



A Subsidiary of MDU Resources Group, Inc.

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September 6, 2023

Executive Secretary
North Dakota Public Service Commission
State Capitol Building
Bismarck, ND 58505-0480

Re: Electric Service Agreement – MISO Market Study Report Status
Case No. PU-22-371

Montana-Dakota Utilities Co. (Montana-Dakota) herewith electronically submits to the North Dakota Public Service Commission (Commission) the status of the MISO Market Study report. Paragraph 4 of the Settlement Agreement terms, which was approved by the Commission on June 6, 2023 in the above referenced case, states “The Settling Parties agree Montana-Dakota will work with the Commission Staff to conduct a one-time informational MISO Market study regarding the area LMP pricing impacts of the 180 MW of data center load addition into the Ellendale area on ND ratepayers’ fuel and purchased power costs. The details of the study will be worked out and agreed upon between Montana-Dakota and Commission Staff within 90 days of acceptance of this Settlement Agreement by the Commission.”

Montana-Dakota now reports that it entered into an agreement with 1898 & Co. (1898) on August 11, 2023 to conduct the informational MISO Market Study regarding the MISO LMP pricing impacts of the 180 MW Applied Digital Ellendale Data Center load addition on Montana-Dakota’s other North Dakota ratepayers’ fuel and purchase power costs as described above. Adam Renfandt with the Commission staff was involved in the process to identify a consultant to conduct the study. Adam participated in the study kickoff call with 1898 on August 21, 2023. 1898 is planning to use a MISO MTEP 2021 Future 1 2025 model, reverted to 2024, to represent the MISO System in Montana-Dakota’s electric service territory. PROMOD will be used to run the economic study to produce a with and without data center MISO 2024 LMP cost for Montana-Dakota’s other integrated system load. Draft results of the study are expected by the end of September 2023 with a final report produced the middle of October 2023.

Montana-Dakota will utilize the 1898 study results with its Plexos economic dispatch software to calculate a 2024 fuel and purchase power cost for Montana-Dakota’s other North Dakota ratepayers with and without the 180 MW Applied Digital Ellendale Data Center. Two additional sensitivities will also be run as part of the 1898 study to include (1) an additional 180 MW data center load at Ellendale and (2) an additional 180 MW

data center load at Ellendale plus a 100 MWs of data center load located at the Tatanka Wind Project.

Please contact me at (701) 222-7855 or at travis.jacobson@mdu.com with any questions regarding this filing.

Sincerely,

/s/ Travis R. Jacobson

Travis R. Jacobson
Director of Regulatory Affairs