37	Revenue Deficiency	(2,846)	(734)	(2,051)	214	19	1,851	51	(56)	(1,486)	(114)	(358)	(11,636)	(191)	(16)	(2,193)	(19,548)
38																	
39	Calculation of Income Taxes																
40	Operating Revenue												11,636	191		2,193	14,021
41	-Operating Expense	(2,846)	(734)	(2,029)	214	19	1,851	51	(56)	(1,486)	(110)	(352)			(16)		(5,495)
42	-Amortization																
43	-Taxes Other than Income			(22)							(4)	(6)					(32)
44	Operating Income Before Adjs	2,846	734	2,051	(214)	(19)	(1,851)	(51)	56	1,486	114	358	11,636	191	16	2,193	19,548
45	Additions to Income																
46	Deductions from Income																
47	Debt Synchronization																
48	State Taxable Income	2,846	734	2,051	(214)	(19)	(1,851)	(51)	56	1,486	114	358	11,636	191	16	2,193	19,548
49	State Income Tax Before Credits	279	72	201	(21)	(2)	(181)	(5)	6	146	11	35	1,140	19	2	215	1,916
50	State Tax Credits																
51	Federal Tax Deductions																
52	Federal Taxable Income	2,567	663	1,850	(193)	(17)	(1,670)	(46)	51	1,340	103	323	10,496	172	14	1,978	17,632
53	Federal Income Tax Before Credits	539	139	389	(41)	(4)	(351)	(10)	11	281	22	68	2,204	36	3	415	3,703
54	Federal Tax Credits																
55	Total Income Taxes	818	211	590	(62)	(5)	(532)	(15)	16	427	33	103	3,345	55	5	630	5,618

Ties to schedule 12 and schedule 11a

* Revenue requirements calculated at the last authorized rate of return

PRECEDENTIAL ADJUSTMENT DETAIL SCHEDULE
 2021 Unadjusted Test Year versus 2021 Adjusted Test Year
 (\$000s)

(1) Line No.	(2) NSPM - 11 Bridge by Report Lable - Precedential Adjustments	(3)-(17) Precedential Adjustments															(18) Total	
		(3) NSPM-Advertising	(4) NSPM-Assn Dues	(5) NSPM-Aviation	(6) NSPM-Chamber of Commerce Dues	(7) NSPM-Customer Deposits - A&G Expense	(8) NSPM-Donations	(9) NSPM-Econ Dev Donations	(10) NSPM-Econ Develop	(11) NSPM-Employee Expenses	(12) NSPM-Foundation Admin	(13) NSPM-Investor Relations	(14) NSPM-Monticello EPU Commission Order No Return	(15) NSPM-Nobles Disallowed Assets	(16) NSPM-Nuclear Retention Removal	(17) NSPM-Other Revenue to 3 Year Average Adj		
1																		
2	Operating Revenues																	
3	Retail Revenue																	
4	Other Operating											10,390	177			2,255	12,822	
5	Total Revenue											10,390	177			2,255	12,822	
6																		
7	Expenses																	
8	Operating Expenses																	
9	Power Production															(16)	(16)	
10	Customer Accounting																	
11	Customer Service and Information																	
12	Sales, Econ Dev, & Other							51	(56)								(5)	
13	Administrative and General	(2,913)	(724)	(2,072)	216	19	1,852			(1,505)	(111)	(357)					(5,595)	
14	Total Operating Expenses	(2,913)	(724)	(2,072)	216	19	1,852	51	(56)	(1,505)	(111)	(357)			(16)		(5,616)	
15																		
16	Depreciation																	
17	Amortization																	
18																		
19	Taxes																	
20	Property																	
21	Deferred Income Tax and ITC																	
22	Federal and State Income Tax		837	208	602	(62)	(5)	(532)	(15)	16	433	33	104	2,986	51	5	648	5,309
23	Payroll and Other				(22)							(4)	(6)					(32)
24	Total Taxes		837	208	579	(62)	(5)	(532)	(15)	16	433	29	99	2,986	51	5	648	5,277
25																		
26	Total Expenses	(2,075)	(516)	(1,492)	154	13	1,319	36	(40)	(1,073)	(82)	(258)	2,986	51	(11)	648	(340)	
27																		
28	Allowance for Funds Used During Construction																	
29	Net Income	2,075	516	1,492	(154)	(13)	(1,319)	(36)	40	1,073	82	258	7,404	126	11	1,607	13,162	
30																		
31																		
32	Calculation of Revenue Requirements																	
33	Rate Base																	
34	Required Operating Income																	
35	Operating Income	2,075	516	1,492	(154)	(13)	(1,319)	(36)	40	1,073	82	258	7,404	126	11	1,607	13,162	
36	Income Deficiency	(2,075)	(516)	(1,492)	154	13	1,319	36	(40)	(1,073)	(82)	(258)	(7,404)	(126)	(11)	(1,607)	(13,162)	
37	Revenue Deficiency	(2,913)	(724)	(2,094)	216	19	1,852	51	(56)	(1,505)	(115)	(363)	(10,390)	(177)	(16)	(2,255)	(18,471)	
38																		
39	Calculation of Income Taxes																	
40	Operating Revenue												10,390	177			2,255	12,822
41	-Operating Expense	(2,913)	(724)	(2,072)	216	19	1,852	51	(56)	(1,505)	(111)	(357)			(16)		(5,616)	
42	-Amortization																	
43	-Taxes Other than Income			(22)							(4)	(6)						(32)
44	Operating Income Before Adj	2,913	724	2,094	(216)	(19)	(1,852)	(51)	56	1,505	115	363	10,390	177	16	2,255	18,471	
45	Additions to Income																	
46	Deductions from Income																	
47	Debt Synchronization																	
48	State Taxable Income	2,913	724	2,094	(216)	(19)	(1,852)	(51)	56	1,505	115	363	10,390	177	16	2,255	18,471	
49	State Income Tax Before Credits	285	71	205	(21)	(2)	(181)	(5)	6	148	11	36	1,018	17	2	221	1,810	
50	State Tax Credits																	
51	Federal Tax Deductions																	
52	Federal Taxable Income	2,627	653	1,889	(195)	(17)	(1,670)	(46)	51	1,358	104	327	9,372	160	14	2,034	16,661	
53	Federal Income Tax Before Credits	552	137	397	(41)	(4)	(351)	(10)	11	285	22	69	1,968	34	3	427	3,499	
54	Federal Tax Credits																	
55	Total Income Taxes	837	208	602	(62)	(5)	(532)	(15)	16	433	33	104	2,986	51	5	648	5,309	

PRECEDENTIAL ADJUSTMENT DETAIL SCHEDULE
 2022 Unadjusted Test Year versus 2022 Adjusted Test Year
 (\$000s)

(1) Line No.	(2) NSPM - 11 Bridge by Report Label - Precedential Adjustments	(3)-(17) Precedential Adjustments															(18) Total
		(3) NSPM-Advertising	(4) NSPM-Assn Dues	(5) NSPM-Aviation	(6) NSPM-Chamber of Commerce Dues	(7) NSPM-Customer Deposits - A&G Expense	(8) NSPM-Donations	(9) NSPM-Econ Dev Donations	(10) NSPM-Econ Develop	(11) NSPM-Employee Expenses	(12) NSPM-Foundation Admin	(13) NSPM-Investor Relations	(14) NSPM-Monticello EPU Commission Order No Return	(15) NSPM-Nobles Disallowed Assets	(16) NSPM-Nuclear Retention Removal	(17) NSPM-Other Revenue to 3 Year Average Adj	
1	Operating Revenues																
2	Retail Revenue																
3	Other Operating												9,243	163		2,807	12,213
4	Total Revenue												9,243	163		2,807	12,213
5	Expenses																
6	Operating Expenses																
7	Customer Accounting																
8	Customer Service and Information																
9	Sales, Econ Dev, & Other																
10	Administrative and General	(2,967)	(723)	(2,117)	218	19	1,852	52	(56)	(1,455)	(113)	(359)				(5,645)	
11	Total Operating Expenses	(2,967)	(723)	(2,117)	218	19	1,852	52	(56)	(1,455)	(113)	(359)				(5,650)	
12	Depreciation																
13	Amortization																
14	Taxes																
15	Property																
16	Deferred Income Tax and ITC																
17	Federal and State Income Tax	853	208	615	(63)	(5)	(532)	(15)	16	418	34	105	2,657	47		807	5,143
18	Payroll and Other			(23)							(4)	(6)					(32)
19	Total Taxes	853	208	592	(63)	(5)	(532)	(15)	16	418	30	99	2,657	47		807	5,111
20	Total Expenses	(2,114)	(516)	(1,524)	155	13	1,320	37	(40)	(1,037)	(83)	(260)	2,657	47		807	(539)
21	Allowance for Funds Used During Construction																
22	Net Income	2,114	516	1,524	(155)	(13)	(1,320)	(37)	40	1,037	83	260	6,586	116		2,000	12,752
23	Calculation of Revenue Requirements																
24	Rate Base																
25	Required Operating Income																
26	Operating Income	2,114	516	1,524	(155)	(13)	(1,320)	(37)	40	1,037	83	260	6,586	116		2,000	12,752
27	Income Deficiency	(2,114)	(516)	(1,524)	155	13	1,320	37	(40)	(1,037)	(83)	(260)	(6,586)	(116)		(2,000)	(12,752)
28	Revenue Deficiency	(2,967)	(723)	(2,139)	218	19	1,852	52	(56)	(1,455)	(117)	(365)	(9,243)	(163)		(2,807)	(17,895)
29	Calculation of Income Taxes																
30	Operating Revenue												9,243	163		2,807	12,213
31	-Operating Expense	(2,967)	(723)	(2,117)	218	19	1,852	52	(56)	(1,455)	(113)	(359)				(5,650)	
32	-Amortization																
33	-Taxes Other than Income			(23)							(4)	(6)				(32)	
34	Operating Income Before Adjs	2,967	723	2,139	(218)	(19)	(1,852)	(52)	56	1,455	117	365	9,243	163		2,807	17,895
35	Additions to Income																
36	Deductions from Income																
37	Debt Synchronization																
38	State Taxable Income	2,967	723	2,139	(218)	(19)	(1,852)	(52)	56	1,455	117	365	9,243	163		2,807	17,895
39	State Income Tax Before Credits	291	71	210	(21)	(2)	(182)	(5)	6	143	11	36	906	16		275	1,754
40	State Tax Credits																
41	Federal Tax Deductions																
42	Federal Taxable Income	2,676	653	1,930	(196)	(17)	(1,671)	(47)	51	1,312	105	329	8,337	147		2,532	16,142
43	Federal Income Tax Before Credits	562	137	405	(41)	(4)	(351)	(10)	11	276	22	69	1,751	31		532	3,390
44	Federal Tax Credits																
45	Total Income Taxes	853	208	615	(63)	(5)	(532)	(15)	16	418	34	105	2,657	47		807	5,143

PUBLIC DOCUMENT – NOT-PUBLIC DATA HAS BEEN EXCISED

Northern States Power Company

Docket No. E002/GR-19-564
Exhibit____(BCH-1), Schedule 14
Page 1 of 6

Wholesale Customer Study

Purpose

With respect to the costs and revenues related to serving wholesale customers, the Company and the Department of Commerce agreed in the prior rate case (Docket No. E002/GR-15-826) as follows:

The Company will provide as a compliance filing in future rate cases a wholesale customer study which shows all wholesale customers being served by the Company (including, but not limited to, full requirements, partial requirements, and market based wholesale customers), types of service being provided to each wholesale customer, costs and revenues associated with each wholesale customer, and a clear showing either that wholesale costs are allocated out of the retail rate case or that the revenues are included in the retail rate case, for all services provided to wholesale customers.¹

This study provides the required information. Information in this study will include the types of services being provided to wholesale customers and the treatment of revenues and margins associated with wholesale customer transactions. The study does not address wholesale transmission revenues, which revenues and associated costs are discussed in detail in the Direct Testimony of Company witness Mr. Ian R. Benson.

All wholesale customers are provided services pursuant to bilateral agreements. These bilateral agreements define the scope of services for each wholesale customer, such as interfacing between the customer and the Midcontinent Independent System Operator, Inc. (MISO), including providing balancing services. Revenues from these customers are included in Other Revenues (e.g., for balancing services), and asset based margins for energy sales are passed through the fuel clause and removed from the cost of service. We also provide some non-asset based services to these customers (energy and capacity sales using financial instruments). Non-asset based margins (revenues less costs), as well as the fully-allocated costs of those activities, are removed from the cost of service.

¹ May 22, 2013 Issues List, Docket No. E002/GR-12-961.

PUBLIC DOCUMENT – NOT-PUBLIC DATA HAS BEEN EXCISED

Northern States Power Company

Docket No. E002/GR-19-564
Exhibit____(BCH-1), Schedule 14
Page 2 of 6

Historic Wholesale Cost Assignment Method

Through the mid-1990s, the Company provided bundled cost-based “requirements” wholesale services to numerous municipal utilities connected to the NSP transmission system. Total municipal loads were in the hundreds of megawatts. Some wholesale municipal customers were full requirements customers and purchased all of their capacity and energy from the Company. Other municipal customers received “preference power” allocations from the Western Area Power Administration for a portion of their power supply needs and purchased partial requirements service from the Company for the remainder. However, during the 1970s through the 1990s, new municipal power agencies (such as Southern Minnesota Municipal Power Agency, Central Minnesota Municipal Power Agency, Minnesota Municipal Power Agency, etc.) were created to serve the power supply needs of these and other municipal customers, and most of the cost-based requirements wholesale sales agreements expired.

Previously, when municipal power loads were significant, costs were allocated to a wholesale municipal jurisdiction similar to the process used to allocate costs to the Company’s retail jurisdictions (Minnesota, North Dakota and South Dakota). Fixed production costs were allocated based on coincident peak demand, and variable production costs were allocated based on the energy allocator. This process also included the direct assignment of some costs to the Wholesale jurisdiction for services being directly provided to those customers (such as distribution transformation services).

In addition, the Company direct-assigned costs where possible or allocated customer accounting, customer information, and sales costs to the jurisdiction based on the number of customers. Similarly, administrative and general (A&G) costs were allocated or direct assigned as appropriate based on functional organization. Specifically, if A&G costs were incurred by the Energy Supply, Commercial Operations or Transmission organizations, they were allocated to retail and wholesale jurisdictions based on the jurisdictional demand allocator.

Changes in Wholesale Market and Test Year Wholesale Customers

As of 2012, the Company directly served only three traditional cost-based requirements wholesale customers: the City of Ada, City of Kasota, and Heartland Consumers Power District (HCPD) for the City of Lake Crystal. These customers comprised less than one-tenth of one percent of total Company demand and energy requirements. The rates

PUBLIC DOCUMENT – NOT-PUBLIC DATA HAS BEEN EXCISED

Northern States Power Company

Docket No. E002/GR-19-564
Exhibit____(BCH-1), Schedule 14
Page 3 of 6

and services for sales to these customers were regulated by the Federal Energy Regulatory Commission (FERC) under tariffs or contracts on file with FERC. The contract rates were indexed to the Minnesota Commercial and Industrial (C&I) General Service Retail or Time of Day rates.

However, excess capacity and energy on a short to mid-term basis has increased competition and put downward pressure on pricing. Given the market dynamics, the Company's wholesale customers determined it was in their best interest to purchase energy on the open market rather than continuing service under cost based contracts. Where in the past, these customers mitigated energy cost volatility risk by entering into full requirements agreements with the Company, they now prefer to take on that risk themselves, given the current market environment. Therefore, the Company no longer has any cost-based requirements wholesale customers in the 2020 test year or the 2021 and 2022 plan years.

Services Provided to Wholesale Customers in 2020

The Company provides services to wholesale customers through the execution of transactions that fall into three main categories: Asset Based Transactions, Non-Asset Based Transactions, and Other Wholesale Transactions.

Asset based transactions involve the sale of excess energy and capacity available from Company owned generation assets. Both costs and revenues associated with asset-based energy and capacity transactions are included in the unadjusted retail rate case cost of service, and all margins resulting from asset-based energy sales are excluded from the 2020 test year as they are returned to the ratepayers through the Fuel Clause Adjustment pursuant the Company's 2005 electric rate case (Docket No. E002/GR-05-1428).

Non-asset based transactions are those in which energy and/or capacity is purchased from a third party and resold for profit. Non-asset based transactions are undertaken as energy market opportunities to make revenue and are unrelated to meeting the needs of our retail customers. These transactions are included in the unadjusted retail rate case cost of service. However, the fully allocated costs of non-asset based trading activity are removed from the cost of service study, and all margins (revenues less costs) associated with these activities are also removed and retained by the Company.

The Other Wholesale Transaction category includes transactions related to MISO interfacing services, an energy services agreement with **[PROTECTED DATA**

PUBLIC DOCUMENT – NOT-PUBLIC DATA HAS BEEN EXCISED

Northern States Power Company

Docket No. E002/GR-19-564
Exhibit____(BCH-1), Schedule 14
Page 4 of 6

BEGINS **PROTECTED DATA ENDS]**, and the pass-through of MISO charges to the appropriate parties. The costs of these services are included in the cost of service, and all revenues are recorded as Other Revenue and are credited to retail customers through the cost of service.

Attachment A to this schedule provides a list of the types of services provided, and the ratemaking treatment for each type of service. Attachment B to this schedule provides a wholesale customer summary including all current agreements by customer and the expected revenues for the years 2020-2022.

Test Year Wholesale Transactions

During 2020, the Company expects to engage in wholesale transactions in the following categories: asset based energy sales, asset based capacity sales, non-asset based sales and other wholesale transactions including MISO interface and scheduling services, energy services agreements, and pass through charges. These transactions and their impact on the test year are discussed below.

Asset Based Energy Sales Transactions

Asset based energy sales margins are generated through the sale of available excess energy either directly into the Midcontinent Independent System Operator (MISO) market or to specific wholesale customers through bilateral agreements. Pricing of excess energy sales to MISO are based on prevailing locational marginal prices (LMP) that clear in the Day Ahead or Real Time markets. Pricing of transactions s made directly by the Company to specific wholesale customers is based on the current marginal cost of generation at the time of the transaction, and the Company does not make a margin on these sales. Instead, the Company charges a scheduling fee for providing this service. Therefore, the margin on these sales is equal to the scheduling fee paid by the customer. Net margins earned on all asset based energy sales, including the scheduling fees, are returned to rate payers through the Fuel Clause Adjustment.

Table 1 below shows the asset based energy sales margins for 2018 and 2020. In addition, Volume 4 Test Year Workpapers, Section VIII Adjustments, Tab A29 includes all calculations related to asset based transactions and their impact on the test year. The revenues associated with these trades flow through to Other Electric Revenues in the income statement as shown in Workpapers Vol 4, Tab R2 : “SALES FOR RESALE – BILED MKT ASSET REV.”

PUBLIC DOCUMENT – NOT-PUBLIC DATA HAS BEEN EXCISED

Northern States Power Company

Docket No. E002/GR-19-564
Exhibit___(BCH-1), Schedule 14
Page 5 of 6

Table 1

Asset Based Energy Sales Transactions

State of Minnesota Jurisdiction	2018	2020 Budget
Revenues	\$114.1M	\$108.3M
COGS *	(\$91.7M)	(\$103.5M)
Margin	\$22.4M	\$4.8M

*COGS Information includes Revenue Sharing Thru the FCA

Asset Based Capacity Sales Transactions

Revenues for asset based capacity sales are included in the cost of service and are not included in the asset based margin adjustment (which includes only the net margin for asset based energy sales). These capacity sales revenues, labeled “OTHER ELEC REV – Zonal Resource Credits (ZRC)” and totaling \$688,225 are included in Other Electric Revenues in the income statement as shown in Workpapers Vol 4, Tab R5.

Non-Asset Based Transactions

Non-asset based transactions are not included in the retail rate case: revenues and their associated fully allocated embedded costs are removed from the cost of service, and all margins are retained by the Company pursuant to the settlement in the Company’s 2011 rate case (Docket No. E002/GR-10-971) . These adjustments are discussed by Company witness Mr. Benjamin C. Halama in his Direct Testimony, Section VII, Adjustments to the Test Year.

Other Wholesale Transactions

This category includes the three types of wholesale customer agreements not included in the asset based and non-asset based categories: MISO Interface/Scheduling, Energy Services Agreements, and Pass Through Charges (for a detailed explanation of each category, please see Attachment A to this schedule). In each case, revenues and costs associated with these transactions are included in the rate case, and no adjustment is made to the income statement or cost of service. As shown in Attachment B to this schedule, revenues from Other Wholesale Transactions are expected to be \$583,115 in 2020. These revenues flow into Other Operating Revenue as shown in Workpapers Vol 4, Tab R1, labeled “OTHER ELEC REV .”

PUBLIC DOCUMENT – NOT-PUBLIC DATA HAS BEEN EXCISED

Northern States Power Company

Docket No. E002/GR-19-564
Exhibit____(BCH-1), Schedule 14
Page 6 of 6

Conclusions

After reviewing the services anticipated to be provided to wholesale customers in 2020 and the transactions associated with those services, the Company concludes that the ratemaking treatment of these transactions is consistent with existing regulatory practices:

- Wholesale transaction costs and revenues are held above the line except with respect to non-asset based transactions
 - Non-asset based margins are adjusted out of the test year and retained by the Company
 - Non-asset based trading costs are adjusted out of the test year, reducing the revenue requirement
- Asset based energy sales margins are shared with rate payers through the Fuel Clause Adjustment
- Other Wholesale Transactions are included in the test year and offset revenue requirements

The Company does not recommend any changes to the treatment of wholesale customers or the revenues and costs associated with providing these services. In addition, the Company concludes that there are no adverse impacts on ratepayers as a result of providing these services or the ratemaking treatment of the associated transactions.

PUBLIC DOCUMENT – NOT-PUBLIC DATA HAS BEEN EXCISED

Northern States Power Company

Docket No. E002/GR-19-564
Exhibit___(BCH-1), Schedule 14
Attachment A - Page 1 of 1

Deal Category	Deal Type	Scope of Services	Ratemaking Treatment
Energy	Asset Based Energy Sale	These Asset Based Energy deals are for the sale of energy generated by NSP's own assets. The quantity is scheduled by mutual agreement. NSP earns either a fixed monthly fee or per MWh scheduling fee over and above the cost of energy. The quantity is determined based upon forecasted volumes which may vary from actual usage.	Asset Based - Fuel Clause Adjustment 100% of the margins are returned to ratepayers through the Fuel Clause Adjustment
	Non-Asset Based Energy Sale	A Non-Asset Based Energy deal is for the sale of a specified quantity of MWh at a given price throughout the contract term. The energy sold to the counterparty is not generated by NSP's own assets. Instead NSP either (1) purchases a like product to back all or a part of the position and/or (2) purchases the requisite energy off the MISO market day ahead or in real time depending upon risk tolerance. Business Rules require that any purchase or sale of energy be offered to the NSP system first. If the system passes on the purchase or sale it can then be assigned to the prop book.	Non-Asset Based - Margin Adjustment Margins are retained by the Company. Therefore, both the margins and the associated O&M costs are excluded from the test year
Capacity	Asset Based Capacity Sale	An Asset Based Capacity deal is for the sale of MISO Zonal Resource Credits ("ZRCs", which are fungible instruments that represent one MW of Unforced Capacity from a Planning Resource over a MISO planning year). For these deals, the capacity sold is provided by NSP's projected surplus assets.	Asset Based - No Adjustment Revenues are included as an offset to the revenue requirement. Associated fixed costs are included in the Cost of Service Study.
	Non-Asset Based Capacity Sale	A Non-Asset Based Capacity deal is for the sale of MISO ZRCs that are backed by the purchase of a like product. Business Rules require that any purchase or sale of capacity be offered to the NSP system first. If the system passes on the purchase or sale it can then be assigned to the prop book	Non-Asset Based - Margin Adjustment Margins are retained by the Company. Therefore, both the margins and the costs are excluded from the test year
Other	MISO Interface/Scheduling	In a MISO Interface deal NSP provides services necessary for the counterparty to operate in the MISO market. Such services include Day Ahead load bids, FinScheds, Capacity reporting for MISO Module E, and others as specified in the individual contracts. Pricing is determined on a per MWh basis and may vary depending upon actual usage.	Other Wholesale Transactions - No Adjustment Revenues are included as an offset to the revenue requirement. Associated O&M costs are included in the Cost of Service Study.
	Energy Services Agreement	The Company currently has only one Energy Services Agreement in place. This deal governs the fee paid to NSP for the preservation of transmission reservations, which improves [PROTECTED DATA BEGINS PROTECTED DATA ENDS] ability to import and export power. The annual service fee payments are payable to NSP in advance of the service year.	Other Wholesale Transactions - No Adjustment Revenues are included as an offset to the revenue requirement. Associated O&M costs are included in the Cost of Service Study.
	MISO Pass Through	These pass through arrangements specify that all MISO charges including transmission service, congestion AND loss, and ancillary services are a pass through. NSP earns no margin on such deals.	N/A There are no revenues or expenses requiring ratemaking treatment as these transactions are merely a pass through of MISO charges.

**NSP Wholesale Customer Summary
as of July 24, 2019**

Background information

Energy deals
Gen book sales

A deal in the gen book energy column (i.e. NWECC partial requirements) is for the sale of energy that is generated by NSP's own assets. The quantity is scheduled by the counterparty for use as an intermediate/peaking resource. NSP earns either a fixed monthly fee or per MWh scheduling fee over and above the cost of energy. The margin for these deals is determined based upon forecasted volumes and may vary depending upon actual usage.

Prop book sales

A deal in the prop book energy column (i.e. Ada energy) is for the sale of a specified quantity of MWs at a given price throughout the contract term. The energy sold to the counterparty is not generated by NSP's own assets. Instead NSP either (1) purchases a like product to back the position (a bilateral deal) or (2) purchases the requisite energy off the MISO market (a market based deal).

Capacity deals

Gen book

A deal in the gen book capacity column (i.e. Ada capacity) is for the sale of MISO Zonal Resource Credits ("ZRCs", which are fungible instruments that represent one MW of Unforced Capacity from a Planning Resource over a MISO planning year). For these deals, the capacity sold is provided by NSP's projected surplus assets.

Prop book

A deal in the prop book capacity deals column (i.e. Basin Electric capacity) is for the sale of MISO ZRCs that are backed by the purchase of a like product.

Other deals

MISO interface/scheduling

A deal in the MISO interface services & scheduling fees column (i.e. Ada energy) is for NSP providing services necessary for the counterparty to operate in the MISO market. Such services include Day Ahead load bids, FinScheds, Capacity reporting for MISO Module E, and others as specified in the individual contracts. Pricing is determined on a per MWh basis and may vary depending upon actual usage.

Energy services agreement



Pass through charges

A deal in the pass through charges column (i.e. Ada energy) is to specify that all MISO charges including transmission service, congestion & loss, and ancillary services are a pass through. NSP earns no margin on such deals.

Counterparty	Contract term	2020							2021							2022									
		Gen: partial requirements 3	Prop: bilateral or market based	Gen capacity	Prop capacity	MISO interface svcs & Scheduling Fees	Energy services agreement	Pass through charges	Gen: partial requirements 3	Prop: bilateral or market based	Gen capacity	Prop capacity	MISO interface svcs & Scheduling Fees	Energy services agreement	Pass through charges	Gen: partial requirements 3	Prop: bilateral or market based	Gen capacity	Prop capacity	MISO interface svcs & Scheduling Fees	Energy services agreement	Pass through charges			
Revenues																									
Ada	1/1/17-12/31/21	1		A		A		2	1		A		A		2										
Ada	1/1/12-12/31/27																								
Kasota	1/1/17-12/31/21		1						1													A		2	
Kasota	1/1/17-12/31/21																								
Kasota	1/1/22-12/31/27																								
NWECC	5/1/15 - 12/31/20		B	1																			A		2
NWECC	1/1/21 - 12/31/21																								
NWECC	6/1/19 - 5/31/20																								
NCP	5/1/15 - 12/31/20		B	1																					
NCP	1/1/21 - 12/31/21																								
NCP	6/1/19 - 5/31/20																								
Dahlberg Light & Power Co.	1/1/17 - 12/31/27																								
Dahlberg Light & Power Co.	1/1/14 - 12/31/27		B	1																			A		
Dahlberg Light & Power Co.	6/1/19 - 5/31/20																								
Great Lakes Utilities	6/1/20 - 5/31/21																							A	A
Costs																									
Ada	1/1/17-12/31/21	1				5 & 8		2	1				5 & 8		2							5 & 8		2	
Ada	1/1/17-12/31/21			4																					
Ada	1/1/12-12/31/27																								
Kasota	1/1/17-12/31/21		1			5 & 8		2	1				5 & 8		2							5 & 8		2	
Kasota	1/1/17-12/31/21			4		5 & 8		2					5 & 8		2							5 & 8		2	
Kasota	1/1/22-12/31/27																								
NWECC	5/1/15 - 12/31/20		1					6																	
NWECC	1/1/21 - 12/31/21																								
NWECC	6/1/19 - 5/31/20		1					6																	
NCP	5/1/15 - 12/31/20																								
NCP	1/1/21 - 12/31/21																								
NCP	6/1/19 - 5/31/20																								
Dahlberg Light & Power Co.	1/1/17 - 12/31/27																								
Dahlberg Light & Power Co.	1/1/14 - 12/31/27		1			5		6	1				5		6							5		6	
Dahlberg Light & Power Co.	6/1/19 - 5/31/20																								
Great Lakes Utilities	6/1/20 - 5/31/21																							2	2

1 NSP's proprietary book budget after joint operating agreement for 2020-2022 is targeted at \$6.3M, \$8M, and \$8.3M respectively. This transaction is part of the proprietary budget target however we do not specifically identify the revenue and cost of the deals, therefore this information is not presented within this analysis. The margin of this transaction is not shared with Minnesota.

2 All MISO charges including transmission service, congestion & loss, and ancillary services are passed through to the customer. These charges are variable on a monthly basis and are not forecasted. Due to the pass-through process, income is equal to cost and there is no incremental margin to NSP.

3 These generation book partial requirements customers purchase energy at Time of Day rates and are charged either a fixed monthly scheduling fee or a fee based upon MWhs scheduled. Accordingly, the revenue and cost associated with the energy will fluctuate in accordance with market prices but will not impact the margin on the deals. The margin will always be the scheduling fee on these deals. Therefore, the revenue shown above is only the scheduling fee margin (which is shared 100% with ratepayers) and cost information is not presented.

4 The cost for generation book capacity is embedded within the cost of fuel for NSP and is not specifically identified.

5 The cost for MISO interface services is embedded within operating expense for NSP and is not specifically identified.

6 The cost for the energy services agreement with Manitoba Hydro is embedded within operating expense for NSP and is not specifically identified.

7 N/A

8 Both the Ada & Kasota Agreements were extended from 2017-2021, which result in revenues in the Gen Capacity and Energy Service Agreements. Gen Capacity revenues past 2018 will be priced on an annual basis.

A This amount agrees to either the "NSP Capacity ZRC Revenue" or "NSP Service Fee Revenue" budget file without exception.
 B The budgeted gen book margin for 2020 - 2022 is \$4M, \$51M, and \$56M respectively. The budgeted amounts are a subset of this budget and are not budgeted on a contract by contract basis.
 C These amounts are not included in the 2020 - 2022 budget due to timing of deal execution (i.e. deal was executed after preparation of 2020-2022 budget)

CAPACITY COST STUDY
NSP Summary

Long-Term Purchased Power Capacity Cost Forecast by Contract - Minnesota 2020 Rate Case Filing											Total
	Bylesby 1	Bylesby 2	Hastings	LSP	MH.Part	Rapidan*	St.Cloud	Mankato	Mankato II**	Cannon Falls	\$000
2020 Jan											-
2020 Feb											-
2020 Mar											-
2020 Apr											-
2020 May											-
2020 Jun											-
2020 Jul											-
2020 Aug											-
2020 Sep											-
2020 Oct											-
2020 Nov											-
2020 Dec											-
2021 Jan											-
2021 Feb											-
2021 Mar											-
2021 Apr											-
2021 May											-
2021 Jun											-
2021 Jul											-
2021 Aug											-
2021 Sep											-
2021 Oct											-
2021 Nov											-
2021 Dec											-
2022 Jan											-
2022 Feb											-
2022 Mar											-
2022 Apr											-
2022 May											-
2022 Jun											-
2022 Jul											-
2022 Aug											-
2022 Sep											-
2022 Oct											-
2022 Nov											-
2022 Dec											-
2020											147,899
2021											153,403
2022											159,427

*The contract with Rapidan terminates Jan 31, 2020
 ***The contract with Makato II begins in June 1, 2019

Description of Terms in Following Pages (as per DOC IR-041 in Docket No. E002/GR-12-961):

Demand Rate	Specifies the rate that is paid per unit of capacity that is purchased.
FOM Rate	Fixed Operations and Maintenance rate; defined in each contract.
Capacity Factor Adjustment	Lowers the capacity payment if the facility is producing below a capacity factor of 70% as defined in the contract.
Fuel Inventory Rate	Defined in contracts and is fixed for the term of the agreement.
FR1	Fixed rate as defined by contract
FR2	Fixed rate as defined by contract
FR3	Fixed rate as defined by contract
AF1	Adjustment Factor-1 as defined by contract
BF1	Bonus Factor - 1 as defined by contract
CLF	Capacity Loss Factor as defined by contract
CTUP	Capacity True-Up Payment
CCTF	Committed Capacity True-up Factor based on the Tested Capacity Ratio (TCR) determined by the Committed Capacity Test

Calculation Maps are included for each following page.

CAPACITY COST STUDY
NSP Summary

	A	B	C	D = A+B+C	E	F	D*E*F/1000
	Demand Rate \$/kW-mo	Fuel Inventory \$/kW-mo	FOM Rate \$/kW-mo	Committed Capacity Rate \$/kW-mo	Committed Capacity kW	Losses %	Total Demand \$000
2020 Jan							
2020 Feb							
2020 Mar							
2020 Apr							
2020 May							
2020 Jun							
2020 Jul							
2020 Aug							
2020 Sep							
2020 Oct							
2020 Nov							
2020 Dec							
2021 Jan							
2021 Feb							

CAPACITY COST STUDY
NSP Summary

A B C D = A+B+C E F D*E*F/1000

	Demand Rate \$/kW-mo	Fuel Inventory \$/kW-mo	FOM Rate \$/kW-mo	Committed Capacity Rate \$/kW-mo	Committed Capacity kW	Losses %	Total Demand \$000
2020 Jan							
2020 Feb							
2020 Mar							
2020 Apr							
2020 May							
2020 Jun							
2020 Jul							
2020 Aug							
2020 Sep							
2020 Oct							
2020 Nov							
2020 Dec							
2021 Jan							
2021 Feb							

CAPACITY COST STUDY
NSP Summary

	A	B	C = A+B	D	F	C*D*F/1000
	Demand Rate \$/kW-mo	FOM Rate \$/kW-mo	Total Demand Rate \$/kW-mo	Committed Capacity kW	Capacity Factor Adjustment	Total Demand \$000
2020 Jan						
2020 Feb						
2020 Mar						
2020 Apr						
2020 May						
2020 Jun						
2020 Jul						
2020 Aug						
2020 Sep						
2020 Oct						
2020 Nov						
2020 Dec						
2021 Jan						
2021 Feb						
2021 Mar						
2021 Apr						
2021 May						
2021 Jun						
2021 Jul						
2021 Aug						
2021 Sep						
2021 Oct						
2021 Nov						
2021 Dec						
2022 Jan						
2022 Feb						
2022 Mar						
2022 Apr						
2022 May						
2022 Jun						
2022 Jul						
2022 Aug						
2022 Sep						
2022 Oct						
2022 Nov						
2022 Dec						

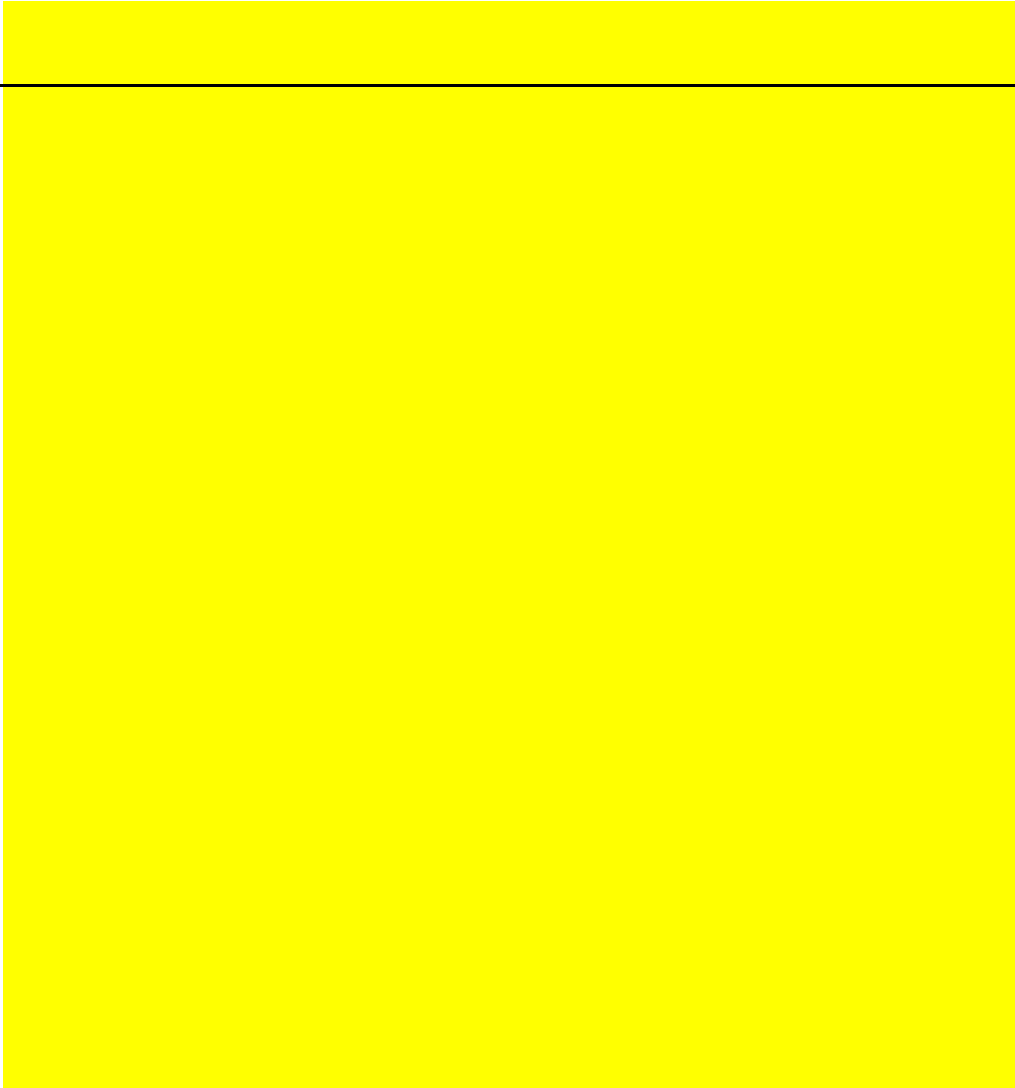
CAPACITY COST STUDY
NSP Summary

A B C D = A+B+C E F = D*E/1000 G H I = G*H/1000 F+I

2020 Jan	[Redacted]								
2020 Feb	[Redacted]								
2020 Mar	[Redacted]								
2020 Apr	[Redacted]								
2020 May	[Redacted]								
2020 Jun	[Redacted]								
2020 Jul	[Redacted]								
2020 Aug	[Redacted]								
2020 Sep	[Redacted]								
2020 Oct	[Redacted]								
2020 Nov	[Redacted]								
2020 Dec	[Redacted]								
2021 Jan	[Redacted]								
2021 Feb	[Redacted]								
2021 Mar	[Redacted]								
2021 Apr	[Redacted]								

CAPACITY COST STUDY
NSP Summary

A B C D = A+B+C E F D*E*F/1000-4.16667

2020 Jan						
2020 Feb						
2020 Mar						
2020 Apr						
2020 May						
2020 Jun						
2020 Jul						
2020 Aug						
2020 Sep						
2020 Oct						
2020 Nov						
2020 Dec						
2021 Jan						
2021 Feb						
2021 Mar						
2021 Apr						
2021 May						
2021 Jun						
2021 Jul						
2021 Aug						
2021 Sep						
2021 Oct						
2021 Nov						
2021 Dec						
2022 Jan						
2022 Feb						
2022 Mar						
2022 Apr						
2022 May						
2022 Jun						
2022 Jul						
2022 Aug						
2022 Sep						
2022 Oct						
2022 Nov						
2022 Dec						

CAPACITY COST STUDY

NSP Summary

Purchaser: Northern States Power

Seller: Mankato Energy Center II, LLC (Purchased Power Agreement dated xx/xx/xx)

[Redacted]

[Redacted]

1 2 3 4 5 6 7 8 9 10 11 12 13
6/1/19-5/31/20 6/1/20-5/31/21 6/1/21-5/31/22 6/1/22-5/31/23 6/1/23-5/31/24 6/1/24-5/31/25 6/1/25-5/31/26 6/1/26-5/31/27 6/1/27-5/31/28 6/1/28-5/31/29 6/1/29-5/30/30 6/1/30-5/31/31 6/1/31-5/31/32

[Redacted]

Contract Capacity Payment Factors:

[Redacted]

2020 Fixed Charges:

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Annual Total

[Redacted]

[Redacted]

[Redacted]

CAPACITY COST STUDY

NSP Summary

Purchaser:

Seller:

Northern States Power
Invenergy Cannon Falls, LLC - Cannon Falls Energy Center

Expected Start Date:

Expected Termination Date:

[Redacted]

Contracted Capacity (Net Capability) - KW:

Net Dependable Capability:

[Redacted]

Fixed Charge Prices:

2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

[Redacted]

Fixed Charge Factors:

[Redacted]

Fixed Charges - 2020:

January February March April May June July August September October November December Annual Total

[Redacted]

[Redacted]

[Redacted]

\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

Economic Development Analysis - Commercial Inputs**2020 Economic Development**

Average Cost for Industrial/Commercial installation of 500KVA Txfs.	\$	37,000	Schedule 16, Attachment B, Line 1
Annual Revenue per Customer	\$	146,461	Schedule 16, Attachment B, Line 23
Total Economic Development Expenses in Test Year	\$	56,203	Schedule 16, Attachment B, Line 18
Other Revenue Requirements Associated with Additional ED Customer	\$	19,175	Schedule 16, Attachment B, Lines 16, 19, 20, 21
Total Revenue Requirements	\$	<u>75,378</u>	Schedule 16, Attachment B, Line 22
Potential Customer Benefit in Year 1	\$	<u>71,082</u>	Schedule 16, Attachment B, Line 24
Potential Cumulative Customer Benefit over Life of Investment	\$	1,459,041	Schedule 16, Attachment B, Line 26

Economic Development Analysis - Commercial Inputs

2020 Economic Development Program Cost Benefit Analysis

Growth Program Cost Only Yes Enter "Yes" for Growth Program Cost Only Analysis
 Total Economic Development Costs No

Present Commercial Distribution Rates:

Annual Revenue per Customer \$ 146,461 Margin & Customer charge only, no fuel, no rider revenues

ED Program Customer results customers
 Average Annual Use per Customer 2,190,000 kWh
 kWh Monthly demand billing unit 500 kW
 Assumed Total ED Program Result 2,190,000 kWh

Ave Cost for Industrial/Commercial Jobs involving the installation of 500KVA Txfs.
 \$ 37,000

Book Life - transformers 32 years
 Negative Salvage -10.0% cost of removal
 Book Depreciation Rate 3.438%
 Tax Depreciation Rate MACRS Depreciation Tables - 20 year recovery

Composite Tax Rate 28.74%

Total Economic Development Costs
 Total ED Costs for all Customers
 Cumulative NPV Revenue Requirement

Preliminary Cost of Capital - Electric Case Filing

	Cost	Weight	Weighted Cost of Capital	
Equity	9.20%	52.50%	4.83%	Last Authorized Cost of Capital per E002/GR-15-826
Preferred Stock	0.00%	0.00%	0.00%	Last Authorized Cost of Capital per E002/GR-15-826
Long-term Debt	4.75%	45.81%	2.18%	Last Authorized Cost of Capital per E002/GR-15-826
Short-term Debt	4.31%	1.69%	0.07%	Last Authorized Cost of Capital per E002/GR-15-826
		100.00%	7.08%	

MN Composite Income Tax Rate 28.74%

Pre-tax Rate of Return 9.03%

Extension Operating & Maintenance Factor 2.73%
 MN Gas Rate Book - Sec. 6, 1st Rev. Sht No. 17.1

Annual Escalation Rate - Chained Price Index-Gross Domestic Product (source: biennial CIP Recovery Factor Filing (BENCOST) MN Office of Energy Security "OES") 3.59%

Property Tax Rate 1.672%
 Hennepin County Electric Rate: 2018 Property Tax Table

Societal Perception:

Electric environmental damage based on environmental damage factor of \$6.00 / MWh from Xcel Energy Resource Planning.
 MWh/kWh 0.001 \$ 6.00 MWh
 3.59%

Economic Development - Commercial - with Societal Perspective**Net Present Value of Cash Flows**

Line No.	Placed in Service	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.
	1	2	3	4	5	6	7
<u>REVENUE REQUIREMENTS ANALYSIS:</u>							
1	Total Cost	\$ 37,000					
2							
3							
4	Total cost:	\$ 37,000					
5	Beginning Balance	\$ 37,000					
6	Depreciation Expense (including negative salvage)	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272
7	Ending Balance - Net Plant	\$ 35,728	\$ 34,456	\$ 33,184	\$ 31,913	\$ 30,641	\$ 29,369
8	Average Net Plant	\$ 36,364	\$ 35,092	\$ 33,820	\$ 32,548	\$ 31,277	\$ 30,005
9	Tax Depreciation Rate	3.750%	7.219%	6.677%	6.177%	5.713%	5.285%
10	Tax Depreciation Amount	\$ 1,388	\$ 2,671	\$ 2,470	\$ 2,285	\$ 2,114	\$ 1,955
11	Book - Tax Depreciation Difference	\$ (116)	\$ (1,399)	\$ (1,199)	\$ (1,014)	\$ (842)	\$ (684)
12	Cumulative Difference	\$ (116)	\$ (1,515)	\$ (2,713)	\$ (3,727)	\$ (4,569)	\$ (5,253)
13	Accumulated Deferred Income Taxes (ADIT)	\$ (33)	\$ (435)	\$ (780)	\$ (1,071)	\$ (1,313)	\$ (1,510)
14	Average ADIT	\$ (17)	\$ (234)	\$ (608)	\$ (926)	\$ (1,192)	\$ (1,411)
15	Rate Base	\$ 36,347	\$ 34,858	\$ 33,213	\$ 31,623	\$ 30,084	\$ 28,593
16	Return Requirement @ Pre-tax cost of capital	\$ 3,282	\$ 3,148	\$ 2,999	\$ 2,856	\$ 2,717	\$ 2,582
17	Distribution Costs:						
18	Economic Development Net Donations	\$ 56,203					
	Societal Perspective - Net Benefit (Envrio Damage Costs - externalities)	\$ 13,612	\$ 14,100	\$ 14,607	\$ 15,131	\$ 15,674	\$ 16,237
19	System Operating and Maintenance Costs	\$ 1,009	\$ 1,046	\$ 1,083	\$ 1,122	\$ 1,162	\$ 1,204
20	Depreciation Expense	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272
21	Property Taxes	\$ -	\$ 619	\$ 641	\$ 664	\$ 688	\$ 712
22	Total Revenue Requirement	\$ 75,378	\$ 20,184	\$ 20,601	\$ 21,044	\$ 21,513	\$ 22,007
23	Customer Non-Energy Revenues at proposed rates	\$ 146,461	\$ 146,461	\$ 146,461	\$ 146,461	\$ 146,461	\$ 146,461
24	Revenue Excess (Deficiency)	\$ 71,082	\$ 126,277	\$ 125,859	\$ 125,417	\$ 124,948	\$ 124,454
25	NPV of annual revenue excess (deficiency) @ Overall Return	\$ 66,383	\$ 110,130	\$ 102,509	\$ 95,394	\$ 88,754	\$ 82,558
26	Cumulative NPV	\$ 66,383	\$ 176,513	\$ 279,022	\$ 374,416	\$ 463,170	\$ 545,728

Economic Development - Commercial - with Societal Perspective**Net Present Value of Cash Flows**

Line No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.
	8	9	10	11	12	13	14
<u>REVENUE REQUIREMENTS ANALYSIS:</u>							
1	Total Cost						
2							
3							
4	Total cost:						
5	Beginning Balance						
6	Depreciation Expense (including negative salvage)	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272
7	Ending Balance - Net Plant	\$ 26,825	\$ 25,553	\$ 24,281	\$ 23,009	\$ 21,738	\$ 20,466
8	Average Net Plant	\$ 27,461	\$ 26,189	\$ 24,917	\$ 23,645	\$ 22,373	\$ 21,102
9	Tax Depreciation Rate	4.522%	4.462%	4.461%	4.462%	4.461%	4.462%
10	Tax Depreciation Amount	\$ 1,673	\$ 1,651	\$ 1,651	\$ 1,651	\$ 1,651	\$ 1,651
11	Book - Tax Depreciation Difference	\$ (401)	\$ (379)	\$ (379)	\$ (379)	\$ (379)	\$ (379)
12	Cumulative Difference	\$ (6,190)	\$ (6,570)	\$ (6,948)	\$ (7,327)	\$ (7,706)	\$ (8,085)
13	Accumulated Deferred Income Taxes (ADIT)	\$ (1,779)	\$ (1,888)	\$ (1,997)	\$ (2,106)	\$ (2,215)	\$ (2,324)
14	Average ADIT	\$ (1,722)	\$ (1,834)	\$ (1,943)	\$ (2,052)	\$ (2,160)	\$ (2,269)
15	Rate Base	\$ 25,739	\$ 24,355	\$ 22,975	\$ 21,594	\$ 20,213	\$ 18,832
16	Return Requirement @ Pre-tax cost of capital	\$ 2,324	\$ 2,199	\$ 2,075	\$ 1,950	\$ 1,825	\$ 1,701
17	Distribution Costs:						
18	Economic Development Net Donations Societal Perspective - Net Benefit (Envrio Damage Costs - externalities)	\$ 17,424	\$ 18,049	\$ 18,697	\$ 19,368	\$ 20,064	\$ 20,784
19	System Operating and Maintenance Costs	\$ 1,292	\$ 1,338	\$ 1,386	\$ 1,436	\$ 1,488	\$ 1,541
20	Depreciation Expense	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272
21	Property Taxes	\$ 764	\$ 792	\$ 820	\$ 850	\$ 880	\$ 912
22	Total Revenue Requirement	\$ 23,076	\$ 23,650	\$ 24,250	\$ 24,876	\$ 25,529	\$ 26,209
23	Customer Non-Energy Revenues at proposed rates	\$ 146,461	\$ 146,461	\$ 146,461	\$ 146,461	\$ 146,461	\$ 146,461
24	Revenue Excess (Deficiency)	\$ 123,385	\$ 122,810	\$ 122,211	\$ 121,585	\$ 120,932	\$ 120,252
25	NPV of annual revenue excess (deficiency) @ Overall Return	\$ 71,383	\$ 66,353	\$ 61,663	\$ 57,291	\$ 53,216	\$ 49,418
26	Cumulative NPV	\$ 693,888	\$ 760,240	\$ 821,904	\$ 879,195	\$ 932,411	\$ 981,828

Economic Development - Commercial - with Societal Perspective**Net Present Value of Cash Flows**

Line No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.
	15	16	17	18	19	20	21
<u>REVENUE REQUIREMENTS ANALYSIS:</u>							
1	Total Cost						
2							
3							
4	Total cost:						
5	Beginning Balance						
6	Depreciation Expense (including negative salvage)	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272
7	Ending Balance - Net Plant	\$ 17,922	\$ 16,650	\$ 15,378	\$ 14,106	\$ 12,834	\$ 11,563
8	Average Net Plant	\$ 18,558	\$ 17,286	\$ 16,014	\$ 14,742	\$ 13,470	\$ 12,198
9	Tax Depreciation Rate	4.462%	4.461%	4.462%	4.461%	4.462%	4.461%
10	Tax Depreciation Amount	\$ 1,651	\$ 1,651	\$ 1,651	\$ 1,651	\$ 1,651	\$ 1,651
11	Book - Tax Depreciation Difference	\$ (379)	\$ (379)	\$ (379)	\$ (379)	\$ (379)	\$ (379)
12	Cumulative Difference	\$ (8,843)	\$ (9,222)	\$ (9,601)	\$ (9,979)	\$ (10,358)	\$ (10,737)
13	Accumulated Deferred Income Taxes (ADIT)	\$ (2,542)	\$ (2,650)	\$ (2,759)	\$ (2,868)	\$ (2,977)	\$ (3,086)
14	Average ADIT	\$ (2,487)	\$ (2,596)	\$ (2,705)	\$ (2,814)	\$ (2,923)	\$ (3,032)
15	Rate Base	\$ 16,071	\$ 14,690	\$ 13,309	\$ 11,928	\$ 10,548	\$ 9,167
16	Return Requirement @ Pre-tax cost of capital	\$ 1,451	\$ 1,326	\$ 1,202	\$ 1,077	\$ 952	\$ 828
17	Distribution Costs:						
18	Economic Development Net Donations Societal Perspective - Net Benefit (Envrio Damage Costs - externalities)	\$ 22,303	\$ 23,104	\$ 23,933	\$ 24,792	\$ 25,682	\$ 26,604
19	System Operating and Maintenance Costs	\$ 1,654	\$ 1,713	\$ 1,775	\$ 1,838	\$ 1,904	\$ 1,973
20	Depreciation Expense	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272
21	Property Taxes	\$ 978	\$ 1,014	\$ 1,050	\$ 1,088	\$ 1,127	\$ 1,167
22	Total Revenue Requirement	\$ 27,658	\$ 28,429	\$ 29,231	\$ 30,067	\$ 30,938	\$ 31,844
23	Customer Non-Energy Revenues at proposed rates	\$ 146,461	\$ 146,461	\$ 146,461	\$ 146,461	\$ 146,461	\$ 146,461
24	Revenue Excess (Deficiency)	\$ 118,803	\$ 118,032	\$ 117,230	\$ 116,394	\$ 115,523	\$ 114,617
25	NPV of annual revenue excess (deficiency) @ Overall Return	\$ 42,580	\$ 39,506	\$ 36,643	\$ 33,977	\$ 31,493	\$ 29,180
26	Cumulative NPV	\$ 1,070,286	\$ 1,109,792	\$ 1,146,436	\$ 1,180,412	\$ 1,211,905	\$ 1,241,085

Economic Development - Commercial - with Societal Perspective**Net Present Value of Cash Flows**

Line No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.
	22	23	24	25	26	27	28
<u>REVENUE REQUIREMENTS ANALYSIS:</u>							
1	Total Cost						
2							
3							
4	Total cost:						
5	Beginning Balance						
6	Depreciation Expense (including negative salvage)	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272
7	Ending Balance - Net Plant	\$ 9,019	\$ 7,747	\$ 6,475	\$ 5,203	\$ 3,931	\$ 2,659
8	Average Net Plant	\$ 9,655	\$ 8,383	\$ 7,111	\$ 5,839	\$ 4,567	\$ 3,295
9	Tax Depreciation Rate						
10	Tax Depreciation Amount						
11	Book - Tax Depreciation Difference	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272
12	Cumulative Difference	\$ (9,019)	\$ (7,747)	\$ (6,475)	\$ (5,203)	\$ (3,931)	\$ (2,659)
13	Accumulated Deferred Income Taxes (ADIT)	\$ (2,592)	\$ (2,227)	\$ (1,861)	\$ (1,495)	\$ (1,130)	\$ (764)
14	Average ADIT	\$ (2,775)	\$ (2,409)	\$ (2,044)	\$ (1,678)	\$ (1,313)	\$ (947)
15	Rate Base	\$ 6,880	\$ 5,973	\$ 5,067	\$ 4,161	\$ 3,254	\$ 2,348
16	Return Requirement @ Pre-tax cost of capital	\$ 621	\$ 539	\$ 458	\$ 376	\$ 294	\$ 212
17	Distribution Costs:						
18	Economic Development Net Donations Societal Perspective - Net Benefit (Envrio Damage Costs - externalities)	\$ 28,549	\$ 29,574	\$ 30,635	\$ 31,735	\$ 32,874	\$ 34,055
19	System Operating and Maintenance Costs	\$ 2,117	\$ 2,193	\$ 2,272	\$ 2,353	\$ 2,438	\$ 2,525
20	Depreciation Expense	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272	\$ 1,272
21	Property Taxes	\$ 1,252	\$ 1,297	\$ 1,344	\$ 1,392	\$ 1,442	\$ 1,494
22	Total Revenue Requirement	\$ 33,811	\$ 34,875	\$ 35,981	\$ 37,128	\$ 38,320	\$ 39,558
23	Customer Non-Energy Revenues at proposed rates	\$ 146,461	\$ 146,461	\$ 146,461	\$ 146,461	\$ 146,461	\$ 146,461
24	Revenue Excess (Deficiency)	\$ 112,650	\$ 111,586	\$ 110,480	\$ 109,333	\$ 108,141	\$ 106,903
25	NPV of annual revenue excess (deficiency) @ Overall Return	\$ 25,012	\$ 23,137	\$ 21,394	\$ 19,772	\$ 18,263	\$ 16,860
26	Cumulative NPV	\$ 1,293,120	\$ 1,316,258	\$ 1,337,651	\$ 1,357,423	\$ 1,375,686	\$ 1,392,546

Economic Development - Commercial - with Societal Perspective**Net Present Value of Cash Flows**

Line No.	Extension Year No.	Extension Year No.	Extension Year No.	Extension Year No.
	29	30	31	32
<u>REVENUE REQUIREMENTS ANALYSIS:</u>				
1	Total Cost			
2				
3				
4	Total cost:			
5	Beginning Balance			
6	Depreciation Expense (including negative salvage)	\$ 1,272	\$ 1,272	\$ 1,272
7	Ending Balance - Net Plant	\$ 116	\$ (1,156)	\$ (2,428)
8	Average Net Plant	\$ 752	\$ (520)	\$ (1,792)
9	Tax Depreciation Rate			
10	Tax Depreciation Amount			\$ 3,700
11	Book - Tax Depreciation Difference	\$ 1,272	\$ 1,272	\$ (2,428)
12	Cumulative Difference	\$ (116)	\$ 1,156	\$ 2,428
13	Accumulated Deferred Income Taxes (ADIT)	\$ (33)	\$ 332	\$ 698
14	Average ADIT	\$ (216)	\$ 150	\$ 515
15	Rate Base	\$ 536	\$ (371)	\$ (1,277)
16	Return Requirement @ Pre-tax cost of capital	\$ 48	\$ (33)	\$ (115)
17	Distribution Costs:			
18	Economic Development Net Donations			
	Societal Perspective - Net Benefit (Envrio Damage Costs - externalities)	\$ 36,544	\$ 37,856	\$ 39,215
19	System Operating and Maintenance Costs	\$ 2,710	\$ 2,807	\$ 2,908
20	Depreciation Expense	\$ 1,272	\$ 1,272	\$ 1,272
21	Property Taxes	\$ 1,603	\$ 1,661	\$ 1,720
22	Total Revenue Requirement	\$ 42,177	\$ 43,562	\$ 44,999
23	Customer Non-Energy Revenues at proposed rates	\$ 146,461	\$ 146,461	\$ 146,461
24	Revenue Excess (Deficiency)	\$ 104,284	\$ 102,899	\$ 101,462
25	NPV of annual revenue excess (deficiency) @ Overall Return	\$ 14,344	\$ 13,218	\$ 12,171
26	Cumulative NPV	\$ 1,422,446	\$ 1,435,664	\$ 1,447,836

Non-Asset Based Trading Cost Study

Introduction

Northern States Power Company, doing business as Xcel Energy (Xcel Energy, NSPM, or the Company) agreed in its 2011 test year general electric rate case (Docket No. E002/GR-10-971 or 2010 Rate Case) to two items regarding non-asset based trading:

“The Company has agreed to submit an incremental and fully-allocated cost study of non-asset-based trading with its next rate case;”¹ and

“...would remove non-asset based margins and their associated embedded costs from the revenue requirement...”²

In the Company’s last rate case (Docket No. E002/GR-15-826), the Company requested that it only be required to submit a fully allocated cost study because the incremental cost study is not used to determine the level of costs to charge to this activity. That request was not opposed. Consequently, this report summarizes the cost study undertaken by the Company to determine the fully allocated cost of non-asset based trading activity.

Background

There are two main categories of short-term wholesale trading: asset based transactions and non-asset based transactions. Asset based transactions involve the sales of excess energy or capacity from Company-owned generation assets. Non-asset based transactions are undertaken as energy market opportunities to make revenues, and are unrelated to meeting the needs of the Native Load customers (retail customers and requirements wholesale customers taking service at cost-based rates).

Non-asset based trading transactions are those in which:

- Energy or capacity is purchased from a third party but is unrelated to serving native load
- That energy or capacity is resold for profit

¹ Docket No. E002/GR-10-971 ALJ Report, Findings of Fact, February 22, 2012; ALJ Findings 278 and 315.

² Docket No. E002/GR-10-971 PUC Findings of Fact, Conclusions and Order, May 14, 2012; page 9.

The costs that are being examined in this study are related exclusively to non-asset based trading.

Prior to the 2010 Rate Case, the Company shared non-asset based margins with customers. In its 2009 test year general electric rate case (Docket No. E002/GR-08-1065 or 2008 Rate Case), the Company committed to perform both an incremental and fully distributed cost study of non-asset based trading activities as part of its next general electric rate case application. Therefore, the 2010 Rate Case included the first such study.

In the settlement of the 2010 Rate Case proceedings, the Company agreed to change the ratemaking treatment of non-asset based trading margins: the fully allocated cost of non-asset based trading activity is now excluded from the Company's revenue requirements, and the non-asset based trading margins are retained by the Company. Further, as noted above the Company's proposal to provide solely a fully allocated cost study in this case was not opposed in the Company's most recent past rate case. This study therefore provides support for the fully allocated cost adjustment made for the 2020 test year and 2021-2022 plan years.

Fully Allocated Cost Analysis

The Company defines fully allocated costs as the incremental costs along with a reasonable contribution of common overhead costs. There are two components of fully allocated costs – 1) expenses and 2) a share of capital costs. All expenses recorded as non-asset based trading are considered fully distributed costs (i.e., an allocation percentage has not been applied to non-productive labor costs – for example labor loadings such as pension and insurance – as was done in the incremental cost study). In addition, Information Technology (IT) systems costs that are necessary to support these activities are included in the fully allocated costs. In total, the fully allocated O&M costs include the following components: Labor, indirect labor overheads (which includes rents), and IT system costs.

Labor

The labor itself is directly recorded as being non-asset based trading. However, the Company has also included labor overhead allocations (for example pension and insurance) to the directly assigned labor in the fully allocated section of the study.

Labor Overhead

In addition to the labor overhead costs identified in the labor section above, a labor overhead rate of 14.69 percent was also applied to non-asset based trading labor. This is the same rate applied to total labor and labor loadings for charges to the non-regulated businesses within NSPM and for third party billings.

Attachment A shows the fully allocated labor and overhead costs associated with non-asset based trading for 2016-2018 actuals and 2020-2022 MYRP forecast.

IT Systems

In addition to the labor and labor overhead expenses, the Company identified IT systems used to facilitate non-asset based trading. The table below summarizes the computer systems identified which support non-asset based trading activities:

<u>System</u>	<u>Description</u>
ACES	No test year expenses
Business Objects (BO)	Query tool
Commodity XL	Manage commodity trading logistics and risk management
CXT	Customer Experience Transformation
Documentum	Storage of contract documentation – no test year expenses
JDE	General ledger system used to account for trade activity for financial reporting – no test year expenses
PCI MISO	Bid-to-bill transaction management tool used for MISO activity – no test year expenses
SAP GL	New general ledger system used by Company
WAM	Work and Asset Management system connects field employees with data in SAP

IT System O&M Expense – An analysis was conducted to determine the amount of IT System O&M expense that is related to non-asset based trading. First, for each IT system listed above, the amount of O&M expense assigned to NSPM was identified. Then the portion of the NSPM IT system O&M expense allocated to non-asset based trading was calculated based upon the Non-Asset Revenue Percent (a ratio of NSPM non-asset based trading revenue to NSPM Electric Utility revenue). Please see the top half of Attachment B for the IT system O&M expense assigned to non-asset based trading 2018 actual and the 2020-2022 MYRP forecast.

IT System Capital Revenue Requirements – An analysis was also conducted to determine the IT system capital revenue requirements associated with non-asset based trading. First, the rate base associated with the above listed IT systems was determined and the total 2020-2022 budget rate base and depreciation expense (capital costs) for the above listed IT systems was calculated. Second, the Non-Asset Revenue Percent was applied to the capital costs to calculate the IT system capital costs attributable to non-asset based trading. (See the bottom half of Attachment B.) Third, the resulting rate base and depreciation expense was used to calculate the 2020 test year and 2021-2022 plan years revenue requirements related to non-asset based trading. Attachment C shows the 2020-2022 IT systems capital revenue requirement calculation.

Conclusion

As shown in Attachment D, using the above described assumptions and methodology, each of the 2020 test year and 2021-2022 plan years includes approximately \$1.8 million in annual fully allocated costs attributed to non-asset based trading activity associated with the State of Minnesota electric retail jurisdiction.

Northern States Power Company
 Summary of Non-Asset Based Trading Costs

Attachment A

Fully Allocated Costs								
	Three Year				2019 YE	2020 Test	2021 Plan	2022 Plan
	2016	2017	2018	Avg (2016-2018)	Forecast	Year	Year	Year
O&M Expenses								
Trading	\$ 1,416,654	\$ 1,340,704	\$ 772,826	\$ 1,176,728	\$ 906,186	\$ 937,836	\$ 961,770	\$ 986,374
Trading - SIP	\$ 251,076	\$ 714,408	\$ 854,215	\$ 606,566	\$ 899,492	\$ 732,818	\$ 869,701	\$ 843,537
Risk	\$ 292,809	\$ 798,634	\$ 271,989	\$ 454,478	\$ 442,310	\$ 377,079	\$ 398,052	\$ 410,309
Accounting	\$ 36,483	\$ 226,820	\$ 68,290	\$ 110,531	\$ 74,634	\$ 10,601	\$ 10,919	\$ 11,247
Indirect Labor Overhead	\$ 625,354	\$ 940,845	\$ 527,519	\$ 697,906	\$ 484,141	\$ 547,167	\$ 556,910	\$ 559,406
	<u>\$ 2,622,376</u>	<u>\$ 4,021,411</u>	<u>\$ 2,494,839</u>	<u>\$ 3,046,209</u>	<u>\$ 2,806,762</u>	<u>\$ 2,605,501</u>	<u>\$ 2,797,353</u>	<u>\$ 2,810,873</u>
Less Trading - SIP	\$ (251,076)	\$ (714,408)	\$ (854,215)	\$ (606,566)	\$ (899,492)	\$ (732,818)	\$ (869,701)	\$ (843,537)
Total Fully Allocated O&M Expenses	<u>\$ 2,371,300</u>	<u>\$ 3,307,003</u>	<u>\$ 1,640,624</u>	<u>\$ 2,439,643</u>	<u>\$ 1,907,270</u>	<u>\$ 1,872,684</u>	<u>\$ 1,927,652</u>	<u>\$ 1,967,336</u>

System Costs Related to Non-Asset Trading

Attachment B

	2018 Actual	2019	2020	2021	2022
Total Operating Revenues	4,641,645,997	4,548,117,187	4,499,847,478	4,530,039,652	4,546,378,992
NSPM Non-Asset Based Trading Revenue	37,194,992	29,999,988	35,999,986	35,999,986	35,999,986
Non-Asset Trading as Percent of Total	0.80%	0.66%	0.80%	0.79%	0.79%

Actual and Fcst Depr Expense Year

Row Labels	2018 Actual	Sum of Est 2019	Sum of Est 2020	Sum of Est 2021	Sum of Est 2022
ACES	0	0	0	0	0
BO	188,673	134,936	0	0	0
CXT	1,170,497	1,063,875	1,063,875	971,862	615,027
Documentum	137,051	44,594	0	0	0
JDE	0	0	0	0	0
PCI MISO	69,416	0	0	0	0
SAP GL	2,011,384	2,016,874	2,016,874	2,016,874	2,016,874
WAM	7,787,935	7,877,830	7,877,830	7,877,830	7,877,830
SAP	234,505	500,062	500,062	460,900	305,072
COMMODITY XL	0	76,979	76,979	76,979	76,979
Grand Total	11,599,461	11,715,150	11,535,620	11,404,445	10,891,783
IT Dep'n related to Non-Asset trading		92,950	84,278	97,947	96,949

Depr Reserves and Net Book Values by Year

Row Labels	Sum of 2019 Depr Reserve	Sum of 2020 Depr Reserve	Sum of 2021 Depr Reserve	Sum of 2022 Depr Reserve
ACES	507,695.91	507,695.91	507,695.91	507,695.91
BO	882,570.60	882,570.60	882,570.60	882,570.60
CXT	6,981,595.62	8,045,470.86	9,017,333.06	9,632,360.33
Documentum	2,520,332.21	2,520,332.21	2,520,332.21	2,520,332.21
JDE	0.00	0.00	0.00	0.00
PCI MISO	1,616,480.08	1,616,480.08	1,616,480.08	1,616,480.08
SAP GL	8,187,221.96	10,204,095.68	12,220,969.40	14,237,843.12
WAM	21,155,844.74	29,033,674.69	36,911,504.64	44,789,334.59
SAP	883,777.31	1,383,838.91	1,844,738.52	2,149,810.86
COMMODITY XL	76,979.41	153,958.82	230,938.23	307,917.64
Grand Total	42,812,497.85	54,348,117.77	65,752,562.66	76,644,345.35
Undepreciated Balances related to Non-Asset trading	340,229	431,902	522,532	609,089

Northern States Power Company, a Minnesota corporation
 Non-Asset Based Trading Study Revenue Requirement

Attachment C

	Total NSPM			
Rate Analysis	2019	2020	2021	2022
Rate Base				
EOY Net Plant	1,004,411	750,686	819,248	727,232
Depreciation	92,950	84,278	97,947	96,949
BOY Net Plant	1,097,361	834,964	917,195	824,180
Average Rate Base	1,050,886	792,825	868,222	775,706
Revenue Requirements				
Debt Return	21,900	16,500	18,100	16,100
Equity Return	56,300	42,500	46,500	41,600
Current Income Tax Requirement	22,700	17,100	18,800	16,800
Book Depreciation	92,950	84,278	97,947	96,949
Annual Deferred Tax	-	-	-	-
ITC Flow Thru	-	-	-	-
Tax Depreciation & Removal Expense	92,950	84,278	97,947	96,949
AFUDC Expenditure	-	-	-	-
Book Depreciation Cleared to Operating	-	-	-	-
Avoided Tax Interest	-	-	-	-
Property Tax	-	-	-	-
Total NSPM Revenue Requirements	193,850	160,378	181,347	171,449
MN Jurisdictional Demand Allocator	86.9990%	86.9990%	86.9990%	86.9990%
Minnesota Jurisdiction Revenue Requi	168,648	139,527	157,770	149,159

Cap structure Proposed in Current rate case

Capital Structure	Rate	Ratio	Weighted Cost
Long Term Debt	4.4000%	47.1200%	2.0700%
Short Term Debt	3.8100%	0.3800%	0.0100%
Preferred Stock	0.0000%	0.0000%	0.0000%
Common Equity	10.2000%	52.5000%	5.3600%
Required Rate of Return			7.4400%
Tax Rate (MN)	28.7420%		

Northern States Power Company

Attachment D

Non-Asset Trading Fully Allocated O&M Costs

		Total NSPM Electric			
		2019F	2020TY	2021PY	2022PY
O&M from cost study					
Allocation Method	EEnergy				
Fully Allocated O&M Expenses		1,640,624	1,907,270	1,872,684	1,927,652
Associated IT costs					
Allocation Method	EDemand				
IT O&M costs		92,950	84,278	97,947	96,949
Revenue requirement on IT in rate base		100,900	76,100	83,400	74,500
Total associated IT costs		193,850	160,378	181,347	171,449
Total NSPM Costs		1,834,475	2,067,648	2,054,030	2,099,100

		Minnesota Electric Jurisdiction			
		2019F	2020TY	2021PY	2022PY
O&M from cost study					
Allocation Method	EEnergy				
Fully Allocated O&M Expenses		1,422,356	1,653,527	1,623,542	1,671,197
Associated IT costs					
Allocation Method	EDemand				
IT O&M costs		80,964	73,321	85,213	84,344
Revenue requirement on IT in rate base		87,888	66,206	72,557	64,814
Total associated IT costs		168,852	139,527	157,770	149,159
MN Electric Jurisdiction Adjustment		1,591,207	1,793,054	1,781,312	1,820,356

Production Tax Credits (PTCs)

2020-2022 MYRP
 (\$000s)

<u>MWH</u>	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Annual - 2020
Grand Meadow													-
Nobles	71,491	60,620	66,611	70,415	61,261	49,080	36,826	29,613	48,666	67,405	69,610		631,598
Pleasant Valley	86,029	62,819	71,262	71,977	71,244	56,994	46,436	35,782	67,173	71,077	83,871	77,969	802,633
Boarder Winds	62,373	60,158	49,753	53,595	56,605	47,716	44,675	38,448	59,301	61,964	64,711	67,280	666,579
Courtenay	77,766	76,124	61,365	61,754	69,570	71,796	38,698	50,636	61,480	76,046	73,445	78,481	797,161
Blazing Star I	7,310	79,030	80,860	90,969	83,608	77,832	57,253	57,240	76,000	87,325	86,580	85,713	869,720
Foxtail	64,399	57,004	58,887	58,093	63,121	62,957	41,988	43,789	57,826	65,543	64,862	64,867	703,336
Lake Benton	43,820	38,124	42,090	44,020	39,138	36,540	32,204	26,914	35,788	41,628	41,092	40,502	461,860
Total	413,188	433,879	430,828	450,823	444,547	402,915	298,080	282,422	406,234	470,988	484,171	414,812	4,932,887
PTC Rate/Mwh	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
<u>PTCs</u>													
Grand Meadow	-	-	-	-	-	-	-	-	-	-	-	-	-
Nobles	1,787	1,516	1,665	1,760	1,532	1,227	921	740	1,217	1,685	1,740	-	15,790
Pleasant Valley	2,151	1,571	1,782	1,799	1,781	1,425	1,161	895	1,679	1,777	2,097	1,949	20,066
Boarder Winds	1,559	1,504	1,244	1,340	1,415	1,193	1,117	961	1,483	1,549	1,618	1,682	16,665
Courtenay	1,944	1,903	1,534	1,544	1,739	1,795	968	1,266	1,537	1,901	1,836	1,962	19,929
Blazing Star I	183	1,976	2,022	2,274	2,090	1,946	1,431	1,431	1,900	2,183	2,165	2,143	21,743
Foxtail	1,610	1,425	1,472	1,452	1,578	1,574	1,050	1,095	1,446	1,639	1,622	1,622	17,584
Lake Benton	1,096	953	1,052	1,101	979	914	805	673	895	1,041	1,027	1,013	11,547
Total	\$ 10,330	\$ 10,847	\$ 10,771	\$ 11,271	\$ 11,114	\$ 10,073	\$ 7,452	\$ 7,061	\$ 10,156	\$ 11,775	\$ 12,104	\$ 10,370	\$ 123,323

State of MN Energy Allocator 86.6960%

State of MN PTCs **\$ 106,916**

Revenue Requirement Conversion Factor 1.40335

State of MN Revenue Requirements **\$ (150,041)**

Interchange Agreement Energy Allocation 17.0442%

Interchange Agreement Revenue Offset \$ (25,573)

State of MN Revenue Requirements (Net of IA) **\$ (124,467)**

Production Tax Credits (PTCs)

2020-2022 MYRP
 (\$000s)

MWH	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Annual - 2021
Grand Meadow													-
Nobles													-
Pleasant Valley	86,029	62,025	71,262	71,977	71,244	56,994	46,436	35,782	67,173	71,077	83,871	77,969	801,839
Boarder Winds	62,373	58,628	49,753	53,595	56,132	47,716	44,675	38,448	59,301	61,964	64,711	67,280	664,576
Courtenay	77,766	74,816	61,365	61,754	69,116	71,796	38,698	50,636	61,480	76,046	73,445	78,481	795,399
Blazing Star I	83,629	77,599	80,860	90,969	83,608	77,832	57,253	57,240	76,000	87,325	86,580	85,713	944,608
Foxtail	64,349	56,286	58,887	58,093	61,205	62,183	41,988	43,789	57,192	65,110	62,600	64,230	695,912
Lake Benton	43,820	36,215	42,090	44,020	39,138	36,540	32,204	26,914	35,788	41,628	41,092	40,502	459,951
Total	417,966	365,569	364,217	380,408	380,443	353,061	261,254	252,809	356,934	403,150	412,299	414,175	4,362,285
PTC Rate/Mwh	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
PTCs													
Grand Meadow	-	-	-	-	-	-	-	-	-	-	-	-	-
Nobles	-	-	-	-	-	-	-	-	-	-	-	-	-
Pleasant Valley	2,151	1,551	1,782	1,799	1,781	1,425	1,161	895	1,679	1,777	2,097	1,949	20,046
Boarder Winds	1,559	1,466	1,244	1,340	1,403	1,193	1,117	961	1,483	1,549	1,618	1,682	16,614
Courtenay	1,944	1,870	1,534	1,544	1,728	1,795	968	1,266	1,537	1,901	1,836	1,962	19,885
Blazing Star I	2,091	1,940	2,022	2,274	2,090	1,946	1,431	1,431	1,900	2,183	2,165	2,143	23,615
Foxtail	1,609	1,407	1,472	1,452	1,530	1,555	1,050	1,095	1,430	1,628	1,565	1,606	17,398
Lake Benton	1,096	905	1,052	1,101	979	914	805	673	895	1,041	1,027	1,013	11,499
Total	\$ 10,449	\$ 9,139	\$ 9,106	\$ 9,510	\$ 9,511	\$ 8,827	\$ 6,531	\$ 6,320	\$ 8,923	\$ 10,079	\$ 10,308	\$ 10,354	\$ 109,058

State of MN Energy Allocator 86.6960%

State of MN PTCs **\$ 94,548**

Revenue Requirement Conversion Factor 1.40335

State of MN Revenue Requirements **\$ (132,685)**

Interchange Agreement Energy Allocation 17.0442%

Interchange Agreement Revenue Offset \$ (22,615)

State of MN Revenue Requirements (Net of IA) **\$ (110,070)**

Production Tax Credits (PTCs)

2020-2022 MYRP
 (\$000s)

<u>MWH</u>	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Annual - 2021
Grand Meadow													-
Nobles													-
Pleasant Valley	86029	62025	71262	71977	71244	56994	46436	35782	67173	71077	83871	77969	801,839
Boarder Winds	62373	58628	49753	53595	56144	47716	44675	38448	59301	61964	64711	67280	664,588
Courtenay	77766	74816	61365	61754	69229	71796	38698	50636	61480	76046	73445	78481	795,512
Blazing Star I	83629	77599	80860	90969	83608	77832	57253	57240	76000	87325	86580	85713	944,608
Foxtail	63783	55862	58371	55020	60911	61360	41988	43789	57335	65543	60762	64866	689,590
Lake Benton	43820	36215	42090	44020	39138	36540	32204	26914	35788	41628	41092	40502	459,951
Total	417,400	365,145	363,701	377,335	380,274	352,238	261,254	252,809	357,077	403,583	410,461	414,811	4,356,088
PTC Rate/Mwh	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00	\$ 25.00
<u>PTCs</u>													
Grand Meadow	-	-	-	-	-	-	-	-	-	-	-	-	-
Nobles	-	-	-	-	-	-	-	-	-	-	-	-	-
Pleasant Valley	2,151	1,551	1,782	1,799	1,781	1,425	1,161	895	1,679	1,777	2,097	1,949	20,046
Boarder Winds	1,559	1,466	1,244	1,340	1,404	1,193	1,117	961	1,483	1,549	1,618	1,682	16,615
Courtenay	1,944	1,870	1,534	1,544	1,731	1,795	968	1,266	1,537	1,901	1,836	1,962	19,888
Blazing Star I	2,091	1,940	2,022	2,274	2,090	1,946	1,431	1,431	1,900	2,183	2,165	2,143	23,615
Foxtail	1,595	1,397	1,459	1,376	1,523	1,534	1,050	1,095	1,433	1,639	1,519	1,622	17,240
Lake Benton	1,096	905	1,052	1,101	979	914	805	673	895	1,041	1,027	1,013	11,499
Total	\$ 10,435	\$ 9,129	\$ 9,093	\$ 9,433	\$ 9,507	\$ 8,806	\$ 6,531	\$ 6,320	\$ 8,927	\$ 10,090	\$ 10,262	\$ 10,370	\$ 108,903

State of MN Energy Allocator 86.6960%

State of MN PTCs **\$ 94,414**

Revenue Requirement Conversion Factor 1.40335

State of MN Revenue Requirements **\$ (132,496)**

Interchange Agreement Energy Allocation 17.0442%

Interchange Agreement Revenue Offset \$ (22,583)

State of MN Revenue Requirements (Net of IA) **\$ (109,913)**

Annual Deferred Tax Expense		Pro-Rate Adjustment Factor				2020			
		Days to Prorate	Prorate Factor	MN Jurisdiction Prorated Plant Deferred	MN Jurisdiction Prorated Plant Deferred	MN Jurisdiction NOL	MN Jurisdiction Prorated NOL	Monthly Expense	Prorated Monthly Expense
		19,761,733				0			
		19,761,733				19,761,733			
January	335	91.78%	1,646,811	1,511,457	-	-	1,646,811	1,511,457	
February	307	84.11%	1,646,811	1,385,126	-	-	1,646,811	1,385,126	
March	276	75.62%	1,646,811	1,245,260	-	-	1,646,811	1,245,260	
April	246	67.40%	1,646,811	1,109,906	-	-	1,646,811	1,109,906	
May	215	58.90%	1,646,811	970,039	-	-	1,646,811	970,039	
June	185	50.68%	1,646,811	834,685	-	-	1,646,811	834,685	
July	154	42.19%	1,646,811	694,819	-	-	1,646,811	694,819	
August	123	33.70%	1,646,811	554,953	-	-	1,646,811	554,953	
September	93	25.48%	1,646,811	419,598	-	-	1,646,811	419,598	
October	62	16.99%	1,646,811	279,732	-	-	1,646,811	279,732	
November	32	8.77%	1,646,811	144,378	-	-	1,646,811	144,378	
December	1	0.27%	1,646,811	4,512	-	-	1,646,811	4,512	
							Total	9,154,465	

(Increase)/
decrease to
accumulated
deferred taxes

Increase/(Decrease) in Rate Base

Pro-Rate Method	(9,154,465)
BOY/EOY Average	(9,880,867)
Accumulated Deferred Taxes Adjustment	726,402
ADIT Prorate for IRS Adjustment - Sch 10a	5,303,634
Adjustment	(4,577,232)

Capital Structure - Last Authorized

Composite Tax Rate	28.74%
Weighted Cost of STD	0.07%
Weighted Cost of LTD	2.18%
Weighted Cost of Debt	2.25%
<u>Weighted Cost of Equity</u>	<u>4.83%</u>
Required Rate of Return	7.08%
Equity Return Tax RR	1.95%
RB Revenue Requirement Factor	9.0282%
Increase/(Decrease) in Revenue Requirement	
Annual Revenue Requirement Impact	65,581
ADIT Prorate for IRS Adjustment - Sch 11a	478,822
Adjustment	(413,241)

Capital Structure - Proposed

Composite Tax Rate	28.74%
Weighted Cost of STD	0.03%
Weighted Cost of LTD	2.06%
Weighted Cost of Debt	2.09%
<u>Weighted Cost of Equity</u>	<u>5.36%</u>
Required Rate of Return	7.45%
Equity Return Tax RR	2.16%
RB Revenue Requirement Factor	9.6120%
Increase/(Decrease) in Revenue Requirement	
Annual Revenue Requirement Impact	69,821
ADIT Prorate for IRS Adjustment - Sch 12	509,783
Adjustment	(439,962)

Annual Deferred Tax Expense		Pro-Rate Adjustment Factor		0		-1,404,329			
		Days to Prorate	Prorate Factor	MN Jurisdiction Prorated Plant Deferred	MN Jurisdiction Prorated Plant Deferred	MN Jurisdiction NOL	MN Jurisdiction Prorated NOL	Monthly Expense	Prorated Monthly Expense
		(1,404,329)						2021	
January	335	91.78%	(117,027)	(107,409)	-	-	(117,027)	(107,409)	
February	307	84.11%	(117,027)	(98,431)	-	-	(117,027)	(98,431)	
March	276	75.62%	(117,027)	(88,492)	-	-	(117,027)	(88,492)	
April	246	67.40%	(117,027)	(78,873)	-	-	(117,027)	(78,873)	
May	215	58.90%	(117,027)	(68,934)	-	-	(117,027)	(68,934)	
June	185	50.68%	(117,027)	(59,315)	-	-	(117,027)	(59,315)	
July	154	42.19%	(117,027)	(49,376)	-	-	(117,027)	(49,376)	
August	123	33.70%	(117,027)	(39,437)	-	-	(117,027)	(39,437)	
September	93	25.48%	(117,027)	(29,818)	-	-	(117,027)	(29,818)	
October	62	16.99%	(117,027)	(19,879)	-	-	(117,027)	(19,879)	
November	32	8.77%	(117,027)	(10,260)	-	-	(117,027)	(10,260)	
December	1	0.27%	(117,027)	(321)	-	-	(117,027)	(321)	
							Total	(650,544)	

(Increase)/
decrease to
accumulated
deferred taxes

Increase/(Decrease) in Rate Base

Pro-Rate Method	650,544
BOY/EOY Average	702,164
Accumulated Deferred Taxes Adjustment	(51,620)
ADIT Prorate for IRS Adjustment - Sch 10b Adjustment	(376,892)
	<u>325,272</u>

Capital Structure - Last Authorized

Composite Tax Rate	28.74%
Weighted Cost of STD	0.07%
Weighted Cost of LTD	2.18%
Weighted Cost of Debt	2.25%
<u>Weighted Cost of Equity</u>	<u>4.83%</u>
Required Rate of Return	7.08%
Equity Return Tax RR	1.95%
RB Revenue Requirement Factor	9.0282%

Increase/(Decrease) in Revenue Requirement

Annual Revenue Requirement Impact	(4,660)
ADIT Prorate for IRS Adjustment - Sch 11b Adjustment	(34,027)
	<u>29,366</u>

Capital Structure - Proposed

Composite Tax Rate	28.74%
Weighted Cost of STD	0.03%
Weighted Cost of LTD	2.06%
Weighted Cost of Debt	2.09%
<u>Weighted Cost of Equity</u>	<u>5.36%</u>
Required Rate of Return	7.45%
Equity Return Tax RR	2.16%
RB Revenue Requirement Factor	9.6120%

Increase/(Decrease) in Revenue Requirement

Annual Revenue Requirement Impact	(4,962)
ADIT Prorate for IRS Adjustment - Sch 12 Adjustment	(36,227)
	<u>31,265</u>

Annual Deferred Tax Expense		Pro-Rate Adjustment Factor				0		-32,518,219	
		Days to Prorate	Prorate Factor	MN Jurisdiction Prorated Plant Deferred	MN Jurisdiction Prorated Plant Deferred	MN Jurisdiction NOL	MN Jurisdiction Prorated NOL	Monthly Expense	Prorated Monthly Expense
		(32,518,219)							
January	335	91.78%	(2,709,852)	(2,487,124)	-	-	(2,709,852)	(2,487,124)	
February	307	84.11%	(2,709,852)	(2,279,245)	-	-	(2,709,852)	(2,279,245)	
March	276	75.62%	(2,709,852)	(2,049,093)	-	-	(2,709,852)	(2,049,093)	
April	246	67.40%	(2,709,852)	(1,826,366)	-	-	(2,709,852)	(1,826,366)	
May	215	58.90%	(2,709,852)	(1,596,214)	-	-	(2,709,852)	(1,596,214)	
June	185	50.68%	(2,709,852)	(1,373,486)	-	-	(2,709,852)	(1,373,486)	
July	154	42.19%	(2,709,852)	(1,143,335)	-	-	(2,709,852)	(1,143,335)	
August	123	33.70%	(2,709,852)	(913,183)	-	-	(2,709,852)	(913,183)	
September	93	25.48%	(2,709,852)	(690,455)	-	-	(2,709,852)	(690,455)	
October	62	16.99%	(2,709,852)	(460,304)	-	-	(2,709,852)	(460,304)	
November	32	8.77%	(2,709,852)	(237,576)	-	-	(2,709,852)	(237,576)	
December	1	0.27%	(2,709,852)	(7,424)	-	-	(2,709,852)	(7,424)	
							Total	(15,063,805)	

(Increase)/
decrease to
accumulated
deferred taxes

Increase/(Decrease) in Rate Base

Pro-Rate Method	15,063,805
BOY/EOY Average	16,259,109
Accumulated Deferred Taxes Adjustment	(1,195,304)
ADIT Prorate for IRS Adjustment - Sch 10c Adjustment	(8,727,207)
	7,531,902

Capital Structure - Last Authorized

Composite Tax Rate	28.74%
Weighted Cost of STD	0.07%
Weighted Cost of LTD	2.18%
Weighted Cost of Debt	2.25%
<u>Weighted Cost of Equity</u>	<u>4.83%</u>
Required Rate of Return	7.08%
Equity Return Tax RR	1.95%
RB Revenue Requirement Factor	9.0282%

Increase/(Decrease) in Revenue Requirement

Annual Revenue Requirement Impact	(107,914)
ADIT Prorate for IRS Adjustment - Sch 11c Adjustment	(787,908)
	679,994

Capital Structure - Proposed

Composite Tax Rate	28.74%
Weighted Cost of STD	0.03%
Weighted Cost of LTD	2.06%
Weighted Cost of Debt	2.09%
<u>Weighted Cost of Equity</u>	<u>5.36%</u>
Required Rate of Return	7.45%
Equity Return Tax RR	2.16%
RB Revenue Requirement Factor	9.6120%

Increase/(Decrease) in Revenue Requirement

Annual Revenue Requirement Impact	(114,892)
ADIT Prorate for IRS Adjustment - Sch 12 Adjustment	(840,601)
	725,709

Pro-Rate Adjustment Factor

Days	Month	Prorated Days	Prorate Factor
31	Jan	335	0.917808
28	Feb	307	0.841096
31	Mar	276	0.756164
30	Apr	246	0.673973
31	May	215	0.589041
30	Jun	185	0.506849
31	Jul	154	0.421918
31	Aug	123	0.336986
30	Sep	93	0.254795
31	Oct	62	0.169863
30	Nov	32	0.087671
31	Dec	1	0.002740
365			

Double Average Prorate Factor	0.231621
BOY/EOY Average Factor	<u>0.500000</u>
Prorate Adjustment Factor	<u><u>0.268379</u></u>

Removing Double Average from Prorate Factor

Average Prorate Factor	0.463242
BOY/EOY Average Factor	<u>0.500000</u>
Prorate Adjustment Factor	<u><u>0.036758</u></u>

Net Operating Loss (NOL)
 Test Year Ending December 31, 2020
 (\$000s)

Impact of Unused/(Utilized) Tax Deductions on Rate Base	2018 Annual Report EOY Balances	2019 Bridge Annual Utilization Amounts	2019 Bridge EOY Balances	2020 Test Year Annual Utilization Amounts	2020 Test Year EOY Balances	2021 Plan Year Annual Utilization Amounts	2021 Plan Year EOY Balances	2022 Plan Year Annual Utilization Amounts	2022 Plan Year EOY Balances
1. Unused/(Utilized) Deductions	0	0	0	0	0	0	0	0	0
2. Deferred Tax Effect of Unused/(Utilized) Deductions	0	0	0	0	0	0	0	0	0
3. Unused/(Utilized) Credits State	0	0	0	0	0	0	0	0	0
4. Unused/(Utilized) Credits Federal	300,550	9,326	309,876	93,712	403,587	172,039	575,626	157,543	733,168
5. Accumulated Deferred Income Taxes (ADIT)	300,550	9,326	309,876	93,712	403,587	172,039	575,626	157,543	733,169

Impact of Unused/(Utilized) Tax Deductions on Revenue Requirements	2019 Bridge Year Utilization Adjustment	2020 Test Year Utilization Adjustment	2021 Plan Year Utilization Adjustment	2022 Plan Year Utilization Adjustment	Comment
6. Deferred Tax Asset BOY	0	0	0	0	Zero since adjustment reflects current year utilization
7. Deferred Tax Asset EOY	9,326	93,712	172,039	157,543	From Utilization columns on Line 4
8. Average Rate Base	4,663	46,856	86,019	78,771	(BOY + EOY)/2
9. Return Requirement	348	3,491	6,408	5,884	Rate Base * Req Rate of Return
10. RR Tax on Equity Return	101	1,013	1,860	1,703	(T/(1-T))*RB*Equity Return
11. Rate Base Revenue Requirement	450	4,504	8,268	7,587	Line 9 + Line 10
12. Deferred Tax	(9,326)	(93,712)	(172,039)	(157,543)	From Utilization columns on Line 5
13. Current Tax Rev Req ¹	9,326	93,712	172,039	157,543	From Line 19
14. Total Annual Utilization Revenue Requirements	450	4,504	8,268	7,587	Line 10+11+12
<i>¹ Current Income Tax Rev Req Calculation</i>					
15. Utilized Deductions	-	-	-	-	Unused Annual Deductions
16. Deferred Taxes	(9,326)	(93,712)	(172,039)	(157,543)	Line 12
17. Unused State Tax Credits	-	-	-	-	From Utilization columns on Line 3
18. Unused Federal Tax Credits	9,326	93,712	172,039	157,543	From Utilization columns on Line 4
19. Current Income Tax Revenue Requirement	9,326	93,712	172,039	157,543	(T/(1-T))*(Line 15+.79xLine16+Line17)+.79xLine 16+Line 17
Validation Section					
	2019	2020	2021	2022	
Total Annual Utilization Revenue Requirements	450	4,504	8,268	7,587	
RR on beg balance	28,985	29,785	38,793	55,444	
<i>Sec 199 Manufacture Production Deduction - Fed</i>	-	-	-	-	
Section 199 Revenue Requirement	-	-	-	-	
Total NOL & Sec 199 for validation	29,435	34,289	47,061	63,031	
RIS COSS	29,435	34,289	47,061	63,031	
Difference	0	0	0	0	
Total Average Rate Base	4,663	56,181	189,057	353,847	

Weighted Cost of Capital	2019	2020	2021	2022
	Proposed	Proposed	Proposed	Proposed
Active Rates and Ratios Version				
Cost of Short Term Debt	2.71%	2.97%	2.99%	3.04%
Cost of Long Term Debt	4.48%	4.42%	4.44%	4.48%
Cost of Common Equity	10.20%	10.20%	10.20%	10.20%
Ratio of Short Term Debt	1.65%	0.87%	1.22%	1.08%
Ratio of Long Term Debt	45.46%	46.63%	46.28%	46.42%
Ratio of Common Equity	52.89%	52.50%	52.50%	52.50%
Weighted Cost of STD	0.04%	0.03%	0.04%	0.03%
Weighted Cost of LTD	2.04%	2.06%	2.05%	2.08%
Weighted Cost of Debt	2.08%	2.09%	2.09%	2.11%
Weighted Cost of Equity	5.39%	5.36%	5.36%	5.36%
Required Rate of Return	7.47%	7.45%	7.45%	7.47%
Corp Composite Tax Rate	28.11%	28.11%	28.11%	28.11%
MN Composite Tax Rate	28.74%	28.74%	28.74%	28.74%

MYRP Forecast Fuel Reconciliation

Category	2020 Test Year	2021 Plan Year	2022 Plan Year	Comments
Fuel and Purchased Power	\$ 1,062,005	\$ 1,062,360	\$ 1,061,665	BCH-1, Sch. 11a-11c, column 6, row 10
Costs Not Recoverable in Fuel Clause:				
Less Fuel Handling O&M Expenses	\$ (18,083)	\$ (18,438)	\$ (17,742)	
Less Non-Asset Based Trading Expenses	\$ (6,918)	\$ (6,918)	\$ (6,918)	
Less Off-System Sales Net of Interchange	\$ (103,457)	\$ (103,457)	\$ (103,457)	
Less Windsource Fuel Costs	\$ (7,605)	\$ (7,605)	\$ (7,605)	
Less Renewable*Connect Costs	\$ (6,395)	\$ (6,395)	\$ (6,395)	
Subtotal	<u>\$ (142,459)</u>	<u>\$ (142,814)</u>	<u>\$ (142,118)</u>	
Interchange Agreement Impacts				
Less Minnesota Fuel Costs Offset by Interchange Revenue	\$ (123,492)	\$ (123,492)	\$ (123,492)	
Total Minnesota Fuel Costs included in Cost of Service	<u>\$ 796,055</u>	<u>\$ 796,055</u>	<u>\$ 796,055</u>	
Minnesota Fuel Costs recovered through FCA	\$ 796,055	\$ 796,055	\$ 796,055	FCA revenues included in retail revenue
Difference in Fuel Costs and Fuel Revenue	\$ -	\$ -	\$ -	

Rider Roll-In Timeline****

TCR Rate Rider

CapX2020 Brookings* Base Rates
 CapX2020 Fargo* Base Rates
 CapX2020 La Crosse* Base Rates
 Big Stone - Brookings* Base Rates
 La Crosse - Madison* Base Rates
 MISO RECB Sch 26 and 26A net revenues** TCR Rider Projects
 ADMS** TCR Rider Projects
 Huntley Wilmarth** TCR Rider Projects

	2020 Test Year	2021 Rate Plan Year	2022 Rate Plan Year
	X	X	X
	X	X	X
	X	X	X
	X	X	X
	X	X	X
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
Interim rates - No TCR Projects in 2020/2021			

RES Rate Rider

Courtenay Wind Farm* Base Rates
 Foxtail Wind Farm* Base Rates
 Blazing Star I Wind Farm* Base Rates
 Lake Benton Wind Farm* Base Rates
 Blazing Star II Wind Farm** RES Rate Rider
 Freeborn Wind Farm** RES Rate Rider
 Crowned Ridge Wind Farm** RES Rate Rider
 Dakota Range Wind Farm** RES Rate Rider

	2020 Test Year	2021 Rate Plan Year	2022 Rate Plan Year
	X	X	X
	X	X	X
	X	X	X
	X	X	X
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
Interim rates - No RES Projects in 2020/2021			

* Included in 2020 to 2022 Plan Years with 2020 and 2021 Interim rate adjustments to exclude from Interim rates; to be recovered in base rates and removed from the TCR Rider at conclusion of the case.

** Removed from 2020 to 2022 Plan Year revenue requirement calculations (revenues and expenses), projects continue recovery in the RES and TCR Riders. after the conclusion of the rate case.

**** The Rider Roll-In Timeline is based on the Compliance Activities identified in the Direct Testimony of Mr. Halama

Procedural Key Milestones from Nov 2019 to June 2021 (tentative subject to change based on procedural schedule)

- November 1, 2019: 2020 Rate Case filed
- Week of October 28, 2019: 2019-2020 RES/TCR Rider Supplements filed
- January 1, 2020: 2020 Interim Rates and 2020 RES/TCR rate effective
- January 1, 2021: 2021 Interim Rates
- March 1st, 2021: MPUC Multi-Year Rate Plan Order
- April 1, 2021: Final Rates Compliance Filing