

April 30, 2025

**PUBLIC DOCUMENT**

Will Seuffert  
Minnesota Public Utilities Commission  
121 7th Place East, Suite 350  
St. Paul, Minnesota 55101-2147

RE: **PUBLIC** Comments of the Minnesota Department of Commerce  
Docket No. E999/CI-19-704

Dear Mr. Seuffert:

Attached are the **PUBLIC** comments of the Minnesota Department of Commerce (Department) in the following matter:

*In the Matter of an Investigation into Self-Commitment and Self-Scheduling  
of Large Baseload Generation Facilities.*

The Petitions were filed by Minnesota Power, Xcel Energy, and Otter Tail Power Company by March 3, 2025.

The Department recommends **accepting the utilities' reports** and is available to answer any questions the Minnesota Public Utilities Commission may have.

Sincerely,

/s/ Sydnie Lieb, Ph.D.  
Assistant Commissioner, Department of Regulatory Affairs

SR/ad  
Attachment



## Before the Minnesota Public Utilities Commission

### PUBLIC Comments of the Minnesota Department of Commerce

Docket No. E999/CI-19-704

#### I. INTRODUCTION

The Minnesota Public Utilities Commission (Commission) has issued orders directing Minnesota Power (MP), Otter Tail Power Company (OTP), and Northern States Power Company d/b/a Xcel Energy (Xcel) to make annual compliance filings containing an analysis of the impacts of self-committing and self-scheduling their generators in the Midcontinent Independent System Operator, Inc.'s (MISO) energy market, including the annual difference between production costs and corresponding prevailing market prices.<sup>1,2</sup> The annual compliance filings are due March 1 of each year.<sup>3</sup>

#### II. PROCEDURAL BACKGROUND

|                  |                                                                                                                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| By March 3, 2025 | MP <sup>4</sup> , OTP <sup>5</sup> , and Xcel <sup>6</sup> filed their annual compliance filings, containing data regarding the impacts of self-committing and self-scheduling their generators. |
| March 6, 2025    | The Commission issued its <i>Notice of Comment Period</i> (Notice) regarding the utilities' annual compliance filings. <sup>7</sup>                                                              |

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<sup>1</sup>In the *Matter of the Review of the 2016-2017 Annual Automatic Adjustment Reports for All Electric Utilities and In the Matter of the Review of the 2017-2018 Annual Automatic Adjustment Reports for All Electric Utilities, Order Accepting 2016-2017 Reports and Setting Additional Requirements*, February 7, 2019, Docket Nos. E999/AA-17-492 and E999/AA-18-373, (eDockets) [20192-150080-01](#) at Order Point 4.

<sup>2</sup> In the *Matter of the Review of the 2017-2018 Annual Automatic Adjustment Reports for All Electric Utilities, Order Accepting 2017-2018 Reports and Setting Additional Requirements*, November 13, 2019, Docket No. E999/AA-18-373, (eDockets) [201911-157516-01](#) at Order Points 8, 9, and 10, (Hereinafter "2019 Order").

<sup>3</sup> Note that the filings made in March 2024 have not yet been acted upon by the Commission.

<sup>4</sup> In the *Matter of an Investigation into Self-Commitment and Self-Scheduling of Large Baseload Generation Facilities*, MP, Annual Compliance Filing, March 3, 2025, Docket No. E999/CI-19-704, (eDockets) [20253-216006-04](#) (Hereinafter "MP Report").

<sup>5</sup> In the *Matter of an Investigation into Self-Commitment and Self-Scheduling of Large Baseload Generation Facilities*, OTP, Annual Compliance Filing, February 27, 2025, Docket No. E999/CI-19-704, (eDockets) [20252-215820-02](#), [20252-215820-04](#), and [20252-215820-06](#) (Hereinafter "OTP Report").

<sup>6</sup> In the *Matter of an Investigation into Self-Commitment and Self-Scheduling of Large Baseload Generation Facilities*, Xcel, 2024 Annual Report, March 3, 2025, Docket No. E999/CI-19-704, (eDockets) [20253-216008-01](#), [20253-216008-03](#), [20253-216008-05](#), and [20253-216008-08](#) (Hereinafter "Xcel Report").

<sup>7</sup> In the *Matter of an Investigation into Self-Commitment and Self-Scheduling of Large Baseload Generation Facilities*, Notice of Comment Period, March 6, 2025, Docket No. E999/CI-19-704, (eDockets) [20253-216124-01](#).

According to the Notice the following topics are open for comment:

- Are the March 1, 2025 filings by the utilities, adequate and in compliance with prior Commission orders?
- What conclusions can be drawn from the data filed by the utilities in conjunction with what has been learned earlier in this investigation?
- How should the Commission use the information provided by the utilities in this docket going forward?
- Should the Commission order any further analysis for future reports, or any additional reports by the utilities?

### III. DEPARTMENT ANALYSIS

#### A. MISO MARKET BACKGROUND

##### A.1. Capacity Market Operations

For purposes of this proceeding there are two stages to MISO's market construct. The first stage is the Planning Resource Auction (PRA), an annual capacity auction. According to MISO, the PRA is a way for market participants to meet resource adequacy (capacity) requirements.<sup>8</sup> Resources that clear in the annual PRA—stage 1 of MISO's market—must be offered into MISO's energy market, which is stage 2 of the market process. This must-offer requirement does not allow utilities to de-commit. In other words, once a unit is cleared in the PRA, the utility cannot make a unit unavailable to MISO for dispatch, on a seasonal basis or otherwise, except for when the unit is on mechanical outage, overhaul, testing, etc.

##### A.2. Energy Market Operations

MISO's energy markets identify both the supply of electric generation available throughout the MISO regions, and the anticipated (and, in the real-time market, the actual) demand for electricity in each area. Generators are selected for dispatch in a manner designed to minimize overall costs to the system while meeting reliability requirements. MISO unit commitment is the process that determines which generators (and other resources) will operate to meet the upcoming need for electricity. MISO scheduling and dispatch sets the hourly output for each committed resource, using simultaneously co-optimized Security Constrained Unit Commitment and Security Constrained Economic Dispatch to clear and dispatch the energy and reserve markets.

MISO's energy market has both a day ahead (DA) market and a real time (RT) market.<sup>9</sup> Essentially, the DA market is a forward market for energy and operating reserves. Transactions in the DA market occur the day before the operating day. The DA market creates binding results for next operating day and sets the DA locational marginal prices (LMP).

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<sup>8</sup> See [MISO PRA Website](#)

<sup>9</sup> Information on how MISO's markets work is available in the [Learning Center](#) on MISO's website.

Transactions in the RT market occur throughout the operating day. Essentially, the RT market is a spot market for energy and operating reserves. The RT market balances supply and demand under actual system conditions, dispatches the least-cost resources every five minutes, and thus provides transparent economic signals, especially RT LMPs.

A participating generation owner can specify the operating parameters—including production cost of its generator—and MISO will refrain from dispatching the resource until market prices meet or exceed that level, again, subject to reliability requirements. However, under some circumstances a participant will prefer to commit its generator to be available for MISO dispatch (self-commit), and unilaterally set the generator's output level (self-schedule), accepting whatever market price results rather than awaiting economic dispatch by MISO.

The concern in this proceeding is that the utilities may over-use self-commitment and self-scheduling, which results in higher costs for ratepayers.

#### *B. COMPLETENESS REVIEW*

The first topic open for comment is “Are the March 1, 2025 filings by the utilities, adequate and in compliance with prior Commission orders?”

The Department reviewed the annual compliance filings and notes two items. First, the Commission's December 1, 2021 Order required the utilities to include “Plant startup conditions (e.g. cold, warm, or hot).”<sup>10</sup> While MP included certain information, the Department recommends MP include a column in the annual Excel spreadsheet that indicates whether each start was cold, warm, or hot. Both Xcel and OTP met this Order requirement in their respective compliance filings.

Second, the Commission's November 17, 2022 Order required:

Xcel to provide, in future reports, instances when greater economic commitment led to lost revenue. If there were such instances, the utility should describe its strategy to weigh those lost revenues with the environmental benefits of lower emissions.<sup>11</sup>

The Department was unable to locate this information. The Department recommends Xcel, in reply comments, indicate where information regarding instances when greater economic commitment led to lost revenue is located or provide the information.

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<sup>10</sup> *In the Matter of an Investigation into Self-Commitment and Self-Scheduling of Large Baseload Generation Facilities*, Commission, Order Accepting Reports and Setting Additional Requirements, December 1, 2021, Docket No. E999/CI-19-704, (eDockets) [202112-180308-01](#).

<sup>11</sup> *In the Matter of an Investigation into Self-Commitment and Self-Scheduling of Large Baseload Generation Facilities*, Commission, Order, November 17, 2022, Docket No. E999/CI-19-704, (eDockets) [202211-190727-01](#).

C. ANALYSIS OF THE DATA

The Department begins by noting that OTP's units are co-owned with other utilities in multiple RTOs, making commitment and dispatch decisions somewhat complicated.<sup>12</sup> Table 1 below shows the ownership arrangements for Big Stone and Coyote.

**Table 1. OTP Unit Ownership Arrangements<sup>13</sup>**

| Utility                           | Big Stone<br>Ownership<br>Share | Coyote<br>Ownership<br>Share | ISO<br>Membership |
|-----------------------------------|---------------------------------|------------------------------|-------------------|
| <b>Otter Tail Power Company</b>   | 53.9%                           | 35.0%                        | MISO              |
| <b>Montana Dakota Utilities</b>   | 22.7%                           | 25.0%                        | MISO              |
| <b>NorthWestern Energy</b>        | 23.4%                           | 10.0%                        | SPP               |
| <b>Minnkota Power Cooperative</b> | 0.0%                            | 30.0%                        | MISO              |

C.1. Commitment Data

As stated in the 2019 Order, unit commitment is the first step in MISO's energy market and determines which generators (and other resources) will operate to meet the demand. The units involved in this proceeding generally use a commitment status of Economic, Must Run, or Outage. Table 2a below summarizes the commitment data for each unit in 2024.

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<sup>12</sup> OTP Report at 3-4.

<sup>13</sup> OTP Report at 4.

**Table 2a. Distribution of Commitment Status in 2024 (Hours)<sup>14</sup>**

|                         | (a)                                         | (b) =<br>(a)/(h) | (c)                 | (d) =<br>(c)/(h) | (e)               | (f) =<br>(e)/(h) | (g)              | (h) = (a) +<br>(c) + (e) +<br>(g) |
|-------------------------|---------------------------------------------|------------------|---------------------|------------------|-------------------|------------------|------------------|-----------------------------------|
|                         | Economic<br>(hours)                         | Economic<br>%    | Must Run<br>(hours) | Must Run<br>%    | Outage<br>(hours) | Outage %         | Other<br>(hours) | Total<br>(hours)                  |
| <b>Big Stone</b>        | <b>[TRADE SECRET DATA HAS BEEN EXCISED]</b> |                  |                     |                  |                   |                  |                  |                                   |
| <b>Coyote</b>           |                                             |                  |                     |                  |                   |                  |                  |                                   |
|                         |                                             |                  |                     |                  |                   |                  |                  |                                   |
|                         |                                             |                  |                     |                  |                   |                  |                  |                                   |
| <b>Boswell 3</b>        | <b>[TRADE SECRET DATA HAS BEEN EXCISED]</b> |                  |                     |                  |                   |                  |                  |                                   |
| <b>Boswell 4</b>        |                                             |                  |                     |                  |                   |                  |                  |                                   |
|                         |                                             |                  |                     |                  |                   |                  |                  |                                   |
|                         |                                             |                  |                     |                  |                   |                  |                  |                                   |
| <b>King</b>             | <b>[TRADE SECRET DATA HAS BEEN EXCISED]</b> |                  |                     |                  |                   |                  |                  |                                   |
| <b>Sherco 1</b>         |                                             |                  |                     |                  |                   |                  |                  |                                   |
| <b>Sherco 2</b>         |                                             |                  |                     |                  |                   |                  |                  |                                   |
| <b>Sherco 3</b>         | <b>[TRADE SECRET DATA HAS BEEN EXCISED]</b> |                  |                     |                  |                   |                  |                  |                                   |
| <b>Monticello</b>       |                                             |                  |                     |                  |                   |                  |                  |                                   |
| <b>Prairie Island 1</b> |                                             |                  |                     |                  |                   |                  |                  |                                   |
| <b>Prairie Island 2</b> |                                             |                  |                     |                  |                   |                  |                  |                                   |
|                         |                                             |                  |                     |                  |                   |                  |                  |                                   |
| <b>COAL TOTAL</b>       | <b>12,203</b>                               | <b>19.8%</b>     | <b>38,571</b>       | <b>62.7%</b>     | <b>10,714</b>     | <b>17.4%</b>     | <b>0</b>         | <b>61,488</b>                     |

Table 2b shows a summary of the commitment data for the coal units since 2019, the first full year for this proceeding.

<sup>14</sup> MP Report at Attachments 1 and 2, OTP Report at Attachments 2 and 3, Xcel Report at Attachments A and B.

**Table 2b. Summary of Commitment Status for Coal Units, 2019-2024 (Hours)<sup>15, 16</sup>**

|            | (a)                 | (b) =<br>(a)/(h) | (c)                 | (d) =<br>(c)/(h) | (e)               | (f) =<br>(e)/(h) | (g)              | (h) = (a) +<br>(c) + (e) +<br>(g) |
|------------|---------------------|------------------|---------------------|------------------|-------------------|------------------|------------------|-----------------------------------|
| COAL TOTAL | Economic<br>(hours) | Economic<br>%    | Must Run<br>(hours) | Must Run<br>%    | Outage<br>(hours) | Outage %         | Other<br>(hours) | Total<br>(hours)                  |
| 2019       | 5,681               | 10.8%            | 38,160              | 72.6%            | 8,719             | 16.6%            | 0                | 52,560                            |
| 2020       | 12,953              | 18.4%            | 47,601              | 67.7%            | 6,509             | 9.3%             | 3,209            | 70,272                            |
| 2021       | 15,382              | 21.9%            | 38,139              | 54.4%            | 12,681            | 18.1%            | 3,878            | 70,080                            |
| 2022       | 19,742              | 28.2%            | 36,069              | 51.5%            | 13,874            | 19.8%            | 395              | 70,080                            |
| 2023       | 16,194              | 23.1%            | 36,558              | 52.2%            | 17,328            | 24.7%            | 0                | 70,080                            |
| 2024       | 12,203              | 19.8%            | 38,571              | 62.7%            | 10,714            | 17.4%            | 0                | 61,488                            |

Table 2b shows that, on average, use of the Must Run designation during the commitment process has decreased; from around 70 percent the first two years to a little over 50 percent the next three years. However, for 2024 the use of must run increased to a little over 60 percent.

### C.2. Dispatch Data

As stated in the 2019 Order, dispatch is the second step in MISO’s energy market and sets the hourly output for each committed resource. Data on uneconomic DA dispatch for the individual units subject to this proceeding is available in Table 3a. The following definitions apply to the data presented in Table 3a:

- Total DA Dispatch—sum of the MWh Cleared in the Day Ahead Market for all hours;
- Total Uneconomic DA Dispatch—sum of the MWh Cleared in the Day Ahead Market for hours where the DA LMP was less than Unit Fuel Cost plus Unit Variable O&M Cost; and
- Uneconomic DA Dispatch Minimum—sum of the Minimum MW Level the unit can be dispatched at in the Day Ahead market for hours where the DA LMP was less than Unit Fuel Cost plus Unit Variable O&M Cost.

<sup>15</sup> *In the Matter of an Investigation into Self-Commitment and Self-Scheduling of Large Baseload Generation Facilities*, Department, Comments, June 8, 2020, Docket No. E999/CI-19-704, (eDockets) [20206-163795-02](#). Department, Comments, April 30, 2021, Docket No. E999/CI-19-704, (eDockets) [20214-173727-02](#). Department, Comments, May 2, 2022, Docket No. E999/CI-19-704, (eDockets) [20225-185438-02](#). Department, Comments, May 31, 2023, Docket No. E999/CI-19-704, (eDockets) [20235-196234-02](#). Department, Comments, May 1, 2024, Docket No. E999/CI-19-704, (eDockets) [20245-206285-02](#) (Collectively, “Prior Department Comments”)

<sup>16</sup> Note that 2019 data was calculated from the information provided in the utilities’ 2020 filings. Note that OTP’s 2020 filing did not provide commitment data for 2019 and thus OTP’s units are excluded from Table 2b for 2019.

**Table 3a. Distribution of Dispatch Status by Unit in 2023 (MWh)<sup>17</sup>**

|                  | (a)                                  | (b)                          | (c)                            | (d) = (c)/(a)                 | (e) = (b)-(c)                        | (f) = (e)/(a)                       | (g) = (d)+(f)                  |
|------------------|--------------------------------------|------------------------------|--------------------------------|-------------------------------|--------------------------------------|-------------------------------------|--------------------------------|
| Unit             | Total DA Dispatch                    | Total Uneconomic DA Dispatch | Uneconomic DA Dispatch Minimum | Percent Uneconomic DA Minimum | Uneconomic DA Dispatch Above Minimum | Percent Uneconomic DA Above Minimum | Percent Uneconomic DA Dispatch |
| Boswell 3        | [TRADE SECRET DATA HAS BEEN EXCISED] |                              |                                |                               |                                      |                                     |                                |
| Boswell 4        |                                      |                              |                                |                               |                                      |                                     |                                |
| Big Stone        | [TRADE SECRET DATA HAS BEEN EXCISED] |                              |                                |                               |                                      |                                     |                                |
| Coyote           |                                      |                              |                                |                               |                                      |                                     |                                |
| King             | [TRADE SECRET DATA HAS BEEN EXCISED] |                              |                                |                               |                                      |                                     |                                |
| Sherco 1         |                                      |                              |                                |                               |                                      |                                     |                                |
| Sherco 2         | [TRADE SECRET DATA HAS BEEN EXCISED] |                              |                                |                               |                                      |                                     |                                |
| Sherco 3         |                                      |                              |                                |                               |                                      |                                     |                                |
| Monticello       |                                      |                              |                                |                               |                                      |                                     |                                |
| Prairie Island 1 |                                      |                              |                                |                               |                                      |                                     |                                |
| Prairie Island 2 |                                      |                              |                                |                               |                                      |                                     |                                |
| COAL TOTAL       | 11,951,183                           | 5,229,761                    | 3,510,505                      | 29.4%                         | 1,719,256                            | 14.4%                               | 43.8%                          |

<sup>17</sup> MP Report at Attachments 1 and 2, OTP Report at Attachments 2 and 3, and Xcel Report at Attachments A and B.

Table 3b shows a summary of the dispatch data for the coal units since the proceeding began.

**Table 3b: Summary of Dispatch Status for Coal Units, 2019-2023 (MWh)<sup>18</sup>**

|               | (a)               | (b)                          | (c)                            | (d) = (c)/(a)                 | (e) = (b)-(c)                        | (f) = (e)/(a)                       | (g) = (d)+(f)                  |
|---------------|-------------------|------------------------------|--------------------------------|-------------------------------|--------------------------------------|-------------------------------------|--------------------------------|
| Calendar Year | Total DA Dispatch | Total Uneconomic DA Dispatch | Uneconomic DA Dispatch Minimum | Percent Uneconomic DA Minimum | Uneconomic DA Dispatch Above Minimum | Percent Uneconomic DA Above Minimum | Percent Uneconomic DA Dispatch |
| 2019          | 18,117,211        | 8,039,070                    | 6,027,191                      | 33.3%                         | 2,011,879                            | 11.1%                               | 44.4%                          |
| 2020          | 14,943,438        | 5,825,575                    | 4,641,341                      | 31.1%                         | 1,184,234                            | 7.9%                                | 39.0%                          |
| 2021          | 15,974,270        | 3,075,470                    | 2,260,695                      | 14.2%                         | 814,775                              | 5.1%                                | 19.3%                          |
| 2022          | 16,975,300        | 2,788,773                    | 1,956,519                      | 11.5%                         | 832,254                              | 4.9%                                | 16.4%                          |
| 2023          | 13,466,748        | 4,297,101                    | 2,954,284                      | 21.9%                         | 1,342,817                            | 10.0%                               | 31.9%                          |
| 2024          | 11,951,183        | 5,229,761                    | 3,510,505                      | 29.4%                         | 1,719,256                            | 14.4%                               | 43.8%                          |

Table 3b shows that uneconomic DA dispatch returned to the level experienced in the first two years. In addition, a significant portion of the uneconomic DA dispatch is associated with uneconomic dispatch above the DA minimum. From this data the Department concludes that the utilities on average have regressed to the levels experienced prior to the Commission's investigation in late 2019.

### C.3. Economic Outcomes

The Department notes that in past years the economic outcomes appear to have been largely driven by LMPs. Table 4 shows the LMPs at the Minnesota hub to illustrate the different prices faced by the units over time. Table 4 shows that LMPs were substantially higher in 2021 and 2022 than the other years, driving a greater number of hours of operation at a net benefit in those years.

**Table 4: Minnesota Hub LMPs<sup>19</sup>**

| Year | Average Price | Average Off-Peak Price | Average On-Peak Price |
|------|---------------|------------------------|-----------------------|
| 2018 | \$26.57       | \$23.02                | \$30.65               |
| 2019 | \$21.97       | \$19.06                | \$25.31               |
| 2020 | \$17.58       | \$14.71                | \$20.84               |
| 2021 | \$36.63       | \$30.77                | \$43.37               |
| 2022 | \$44.10       | \$35.12                | \$54.47               |
| 2023 | \$28.75       | \$22.49                | \$35.99               |
| 2024 | \$27.40       | \$22.95                | \$32.54               |

<sup>18</sup> MP Report at Attachments 1 and 2, OTP Report at Attachments 2 and 3, Xcel Report at Attachments A and B and Prior Department Comments.

<sup>19</sup> While Table 4 shows real time LMPs, over a long duration real time LMPs are comparable to day ahead LMPs since real time LMPs converge to the day ahead LMPs.

C.3.1. MP

Table 5a below shows the number of hours MP's units operated at a net benefit or net cost during 2024.

**Table 5a: 2023 Hours at Net Benefit/Breakeven/Net Cost for MP<sup>20</sup>**

| Unit                  | Net Benefit  | Breakeven    | Net Cost     | TOTAL         |
|-----------------------|--------------|--------------|--------------|---------------|
| <b>Boswell Unit 3</b> | 3,730<br>42% | 2,812<br>32% | 2,242<br>26% | 8,784<br>100% |
| <b>Boswell Unit 4</b> | 4,093<br>47% | 472<br>5%    | 4,219<br>48% | 8,784<br>100% |

Table 5b summarizes the historical data for Boswell 3 and Table 5c summarizes the historical data for Boswell 4.

**Table 5b: Boswell 3—History of Hours at Net Benefit/Breakeven/Net Cost<sup>21, 22</sup>**

| Year             | Net Benefit | Breakeven | Net Cost | TOTAL  |
|------------------|-------------|-----------|----------|--------|
| <b>2018-2019</b> | 49.3%       | 22.1%     | 28.6%    | 100.0% |
| <b>2020</b>      | 30.8%       | 9.2%      | 60.1%    | 100.0% |
| <b>2021</b>      | 73.2%       | 13.0%     | 13.8%    | 100.0% |
| <b>2022</b>      | 74.1%       | 12.1%     | 13.8%    | 100.0% |
| <b>2023</b>      | 65.1%       | 10.8%     | 24.0%    | 100.0% |
| <b>2024</b>      | 42.5%       | 32.0%     | 25.5%    | 100.0% |

**Table 5c: Boswell 4—History of Hours at Net Benefit/Breakeven/Net Cost<sup>23</sup>**

| Year             | Net Benefit | Breakeven | Net Cost | TOTAL  |
|------------------|-------------|-----------|----------|--------|
| <b>2018-2019</b> | 52.3%       | 11.6%     | 36.1%    | 100.0% |
| <b>2020</b>      | 31.1%       | 11.3%     | 57.6%    | 100.0% |
| <b>2021</b>      | 84.6%       | 2.0%      | 13.4%    | 100.0% |
| <b>2022</b>      | 57.3%       | 27.9%     | 14.8%    | 100.0% |
| <b>2023</b>      | 44.0%       | 24.7%     | 31.3%    | 100.0% |
| <b>2024</b>      | 46.6%       | 5.4%      | 48.0%    | 100.0% |

Tables 5b and 5c show that both Boswell units had a greater percentage of hours at net cost than in the prior three years, consistent with the 2024 LMPs which were lower than the 2021 to 2023 LMPs.

<sup>20</sup> MP Report at Attachments 1 and 2.

<sup>21</sup> The first filings covered the period July 1, 2018 to December 31, 2019. For this section the Department did not recalculate the data to show a single year.

<sup>22</sup> See Table 5a and Prior Department Comments.

<sup>23</sup> See Table 5a and Prior Department Comments.

### C.3.2. OTP

Table 6a below shows the number of hours OTP's units operated at a net benefit or net cost during 2024.

**Table 6a: 2024 Hours at Net Benefit/Breakeven/Net Cost for OTP<sup>24, 25</sup>**

| Unit                                       | Net Benefit  | Breakeven    | Net Cost     | TOTAL         |
|--------------------------------------------|--------------|--------------|--------------|---------------|
| <b>Big Stone</b>                           | 2,041<br>23% | 1,239<br>14% | 5,504<br>63% | 8,784<br>100% |
| <b>Coyote (with Production Cost)</b>       | 4,078<br>46% | 1,034<br>12% | 3,672<br>42% | 8,784<br>100% |
| <b>Coyote (with Total Production Cost)</b> | 2,205<br>25% | 1,034<br>12% | 5,545<br>63% | 8,784<br>100% |

Table 6b summarizes the historical data for Big Stone and Tables 6c and 6d summarize the historical data for Coyote.

**Table 6b: Big Stone—History of Hours at Net Benefit/Breakeven/Net Cost<sup>26</sup>**

| Year             | Net Benefit | Breakeven | Net Cost | TOTAL  |
|------------------|-------------|-----------|----------|--------|
| <b>2018-2019</b> | 44.1%       | 16.7%     | 39.2%    | 100.0% |
| <b>2020</b>      | 15.6%       | 23.2%     | 61.2%    | 100.0% |
| <b>2021</b>      | 26.9%       | 34.9%     | 38.3%    | 100.0% |
| <b>2022</b>      | 37.5%       | 25.4%     | 37.1%    | 100.0% |
| <b>2023</b>      | 25.0%       | 23.0%     | 52.0%    | 100.0% |
| <b>2024</b>      | 23.2%       | 14.1%     | 62.7%    | 100.0% |

**Table 6c: Coyote—History of Hours at Net Benefit/Breakeven/Net Cost With Production Cost<sup>27</sup>**

| Year             | Net Benefit | Breakeven | Net Cost | TOTAL  |
|------------------|-------------|-----------|----------|--------|
| <b>2018-2019</b> | 63.6%       | 23.0%     | 13.4%    | 100.0% |
| <b>2020</b>      | 44.0%       | 6.2%      | 49.8%    | 100.0% |
| <b>2021</b>      | 61.5%       | 11.6%     | 26.9%    | 100.0% |
| <b>2022</b>      | 62.1%       | 23.0%     | 14.9%    | 100.0% |
| <b>2023</b>      | 65.8%       | 9.1%      | 25.1%    | 100.0% |
| <b>2024</b>      | 46.4%       | 11.8%     | 41.8%    | 100.0% |

<sup>24</sup> The difference between "Production Cost" and "Total Production Cost" is that total production cost includes what is classified as "Remaining Unit Fuel Cost." The remaining unit fuel costs are fixed costs associated with fuel. The utilities with such fixed fuel costs provide two sets of analysis to comply with the Commission's January 11, 2021 order in this proceeding, which required: "If a utility excludes any fuel costs from its MISO offer curves, the utility should also provide an analysis that includes all fuel costs, including those currently treated as fixed costs due to contractual terms."

<sup>25</sup> OTP Report at Attachments 2 and 3.

<sup>26</sup> See Table 6a and Prior Department Comments.

<sup>27</sup> See Table 6a and Prior Department Comments.

**Table 6d: Coyote—History of Hours at Net Benefit/Breakeven/Net Cost  
With Total Production Cost<sup>28</sup>**

| Year             | Net Benefit | Breakeven | Net Cost | TOTAL  |
|------------------|-------------|-----------|----------|--------|
| <b>2018-2019</b> | 63.6%       | 23.0%     | 13.4%    | 100.0% |
| <b>2020</b>      | 8.8%        | 6.2%      | 85.0%    | 100.0% |
| <b>2021</b>      | 36.8%       | 11.6%     | 51.6%    | 100.0% |
| <b>2022</b>      | 54.2%       | 22.8%     | 23.0%    | 100.0% |
| <b>2023</b>      | 38.2%       | 9.1%      | 52.8%    | 100.0% |
| <b>2023</b>      | 25.1%       | 11.8%     | 63.1%    | 100.0% |

As with MP, Tables 6b to 6d show that OTP's units had a greater percentage of hours at net cost than in the prior three years, consistent with the LMPs.

### C.3.3. Xcel

Table 7a below shows the number of hours Xcel's units operated at a net benefit or net cost during 2024.

**Table 7a: 2024 Hours at Net Benefit/Breakeven/Net Cost for Xcel<sup>29</sup>**

| Unit                                                | Net Benefit  | Breakeven    | Net Cost     | TOTAL         |
|-----------------------------------------------------|--------------|--------------|--------------|---------------|
| <b>King</b>                                         | 953<br>11%   | 7,350<br>84% | 481<br>5%    | 8,784<br>100% |
| <b>Sherco 1</b>                                     | 3,949<br>45% | 2,812<br>32% | 2,023<br>23% | 8,784<br>100% |
| <b>Sherco 2</b>                                     | Retired      |              |              |               |
| <b>Sherco 3</b>                                     | 3,551<br>40% | 1,810<br>21% | 3,423<br>39% | 8,784<br>100% |
| <b>Monti<br/>(Production Cost)</b>                  | 8,529<br>97% | 190<br>2%    | 65<br>1%     | 8,784<br>100% |
| <b>Prairie Island 1 (Production<br/>Cost)</b>       | 5,413<br>62% | 3,148<br>36% | 223<br>3%    | 8,784<br>100% |
| <b>Prairie Island 2 (Production<br/>Cost)</b>       | 6,798<br>77% | 1,711<br>19% | 275<br>3%    | 8,784<br>100% |
| <b>Monticello<br/>(Total Production Cost)</b>       | 8,331<br>95% | 190<br>2%    | 263<br>3%    | 8,784<br>100% |
| <b>Prairie Island 1<br/>(Total Production Cost)</b> | 5,087<br>58% | 3,148<br>36% | 549<br>6%    | 8,784<br>100% |
| <b>Prairie Island 2<br/>(Total Production Cost)</b> | 6,436<br>73% | 1,711<br>19% | 637<br>7%    | 8,784<br>100% |

Tables 7b to 7h summarize the historical data Xcel's generating units.

<sup>28</sup> See Table 6a and Prior Department Comments.

<sup>29</sup> Xcel Report at Attachments A and B.

**Table 7b: King—History of Hours at Net Benefit/Breakeven/Net Cost<sup>30</sup>**

| Year      | Net Benefit | Breakeven | Net Cost | TOTAL  |
|-----------|-------------|-----------|----------|--------|
| 2018-2019 | 37.8%       | 0.0%      | 62.2%    | 100.0% |
| 2020      | 18.0%       | 0.0%      | 82.0%    | 100.0% |
| 2021      | 27.7%       | 64.6%     | 7.7%     | 100.0% |
| 2022      | 28.7%       | 0.0%      | 71.3%    | 100.0% |
| 2023      | 14.6%       | 73.4%     | 12.0%    | 100.0% |
| 2024      | 10.8%       | 83.7%     | 5.5%     | 100.0% |

**Table 7c: Sherco 1—History of Hours at Net Benefit/Breakeven/Net Cost<sup>31</sup>**

| Year      | Net Benefit | Breakeven | Net Cost | TOTAL  |
|-----------|-------------|-----------|----------|--------|
| 2018-2019 | 42.5%       | 18.4%     | 39.2%    | 100.0% |
| 2020      | 43.6%       | 21.0%     | 35.4%    | 100.0% |
| 2021      | 49.2%       | 36.5%     | 14.4%    | 100.0% |
| 2022      | 65.5%       | 16.2%     | 18.4%    | 100.0% |
| 2023      | 44.6%       | 27.8%     | 27.6%    | 100.0% |
| 2024      | 45.0%       | 32.0%     | 23.0%    | 100.0% |

**Table 7d: Sherco 2—History of Hours at Net Benefit/Breakeven/Net Cost<sup>32</sup>**

| Year      | Net Benefit | Breakeven | Net Cost | TOTAL  |
|-----------|-------------|-----------|----------|--------|
| 2018-2019 | 48.1%       | 19.2%     | 32.7%    | 100.0% |
| 2020      | 36.3%       | 34.7%     | 29.0%    | 100.0% |
| 2021      | 56.1%       | 25.5%     | 18.4%    | 100.0% |
| 2022      | 58.6%       | 28.5%     | 12.9%    | 100.0% |
| 2023      | 17.1%       | 67.8%     | 15.2%    | 100.0% |
| 2024      | Retired     |           |          |        |

**Table 7e: Sherco 3—History of Hours at Net Benefit/Breakeven/Net Cost<sup>33</sup>**

| Year      | Net Benefit | Breakeven | Net Cost | TOTAL  |
|-----------|-------------|-----------|----------|--------|
| 2018-2019 | 48.5%       | 7.8%      | 43.7%    | 100.0% |
| 2020      | 46.0%       | 32.3%     | 21.7%    | 100.0% |
| 2021      | 46.2%       | 32.0%     | 21.8%    | 100.0% |
| 2022      | 51.8%       | 32.4%     | 15.8%    | 100.0% |
| 2023      | 33.1%       | 45.3%     | 21.6%    | 100.0% |
| 2024      | 40.4%       | 20.6%     | 39.0%    | 100.0% |

Tables 7b through 7e show that Xcel's coal units have no consistent result in terms of percentage of operating at a net benefit or net cost in 2024 compared to prior years.

**Table 7f: Monticello—History of Hours at Net Benefit/Breakeven/Net Cost**

<sup>30</sup> See Table 7a and Prior Department Comments.

<sup>31</sup> See Table 7a and Prior Department Comments.

<sup>32</sup> See Table 7a and Prior Department Comments.

<sup>33</sup> See Table 7a and Prior Department Comments.

**With Total Production Cost<sup>34, 35</sup>**

| Year      | Net Benefit | Breakeven | Net Cost | TOTAL  |
|-----------|-------------|-----------|----------|--------|
| 2018-2019 | 93.8%       | 6.1%      | 0.1%     | 100.0% |
| 2020      | 96.1%       | 0.0%      | 3.9%     | 100.0% |
| 2021      | 89.6%       | 9.1%      | 1.3%     | 100.0% |
| 2022      | 96.6%       | 0.9%      | 2.5%     | 100.0% |
| 2023      | 85.8%       | 11.7%     | 2.5%     | 100.0% |
| 2024      | 94.8%       | 2.2%      | 3.0%     | 100.0% |

**Table 7g: Prairie Island 1—History of Hours at Net Benefit/Breakeven/Net Cost  
With Total Production Cost<sup>36</sup>**

| Year      | Net Benefit | Breakeven | Net Cost | TOTAL  |
|-----------|-------------|-----------|----------|--------|
| 2018-2019 | 92.8%       | 6.4%      | 0.8%     | 100.0% |
| 2020      | 84.2%       | 7.5%      | 8.4%     | 100.0% |
| 2021      | 96.0%       | 0.0%      | 4.0%     | 100.0% |
| 2022      | 90.7%       | 2.1%      | 7.1%     | 100.0% |
| 2023      | 73.6%       | 19.7%     | 6.7%     | 100.0% |
| 2024      | 57.9%       | 35.8%     | 6.3%     | 100.0% |

**Table 7h: Prairie Island 2—History of Hours at Net Benefit/Breakeven/Net Cost  
With Total Production Cost<sup>37</sup>**

| Year      | Net Benefit | Breakeven | Net Cost | TOTAL  |
|-----------|-------------|-----------|----------|--------|
| 2018-2019 | 95.4%       | 4.2%      | 0.4%     | 100.0% |
| 2020      | 92.5%       | 0.0%      | 7.5%     | 100.0% |
| 2021      | 88.7%       | 7.6%      | 3.7%     | 100.0% |
| 2022      | 97.4%       | 0.0%      | 2.6%     | 100.0% |
| 2023      | 67.2%       | 25.4%     | 7.4%     | 100.0% |
| 2024      | 73.3%       | 19.5%     | 7.3%     | 100.0% |

Tables 7f through 7h show that Xcel's nuclear units tend to have relatively few hours operating at a net cost regardless of fluctuations in the average LMP.

#### *C.3.4. Summary*

Overall, the data show the Commission's proceeding appears to have had an impact in reducing the use of must run designation during commitment and on uneconomic dispatch for the coal units. However, for many units the changes in the LMPs appear to be the driving factor in the net benefit/net cost outcome rather than the details of the commitment and dispatch process.

#### *C.4. Impact on Outage Rate*

<sup>34</sup> Even with consideration of total production costs (which are larger than production costs) Xcel's nuclear units operate at a net benefit most hours. Thus, to reduce the number of tables production cost data is not presented.

<sup>35</sup> See Table 7a and Prior Department Comments.

<sup>36</sup> See Table 7a and Prior Department Comments.

<sup>37</sup> See Table 7a and Prior Department Comments.

The Commission's November 17, 2022 Order at Point 7b required the utilities to provide the equivalent forced outage rates (EFOR) to be tracked over time for each unit. The Department proposed this requirement to track the operating conditions of the units and identify impacts of additional wear and tear. Flexible operations put more stress on steam piping, headers, and superheater, reheating, and waterwall tubing. The calculation of EFOR is defined in the North American Electric Reliability Corporation (NERC) GADS Data Reporting Instructions<sup>38</sup> as follows:

$$\text{EFOR} = \frac{\text{FOH} + \text{EFDH}}{\text{FOH} + \text{SH} + \text{Synchronous Condensing Hours} + \text{Pumping Hours} + \text{EFDHRS}} \times 100\%$$

Where:

- FOH – Forced outage hours;
- EFDH – Equivalent forced derated hours;
- SH – Service hours; and
- EFDHRS – Equivalent forced derated hours during reserve shutdowns.

Tables 8 to 11 show the EFOR data from the filings made since the data was required.

**Table 8: MP EFOR Data<sup>39</sup>**

| Month     | BEC3                                        |      |      | BEC4 |      |      |
|-----------|---------------------------------------------|------|------|------|------|------|
|           | 2022                                        | 2023 | 2024 | 2022 | 2023 | 2024 |
| January   | <b>[TRADE SECRET DATA HAS BEEN EXCISED]</b> |      |      |      |      |      |
| February  |                                             |      |      |      |      |      |
| March     |                                             |      |      |      |      |      |
| April     |                                             |      |      |      |      |      |
| May       |                                             |      |      |      |      |      |
| June      |                                             |      |      |      |      |      |
| July      |                                             |      |      |      |      |      |
| August    |                                             |      |      |      |      |      |
| September |                                             |      |      |      |      |      |
| October   |                                             |      |      |      |      |      |
| November  |                                             |      |      |      |      |      |
| December  |                                             |      |      |      |      |      |
| Average   |                                             |      |      |      |      |      |

<sup>38</sup> NERC Generating Availability Data System (GADS) Data Reporting Instructions, Effective January 1, 2023 Appendix F at F-9. Accessed at: [https://www.nerc.com/pa/RAPA/gads/DataReportingInstructions/GADS\\_DRI\\_2023.pdf](https://www.nerc.com/pa/RAPA/gads/DataReportingInstructions/GADS_DRI_2023.pdf)

<sup>39</sup> MP Report at Attachments 1 and 2

**Table 9: OTP EFOR Data<sup>40</sup>**

| Month     | Big Stone Plant                             |      |      | Coyote Station |      |      |
|-----------|---------------------------------------------|------|------|----------------|------|------|
|           | 2022                                        | 2023 | 2024 | 2022           | 2023 | 2024 |
| January   | <b>[TRADE SECRET DATA HAS BEEN EXCISED]</b> |      |      |                |      |      |
| February  |                                             |      |      |                |      |      |
| March     |                                             |      |      |                |      |      |
| April     |                                             |      |      |                |      |      |
| May       |                                             |      |      |                |      |      |
| June      |                                             |      |      |                |      |      |
| July      |                                             |      |      |                |      |      |
| August    |                                             |      |      |                |      |      |
| September |                                             |      |      |                |      |      |
| October   |                                             |      |      |                |      |      |
| November  |                                             |      |      |                |      |      |
| December  |                                             |      |      |                |      |      |
| Average   |                                             |      |      |                |      |      |

**Table 10: Xcel Coal EFOR Data<sup>41</sup>**

| Month     | King                                        |      |      | Sherco 1 |      |      | Sherco 3 |      |      |
|-----------|---------------------------------------------|------|------|----------|------|------|----------|------|------|
|           | 2022                                        | 2023 | 2024 | 2022     | 2023 | 2024 | 2022     | 2023 | 2024 |
| January   | <b>[TRADE SECRET DATA HAS BEEN EXCISED]</b> |      |      |          |      |      |          |      |      |
| February  |                                             |      |      |          |      |      |          |      |      |
| March     |                                             |      |      |          |      |      |          |      |      |
| April     |                                             |      |      |          |      |      |          |      |      |
| May       |                                             |      |      |          |      |      |          |      |      |
| June      |                                             |      |      |          |      |      |          |      |      |
| July      |                                             |      |      |          |      |      |          |      |      |
| August    |                                             |      |      |          |      |      |          |      |      |
| September |                                             |      |      |          |      |      |          |      |      |
| October   |                                             |      |      |          |      |      |          |      |      |
| November  |                                             |      |      |          |      |      |          |      |      |
| December  |                                             |      |      |          |      |      |          |      |      |
| Average   |                                             |      |      |          |      |      |          |      |      |

<sup>40</sup> OTP Report at 15.

<sup>41</sup> Xcel Report at Attachment E.

**Table 11: Xcel Nuclear EFOR Data<sup>42</sup>**

| Month     | Monticello                                  |      |      | Prairie Island 1 |      |      | Prairie Island 2 |      |      |
|-----------|---------------------------------------------|------|------|------------------|------|------|------------------|------|------|
|           | 2022                                        | 2023 | 2024 | 2022             | 2023 | 2024 | 2022             | 2023 | 2024 |
| January   | <b>[TRADE SECRET DATA HAS BEEN EXCISED]</b> |      |      |                  |      |      |                  |      |      |
| February  |                                             |      |      |                  |      |      |                  |      |      |
| March     |                                             |      |      |                  |      |      |                  |      |      |
| April     |                                             |      |      |                  |      |      |                  |      |      |
| May       |                                             |      |      |                  |      |      |                  |      |      |
| June      |                                             |      |      |                  |      |      |                  |      |      |
| July      |                                             |      |      |                  |      |      |                  |      |      |
| August    |                                             |      |      |                  |      |      |                  |      |      |
| September |                                             |      |      |                  |      |      |                  |      |      |
| October   |                                             |      |      |                  |      |      |                  |      |      |
| November  |                                             |      |      |                  |      |      |                  |      |      |
| December  |                                             |      |      |                  |      |      |                  |      |      |
| Average   |                                             |      |      |                  |      |      |                  |      |      |

The Department is unable to draw any conclusions regarding EFOR from this data.

#### *C.5. Impact on Emissions*

The Commission's December 1, 2021 Order at Point 8 a required utilities to provide carbon dioxide emissions data for each unit. The Commission's November 17, 2022 Order at Point 7a extended this requirement by requiring the utilities to provide avoided carbon dioxide emissions due to economic commitment, using the Department's recommended method. Tables 12 and 13 show the overall emissions and the avoided emissions available in this proceeding.

**Table 12: Carbon Dioxide Emissions Data<sup>43</sup>**

| Unit                  | 2021       | 2022       | 2023       | 2024       |
|-----------------------|------------|------------|------------|------------|
| <b>Boswell Unit 3</b> | 2,543,828  | 2,604,917  | 2,464,473  | 1,617,259  |
| <b>Boswell Unit 4</b> | 2,636,159  | 2,618,437  | 2,574,516  | 2,688,734  |
| <b>Big Stone</b>      | 2,066,415  | 2,390,422  | 2,094,916  | 2,210,266  |
| <b>Coyote</b>         | 3,058,364  | 2,787,970  | 3,209,506  | 2,942,752  |
| <b>King</b>           | 1,545,215  | 1,385,510  | 1,094,107  | 654,948    |
| <b>Sherco Unit 1</b>  | 3,051,380  | 3,955,004  | 3,205,467  | 2,841,521  |
| <b>Sherco Unit 2</b>  | 3,898,059  | 3,416,090  | 1,390,671  | Retired    |
| <b>Sherco Unit 3</b>  | 2,224,536  | 2,423,237  | 1,925,692  | 2,319,249  |
| <b>Total</b>          | 21,023,956 | 21,581,587 | 17,959,348 | 15,274,730 |

<sup>42</sup> Xcel Report at Attachment E.

<sup>43</sup> MP Report at 10, OTP Report at 12, and Xcel Report at 10.

**Table 13: Avoided Carbon Dioxide Emissions Data<sup>44</sup>**

| Unit           | 2022    | 2023      | 2024      |
|----------------|---------|-----------|-----------|
| Boswell Unit 3 | 2,087   | 27,632    | 33,972    |
| Boswell Unit 4 | -       | -         | -         |
| Big Stone      | 24,033  | 65,346    | 90,400    |
| Coyote         | -       | 4,482     | 4,012     |
| King           | 476,869 | 1,728,499 | 2,205,256 |
| Sherco Unit 1  | 69,911  | 405,743   | 97,336    |
| Sherco Unit 2  | 66,640  | 463,488   | Retired   |
| Sherco Unit 3  | 119,360 | 107,850   | 141,625   |
| Total          | 758,900 | 2,803,040 | 2,572,601 |

Based tables 12 and 13, the Department concludes that flexible dispatch is resulting in a decrease in emissions. Avoided emissions equal about 3.5 percent of actual emissions in 2022. This percentage increased to 15.6 percent in 2023 and 16.8 percent in 2024.

*C.6. Best-case and Worst-case Analysis*

In accordance with Order Point 8.a of the Commission's December 1, 2021 order, the utilities developed a best-case and worst-case potential for economic commitment for each plant. The Department proposed this requirement to track the progress that utilities make as they transition their units to greater economic commitment over time.

Since the reporting of this metric has started, the analysis has proven to be of little value. Over the years there are instances where the actual net benefit is outside of the best case/worst case range. In addition, some units have reported the net benefits of the worst case are greater than the net benefits of the best case. Therefore, the Department does not address this information in these comments and recommends the best case/worst case reporting requirement be discontinued.

*C.7. Curtailment*

The utilities reported curtailment data for 2024 as follows:

- MP—[TRADE SECRET DATA HAS BEEN EXCISED]
- OTP—[TRADE SECRET DATA HAS BEEN EXCISED]
- Xcel—[TRADE SECRET DATA HAS BEEN EXCISED]

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<sup>44</sup> MP Report at 10, OTP Report at 18, and Xcel Report at 10.

The historic data on curtailment is summarized in Table 14.

**Table 14: Historic Curtailment Percentage<sup>45</sup>**

| Utility | Curtailment Percentage                      |      |      |      |      |
|---------|---------------------------------------------|------|------|------|------|
|         | 2020                                        | 2021 | 2022 | 2023 | 2024 |
| MP      | <b>[TRADE SECRET DATA HAS BEEN EXCISED]</b> |      |      |      |      |
| OTP     |                                             |      |      |      |      |
| Xcel    |                                             |      |      |      |      |

Overall, the utilities experienced high curtailment in the past year.

*D. CONCLUSIONS FROM THE DATA*

The second topic open for comment is “What conclusions can be drawn from the data filed by the utilities in conjunction with what has been learned earlier in this investigation?”

Based upon the analysis above the Department concludes that:

- Table 3b shows that the percent of uneconomic DA dispatch has increased substantially the last two years. Table 3b also shows that the percent uneconomic DA dispatch above minimum has reached a new high in 2024.
- Tables 5b and 5c show that MP’s Boswell units have operated at a higher percentage of hours at net cost in 2024 than in the prior 3 years. Tables 6b and 6c show the same for OTP’s units. The equivalent data for Xcel’s units shows some at a high level (Sherco 3) and others relatively low (King) for 2024.
- Tables 8 to 11 do not show a clear trend in the utilities’ EFOR data for 2024.
- Table 13 shows that the avoided carbon dioxide emissions for 2024 are substantial.
- Table 14 shows the utilities experienced high levels of curtailment in 2024.

Overall, the Department recommends that the Commission accept the utilities’ reports

*E. USE GOING FORWARD*

The third topic open for comment is “How should the Commission use the information provided by the utilities in this docket going forward?”

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<sup>45</sup> MP Report at Attachment 3, OTP Report at Attachment 7, Xcel Report at Attachment F, and Prior Department Comments.

The Department recommends that the Commission use the information provided in this proceeding to ensure that the utilities do not engage in practices that increase costs unnecessarily.

*F. FURTHER ANALYSIS*

The fourth topic open for comment is “Should the Commission order any further analysis for future reports, or any additional reports by the utilities?”

The Department does not recommend any further analysis or reporting.

**IV. DEPARTMENT RECOMMENDATIONS**

Based on analysis of the information in the record this year and in prior years, the Department has prepared recommendations, which are provided below. The recommendations correspond to the subheadings of Section III above.

*B. COMPLETENESS REVIEW*

- The Department recommends Xcel, in reply comments, indicate where information regarding instances when greater economic commitment led to lost revenue is located or provide the information.

*C. ANALYSIS OF THE DATA*

- The Department recommends the best case/worst case reporting requirement be discontinued.

*D. CONCLUSIONS FROM THE DATA*

- The Department recommends that the Commission accept the utilities’ reports.