STATE OF MINNESOTA BEFORE THE OFFICE OF ADMINISTRATIVE HEARINGS

FOR THE MINNESOTA PUBLIC UTILITIES COMMISSION

In the Matter of the Application of Minnesota Power for a Certificate of Need for the HVDC Modernization Project in Hermantown, Saint Louis County;

In the Matter of the Application of Minnesota Power for a Route Permit for a High Voltage Transmission Line for the HVDC Modernization Project in Hermantown, Saint Louis County. OAH 5-2500-39600 MPUC E-015/CN-22-607 MPUC E-015/TL-22-611

REBUTTAL TESTIMONY OF ROBERT MCKEE

I. INTRODUCTION AND QUALIFICATIONS

- 2 Q. Please state your name, employer, title, and business address.
- 3 A. My name is Robert McKee. I am employed by ATC Management, Inc., the corporate
- 4 manager of American Transmission Company LLC (collectively, ATC). My job title is
- 5 Strategic Projects and Execution Director and my business address is 2485 Rinden Road,
- 6 Cottage Grove, WI 53527.
- 7 Q. Are you the same Robert McKee who filed direct testimony in this proceeding on
- **8** behalf of ATC in support of its Arrowhead Substation Alternative?
- 9 A. Yes.

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10 Q. What is the purpose of your rebuttal testimony?

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1 My rebuttal testimony responds to the direct testimony filed by Minnesota Power (MP), A. 2 the Minnesota Department of Commerce – Division of Energy Resources (DOC-DER), and the Large Power Intervenors (LPI). My rebuttal testimony: 3 • Corrects certain statements made by MP regarding ATC, the history of 4 5 discussions between ATC and MP regarding the Project and the Arrowhead 6 Substation Alternative, and the Midcontinent Independent System Operator 7 (MISO) planning process; Responds to certain of the concerns raised by MP regarding the Arrowhead 8 9 Substation Alternative; and 10 Addresses the requirements MP asks the Commission to place on ATC if it 11 approves the Arrowhead Substation Alternative. 12 I also introduce ATC's other rebuttal witnesses and identify the issues they address in their 13 testimonies. 14 Are you sponsoring any exhibits in support of your testimony? Q. 15 A. Yes. I attach the following Rebuttal Schedule: 16 Rebuttal Schedule 1 – E-mail correspondence between ATC and MP, August 2023. II. OVERALL RESPONSE TO MINNESOTA POWER TESTIMONY 17 18 Q. Before addressing specific issues raised in the other parties' testimonies, do you have any general concerns or observations regarding the direct testimony provided by 19 20 Minnesota Power?

¹ While LPI, a consortium of MP's largest industrial customers, provided direct testimony that raised concerns regarding MP's proposed overall Project, LPI did not directly address the Arrowhead Substation Alternative. Should LPI raise new issues with respect to ATC or the Arrowhead Substation Alternative in its Rebuttal Testimony, ATC may seek the opportunity to respond.

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Yes. I am concerned that Minnesota Power has not painted a full or accurate picture regarding several important matters, including regarding ATC, our discussions with MP, ATC's and MP's interactions with MISO, and the MISO planning process. I am particularly concerned that the testimony filed by MP witnesses Dan Gunderson and Christian Winter distorts the history of ATC's advocacy of the Arrowhead Substation Alternative since October of 2022; at times, it appears designed to blame ATC for problems of MP's creation because of the overall approach it chose to implement to connect the upgraded Square Butte HVDC converter station in Minnesota to the AC system. For example, Mr. Gunderson characterizes ATC as not working cooperatively with MP and bringing the Arrowhead Substation Alternative forward late in the game, thereby purportedly threatening both the in-service date of the Project and potential state and federal funding. Specifically, Mr. Gunderson claims "ATC has only just proposed its alternative for the 345 kV interconnection infrastructure as of September 2023." Similarly, he states "ATC has not engaged meaningfully with Minnesota Power to coordinate or plan for the [Arrowhead Substation Alternative]. The communication and minimal planning information that ATC has shared with Minnesota Power has primarily taken place through the regulatory process." While I understand that Mr. Gunderson might not have been as involved in the ongoing communications between ATC and MP as others at Minnesota Power, including Vice President of Strategy and Planning Julie Pierce, Mr. Gunderson's testimony is misleading.

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² Gunderson Direct, p. 20.

³ Gunderson Direct, pp. 22-23.

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As I discussed at pages 10-12 of my direct testimony and in Schedule 1, ATC and MP discussed the Arrowhead Substation Alternative multiple times between September 2022 and September 2023. Moreover, along with Ms. Pierce, Mr. Gunderson himself participated in a February 7, 2023 conversation with Tom Dagenais and me on behalf of ATC, concerning the HVDC Modernization Project and development at ATC's Arrowhead 345/230 kV Substation. During that discussion, MP discussed its plans for the HVDC Line and the need to upgrade the converter stations. ATC again conveyed that its Arrowhead 345/230 kV Substation should be utilized to support this Project, but agreed, at MP's request, to further discussions with MP and MISO concerning overall HVDC development. Both MP and ATC also expressed the desire to work together, and MP indicated that it notified the Commission that it would file a certificate of need application for the Project in the future. However, MP at that time did not mention that on November 30, 2022, it had stated in its Request for Exemptions from Certain Certificate of Need Application Requirements ("Request for Exemptions") that "the Project would require the construction of a new St Louis County 345 kilovolt ("kV")/230 kV substation located less than one mile west of the current Arrowhead Substation"⁴ – i.e., at that time, and from MP's perspective, it was a foregone conclusion that MP was constructing the St. Louis County substation and interconnecting the upgraded Square Butte converter station to it.

Mr. Winter also presents an incomplete summary of the interactions between ATC and MP. Referring to the September 23, 2022 meeting I discuss in my direct testimony at page 10, Mr. Winter states that, at that time, MP "was still considering options to

⁴ Request for Exemptions at 1 (Nov. 30, 2022) (eDocket No. 202211-190996-01) (Emphasis added).

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interconnect the HVDC System to the local or regional transmission system: either the MP Arrowhead 230 kV/115 kV Substation or the ATC Arrowhead 345 kV/230 kV Substation."⁵ In fact, regarding this interconnection, MP indicated [NON-PUBLIC INFORMATION BEGINS

8 NON-PUBLIC

INFORMATION ENDS].⁶ At that time, ATC had no reason to anticipate immediate development of the duplicative St. Louis County Substation, and ATC expected to work collaboratively with MP to determine the best course forward. That kind of collaborative effort would have been consistent with the past course of business between ATC and fellow transmission owners, including MP. However, by October 10, 2022, MP indicated it was considering an entirely new substation. By October 14, 2022, MP informed ATC that it intended to pursue this new substation and, by October 17, MP was asking MISO to evaluate how this proposed new substation could be further interconnected with the surrounding transmission system in the process to identify the Tranche 2 regional portfolio of the Long-Range Transmission Planning effort.

As Mr. Winter acknowledged, this marked a dramatic change of course in the span of just a couple of weeks. In email correspondence dated August 28, 2023, Mr. Winter stated:

⁵ Winter Direct, p. 54, citing Winter Direct, Schedule 24.

⁶ Winter Direct, Schedule 24, pp. 6-7 (marked by MP as "NON-PUBLIC DOCUMENT TRADE SECRET IN ITS ENTIRETY").

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having discussions with you about the interconnection configuration of our HVDC Modernization Project, so I have compiled some of the technical rationale behind that decision-making in order to share it with you. Admittedly, we probably should have been more straightforward about that at the time. So, while Mr. Winter now chides ATC for not being forthcoming with information regarding the Arrowhead Substation Alternative, MP was certainly not forthcoming with its rationale for reversing course and abandoning the idea of leveraging the existing ATC Arrowhead Substation. In fact, MP did not fully describe its rationale for proposing the St. Louis County substation until after ATC intervened in this docket—in a September 23, 2023 call. Had MP been more forthcoming with its plan, rationale and analysis earlier, ATC would have been in a position to respond and further demonstrate the benefits of the Arrowhead Substation Alternative, potentially avoiding the need to intervene in this

I recognize that MP shifted gears a bit abruptly last fall as we were

Finally, I would note that it appears MP has not been transparent about its plans with other key stakeholders either. As LPI witness Kavita Maini testifies:

proceeding. Moreover, in his criticisms of ATC, Mr. Winter ignores the discussions

between ATC and MP in both February and August of 2023 and discussions involving

ATC, MP and MISO in October of 2022 and July of 2023 regarding the ability of the ATC

Minnesota Power has not been transparent to its customers about its intentions to propose such a large project as this one. ... It is worth noting that there has been little to no dialogue on this Project between Minnesota Power and its large customers, yet Minnesota Power previously engaged stakeholders in advance of its last

Arrowhead Substation to provide the necessary interconnection for the Project.

⁷ See Rebuttal Schedule 1, attached.

⁸ Winter Direct, p. 58 ("It was only after ATC's proposal of the ATC Arrowhead Alternative on September 15, 2023, by filing comments in this proceeding, that Minnesota Power was able to get a meeting with ATC representatives to elaborate on its technical and practical concerns with moving the point of interconnection for its HVDC System to the ATC Arrowhead 345 kV/230 kV Substation.")

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resource plan and is on the verge of restarting that stakeholder process for its next resource plan to be filed in 2025.9

MP may be frustrated that others are now raising concerns or offering alternatives to MP's proposal in this regulatory setting. However, it is MP that decided to push this docket and the proposal to build the St. Louis County substation forward, putting ATC and others such as LPI in the unfortunate position of intervening in this proceeding, rather than working through these issues in a collaborative stakeholder process.

Overall, I am concerned that Minnesota Power presents an incomplete and inaccurate picture regarding several important matters, including in its description of ATC, our discussions with MP, ATC's and MP's interactions with MISO and the MISO planning process, the comparative costs and other impacts of MP's and ATC's proposals, the alleged risk of delay, including Mr. Gunderson's concerns about the need for a new transmissionto-transmission interconnection agreement, alleged risks of the loss of funding and the alleged benefits to Wisconsin if the Arrowhead Substation Alternative is chosen by the Commission. To clarify the record, I address the issues related to ATC, our discussions with MP, our interactions with MISO and the MISO planning process, and the transmission-to-transmission interconnection agreement. I will also introduce the other ATC witnesses who will address the remaining issues and concerns raised by MP. As these witnesses demonstrate, MP's concerns with the Arrowhead Substation Alternative lack The record developed in this proceeding demonstrates that the Arrowhead Substation Alternative: (1) avoids the need to build a new substation less than one mile from the existing ATC Arrowhead Substation; (2) meets the purpose and need of the

⁹ Maini Direct, p. 23.

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1 Project, while also providing efficiency and reliability benefits when compared to MP's 2 proposal; and (3) imposes fewer costs and environmental and human impacts than MP's 3 proposal. Therefore, ATC continues to request that the Commission grant MP a certificate 4 of need for the Project, modified to include the Arrowhead Substation Alternative. 5 III. ATC AND ITS MINNESOTA TRANSMISSION ASSETS 6 Q. In his direct testimony at page 7, MP witness Mr. Gunderson suggests that ATC was 7 created some time after WEC Energy Group's acquisition of Wisconsin Public Service, stating that "Wisconsin Public Service . . . was acquired by what is now WEC 8 9 Energy Group in 2007, eventually creating ATC." Is that correct? 10 No. ATC was formed in 2001, following a 1999 act of the Wisconsin legislature. ATC's A. 11 creation had no relationship to the acquisition of Wisconsin Public Service by WE Energies 12 (now WEC Energy Group), which occurred in 2015. Q. Can you further explain the creation of ATC, its current business and ownership 13 14 structure and its transmission assets? 15 ATC was officially formed in January 2001 as a limited liability corporation (LLC) under A. 16 Wisconsin law. As an LLC, ATC is not a traditional vertically integrated "investor-owned 17 utility" (IOU), such as MP, but is a stand-alone transmission only company with member 18 owners that have varying business models. ATC has grown from having five member 19 owners at its inception to now having 26 member-owners, including several IOUs, 20 municipal electric utilities, and electric cooperatives. MP's parent company, ALLETE, Inc. 21 ("ALLETE"), became a partial owner in 2006 and has an approximately eight percent ownership interest in ATC. ATC's assets now include more than 10,000 miles of 22

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transmission lines and more than 580 substations in Minnesota, Wisconsin, Michigan and Illinois.

Q. Has MP accurately characterized ATC's Minnesota assets?

No. MP errs in at least two respects. First, Mr. Gunderson fails to recognize the full extent of ATC's Minnesota assets when he testifies that MP's Arrowhead 230kV/115kV substation is "wholly-owned by Minnesota Power." That is not correct. As ATC witness Mr. Larsen explained in both his direct and rebuttal testimonies, ATC owns certain facilities within the footprint of MP's Arrowhead substation.

Second, Mr. Gunderson claims that "the ATC Arrowhead Substation was built to benefit the Wisconsin AC transmission system and Wisconsin electrical users." In fact, Mr. Gunderson attempts to portray the ATC Arrowhead Substation and the Arrowhead Substation Alternative as providing benefits only to Wisconsin customers. Again, this is simply incorrect. ATC witness Mr. Dagenais addresses the overall system benefits of the Arrowhead Substation Alternative. As for the ATC Arrowhead Substation itself, in the original proceeding regarding the Arrowhead-Weston Project, the Administrative Law Judge found:

The Arrowhead Project will improve the electrical system reliability for consumers in *both* Minnesota and Wisconsin. The existing system of distribution has only one major source of electricity for western Wisconsin from Minnesota, the 345 kV King-Eau Claire-Arpin HVTL (K-EC-A HVTL). The K-EC-A HVTL experienced a significant failure on June 25, 1998 that adversely affected electricity consumers in *both* Wisconsin and Minnesota. Other situations have arisen over the past few years that could have resulted in failures similar to that on June 25, 1998. Adding a second 345 kV connection to the Wisconsin transmission and distribution systems

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¹⁰ Gunderson Direct, p. 6.

¹¹ Gunderson Direct, p. 7.

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1 will reduce the likelihood of such failures and improve the reliability of the electrical system for both Minnesota and Wisconsin consumers. 12 2 3 All customers benefit from sound and collaborative transmission planning and 4 expansion and ATC is proud to own assets that provide benefits to customers in Minnesota, 5 Wisconsin, and the region. Does ATC exercise functional control over its transmission facilities? 6 O. 7 No. Effective February 1, 2002, ATC transferred functional control of its transmission A. 8 facilities to MISO. MISO now provides transmission service over ATC-owned 9 transmission facilities subject to the terms and conditions of the MISO Open Access 10 Transmission, Energy, and Operating Reserve Markets Tariff (Tariff). ATC operates 11 transmission facilities that it owns at MISO's direction. 12 Q. For what purpose was ATC formed? Under Wisconsin Statutes, ATC "has as its sole purpose the planning, constructing, 13 A. operating, maintaining and expanding of transmission facilities, and the providing of 14 15 transmission service, to provide for an adequate and reliable transmission system that

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meets the needs of all users that are dependent on the transmission system and that supports

effective competition in energy markets without favoring any market participant."¹³

Given this sole purpose, Wisconsin Statutes also specify that ATC may not "bypass the

distribution facilities of an electric utility or provide service directly to a retail customer or

Wis. Stats. 196.485(1)(ge) (emphasis added), accessible at https://docs.legis.wisconsin.gov/statutes/196/485

¹² In the Matter of the Exemption Application by Minnesota Power for a 345/230 kV High Voltage Transmission Line Known as the Arrowhead Project, OAH Docket No. 10-2901-12620-2, MEQB Docket No. MP-HVTL-EA-1-99 (January 29, 2001) at Finding 50 (attached to the Direct Testimony of MP witness Christain Winter at Schedule 32) (emphasis added).

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1 member."¹⁴ ATC fulfills its purpose by working to ensure and support an adequate, 2 efficient and reliable transmission system and believes this goal is best achieved through a 3 thoughtful and collaborative transmission planning and development process. 4 How is ATC's purpose advanced by intervening in this proceeding? Q. 5 A. Bringing the Arrowhead Substation Alternative forward is consistent with ATC's statutory 6 purpose. As ATC has maintained since its first discussions with MP regarding the Project, 7 ATC supports responsible and collaborative transmission planning and development that 8 leverages existing facilities as appropriate, to most efficiently and cost-effectively provide 9 adequate and reliable transmission service, reducing costs to customers. In contrast, 10 building a St. Louis County 345/230 kV substation in such close proximity to ATC's 11 Arrowhead 345/230 kV substation would fail to minimize costs, create greater 12 environmental and associated impacts, and result in a duplicative, unnecessary substation facility. 13 14 15 IV. ATC AND MP DISCUSSIONS REGARDING THE PROJECT AND THE 16 ARROWHEAD SUBSTATION ALTERNATIVE 17 18 Q. In his Direct Testimony, Mr. Gunderson frames the Arrowhead Substation Alternative as "an electrical system alternative" proposed by ATC. 15 Has MP always 19 20 viewed it this way?

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No. In fact, as I discussed in my direct testimony and as discussed above, until changing

course over an approximately two-week period in 2022, MP had proposed to interconnect

¹⁴ Wis. Stats. 196.485(3m)(a)2.b., accessible at https://docs.legis.wisconsin.gov/statutes/196/485 https://docs.legis.wisconsin.gov/document/statutes/196.485(3m)(a)2.b

¹⁵ Gunderson Direct, p. 5.

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the Project at the ATC Arrowhead Substation in a very similar way as ATC proposes in this proceeding. Mr. Dagenais discusses this matter from a technical perspective, but I find it odd that MP now describes a modification of the Project consistent with its own initial proposal as an "electrical system alternative" that does not meet the purpose and need of the Project.

- Q. Mr Gunderson and Mr. Winter also discuss the history of discussions between MP and ATC regarding the Project and the potential inclusion of the Arrowhead Substation Alternative in the Project. Have they accurately summarized that history?
- 9 A. No. Throughout their testimonies Mr. Gunderson and Mr. Winter present a limited and therefore inaccurate summary of the discussions regarding the Project and the Arrowhead Substation Alternative, as I mentioned above and demonstrate in more detail below.
- Q. Mr. Gunderson specifically alleges that "ATC has not engaged meaningfully with Minnesota Power to coordinate or plan for the ATC Arrowhead [Substation] Alternative." How do you respond?
 - A. First, I would again note that the Arrowhead Substation Alternative is very similar to what MP and ATC discussed in September 2022, so this is not a new concept. Second, on multiple occasions ATC indicated its concerns with MP's direction and its view that the ATC Arrowhead Substation should be leveraged, including as early as October 2022 in a meeting with MISO that both MP and ATC attended, which included a visual showing the ability of the ATC Arrowhead Substation to accommodate the Project. Third, while MP has ignored our concerns about Arrowhead since announcing its intention to build a new

¹⁶ Gunderson Direct, p. 22.

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- St. Louis County Substation in October 2022, MP has sought ATC's collaboration with it to make the case to MISO about the value of the inclusion of HVDC in the LRTP Tranche 2 portfolio, in which we have been actively engaged. Finally, ATC continues to collaborate with MP on planning issues, including a meeting in February 2024 to discuss the status of Tranche 2 and the possibility of suggesting project ideas together.
- 6 Q. Mr. Winter makes a similar allegation, stating that "ATC did not make any 7 meaningful effort to further engage with Minnesota Power [after October 2022] . . . prior to MP's filing of the Application on June 1, 2023."¹⁷ How do you respond? 8
- 9 A. For the reasons I discussed above and in my direct testimony, including Schedule 1 to that 10 testimony, I do not believe this accurately reflects ATC's efforts. Moreover, "meaningful effort to further engage" requires two parties putting forth that effort. In my view, once 11 12 MP determined to build its own new substation, as Mr. Winter himself testifies, it "dismiss[ed] what has become the [Arrowhead Substation Alternative] without the need to 13 14 complete detailed studies or analytical modeling. Instead, Minnesota Power focused its 15 resources on analyzing and developing the Project in preparation for its submittal," including planning to build the proposed new St. Louis County Substation.¹⁸ 16

IV. HVDC MODERNIZATION PROJECT AND MISO'S PLANNING PROCESS

Q. How do Mr. Gunderson and Mr. Winter discuss the Project and the Arrowhead Substation Alternative as it relates to MISO and the overall transmission planning process?

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¹⁷ Winter Direct, p. 56.

¹⁸ Winter Direct, pp. 56-57.

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A. Mr. Gunderson states that "Minnesota Power has been engaged with MISO throughout the planning process and has paced with MISO on our current plan filed with the Commission" and that MP has coordinated with MISO on long-term planning, particularly regarding the HVDC system. ¹⁹ Mr. Winter testifies that MP's proposed new St. Louis County substation "is MISO's original idea" and that, rather than ATC participating in this proceeding "a better approach would be for ATC to submit its ideas to MISO for consideration in the ongoing LRTP Tranche 2 analysis."21

Q. How do you respond?

I find MP's testimony on the MISO process, as it relates to either the Project as proposed or the Arrowhead Substation Alternative, confusing at best. MP's testimony suggests that its proposal has been fully vetted through the MISO process, while the Arrowhead Substation alternative has not. Mr. Winter even goes so far as to accuse ATC of having "bypassed" the MISO process by proposing the Arrowhead Substation Alternative in this docket. ATC witness Mr. Dagenais discusses this issue in greater detail in his rebuttal testimony. However, I feel compelled to respond as well given my long history of working collaboratively with other transmission owners and MISO representatives in the MISO planning process, including serving as Chair of the MISO Planning Advisory Committee for seven years.

First, to my knowledge, MP's HVDC Modernization Project has not been fully vetted through the collaborative MISO process. The Project is currently listed in Appendix B of the MISO Transmission Expansion Plan (MTEP), meaning that it has not been

²⁰ Winter Direct, p. 46. ²¹ Winter Direct, p. 40.

¹⁹ Gunderson Direct, p. 10.

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formally approved by MISO. The Project is also not included on MISO's list of MP-sponsored projects being reviewed as part of the current MTEP cycle and, as Mr. Dagenais discusses further, it still does not appear that MP has submitted the Project for review and approval through the MTEP process.

Second, MP's suggestion that ATC should have taken the Arrowhead Substation Alternative to MISO and not intervened here is simply incorrect. As the Project proposer, MP has the responsibility for bringing the Project to MISO through the MTEP process. In that process, ATC and other stakeholders could have provided feedback and input, including presenting the Arrowhead Substation Alternative.

Third, to degree that our company had the ability to do so, ATC properly and actively participated in planning processes identified in the MISO tariff in which the Project proposed by MP was addressed, namely (1) the transmission-to-transmission Interconnection process set forth in Attachment FF – ATCLLC Local Planning Process in the MISO Tariff, and (2) MISO's Long Range Transmission Planning (LRTP) effort (see Attachment FF Sec. I.C regarding one of the inputs to the development of the MTEP being "analyses developed by the Transmission Provider to provide for a reliable Transmission System ..."). First, ATC was receptive and sought to collaborate with a neighboring transmission owner's (MP's) request to adjust the interconnection between our facilities, as is routinely done as part of transmission-to-transmission planning efforts between neighboring utilities. Secondly, ATC actively participated in MISO's LRTP Tranche 2 study process and shared with MISO, MP, and other transmission owners our concerns with the proposed Saint Louis County substation, our rationale for those concerns, and our alternative. As indicated in the testimony of both ATC's and MP's witnesses, MP raised

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the proposed Saint Louis County substation in these two planning forums and ATC actively engaged MP in both of them. ATC will continue to participate in the MISO planning process and submit the upgrades to MISO for evaluation and inclusion in MTEP.

Overall, given MP's approach, ATC unfortunately had no realistic alternative to intervening here, to present our view that the Arrowhead Substation Alternative makes the most efficient use of existing transmission facilities, meets the purpose and need of the Project, brings efficiency and reliability benefits to the state and region, and does so at lower cost and with lower environmental and socioeconomic impact than MP's proposal.

IV. OTHER MP CONCERNS AND ATC'S RESPONSE

- Q. Please summarize the additional concerns or issues MP raises regarding the Arrowhead Substation Alternative.
- MP witness Mr. Gunderson discusses the following "risks" MP believes are associated A. with the Arrowhead Substation Alternative: (1) the potential loss of state and federal funding; (2) deliverability and procurement (i.e., meeting the desired in-service date); (3) performance concerns (namely MP's allegation that "ATC has a strong probability of 16 providing a tremendous benefit to Wisconsin ratepayers through increased flows onto their constrained Wisconsin AC transmission system"); (4) the need for a new transmission-totransmission interconnection agreement; and (5) costs and cost recovery. Mr. Gunderson then proposes a series of requirements that he recommends the Commission place on the ATC and the Arrowhead Substation Alternative, if it is approved, to address these alleged "risks." Other MP witness raise certain specific issues that can broadly fall within one of these categories.
 - Q. Do you believe any of MP's concerns are valid?

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- A. No. ATC has already addressed most of MP's concerns in our direct testimony but will provide further discussion, as necessary, in our rebuttal testimony. I would also note that some of these "risks," such as any risk of delay, are risks MP created by approaching this Project in the manner it did, by not fully engaging with stakeholders prior to filing.
- 5 Q. Which of these concerns do you address in your rebuttal testimony?
- A. I address the issue of a new transmission-to-transmission interconnection agreement. I also address the requirements Mr. Gunderson asks the Commission to place on ATC if it approves the Arrowhead Substation Alternative. As I discuss below, other ATC witnesses address the remaining matters.
- Q. MP witness Mr. Gunderson raises concerns that a new transmission-to-transmission interconnection agreement between ATC and MP could "take more than a year to negotiate." Do you see that as a realistic timeline?
- 13 No. As I explained in my direct testimony, ATC, MP and MISO do not need to develop a A. 14 "new" agreement. Rather, if the Commission approves the Arrowhead Substation 15 Alternative, ATC, MP, and MISO would need to amend that agreement by editing 16 Appendix A, "Points of Interconnection," which is a two-page document appended to the 17 existing agreement that describes the various facilities owned, operated, and maintained by 18 either utility at their respective Arrowhead substations. This appendix would be edited to 19 describe the facilities approved by the Commission in this proceeding, which utility is responsible for owning, operating, and maintaining those facilities, and a "one-line" 20 21 diagram depicting the updated facilities. This is a straightforward process that can be

²² Gunderson Direct, p. 28.

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completed in far less time than Mr. Gunderson suggests, and the regulatory review process is similarly straightforward. For example, in FERC Docket No. ER19-2409, ATC and Dairyland Power filed a change in their transmission-to-transmission interconnection agreement in mid-July 2019 and received a letter order approving that change less than one Similarly, the transmission-to-transmission interconnection agreement between ATC, Xcel Energy, Dairyland Power, SMMPA and WPPI for the Badger-Coulee line (Briggs Road to North Madison) was filed in mid-November, 2015 in FERC Docket No. ER16-340 and the order was received the first week of January, 2016. It is ATC's experience that the time it takes for parties to negotiate an interconnection agreement depends on such factors as the complexity of the matter and the priority the parties place on it. As ATC has conveyed throughout our testimony and I have previously stated, this is a relatively straightforward interconnection, so I see no impediment to quickly revising the agreement. To ensure that the parties place the adequate level of focus on the negotiations, ATC proposes that the Commission include a condition in its order requiring MP and ATC to file the necessary revisions to the transmission-to-transmission interconnection agreement with the Federal Energy Regulatory Commission ("FERC") within 90 days of the order, or once updated one-line diagrams are available.

Q. Mr. Gunderson also asks the Commission to place several requirements on ATC if it approves the Arrowhead Substation Alternative.²³ How does ATC respond to these proposed requirements?

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²³ Gunderson Direct, pp. 34-36.

- A. With respect to certain of its requests, MP appears to ask the Commission to hold ATC more accountable, for a relatively small portion of the overall HVDC Project, than MP offers to hold itself. If the Arrowhead Substation Alternative is selected, ATC would adhere to the Commission's order points and Minnesota statutes and regulations. However, certain of MP's requests are inappropriate and, if the Commission orders implementation of the Arrowhead Substation Alternative, can be incorporated into the construction agreement the parties will need to execute to construct the necessary upgrades. I discuss each of Mr. Gunderson's recommended order points in turn, as set forth in Mr. Gunderson's direct testimony.
 - 1. "Affirming the ownership of the various equipment necessary" for the Project.²⁴ As mentioned, if the Commission modifies the Project to include the Arrowhead Substation Alternative, ATC and MP would enter into a construction agreement for the network upgrades and amend the interconnection agreement and both of these would address this issue.
 - 2. "Affirming that ATC is subject to all Certificate of Need and Route Permit standard and project-specific conditions."

ATC will adhere to the Commission's order. I also note that, if the Arrowhead Substation Alternative is implemented, ATC will own the network upgrades to its Arrowhead Substation, while MP will own the double-circuit 345 kV transmission line that is included in the Arrowhead Substation Alternative and will determine who constructs that line.

²⁴ Gunderson Direct, p. 34-35

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Therefore, MP would be responsible for ensuring compliance with any related projectspecific conditions.

3. "ATC must comply with all compliance requirements set forth in the Cooperative Agreement for the federal grant from the DOC" and, in the event any ATC action or inaction causes a loss in funding, ATC must provide the financial support necessary to make up for that loss.

ATC objects to this proposed condition. Should MP ultimately be awarded any federal grant money, the agreement memorializing that award will be executed between the Department of Energy (DOE) and MP, not ATC; as such, ATC will not have the opportunity to propose changes or revisions to potentially objectionable or problematic terms. Moreover, to ATC's knowledge, no such award document exists at this time; it makes little sense to require ATC to adhere to an agreement over which it will have no negotiating power and that it has not yet even been able to review. As Mr. Gunderson acknowledges, to date, the Project has simply "been recommended ... for negotiation of a financial award. The notification letter further stated the notification does not guarantee federal funding, as funding will only be obligated upon completion of successful negotiations. Receipt of the notification letter does not authorize the Company to commence with performance of the concept. Only an award document signed by the Contracting Officer obligates DOE to provide the awarded reimbursements under the grant program." While it will not be a party to any award document, if signed, ATC would

²⁵ ATC requested that MP provide a copy of the current draft of the cooperative agreement between it and the Department of Energy for the first round of DOE GRIP funding, but MP indicated that it does not yet have a copy of that agreement.

²⁶ Gunderson Direct, p. 16 (emphasis added).

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1 cooperate with MP to the degree to which we are involved in the project—i.e., completion 2 of the network upgrades to our Arrowhead Substation—to ensure compliance with all 3 relevant terms and compliance requirements. 4 MP's suggestion that ATC be required to "provide the financial support to make up 5 for any loss of funding" that results from any "ATC action or inaction" is also nonsensical. 6 The language proposed by MP for this condition is too vague to be practically 7 implemented. In any event, MP is the entity that will ultimately be responsible for 8 complying with the terms of its agreement with DOE to ensure it receives the requested 9 funding. 10 4. "ATC [must] agree that Minnesota Power be granted any and all independent audit 11 right's related to ATC's construction, procurement and contracting activities." 12 ATC objects to this proposed condition. ATC is unaware of any regulatory proceeding where one business entity has been required to grant "independent audit rights" to another 13 14 business entity, essentially putting that entity in the position of being a regulator, and does 15 not believe such a novel requirement is appropriate here. In any order approving the 16 Arrowhead Substation Alternative, ATC will provide any compliance filings to the 17 Commission, if the Commission so specifies. 18 5. "ATC shall be responsible for any replacement power costs incurred in the event 19 ATC requires outages of any [MP] DC or AC transmission facilities longer than 20 the estimates provided by ATC in this proceeding." 21 ATC objects to this condition. In ATC's experience, the construction of new transmission

assets often requires crossings of—and therefore, outages to—other utility transmission or

distribution lines to ensure that the new asset can be safely constructed. To ATC's

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knowledge, no regulatory body has required ATC to essentially indemnify another utility for replacement power costs resulting from an outage to their existing facilities. It would be unprecedented if the Commission were to impose such a condition here. Moreover, MP's proposed condition is too vague and would be very difficult, if not impossible, to implement at a practical level. MP does not specify how these "replacement power costs" would be calculated, and in any event, any such "replacement power costs" must be analyzed once the facts surrounding those costs, and the causal factors behind them, are known. As such, this condition—essentially a pre-determination of causality—is not appropriate. Moreover, MP offers no similar condition that its shareholders will be responsible for any replacement power costs in the event of longer than estimated outages times should its proposal be approved.

6. "ATC shall provide monthly project status and cost updates to Minnesota Power with the first update to be provided no later than fourteen days after the date of the Commission order."

ATC objects to this condition because MP appears to seek to position itself—rather than the Commission—as ATC's regulator. ATC will provide any compliance filings to the Commission as required, and will coordinate with MP as needed to ensure safe and timely development and construction of the Arrowhead Substation Alternative.

7. A condition that "any cost overruns from estimates provided in the proceeding for the 345 kV interconnection be recoverable in the TCR and when the Company moves the HVDC Modernization Project to base rates." In the event the Commission approves the Arrowhead Substation Alternative, MP asks the Commission to prohibit MP from paying ATC (or ATC charging MP) any amount

related to the ATC Arrowhead Substation Alternative in excess of the estimate ATC provided in this proceeding.

ATC objects to this condition. It appears that MP seeks to assure itself of full recovery of the costs associated with the Arrowhead Substation Alternative, regardless of the size of any cost overrun, while prohibiting any such recovery by ATC. Again, should the Arrowhead Substation Alternative be approved, MP and ATC will work cooperatively to construct the alternative as efficiently and cost-effectively as possible, in order to minimize costs to customers. Also, MP will be directly engaged in much of this work, given its ownership of both the 345 kV transmission line included in the Arrowhead Substation Alternative, and its ownership of the Arrowhead 230 kV/115 kV Substation. Moreover, MP ignores that amendments to the transmission-to-transmission interconnection agreement and the facilities construction agreement—including the cost recovery related to ATC's Network Upgrades at the Arrowhead Substation—must be filed with and approved by FERC and MP's obligation to ATC is a product of those agreements and the MISO Tariff, also within FERC's exclusive jurisdiction.²⁷ For these reasons, MP's requested requirement is neither appropriate nor necessary.

IV. ATC'S REBUTTAL WITNESSES

- Q. Please identify the other rebuttal ATC witnesses and the issues they address.
- A. In addition to my testimony, ATC is providing Rebuttal Testimony from the same witnesses who filed Direct Testimony in this proceeding. Those witnesses, and the topics they address, are:

²⁷ In fact, because these agreements must be approved by FERC, MP's proposal may raise jurisdictional issues that the attorneys may address in briefing.

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Thomas Dagenais, Director - System Planning, discusses the MISO planning 1 2 process in greater detail and addresses MP's claims of "performance" risks 3 associated with the Arrowhead Substation Alternative, demonstrating the lack of 4 merit behind any such claims; 5 Tobin Larsen, Team Leader – Contracted Engineering Services, corrects MP's 6 testimony regarding ownership of the current assets at MP's Arrowhead substation, 7 and addresses the ability of ATC's Arrowhead Substation to accommodate the Project and future long-term transmission additions, should they come to fruition; 8 9 Dustin Johanek, Consultant Project Manager, addresses ATC's ability to procure 10 the necessary equipment in a timely manner, to meet the Project's in-service date 11 and also addresses the reasonableness of ATC's cost estimate and the excessive 12 costs MP alleges would be associated with the Arrowhead Substation Alternative; 13 Amy Lee, Principal Environmental and Regulatory Advisor, addresses the 14 environmental impacts associated with MP's proposal and the Arrowhead Substation Alternative; and. 15 16 Michael Bradley, Consultant Transmission Line Engineer, discusses the route 17 selection process associated with the transmission line portion of the Arrowhead 18 Substation Alternative. 19 Again, these witnesses demonstrate that ATC's proposed modification of the Project to 20 include the Arrowhead Substation Alternative meets the Project's purpose and need and 21 will do so in a timely manner and at lower cost and with fewer impacts than the MP 22 proposal to build an entirely new 345/230 kV substation. Therefore, we ask that the

Commission grant MP's request for a Certificate of Need and Route Permit, modified to

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- incorporate the Arrowhead Substation Alternative, including the approval of the route as
- 2 proposed by ATC.
- 3 Q. Does that conclude your testimony?
- 4 A. Yes, it does.