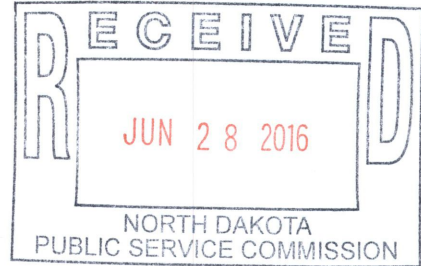


June 28, 2016

**VIA E-MAIL AND FEDERAL EXPRESS**

Mr. Darrell Nitschke  
Executive Secretary  
North Dakota Public Service Commission  
600 E. Boulevard, Dept. 408  
Bismarck, ND 58505-0480



**RE: M-Power One, LLC's Ten Year Plan for 2016-2026  
Case No. PU-16-\_\_\_\_\_**

Dear Mr. Nitschke:

Enclosed for filing are originals of the following documents:

1. M-Power One, LLC's Ten Year Plan: 2016-2026;
2. Notice of Filing Ten Year Plan: 2016-2026; and
3. Certificate of Service.

Electronic copies of the enclosed documents were filed with the Commission today via e-mail. If you have any questions, please let me know.

Sincerely,

MOLLIE M. SMITH

MMS/kas  
Enclosures

58832309\_1.DOC

Attorneys & Advisors  
main 612.492.7000  
fax 612.492.7077  
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Fredrikson & Byron, P.A.  
200 South Sixth  
Minneapolis, Mi 55402-1425

**TEN YEAR PLAN: 2016-2026**  
**M-Power One, LLC**

**June 2016**

In accordance with N.D.C.C. § 49-22-04 and N.D.A.C. Ch. 69-06-02, M-Power One, LLC (“M-Power One”), submits the following Ten Year Plan for years 2016 through 2026.

- (1) A description of the general location, size, and type of all facilities to be owned or operated by the utility during the ensuing ten years, as well as those facilities to be removed from service during the ten-year period.

M-Power One is a North Dakota limited liability company and a wholly owned subsidiary of M-Power, LLC. M-Power One plans to develop an energy conversion facility in Steele County, North Dakota, that will be known as the Luverne Northfield Extension Wind Energy Project (“Project”). The Project will be adjacent to and north of the existing Luverne Wind Farm, which is located in Griggs and Steele Counties, North Dakota. The maximum potential wind energy capacity for the area currently under wind development easements is estimated to be 155.2 megawatts (“MW”). The final developed capacity will depend upon the ultimate selection of specific turbines. M-Power One plans to begin construction of the initial phase of the Project before the end of 2017, with an anticipated in-service date before the end of 2020.

A generation-outlet transmission facility (230 kilovolt (“kV”) or less) may need to be constructed in order to interconnect the Project to the grid. The necessity for, location of and design details regarding such a transmission facility will be determined at a future date, pending the selection of the final transmission interconnection option.

M-Power One does not have any plans to construct, own or operate any generation or transmission facilities other than the Project and associated generation-outlet transmission facility. M-Power One does not currently own or operate any facilities. As such, M-Power One does not own or operate any facilities that will be removed from service during the next ten years.

- (2) An identification of the location of the tentative preferred site for all energy conversion facilities and the tentative location of all transmission facilities on which construction is intended to be commenced within the ensuing five years and such other information as may be required by the commission. The site and corridor identification shall be made in compliance with the criteria published by the commission pursuant to section 49-22-05.1.

As noted above, M-Power One plans to pursue development of the Project in Steele County, North Dakota, and proposes to have the Project constructed and in-service before the end of 2020. M-Power One also plans to construct a generation-outlet transmission facility, and

specific details regarding the facility location will be determined upon selection of the final interconnection point. As discussed further below, the Otter Tail Power Company (“OTP”) Colgate 41.6 kV Substation in Cass County, North Dakota, is a potential point of interconnection for the Project, but other interconnection points are being studied.

M-Power One has retained a qualified environmental consulting firm to evaluate the site selected for the proposed Project so as to ensure compliance with the exclusion and avoidance area criteria referenced in N.D.C.C. § 49-22-05.1 and identified in N.D.A.C. Ch. 69-06-08. A map depicting the study area for the Project is attached as **Exhibit A**.

- (3) A description of the efforts by the utility to coordinate the plan with other utilities so as to provide a coordinated regional plan for meeting the utility needs of the region.

On August 20, 2011, M-Power One’s parent company, M-Power, LLC, submitted an amended application for interconnection of 50 MW of wind generation at the OTP Colgate 41.6 kV Substation in Cass County, North Dakota, to the Midcontinent Independent System Operator (“MISO”). The interconnection request is currently in MISO’s System Planning and Analysis (“SPA”) phase.

On May 4, 2016, M-Power, LLC, on behalf of M-Power One, filed a transmission interconnection request for a Large Generating Facility with Minnkota Power Cooperative (“Minnkota”) for 151.8 MW of capacity on its 230 kV Pillsbury-Maple River transmission line. The application for the request to Minnkota was declared complete on May 4, 2016, and the study is currently underway.

M-Power One has also commissioned a study to determine which regional utilities may have a need for the wind energy capacity produced by the Project, and to identify various options for transmitting the Project’s output from the Project site to the identified utilities’ respective loads. The study will assist M-Power One in identifying potential off-takers, as well as in its efforts to coordinate selection of the best option(s) for delivering the Project’s output to the destination(s) designated by the ultimate off-taker(s).

- (4) A description of the efforts to involve environmental protection and land-use planning agencies in the planning process, as well as other efforts to identify and minimize environmental problems at the earliest possible stage in the planning process.

As noted above, M-Power One has employed a qualified environmental consulting firm to conduct a study of and identify avoidance and exclusion areas within the potential Project site, in accordance with N.D.C.C. Ch. 49-22 and N.D.A.C. Ch. 69-06-08. In addition, the consultant is to identify any areas of concern that would need special attention during siting and/or facility

construction. To date, no environmental or siting concerns have been identified that would preclude development within the footprint.

M-Power One has been in contact with the United States Fish and Wildlife Service, the Federal Aviation Administration (“FAA”), the North Dakota Game and Fish Department, and township officials, among others, regarding the proposed Project. Riverside and Greenville Townships granted Conditional Use Permits for the Project on March 17, 2015, and April 15, 2015, respectively. M-Power One received Determinations of No Hazard from the FAA on a preliminary turbine array. Once M-Power One’s initial environmental studies have been completed, M-Power One will engage in further consultation with federal, state and local agencies and governmental units to seek additional input regarding the proposed Project.

- (5) A statement of the projected demand for the service rendered by the utility for the ensuing ten years and the underlying assumptions for the projection, with that information being as geographically specific as possible, and a description of the manner and extent to which the utility will meet the projected demands.

M-Power One plans to sell the energy produced by its proposed Project to one or more utilities that need additional renewable energy in order to comply with state and/or, if applicable, federal renewable energy standards and objectives.

In 2007, the North Dakota Legislature enacted a statutory provision adopting the national “25x25” initiative, which establishes a goal of having not less than twenty-five percent of the total energy consumed within the United States come from renewable resources by January 1, 2025.<sup>1</sup> Additional renewable resources will be needed to meet the 25x25 initiative.

A need also exists for renewable energy produced in North Dakota to meet state renewable portfolio standards. Eleven of the MISO states currently have renewable portfolio standards, and utilities subject to the Minnesota renewable energy standard estimate that they will require additional renewable generation to meet renewable energy requirements in Minnesota and other states.<sup>2</sup> Under current state standards, total United States renewable portfolio standard demand will increase from 215 terawatt hours (“TWh”) in 2015 to 431 TWh in 2030.<sup>3</sup> Given existing renewable energy capacity, renewable portfolio standard demand growth will require an additional 22 gigawatt (“GW”) of capacity by 2020 and 60 GW by 2030.<sup>4</sup> In addition, the regional transmission grid is being expanded to deliver wind generation in a cost-effective manner; specifically, MISO’s Multi-Value Project (“MVP”) Portfolio enables 43

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<sup>1</sup> See N.D.C.C. § 17-01-01.

<sup>2</sup> *2015 Biennial Transmission Projects Report*, MPUC Docket No. E999/M-15-439 (Oct. 30, 2015), at 138-39.

<sup>3</sup> Lawrence Berkeley National Laboratory, *U.S. Renewables Portfolio Standards: 2016 Annual Status Report* (April 2016), at 17.

<sup>4</sup> *Id.* at 20.

million megawatt hours (“MWh”) of wind energy to meet renewable energy mandates and goals through 2028.<sup>5</sup>

Given the geographic proximity of M-Power One’s proposed Project to the Minnesota market, and M-Power, LLC’s existing MISO interconnect request, energy from the proposed Project may be utilized to meet the existing renewable energy needs of one or more utilities in the MISO region, as well as other utilities located in adjacent Regional Transmission Organizations (“RTO”)/Independent System Operators (“ISO”), such as Southwest Power Pool (“SPP”), Western Area Power Administration (“WAPA”), Pennsylvania, Jersey Maryland Power Pool (“PJM”), or Tennessee Valley Authority (“TVA”).

Thus, the renewable energy produced by M-Power One’s proposed Project will help meet a significant need for renewable energy.

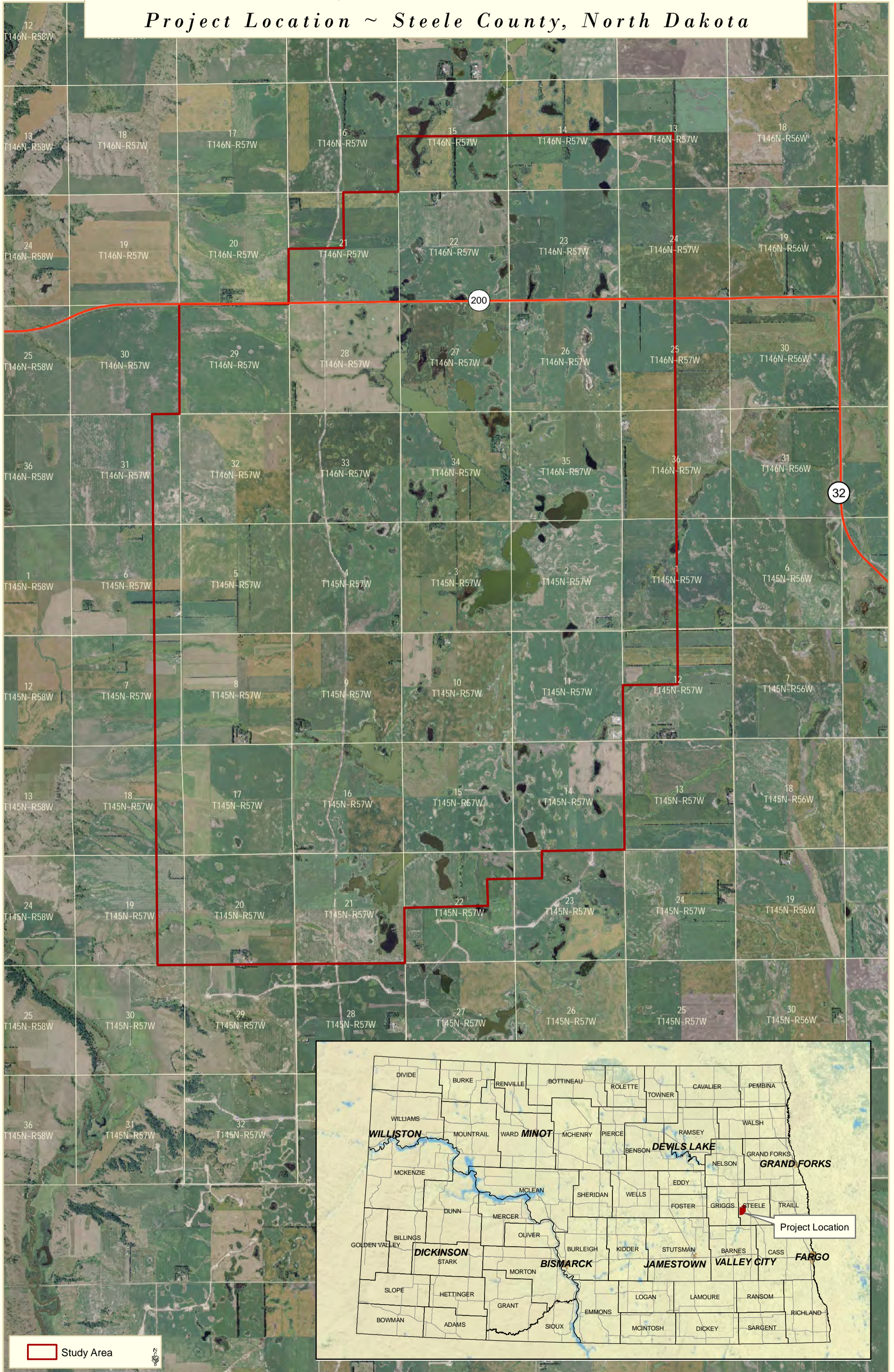
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<sup>5</sup> *MTEP14 MVP Triennial Review* (Sept. 2014), at 1-2.

# Luverne Northfield Extension Wind Farm

## Project Location ~ Steele County, North Dakota



Study Area

STATE OF NORTH DAKOTA  
PUBLIC SERVICE COMMISSION

Case No. PU-16-\_\_\_\_\_

IN THE MATTER OF THE FILING OF A TEN  
YEAR PLAN BY M-POWER ONE, LLC

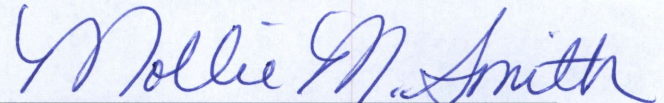
**NOTICE OF FILING TEN YEAR PLAN  
2016-2026**

**PLEASE TAKE NOTICE** that M-Power One, LLC, in accordance with N.D.C.C. § 49-22-04 and N.D.A.C. Ch. 69-06-02, filed a Ten Year Plan for the years 2016 through 2026 with the North Dakota Public Service Commission on June 28, 2016, and the Steele County Auditor on June 28, 2016.

Dated this 28th day of June, 2016.

FREDRIKSON & BYRON, P.A.

By



MOLLIE M. SMITH, ND Bar #06714  
*Attorneys for M-Power One, LLC*  
200 South Sixth Street, Suite 4000  
Minneapolis, MN 55402-1425  
(612) 492-7270

**CERTIFICATE OF SERVICE**

I, the undersigned, hereby certify that a true and correct copy of the following document:

**NOTICE OF FILING TEN-YEAR PLAN: 2016-2026**

was served on the 28th day of June, 2016 by placing the same in the United States mail, postage prepaid, properly addressed to the following:

North Dakota Aeronautics Commission  
P.O. Box 5020  
Bismarck, ND 58502-5020

North Dakota Office of Attorney General  
State Capitol  
600 E. Boulevard Ave.  
Dept. 125  
Bismarck, ND 58505

North Dakota Dept. of Agriculture  
600 E. Boulevard Ave.  
Dept. 602  
Bismarck, ND 58505-0020

North Dakota Dept. of Health  
600 E. Boulevard Ave.  
Bismarck, ND 58505-0200

Dept. of Human Services  
600 E. Boulevard Ave.  
Dept. 325  
Bismarck, ND 58505-0250

North Dakota Dept. of Labor  
600 E. Boulevard Ave.  
Dept. 406  
Bismarck, ND 58505-0340

Department of Vocational Education  
c/o Career and Technical Education  
State Capitol, 15th Floor  
600 E. Boulevard Ave., Dept. 270  
Bismarck, ND 58505-0610

North Dakota Dept. of Commerce  
P.O. Box 2057  
Bismarck, ND 58503

Energy Infrastructure and Impact Office  
North Dakota Department of Trust Lands  
1707 North Ninth Street  
P.O. Box 5523  
Bismarck, ND 58506-5523

North Dakota Game and Fish Department  
100 N. Bismarck Expressway  
Bismarck, ND 58501-5095

North Dakota Industrial Commission  
600 East Boulevard Ave., Dept. 405  
Bismarck, ND 58505-0840

Office of Governor Jack Dalrymple  
State of North Dakota  
600 E. Boulevard Ave.  
Bismarck, ND 58505-0100

North Dakota Department of Transportation  
608 E. Boulevard Ave.  
Bismarck, ND 58505-0700

State Historical Society of North Dakota  
612 E. Boulevard Ave.  
Bismarck, ND 58505-0830

North Dakota Indian Affairs Commission  
State Capitol Building  
600 E. Boulevard Ave.  
1st Floor - Judicial Wing, Rm. 117  
Bismarck, ND 58505-0300

Job Service North Dakota  
P.O. Box 5507  
Bismarck, ND 58506-5507

North Dakota Department of Trust Lands  
1707 North 9th Street  
P.O. Box 5523  
Bismarck, ND 58506-5523

North Dakota Parks and Recreation Dept.  
Century Center  
1600 E. Century Ave., Suite 3  
PO Box 5594  
Bismarck, ND 58506-5594

North Dakota State Soil Conservation Committee  
c/o NDSU Extension Service  
2718 Gateway Ave., Suite 104  
Bismarck, ND 58503

North Dakota State Water Commission  
900 E. Boulevard Ave., Dept. 770  
Bismarck, ND 58505-0850

United States Department of Defense  
1400 Defense Pentagon  
Washington, DC 20301-1400

United States Fish and Wildlife Service  
North Dakota Field Office  
3425 Miriam Avenue  
Bismarck, ND 58501-7926

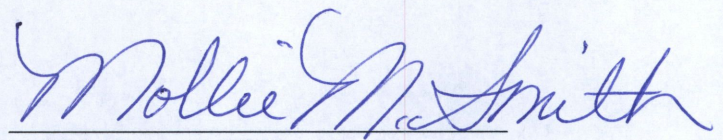
United States Army Corps of Engineers  
North Dakota Regulatory Office  
1513 South 12th Street  
Bismarck, ND 58504

United States Department of Transportation  
Federal Aviation Administration  
800 Independence Ave, SW  
Washington, DC 20591

Steele County Commission  
P.O. Box 275  
Finley, ND 58230-0275

North Dakota Transmission Authority  
c/o North Dakota Industrial Commission  
State Capitol 14th Floor  
600 E. Boulevard Ave. Dept. 405  
Bismarck, ND 58505-0840

North Dakota Pipeline Authority  
c/o North Dakota Industrial Commission  
State Capitol 14th Floor  
600 E. Boulevard Ave. Dept. 405  
Bismarck, ND 58505-0840

  
MOLLIE M. SMITH

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STATE OF NORTH DAKOTA  
PUBLIC SERVICE COMMISSION

Case No. PU-16-\_\_\_

IN THE MATTER OF THE FILING OF A TEN  
YEAR PLAN BY M-POWER ONE, LLC

CERTIFICATE OF SERVICE

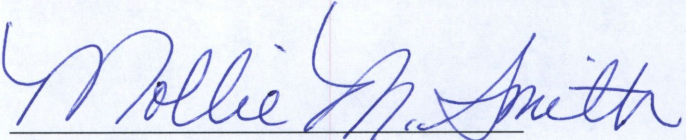
Mollie M. Smith, being first duly sworn, does depose and state that on June 28, 2016, she served the following document:

**Ten Year Plan: 2016-2026**

by placing a true and correct copy of said document in an envelope addressed as follows:

Ms. Emily Wigen  
Steele County Auditor  
P.O. Box 275  
Finley, ND 58230-0275

and depositing the same, with postage prepaid, in the United States mail at Minneapolis, Minnesota.

  
Mollie M. Smith