

June 29, 2018

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 2018-2028
Case No. PU-18-_____**

Dear Mr. Nitschke:

Enclosed for filing are originals of the following documents:

1. M-Power One, LLC's Ten Year Plan: 2018-2028;
2. Notice of Filing Ten Year Plan: 2018-2028; 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/bd
Enclosures

cc: Emily Wigen, Steele County Auditor (w/encls.)

64285023.1

Attorneys & Advisors
main 612.492.7000
fax 612.492.7077
fredlaw.com

Fredrikson & Byron, P.A.
200 South Sixth Street, Suite 4000
Minneapolis, Minnesota
55402-1425

1 PU-18-255 Filed 06/29/2018 Pages: 12
2018 Ten Year Plan
M-Power One, LLC
Mollie Smith, Fredrikson&Byron, P.A.

TEN YEAR PLAN: 2018-2028

M-Power One, LLC

June 2018

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 2018 through 2028.

- (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 151.8 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 2019, 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, including the OTP-owned 230 kV generation outlet line from Luverne to Pillsbury, thence to the Maple River Substation via the Minnkota Power Cooperative, Inc. (“Minnkota”)-owned 230 kV transmission line.

M-Power One will retain a qualified environmental consulting firm, familiar with the Project Area, 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”). That interconnection request was allowed to expire, in favor of an expanded application through Minnkota’s generation interconnection process.

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 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 expected to be finalized by the end of August 2018.

M-Power One has also commissioned studies 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 studies 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, 2025.¹ 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 Midcontinent Independent System Operator (“MISO”) states currently have either mandated or voluntary renewable portfolio standards or policies.² Under current state standards, total United States renewable portfolio standard demand will increase from 235 terawatt hours (“TWh”) in 2016 to 450 TWh in 2030.³ Given existing renewable energy capacity, an additional 150 TWh increase in renewable resources will be required to meet demand through 2030.⁴ In addition, the regional transmission grid is being expanded to deliver wind generation in a cost-effective manner; specifically, MISO’s Multi-

¹ See N.D.C.C. § 17-01-01.

² *MTEP17 MISO Transmission Expansion Plan*, at 76.

³ Lawrence Berkeley National Laboratory, *U.S. Renewable Portfolio Standards 2017 Annual Status Report* (July 2017), at 21.

⁴ *Id.* at 22.

Value Project (“MVP”) Portfolio enables 41 million megawatt hours (“MWh”) of wind energy per year to meet renewable energy mandates and goals.⁵

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”).

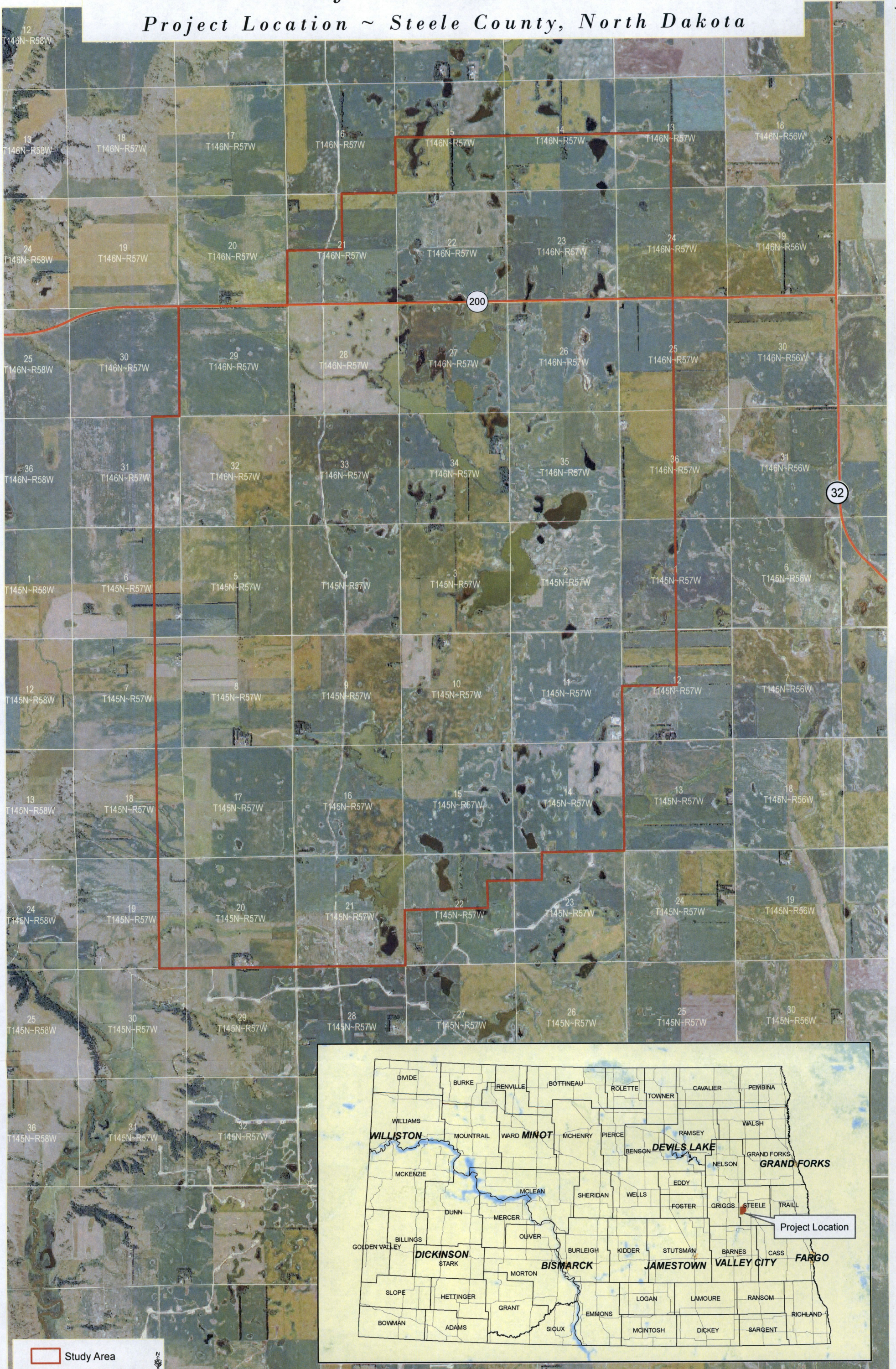
Thus, the renewable energy produced by M-Power One’s proposed Project will help meet a significant need for renewable energy.

64266481.1

⁵ *MTEP17 MISO Transmission Expansion Plan*, at 193.

Luverne Northfield Extension Wind Farm

Project Location ~ Steele County, North Dakota



STATE OF NORTH DAKOTA
PUBLIC SERVICE COMMISSION

Case No. PU-18-___

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

CERTIFICATE OF SERVICE

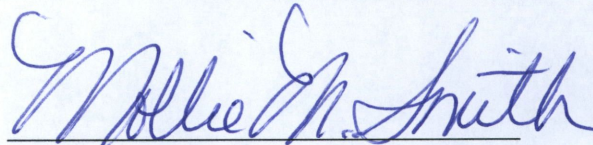
Mollie M. Smith, being first duly sworn, does depose and state that on June 29, 2018, she served the following document:

Ten Year Plan: 2018-2028

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

Emily Wigen
Steele County Auditor
PO Box 275
Finley, ND 58230-0275

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


Mollie M. Smith

64284950.1

STATE OF NORTH DAKOTA
PUBLIC SERVICE COMMISSION

Case No. PU-18-___

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

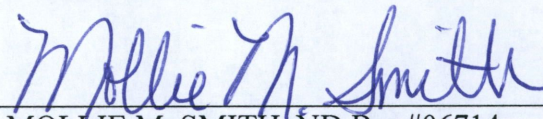
**NOTICE OF FILING TEN YEAR PLAN
2018-2028**

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 2018 through 2028 with the North Dakota Public Service Commission on June 29, 2018, and the Steele County Auditor on June 29, 2018.

Dated this 29th day of June, 2018.

FREDRIKSON & BYRON, P.A.

By



MOLLIE M. SMITH, ND Bar #06714
Attorney 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: 2018-2028

was served on the 29th day of June, 2018 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
600 E. Boulevard Ave.
Dept. 125
Bismarck, ND 58505

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

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

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

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

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

North Dakota Department of Commerce
1600 E. Century Ave., Suite 2
P.O. Box 2057
Bismarck, ND 58503

Energy Infrastructure and Impact Office
North Dakota Department of Trust Lands
1707 North 9th 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
State Capitol, 14th Floor
600 East Boulevard Ave., Dept. 405
Bismarck, ND 58505-0840

Office of Governor Doug Burgum
State of North Dakota
600 E. Boulevard Ave.
Bismarck, ND 58505-0001

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 Department
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 304
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

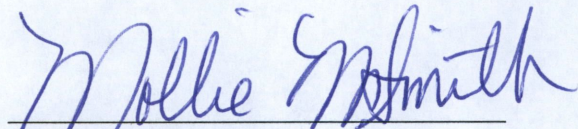
United States Army Corps of Engineers
North Dakota Regulatory Office
1513 South 12th Street
Bismarck, ND 58504

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

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

Steele County Commission
c/o Emily Wigen, County Auditor
PO Box 275
Finley, ND 58230-0275


MOLLIE M. SMITH

64265044.1