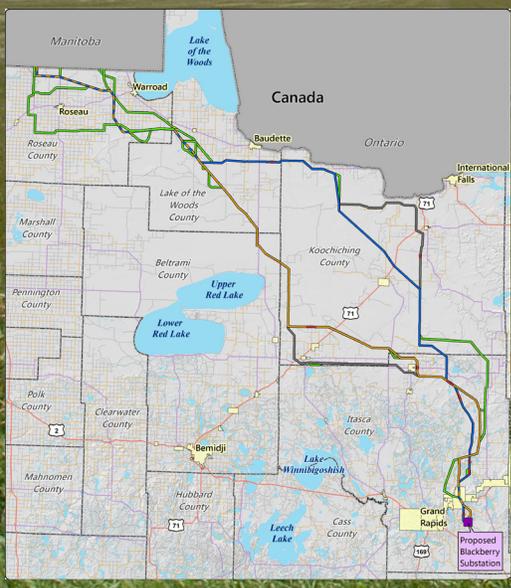


Great Northern Transmission Line Project

Draft Environmental Impact Statement
Volume II Appendices



Draft

Great Northern
Transmission Line Project
Environmental Impact Statement

Volume II: Appendices

U.S. Department of Energy
Office of Electricity Delivery
and Energy Reliability



Minnesota
Department of Commerce



Cooperating Agencies

U.S. Environmental Protection Agency
U.S. Army Corps of Engineers
U.S. Fish and Wildlife Service

June 2015

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Appendix A

Tribal Consultations



Department of Energy
Washington, DC 20585

September 9, 2013

President Thomas Maulson
Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambe
PO Box 67
603 Peace Pipe Rd.
Lac du Flambeau, WI 54538

RE: United States Department of Energy Early Tribal Outreach regarding Minnesota Power's Great Northern Transmission Line

Dear Honorable Leader,

The United States Department of Energy (the Department), in an effort to begin early government-to-government outreach and coordination with tribes that may be potentially affected by Minnesota Power's proposed Great Northern Transmission Line project, invites you to attend an upcoming outreach meeting scheduled for September 17, 2013 at the Sevens Clans Casino in Red Lake, Minnesota.

The Great Northern Transmission Line project is proposed by Minnesota Power to consist of two transmission lines: (1) a 500 kV transmission line from the Canadian border to Minnesota's Iron Range; and (2) a 345 kV double circuit transmission line from the Iron Range to near Duluth, Minnesota. While the Department is aware that Minnesota Power is currently moving forward with the routing, siting, and permitting process for the 500 kV line, it has not received an application requesting the issuance of a Presidential permit to allow the proposed project to cross the United States-Canadian international border. As such, the Department does not currently have a "federal undertaking" under Section 106 of the National Historic Preservation Act (36 CFR §800.16(y)), and is therefore not initiating formal Section 106 consultation activities (under 36 CFR §800.3) with any potential consulting party, including Tribes, at this time. Information about the proposed transmission line can be found at: www.mnpower.com.

Rather, the Department is exercising its authorities under Executive Order 13175 to coordinate early with Indian Tribes to foster true government-to-government relations with Indian tribes as early as possible in project development, and under Section 216(h) of the Federal Power Act to lead and coordinate interagency review and permitting efforts related to siting transmission line projects. As a part of this effort Department staff will be attending public open houses held by Minnesota Power at various locations throughout the proposed project area (see attached map provided to the Department by Minnesota Power). This will allow the Department to hear firsthand important input from tribes, landowners, stakeholders, and interested members of the public about the proposed project; information to be considered by Minnesota Power in the company's selection of routes to be considered for the state and Federal permitting processes.

The Department would more importantly like to use this authority and effort to invite you to come, meet and speak informally with our staff about your Tribe's thoughts or concerns about the proposed Great Northern Transmission Line project and the company's route selection process.

Department 216(h) Coordination Lead, Julie Ann Smith, will be in the proposed project area and will be available to meet with you on Tuesday, September 17, 2013, at the following location and time:

Seven Clans Casino
10200 Minnesota Hwy 89
Red Lake, MN 56671
12 noon – 3pm

Please do not hesitate to contact, Julie Ann Smith, at juliea.smith@hq.doe.gov or 202-586-7668 should you have any questions about this early Tribal outreach and coordination effort for the proposed Great Northern Transmission Line project.

We look forward to meeting with you soon on this matter.

Respectfully,

Lamont Jackson
Tribal Liaison
Office of Electricity Delivery and Energy
Efficiency



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

A.T. Rusty Stafne
Assiniboine and Sioux Tribes of the Fort Peck Reservation
501 Medicine Bear Road
PO Box 1027
Poplar, MT 59255

Dear Chairperson Stafne:

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

DOE's Office of Electricity Delivery and Energy Reliability (OE) is responding to Minnesota Power's application for a Presidential permit for the proposed Great Northern Transmission Line (GNTL) Project on April 15, 2014. Executive Order (E.O.) 10485, as amended by E.O.12038, requires that a Presidential permit be issued by DOE before electric transmission facilities may be constructed, operated, maintained, or connected at the U.S. international border. The potential issuance of a Presidential permit for the proposed GNTL Project would authorize Minnesota Power to construct an approximately 220-mile, overhead, single-circuit 500 kV alternating current (AC) transmission line across the U.S.-Canadian border.

The proposed GNTL Project would cross the international border between the Province of Manitoba and the State of Minnesota, northwest of Roseau, Minnesota, and would terminate at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. The proposed transmission line would be located on all new right-of-way that would be approximately 200-feet wide. Steel lattice tower structure types and configurations would be considered for the proposed GNTL Project with approximately 4 to 5 structures per mile of transmission line with towers spaced roughly 1,000 to 1,450 feet apart, with shorter or longer spans as necessary. The type of structure in any given section of transmission line would be dependent on land type, land

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The Minnesota Power application, including associated maps and drawings, can be viewed and downloaded in its entirety from the DOE Office of Electricity Delivery and Energy Reliability program Web site at: <http://energy.gov/oe/downloads/application-presidential-permit-oe-docket-no-pp-398-great-northern-transmission-line>. Scroll down to docket number PP-398 on this page to access this information. Information specific to cultural resources that was provided to the Department as part of the Minnesota Power application can be found in “Appendix G – Cultural Resource Report” of the application.

The Department is preparing the GNTL EIS in accordance with the Council on Environmental Quality (CEQ) NEPA regulations (40 CFR Parts 1500 through 1508), and the DOE NEPA implementing regulations (10 CFR Part 1021), with the Army Corps of Engineers - St. Paul District (Department of the Defense), as cooperating agency. The EIS will be a joint Federal-State document with Minnesota Department of Commerce acting as state co-lead.

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- Water Use and Water Quality
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DOE has also determined that its response to Minnesota Power's application for the Presidential permit is a "federal undertaking" under the Section 106 of the NHPA, and is inviting you to participate as a consulting party in this process by providing information to aid in the preparation of the EIS and to meet DOE's obligations under Section 106 of the National Historic Preservation Act, as well as the Native American Graves Protection and Repatriation Act of 1990.

We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

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Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

Sincerely,



Julie Ann Smith, PhD
Federal Document Manager
Office of Electricity Delivery and Energy
Reliability

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GNTL Notice of Intent
GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Darrell "Curley" Youpee
Assiniboine and Sioux Tribes of the Fort Peck Reservation
501 Medicine Bear Road
PO Box 1027
Poplar, MT 59255

Dear Mr. Youpee:

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Office of Electricity Delivery and Energy
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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Edith Leoso
Bad River Band of the Lake Superior Tribe of Chippewa Indians of the Bad Ri
PO Box 39
Odanah, WI 54861

Dear Ms. Leoso:

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Department of Energy
Washington, DC 20585

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**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Michael Wiggins, Jr.
Bad River Band of the Lake Superior Tribe of Chippewa Indians of the Bad Ri
Chief Blackbird Center, 72682 Maple Street
Odanah, WI 54861

Dear Chairperson Wiggins, Jr.:

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June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Bill Latady
Bois Forte Band of Chippewa Indians
1500 Bois Forte Road
Tower, MN 55790

Dear Mr. Latady:

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

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The proposed GNTL Project would cross the international border between the Province of Manitoba and the State of Minnesota, northwest of Roseau, Minnesota, and would terminate at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. The proposed transmission line would be located on all new right-of-way that would be approximately 200-feet wide. Steel lattice tower structure types and configurations would be considered for the proposed GNTL Project with approximately 4 to 5 structures per mile of transmission line with towers spaced roughly 1,000 to 1,450 feet apart, with shorter or longer spans as necessary. The type of structure in any given section of transmission line would be dependent on land type, land use, and potential effect on the surrounding landscape, and would typically range in height from

approximately 100 feet above ground to approximately 150 feet above ground. The proposed GNTL Project also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

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DOE has also determined that its response to Minnesota Power’s application for the Presidential

permit is a “federal undertaking” under the Section 106 of the NHPA, and is inviting you to participate as a consulting party in this process by providing information to aid in the preparation of the EIS and to meet DOE’s obligations under Section 106 of the National Historic Preservation Act, as well as the Native American Graves Protection and Repatriation Act of 1990.

We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

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Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

Sincerely,



Julie Ann Smith, PhD
Federal Document Manager
Office of Electricity Delivery and Energy
Reliability

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GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Kevin Leecy
Bois Forte Band of Chippewa Indians
5344 Lakeshore Drive
PO Box 16
Nett Lake, MN 55772

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Washington, DC 20585

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**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Dave Larson
Bois Forte Tribal Government-Nett Lake
2364 Indian Service Road 9
Nett Lake, MN 55772

Dear Mr. Larson:

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**RE: Great Northern Transmission Line Project Environmental Impact Statement
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Kevin Keckler
Cheyenne River Sioux Tribe
2001 N. Main Street
Eagle Butte, SD 57625

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Steve Vance
Cheyenne River Sioux Tribe
PO Box 590
Eagle Butte, SD 57625

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We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

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Sincerely,



Julie Ann Smith, PhD
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Enclosed:
GNTL Notice of Intent
GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Brandon Sazue, Sr.
Crow Creek Sioux Tribe of the Crow Creek Reservation
100 Drifting Goose Street
Fort Thompson, SD 57339

Dear Chairperson Sazue, Sr.:

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Anthony Reider
Flandreau Santee Sioux Tribe of South Dakota
603 West Broad Avenue
Flandreau, SD 57028

Dear President Reider:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

James B. Weston
Flandreau Santee Sioux Tribe of South Dakota
PO Box 285
Flandreau, SD 57028

Dear Mr. Weston:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Sean Copeland
Fond du Lac Band of Lake Superior Chippewa
1720 Big Lake Road
Cloquet, MN 55720

Dear Mr. Copeland:

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LeRoy Defoe
Fond du Lac Band of Lake Superior Chippewa
1720 Big Lake Road
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DOE has also determined that its response to Minnesota Power’s application for the Presidential

permit is a “federal undertaking” under the Section 106 of the NHPA, and is inviting you to participate as a consulting party in this process by providing information to aid in the preparation of the EIS and to meet DOE’s obligations under Section 106 of the National Historic Preservation Act, as well as the Native American Graves Protection and Repatriation Act of 1990.

We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

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Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

Sincerely,



Julie Ann Smith, PhD
Federal Document Manager
Office of Electricity Delivery and Energy
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GNTL Notice of Intent
GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Karen Diver
Fond du Lac Band of Lake Superior Chippewa
Fond du Lac Center,
1720 Big Lake Road
Cloquet, MN 55720

Dear Chairperson Diver:

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

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Sincerely,



Julie Ann Smith, PhD
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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Melissa Cook
Forest County Potawatomi Community WI
8130 Mishkoswen Drive, PO Box 340
Crandon, WI 54520

Dear Ms. Cook:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Harold Frank
Forest County Potawatomi Community WI
5416 Everybody's Road
Crandon, WI 54520

Dear Chairperson Frank:

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Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Mary Ann Gagnon
Grand Portage Band of Lake Superior Chippewa
PO BOX 428
Grand Portage, MN 55605

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Reliability

Enclosed:
GNTL Notice of Intent
GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Kenneth Meshigaud
Hannahville Indian Community Michigan
N14911 Hannahville B1 Rd.
Wilson, MI 49896

Dear Chairperson Meshigaud:

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

DOE's Office of Electricity Delivery and Energy Reliability (OE) is responding to Minnesota Power's application for a Presidential permit for the proposed Great Northern Transmission Line (GNTL) Project on April 15, 2014. Executive Order (E.O.) 10485, as amended by E.O. 12038, requires that a Presidential permit be issued by DOE before electric transmission facilities may be constructed, operated, maintained, or connected at the U.S. international border. The potential issuance of a Presidential permit for the proposed GNTL Project would authorize Minnesota Power to construct an approximately 220-mile, overhead, single-circuit 500 kV alternating current (AC) transmission line across the U.S.-Canadian border.

The proposed GNTL Project would cross the international border between the Province of Manitoba and the State of Minnesota, northwest of Roseau, Minnesota, and would terminate at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. The proposed transmission line would be located on all new right-of-way that would be approximately 200-feet wide. Steel lattice tower structure types and configurations would be considered for the proposed GNTL Project with approximately 4 to 5 structures per mile of transmission line with towers spaced roughly 1,000 to 1,450 feet apart, with shorter or longer spans as necessary. The type of structure in any given section of transmission line would be dependent on land type, land use, and potential effect on the surrounding landscape, and would typically range in height from

approximately 100 feet above ground to approximately 150 feet above ground. The proposed GNTL Project also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

Minnesota Power has proposed two alternative routes, with one route segment variation identified for each alternative route, which they identify as the “Blue Route,” the “Orange Route,” the “Segment C2,” and the “Segment J2,” respectively. The enclosed map shows the alternative routes, route segments, and the locations of nearby tribal lands. As proposed, neither route alternatives nor alternative route segments would cross tribal reservation lands; however, each route could have the potential to effect cultural resources of significance to your tribe.

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DOE has also determined that its response to Minnesota Power’s application for the Presidential

permit is a “federal undertaking” under the Section 106 of the NHPA, and is inviting you to participate as a consulting party in this process by providing information to aid in the preparation of the EIS and to meet DOE’s obligations under Section 106 of the National Historic Preservation Act, as well as the Native American Graves Protection and Repatriation Act of 1990.

We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

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Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

Sincerely,



Julie Ann Smith, PhD
Federal Document Manager
Office of Electricity Delivery and Energy
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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Warren Schwartz Jr.
Keweenaw Bay Indian Community Michigan
16429 Beartown Road
Baraga, MI 49908

Dear President Schwartz Jr.:

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June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Michael "Mic" Isham
Lac Courte Orilles Band of Lake Superior Chippewa Indians of Wisconsin
13394 West Trepania Road
Building #1
Hayward, WI 13394

Dear Chairman Isham:

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**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Thomas Maulson
Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambe
418 Little Pines Road
Lac du Flambeau, WI 54538

Dear President Maulson:

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Melinda Young
Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambe
PO Box 67
Lac du Flambeau, WI 54538

Dear Ms. Young:

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permit is a “federal undertaking” under the Section 106 of the NHPA, and is inviting you to participate as a consulting party in this process by providing information to aid in the preparation of the EIS and to meet DOE’s obligations under Section 106 of the National Historic Preservation Act, as well as the Native American Graves Protection and Repatriation Act of 1990.

We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

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Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

Sincerely,



Julie Ann Smith, PhD
Federal Document Manager
Office of Electricity Delivery and Energy
Reliability

Enclosed:
GNTL Notice of Intent
GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

James Williams Jr.
Lac Vieux Desert Band of Lake Superior Chippewa Indians Michigan
East Pow Wow Trail Road
PO Box 249
Watersmeet, MI 49969

Dear Chairperson Williams Jr.:

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

DOE's Office of Electricity Delivery and Energy Reliability (OE) is responding to Minnesota Power's application for a Presidential permit for the proposed Great Northern Transmission Line (GNTL) Project on April 15, 2014. Executive Order (E.O.) 10485, as amended by E.O.12038, requires that a Presidential permit be issued by DOE before electric transmission facilities may be constructed, operated, maintained, or connected at the U.S. international border. The potential issuance of a Presidential permit for the proposed GNTL Project would authorize Minnesota Power to construct an approximately 220-mile, overhead, single-circuit 500 kV alternating current (AC) transmission line across the U.S.-Canadian border.

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Gina Lemon
Leech Lake Band of Ojibwe
115 6th Street NW
Suite E
Cass Lake, MN 56633

Dear Ms. Lemon:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Carrie Jones
Leech Lake Band of the Minnesota Chippewa Tribe MN
115 6th Street NW
Suite E
Cass Lake, MN 56633

Dear Chairwoman Jones:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Robbie M. Howe-Bebeau
Leech Lake Reservation
6530 US Highway 2 NW
Cass Lake, MN 56633

Dear Representative Howe-Bebeau:

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June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
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Arthur Rose
Leech Lake Reservation
6530 US Highway 2 NW
Cass Lake, MN 56633

Dear Chairman Rose:

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DOE has also determined that its response to Minnesota Power’s application for the Presidential

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We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

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Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

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Julie Ann Smith, PhD
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GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Steve White
Leech Lake Reservation
6530 US Highway 2 NW
Cass Lake, MN 56633

Dear Representative White:

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

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**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Eugene Whitebird
Leech Lake Reservation
6530 US Highway 2 NW
Cass Lake, MN 56633

Dear Representative Whitebird:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Michael Jandreau
Lower Brule Sioux Tribe of the Lower Brule Reservation
187 Oyate Circle
Lower Brule, SD 57548

Dear Chairperson Jandreau:

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June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Grace Goldtooth-Campos
Lower Sioux Indian Community of Minnesota
32469 County Highway 2
Morton, MN 56270

Dear Ms. Goldtooth-Campos:

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GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Denny Prescott
Lower Sioux Indian Community of Minnesota
39527 Res. Highway 1
PO Box 308
Morton, MN 56270

Dear President Prescott:

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

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The proposed GNTL Project would cross the international border between the Province of Manitoba and the State of Minnesota, northwest of Roseau, Minnesota, and would terminate at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. The proposed transmission line would be located on all new right-of-way that would be approximately 200-feet wide. Steel lattice tower structure types and configurations would be considered for the proposed GNTL Project with approximately 4 to 5 structures per mile of transmission line with towers spaced roughly 1,000 to 1,450 feet apart, with shorter or longer spans as necessary. The type of structure in any given section of transmission line would be dependent on land type, land

use, and potential effect on the surrounding landscape, and would typically range in height from approximately 100 feet above ground to approximately 150 feet above ground. The proposed GNTL Project also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

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DOE has also determined that its response to Minnesota Power's application for the Presidential permit is a "federal undertaking" under the Section 106 of the NHPA, and is inviting you to participate as a consulting party in this process by providing information to aid in the preparation of the EIS and to meet DOE's obligations under Section 106 of the National Historic Preservation Act, as well as the Native American Graves Protection and Repatriation Act of 1990.

We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

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Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

Sincerely,



Julie Ann Smith, PhD
Federal Document Manager
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June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Natalie Weyaus
Mille Lacs Band of Ojibwe MN
43408 Oodena Drive
Onamia, MN 56359

Dear Ms. Weyaus:

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**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Melanie Benjamin
Mille Lacs Band of Ojibwe MN
43408 Oodena Drive
Onamia, MN 56359

Dear Chief Executive Benjamin:

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**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Norman Deschampe
Minnesota Chippewa Tribe MN
15542 State 371 NW
PO Box 217
Cass Lake, MN 56633

Dear President Deschampe:

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**RE: Great Northern Transmission Line Project Environmental Impact Statement
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Wilmer Mesteth
Oglala Sioux Tribal Council of the Pine Ridge Reservation
PO Box 419
Pine Ridge, SD 57770

Dear Mr. Mesteth:

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permit is a “federal undertaking” under the Section 106 of the NHPA, and is inviting you to participate as a consulting party in this process by providing information to aid in the preparation of the EIS and to meet DOE’s obligations under Section 106 of the National Historic Preservation Act, as well as the Native American Graves Protection and Repatriation Act of 1990.

We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

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Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

Sincerely,



Julie Ann Smith, PhD
Federal Document Manager
Office of Electricity Delivery and Energy
Reliability

Enclosed:
GNTL Notice of Intent
GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Bryan Brewer
Oglala Sioux Tribal Council of the Pine Ridge Reservation
Highway 18 Main Street
Pine Ridge, SD 57770

Dear President Brewer:

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

DOE's Office of Electricity Delivery and Energy Reliability (OE) is responding to Minnesota Power's application for a Presidential permit for the proposed Great Northern Transmission Line (GNTL) Project on April 15, 2014. Executive Order (E.O.) 10485, as amended by E.O. 12038, requires that a Presidential permit be issued by DOE before electric transmission facilities may be constructed, operated, maintained, or connected at the U.S. international border. The potential issuance of a Presidential permit for the proposed GNTL Project would authorize Minnesota Power to construct an approximately 220-mile, overhead, single-circuit 500 kV alternating current (AC) transmission line across the U.S.-Canadian border.

The proposed GNTL Project would cross the international border between the Province of Manitoba and the State of Minnesota, northwest of Roseau, Minnesota, and would terminate at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. The proposed transmission line would be located on all new right-of-way that would be approximately 200-feet wide. Steel lattice tower structure types and configurations would be considered for the proposed GNTL Project with approximately 4 to 5 structures per mile of transmission line with towers spaced roughly 1,000 to 1,450 feet apart, with shorter or longer spans as necessary. The type of structure in any given section of transmission line would be dependent on land type, land use, and potential effect on the surrounding landscape, and would typically range in height from

approximately 100 feet above ground to approximately 150 feet above ground. The proposed GNTL Project also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

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The EIS will describe all potential impacts of the proposed project on the environment and will identify possible mitigation measures to reduce or eliminate those impacts. The EIS will describe the potentially affected environment and the impacts that could result to:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Audrey Bennett, NAGPRA
Prairie Island Indian Community in the State of Minnesota
5636 Sturgeon Lake Road
Welch, MN 55809

Dear Ms. Bennett:

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Julie Ann Smith, PhD
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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Whitney White
Prairie Island Indian Community in the State of Minnesota
5636 Sturgeon Lake Road
Welch, MN 55089

Dear Ms. White:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Johnny Johnson
Prairie Island Indian Community in the State of Minnesota
5636 Sturgeon Lake Road
Welch, MN 55089

Dear President Johnson:

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June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Larry Balber
Red Cliff Band of Lake Superior Chippewa Indians WI
88385 Pike Road Highway 13
Bayfield, WI 54814

Dear Mr. Balber:

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DOE has also determined that its response to Minnesota Power’s application for the Presidential

permit is a “federal undertaking” under the Section 106 of the NHPA, and is inviting you to participate as a consulting party in this process by providing information to aid in the preparation of the EIS and to meet DOE’s obligations under Section 106 of the National Historic Preservation Act, as well as the Native American Graves Protection and Repatriation Act of 1990.

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Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

Sincerely,



Julie Ann Smith, PhD
Federal Document Manager
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GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Rosemary Soulier
Red Cliff Band of Lake Superior Chippewa Indians WI
88385 Pike Road Highway 13
Bayfield, WI 54814

Dear Chairperson Soulier:

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Kathryn Bealeiu
Red Lake Band of Chippewa Indians Minnesota
PO Box 297
Red Lake, MN 56671

Dear Ms. Bealeiu:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Floyd Jourdain
Red Lake Band of Chippewa Indians, Minnesota
Highway 1 East, 24200 Council St
Red Lake, MN 56671

Dear Chairman Jourdain:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Cyril Scott
Rosebud Sioux Tribe of the Rosebud Indian Reservation
11 Legion Avenue
Rosebud, SD 57570

Dear President Scott:

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GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Russell Eagle Bear
Rosebud Sioux Tribe of the Rosebud Indian Reservation
PO Box 809
Rosebud, SD 57470

Dear Mr. Eagle Bear:

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

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The proposed GNTL Project would cross the international border between the Province of Manitoba and the State of Minnesota, northwest of Roseau, Minnesota, and would terminate at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. The proposed transmission line would be located on all new right-of-way that would be approximately 200-feet wide. Steel lattice tower structure types and configurations would be considered for the proposed GNTL Project with approximately 4 to 5 structures per mile of transmission line with towers spaced roughly 1,000 to 1,450 feet apart, with shorter or longer spans as necessary. The type of structure in any given section of transmission line would be dependent on land type, land use, and potential effect on the surrounding landscape, and would typically range in height from

approximately 100 feet above ground to approximately 150 feet above ground. The proposed GNTL Project also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

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DOE has also determined that its response to Minnesota Power’s application for the Presidential

permit is a “federal undertaking” under the Section 106 of the NHPA, and is inviting you to participate as a consulting party in this process by providing information to aid in the preparation of the EIS and to meet DOE’s obligations under Section 106 of the National Historic Preservation Act, as well as the Native American Graves Protection and Repatriation Act of 1990.

We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

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Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

Sincerely,



Julie Ann Smith, PhD
Federal Document Manager
Office of Electricity Delivery and Energy
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**RE: Great Northern Transmission Line Project Environmental Impact Statement
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Richard Thomas
Santee Sioux of Nebraska
108 Spirit Avenue West
Niobrara, NE 68760

Dear Mr. Thomas:

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**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Roger Trudell
Santee Sioux of Nebraska
108 Spirit Ave West
Niobrara, NE 68760

Dear Chairperson Trudell:

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**RE: Great Northern Transmission Line Project Environmental Impact Statement
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Charles Vig
Shakopee Mdewakanton Sioux Community MN
2330 Sioux Trail NW
Prior Lake, MN 55372

Dear Chairman Vig:

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Diane Desrosier
Sisseton- Wahpeton Oyate of the Lake Traverse Reservation
PO Box 907
Sisseton, SD 57262

Dear Ms. Desrosier:

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We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

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Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

Sincerely,



Julie Ann Smith, PhD
Federal Document Manager
Office of Electricity Delivery and Energy
Reliability

Enclosed:
GNTL Notice of Intent
GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Robert Shepherd
Sisseton- Wahpeton Oyate of the Lake Traverse Reservation
100 Veterans Memorial Drive
Agency Village, SD 57262

Dear Chairperson Shepherd:

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Chris McGeshick
Sokaogon Chippewa Community WI
3051 Sand Lake Rd.
Crandon, WI 54520

Dear Chairperson McGeshick:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Roger Yankton, Sr.
Spirit Lake Tribe North Dakota
816 3rd Avenue North
Fort Totten, ND 58335

Dear Chairperson Yankton, Sr.:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Darrell Smith
Spirit Lake Tribe North Dakota
PO Box 475
Fort Totten, ND 58335

Dear Mr. Smith:

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June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Waste'Win Young
Standing Rock Sioux Tribe
PO Box D
Fort Yates, ND 58538

Dear Mr. Young:

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Julie Ann Smith, PhD
Federal Document Manager
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GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Charles Murphy
Standing Rock Sioux Tribe
North Standing Rock Avenue, Building 1
Fort Yates, ND 58538

Dear Chairperson Murphy:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Elgin Crows Breast
Mandan, Hidatso & Arikara Nation
404 Frontage Road
New Town, ND 58763

Dear Mr. Crows Breast:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Tex Hall
Three Affiliated Tribes of the Fort Berthold Reservation
404 Frontage Road
New Town, ND 58763

Dear Chairperson Hall:

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Turtle Mountain Band of Chippewa
PO Box 900
Belcourt, ND 58316

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GNTL Notice of Intent
GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Merle St. Clair
Turtle Mountain Band of Chippewa
PO Box 900
Belcourt, ND 58316

Dear Chairperson St. Clair:

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

DOE's Office of Electricity Delivery and Energy Reliability (OE) is responding to Minnesota Power's application for a Presidential permit for the proposed Great Northern Transmission Line (GNTL) Project on April 15, 2014. Executive Order (E.O.) 10485, as amended by E.O. 12038, requires that a Presidential permit be issued by DOE before electric transmission facilities may be constructed, operated, maintained, or connected at the U.S. international border. The potential issuance of a Presidential permit for the proposed GNTL Project would authorize Minnesota Power to construct an approximately 220-mile, overhead, single-circuit 500 kV alternating current (AC) transmission line across the U.S.-Canadian border.

The proposed GNTL Project would cross the international border between the Province of Manitoba and the State of Minnesota, northwest of Roseau, Minnesota, and would terminate at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. The proposed transmission line would be located on all new right-of-way that would be approximately 200-feet wide. Steel lattice tower structure types and configurations would be considered for the proposed GNTL Project with approximately 4 to 5 structures per mile of transmission line with towers spaced roughly 1,000 to 1,450 feet apart, with shorter or longer spans as necessary. The type of structure in any given section of transmission line would be dependent on land type, land use, and potential effect on the surrounding landscape, and would typically range in height from

approximately 100 feet above ground to approximately 150 feet above ground. The proposed GNTL Project also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

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DOE has also determined that its response to Minnesota Power’s application for the Presidential

permit is a “federal undertaking” under the Section 106 of the NHPA, and is inviting you to participate as a consulting party in this process by providing information to aid in the preparation of the EIS and to meet DOE’s obligations under Section 106 of the National Historic Preservation Act, as well as the Native American Graves Protection and Repatriation Act of 1990.

We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

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Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

Sincerely,



Julie Ann Smith, PhD
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**RE: Great Northern Transmission Line Project Environmental Impact Statement
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Kevin Jenvold
Upper Sioux Community of Minnesota
5738 Highway 67 East
PO Box 147
Granite Falls, MN 56241

Dear Chairperson Jenvold:

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**RE: Great Northern Transmission Line Project Environmental Impact Statement
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Marlow LaBatte
Upper Sioux Community of Minnesota
PO Box 147
Granite Falls, MN 56241

Dear Mr./Ms. LaBatte:

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Dennis Gill
Wahpekute Band of Dakota
3322 Gill Road
Waubay, SD 57501

Dear Dennis Gill:

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Renee Lampi
White Earth Band of MN Chippewa Tribe MN
PO Box 418
White Earth, MN 56591

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GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Erma Vizenor
White Earth Band of MN Chippewa Tribe MN
5500 Eagle View Road
White Earth, MN 56591

Dear Chairperson Vizenor:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Robert Flying Hawk
Yankton Sioux Tribe
P.O. Box 1153
Wagner, SD 57380

Dear Chairperson Flying Hawk:

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Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Thurman Cournoyer
Yankton Sioux Tribe
800 Main Avenue SW
Wagner, SD 57380

Dear Chairperson Cournoyer:

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The Minnesota Power application, including associated maps and drawings, can be viewed and downloaded in its entirety from the DOE Office of Electricity Delivery and Energy Reliability program Web site at: <http://energy.gov/oe/downloads/application-presidential-permit-oe-docket-no-pp-398-great-northern-transmission-line>. Scroll down to docket number PP-398 on this page to access this information. Information specific to cultural resources that was provided to the Department as part of the Minnesota Power application can be found in “Appendix G – Cultural Resource Report” of the application.

The Department is preparing the GNTL EIS in accordance with the Council on Environmental Quality (CEQ) NEPA regulations (40 CFR Parts 1500 through 1508), and the DOE NEPA implementing regulations (10 CFR Part 1021), with the Army Corps of Engineers - St. Paul District (Department of the Defense), as cooperating agency. The EIS will be a joint Federal-State document with Minnesota Department of Commerce acting as state co-lead.

The EIS will describe all potential impacts of the proposed project on the environment and will identify possible mitigation measures to reduce or eliminate those impacts. The EIS will describe the potentially affected environment and the impacts that could result to:

- Land Use and Recreation
- Visual Resources
- Water Use and Water Quality
- Surface Water Features including Rivers, Floodplains, and Wetlands
- Fish, Wildlife, and Vegetation, including protected Critical Habitat
- Socioeconomics
- Historic and Cultural Resources
- Soils and Mineral Resources
- Human Health and Safety
- Air Quality
- Construction-related Impacts, including Road Clearing, Traffic, and Noise

DOE has also determined that its response to Minnesota Power’s application for the Presidential permit is a “federal undertaking” under the Section 106 of the NHPA, and is inviting you to participate as a consulting party in this process by providing information to aid in the preparation of the EIS and to meet DOE’s obligations under Section 106 of the National Historic

Preservation Act, as well as the Native American Graves Protection and Repatriation Act of 1990.

We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

The Department would also like to extend an invitation to you to meet with DOE senior staff in person on two dates in the month of July in order to formally initiate government-to-government consultations between the Department and your tribe regarding this federal undertaking. We have made the following arrangements for two tribal-only consultation meetings within the proposed GNTL Project area expressly for this purpose:

- Tuesday, July 15, 2014; Seven Clans Red Lake Casino, 10200 Hwy. 89, Red Lake, MN, 56671; 12:00 pm;
- Tuesday, July 22, 2014; White Oak Inn and Suites, 201 4th Avenue NW, Deer River, MN, 56636; 12:00 pm.

Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

Sincerely,



Julie Ann Smith, PhD
Federal Document Manager
Office of Electricity Delivery and Energy
Reliability

Enclosed:
GNTL Notice of Intent
GNTL Alternatives Map with Tribal lands



Department of Energy
Washington, DC 20585

June 27, 2014

**RE: Great Northern Transmission Line Project Environmental Impact Statement
(DOE/EIS-0499) – Tribal Consultation**

Dear Sir or Madam,

Pursuant to Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the U.S. Department of Energy (DOE or the Department) is initiating the consultation process on a proposed undertaking to determine any potential adverse effects on Tribal properties of traditional religious and cultural significance. DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) of 1969. As a part of its NEPA analysis, DOE is conducting public scoping for this proposed project. A copy of the Department's Notice of Intent for the *Great Northern Transmission Line Project EIS* (79 FR 36493; July 27, 2014) (GNTL EIS) containing information specific to the public scoping meetings is included with this letter.

DOE's Office of Electricity Delivery and Energy Reliability (OE) is responding to Minnesota Power's application for a Presidential permit for the proposed Great Northern Transmission Line (GNTL) Project on April 15, 2014. Executive Order (E.O.) 10485, as amended by E.O. 12038, requires that a Presidential permit be issued by DOE before electric transmission facilities may be constructed, operated, maintained, or connected at the U.S. international border. The potential issuance of a Presidential permit for the proposed GNTL Project would authorize Minnesota Power to construct an approximately 220-mile, overhead, single-circuit 500 kV alternating current (AC) transmission line across the U.S.-Canadian border.

The proposed GNTL Project would cross the international border between the Province of Manitoba and the State of Minnesota, northwest of Roseau, Minnesota, and would terminate at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. The proposed transmission line would be located on all new right-of-way that would be approximately 200-feet wide. Steel lattice tower structure types and configurations would be considered for the proposed GNTL Project with approximately 4 to 5 structures per mile of transmission line with towers spaced roughly 1,000 to 1,450 feet apart, with shorter or longer spans as necessary. The type of structure in any given section of transmission line would be dependent on land type, land use, and potential effect on the surrounding landscape, and would typically range in height from approximately 100 feet above ground to approximately 150 feet above ground. The proposed GNTL Project also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series

Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

Minnesota Power has proposed two alternative routes, with one route segment variation identified for each alternative route, which they identify as the “Blue Route,” the “Orange Route,” the “Segment C2,” and the “Segment J2,” respectively. The enclosed map shows the alternative routes, route segments, and the locations of nearby tribal lands. As proposed, neither route alternatives nor alternative route segments would cross tribal reservation lands; however, each route could have the potential to effect cultural resources of significance to your tribe.

The Minnesota Power application, including associated maps and drawings, can be viewed and downloaded in its entirety from the DOE Office of Electricity Delivery and Energy Reliability program Web site at: <http://energy.gov/oe/downloads/application-presidential-permit-oe-docket-no-pp-398-great-northern-transmission-line>. Scroll down to docket number PP-398 on this page to access this information. Information specific to cultural resources that was provided to the Department as part of the Minnesota Power application can be found in “Appendix G – Cultural Resource Report” of the application.

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The EIS will describe all potential impacts of the proposed project on the environment and will identify possible mitigation measures to reduce or eliminate those impacts. The EIS will describe the potentially affected environment and the impacts that could result to:

- Land Use and Recreation
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- Surface Water Features including Rivers, Floodplains, and Wetlands
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- Socioeconomics
- Historic and Cultural Resources
- Soils and Mineral Resources
- Human Health and Safety
- Air Quality
- Construction-related Impacts, including Road Clearing, Traffic, and Noise

DOE has also determined that its response to Minnesota Power’s application for the Presidential permit is a “federal undertaking” under the Section 106 of the NHPA, and is inviting you to participate as a consulting party in this process by providing information to aid in the preparation of the EIS and to meet DOE’s obligations under Section 106 of the National Historic

Preservation Act, as well as the Native American Graves Protection and Repatriation Act of 1990.

We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would welcome information on the location and importance of archaeological sites, historic structures, and any traditional cultural properties or other localities of interest to you that are known to occur in the proposed project area. Please respond within 30 days of receipt of this letter to ensure DOE can promptly begin to address your comments or concerns and to facilitate the consultation process.

The Department would also like to extend an invitation to you to meet with DOE senior staff in person on two dates in the month of July in order to formally initiate government-to-government consultations between the Department and your tribe regarding this federal undertaking. We have made the following arrangements for two tribal-only consultation meetings within the proposed GNTL Project area expressly for this purpose:

- Tuesday, July 15, 2014; Seven Clans Red Lake Casino, 10200 Hwy. 89, Red Lake, MN, 56671; 12:00 pm;
- Tuesday, July 22, 2014; White Oak Inn and Suites, 201 4th Avenue NW, Deer River, MN, 56636; 12:00 pm.

Please do not hesitate to contact me if you, or your staff, have any questions or concerns about the project, the EIS, or the above proposed tribal consultation meetings. The primary point of contact for this effort is me, Julie Ann Smith, Federal Document Manager. I may be reached at 202-586-7668, or by email at juliea.smith@hq.doe.gov. We look forward to consulting with you in this review effort.

Sincerely,



Julie Ann Smith, PhD
Federal Document Manager
Office of Electricity Delivery and Energy
Reliability

Enclosed:
GNTL Notice of Intent
GNTL Alternatives Map with Tribal lands

From: Edith Leoso [<mailto:THPO@badriver-nsn.gov>]
Sent: Friday, July 11, 2014 05:18 PM Eastern Standard Time
To: Smith, Julie A (OE)
Subject: RE: Great Northern Transmission Line Project, Tribal Consultation meetings reminder and update

Dear Ms. Smith,

Thank-you for the invitation to consult. I will be in attendance at the above referenced meeting and look forward to assisting your agency in their efforts to comply with Section 106 of the National Historic Preservation Act. If a meeting agenda is available, please forward it at your convenience.

Miigwech (Thank-you),

Edith Leoso, THPO
Bad River Band of the Lake Superior Tribe of the Chippewa

From: Smith, Julie A (OE) [<mailto:JulieA.Smith@hq.doe.gov>]
Sent: Thursday, July 10, 2014 5:55 PM
Cc: Jackson, Lamont
Subject: Great Northern Transmission Line Project, Tribal Consultation meetings reminder and update
Importance: High

Dear Honorable Leader:

This email is in follow up to our June 27, 2014, letter inviting you and your tribe to formally consult with DOE under Section 106 of the National Historic Preservation Act regarding Minnesota Power's application to DOE for a Presidential permit, which would authorize Minnesota Power to construct an approximately 220-mile, overhead, single-circuit 500 kV alternating current (AC) transmission line between the U.S.-Canadian border. DOE's Office of Electricity Delivery and Energy Reliability (OE) received Minnesota Power's application for the proposed Great Northern Transmission Line (GNTL) Project on April 15, 2014.

I and other DOE senior staff will be available on two dates this month to meet with you

in person in order to formally initiate government-to-government consultations regarding this federal undertaking under Section 106 of the NHPA. The Department has made arrangements for two tribal-only consultation meetings within the proposed GNTL Project area expressly for this purpose at the following:

- Tuesday, July 15, 2014; Seven Clans Red Lake Casino, 10200 Hwy. 89, Red Lake, MN, 56671; 12:00 pm.
- Tuesday, July 22, 2014; White Oak Inn and Suites, 201 4th Avenue NW, Deer River, MN, 56636; 12:00 pm.

We would very much like to hear from you about any concerns or issues you may have regarding the proposed Great Northern Transmission Line Project, and any information you could share with us regarding possible cultural resource concerns. Of particular interest would be mitigation measures you would propose for construction projects that could affect cultural properties that you consider important. If available, we would very much welcome your participation in the above scheduled meeting locations. *Minnesota Power is willing to provide expense reimbursement for these Section 106 Tribal consultation meetings, and the necessary reimbursement forms will be provided at the meetings for these purposes.*

I would also like to inform you ahead of these consultation meetings of the DOE's intention to have a contractor staff member present at the tribal consultation meetings only for purposes of taking meeting notes for our record. As a non-sovereign entity, this scribe would not participate in any way in the government-to-government consultation discussion. If you are uncomfortable or do not wish to have this assisting staff present for any reason, please let me know and alternative arrangements will be made for note-taking.

I very much look forward to meeting you in the next couple of weeks in northern Minnesota.

Sincerely – Julie Ann

Julie Ann Smith, PhD
Electricity Policy Analyst
National Electricity Delivery Division (OE-20)
U.S. Department of Energy
1000 Independence Avenue SW
Washington, DC 20590
Office: 202-586-7668
BB: 240-252-0332

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On July 17, 2014 at 6:57 PM "Smith, Julie A (OE)" <JulieA.Smith@hq.doe.gov> wrote:

Good day, Mr. Fisher. I am so pleased that you are interested in and willing to participate in our Section 106 Tribal consultation on the Great Northern project. Our next consultation meeting will be held on Tuesday, July 22nd at 12 (noon) at White Oak Inn and Suites, 201 4th Avenue NW, Deer River, MN, 56636. Minnesota Power has offered to reimburse your travel expenses and the necessary paperwork will be provided at the meeting. Please let me know if you need and further information. I am looking forward to our conversation and learning about your Tribal culture, history, and traditional resources. Thank you for your help in this matter - Julie

From: Conrad Fisher [<mailto:conrad.fisher@cheyennenation.com>]

Sent: Thursday, July 17, 2014 06:32 PM Eastern Standard Time

To: Smith, Julie A (OE)

Subject: Presidential Permit on Minnesota Transmission line

Dear Ms. Smith:

The Northern Cheyenne Tribe of Montana is interested in participation in the consultation process regarding the Presidential Permit of a transmission line in Minnesota. We are originally from the Minnesota Wisconsin area and definitely have ancestry lands there. If you could email me the next consultation I would really appreciate it. My phone number is 406-477-4839. Thank you.

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From: Dianne Desrosiers [<mailto:DianneD@SWO-NSN.GOV>]
Sent: Thursday, July 17, 2014 5:41 PM
To: Smith, Julie A (OE)
Subject: Great Northern Trans Project.

Good afternoon,

I am the Tribal Historic Preservation Officer for the Sisseton Wahpeton Oyate in NE South Dakota. We are interested in the consultation meeting which is taking place in Deer River Mn. I am planning to send 2 of my staff to this important meeting. The Transmission line route encompasses areas which are of importance to the Sisseton Wahpeton Oyate as these are, our aboriginal lands. My staff will be driving up on Monday and spending the night to attend the meeting on Tuesday as it is 550 miles. Will travel reimbursements be made available? Just would like to know in advance. We will plan to be in on Monday evening. Thank you for your attention in this matter.

**Dianne Desrosiers
Tribal Historic Preservation Officer
Sisseton Wahpeton Oyate
P.O. Box 907
Sisseton, SD 57262
(605) 698-3584 office**

"Every part of this Earth is sacred to my people. We are part of the earth and it is part of us".-Chief Seattle, 1854

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From: Terence Clouthier
Sent: Monday, July 21, 2014 8:39 AM
To: 'julieasmith@hq.doe.gov'
Cc: Waste'Win Young (wyoung@standingrock.org)
Subject: Great Northern Transmission Line Project

Good Morning Julie,

The Standing Rock Sioux Tribe Tribal Historic Preservation Office would like to consult with your agency on this project. Unfortunately, our office is unable to attend the meeting on July 22, 2014 due to previous commitments however we would like any notes that are taken for this meeting including any discussions for addressing tribal concerns for sites of tribal significance and any recommendations made. Our office can be reached at (701) 854-2120 or emailed at Waste'Win Young (wyoung@standingrock.org) and Terry Clouthier (tclouthier@standingrock.org).

We look forward to consulting with your agency on this project.

Thank you for considering our traditional and sacred sites in your agency decision making process.

Sincerely,
Standing Rock Sioux Tribe

Terry Clouthier
Tribal Archaeologist

Message scanned by the Symantec Email Security service. If you suspect that this email is actually spam, please send it as an ATTACHMENT to spamsample@messagelabs.com



Department of Energy
Washington, DC 20585

January 15, 2015

A.T. Rusty Stafne
Assiniboine and Sioux Tribes of the Fort Peck Reservation
501 Medicine Bear Road
PO Box 1027
Poplar, MT 59255

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Stafne,

The purpose of this letter is to ensure that the Assiniboine and Sioux Tribes of the Fort Peck Reservation is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

The DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA). Minnesota Power is also seeking authorizations from the U.S. Army Corps of Engineers – St. Paul District (USACE), a cooperating agency to DOE in the preparation of the above mentioned EIS. DOE is also acting as the lead federal agency for purposes of compliance with Section 106 for the NEPA cooperating agencies (per 36 CFR § 800.2(a)(2)).

As you are aware from DOE's tribal government-to-government consultation letters for the proposed GNTL project dated June 27, 2014, and November 26, 2014, Minnesota Power applied to DOE for a Presidential permit to construct, operate, maintain, and connect an approximately 220-mile, overhead, single-circuit 500 kV AC transmission line between the Minnesota - Manitoba border crossing northwest of Roseau, Minnesota, and terminating at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. Minnesota Power's proposal also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the

undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

DOE documented a Notice of Intent (NOI) to prepare an EIS in the *Federal Register* on June 27, 2014 (79 FR 36493), with an open public scoping period which ended on August 15, 2014. As a part of its scoping efforts, DOE held eight NEPA public scoping meetings from July 16 – July 24, 2014 (*see enclosed GNTL Regional Map*). For more information on DOE's NEPA review and preparation of the EIS, please visit the DOE GNTL EIS website at <http://www.GreatNorthernEIS.org>. The GNTL Presidential permit application (including an initial cultural resources study), NOI and the *Great Northern Transmission Line Scoping Summary Report* (November 2014), can be viewed on this website. Future information from the DOE, relevant to the Section 106 consultation (once underway), will also be posted to this website.

If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Juliea.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE's on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Darrell "Curley" Youpee
Assiniboine and Sioux Tribes of the Fort Peck Reservation
501 Medicine Bear Road
PO Box 1027
Poplar, MT 59255

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Darrell "Curley" Youpee,

The purpose of this letter is to ensure that the Assiniboine and Sioux Tribes of the Fort Peck Reservation is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

The DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA). Minnesota Power is also seeking authorizations from the U.S. Army Corps of Engineers – St. Paul District (USACE), a cooperating agency to DOE in the preparation of the above mentioned EIS. DOE is also acting as the lead federal agency for purposes of compliance with Section 106 for the NEPA cooperating agencies (per 36 CFR § 800.2(a)(2)).

As you are aware from DOE's tribal government-to-government consultation letters for the proposed GNTL project dated June 27, 2014, and November 26, 2014, Minnesota Power applied to DOE for a Presidential permit to construct, operate, maintain, and connect an approximately 220-mile, overhead, single-circuit 500 kV AC transmission line between the Minnesota - Manitoba border crossing northwest of Roseau, Minnesota, and terminating at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. Minnesota Power's proposal also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the

undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

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If you have questions regarding the DOE's on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Edith Leoso
Bad River Band of the Lake Superior Tribe of Chippewa
1 Maple Lane
PO Box 39
Odanah, WI 54861

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Edith Leoso,

The purpose of this letter is to ensure that the Bad River Band of the Lake Superior Tribe of Chippewa is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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As you are aware from DOE's tribal government-to-government consultation letters for the proposed GNTL project dated June 27, 2014, and November 26, 2014, Minnesota Power applied to DOE for a Presidential permit to construct, operate, maintain, and connect an approximately 220-mile, overhead, single-circuit 500 kV AC transmission line between the Minnesota - Manitoba border crossing northwest of Roseau, Minnesota, and terminating at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. Minnesota Power's proposal also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the

undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

DOE documented a Notice of Intent (NOI) to prepare an EIS in the *Federal Register* on June 27, 2014 (79 FR 36493), with an open public scoping period which ended on August 15, 2014. As a part of its scoping efforts, DOE held eight NEPA public scoping meetings from July 16 – July 24, 2014 (*see enclosed GNTL Regional Map*). For more information on DOE's NEPA review and preparation of the EIS, please visit the DOE GNTL EIS website at <http://www.GreatNorthernEIS.org>. The GNTL Presidential permit application (including an initial cultural resources study), NOI and the *Great Northern Transmission Line Scoping Summary Report* (November 2014), can be viewed on this website. Future information from the DOE, relevant to the Section 106 consultation (once underway), will also be posted to this website.

If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Julie.A.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE's on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Mike Wiggins, Jr.
Bad River Band of the Lake Superior Tribe of Chippewa
1 Maple Lane
PO Box 39
Odanah, WI 54861

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Wiggins, Jr.,

The purpose of this letter is to ensure that the Bad River Band of the Lake Superior Tribe of Chippewa is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

The DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA). Minnesota Power is also seeking authorizations from the U.S. Army Corps of Engineers – St. Paul District (USACE), a cooperating agency to DOE in the preparation of the above mentioned EIS. DOE is also acting as the lead federal agency for purposes of compliance with Section 106 for the NEPA cooperating agencies (per 36 CFR § 800.2(a)(2)).

As you are aware from DOE's tribal government-to-government consultation letters for the proposed GNTL project dated June 27, 2014, and November 26, 2014, Minnesota Power applied to DOE for a Presidential permit to construct, operate, maintain, and connect an approximately 220-mile, overhead, single-circuit 500 kV AC transmission line between the Minnesota - Manitoba border crossing northwest of Roseau, Minnesota, and terminating at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. Minnesota Power's proposal also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the

undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

William Latady
Bois Forte Band of Chippewa
1500 Bois Forte Road
Tower, MN 55790

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Latady,

The purpose of this letter is to ensure that the Bois Forte Band of Chippewa is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
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Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Kevin Leecy
Bois Forte Band of Chippewa
PO Box 16
Nett Lake, MN 55772

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Leecy,

The purpose of this letter is to ensure that the Bois Forte Band of Chippewa is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
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Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Dave Larson
Bois Forte Tribal Government-Nett Lake
2364 Indian Service Road 9
Nett Lake, MN 55772

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Mr. Larson,

The purpose of this letter is to ensure that the Bois Forte Tribal Government-Nett Lake is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Harold Frazier
Cheyenne River Sioux Tribe
PO Box 590
2001 Main Street
Eagle Butte, SD 57625

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Frazier,

The purpose of this letter is to ensure that the Cheyenne River Sioux Tribe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Steven Vance
Cheyenne River Sioux Tribe
PO Box 590
Eagle Butte, SD 57625

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Vance,

The purpose of this letter is to ensure that the Cheyenne River Sioux Tribe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Juliea.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

**Roxanne Sazue
Crow Creek Sioux Tribe
PO Box 50
Fort Thompson, SD 57339**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairwoman Sazue,

The purpose of this letter is to ensure that the Crow Creek Sioux Tribe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

The DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA). Minnesota Power is also seeking authorizations from the U.S. Army Corps of Engineers – St. Paul District (USACE), a cooperating agency to DOE in the preparation of the above mentioned EIS. DOE is also acting as the lead federal agency for purposes of compliance with Section 106 for the NEPA cooperating agencies (per 36 CFR § 800.2(a)(2)).

As you are aware from DOE's tribal government-to-government consultation letters for the proposed GNTL project dated June 27, 2014, and November 26, 2014, Minnesota Power applied to DOE for a Presidential permit to construct, operate, maintain, and connect an approximately 220-mile, overhead, single-circuit 500 kV AC transmission line between the Minnesota - Manitoba border crossing northwest of Roseau, Minnesota, and terminating at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. Minnesota Power's proposal also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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Department of Energy
Washington, DC 20585

January 15, 2015

**Darrell Zephier
Crow Creek Sioux Tribe
PO Box 50
Fort Thompson, SD 57339**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Zephier,

The purpose of this letter is to ensure that the Crow Creek Sioux Tribe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Anthony Rider
Flandreau Santee Sioux Tribe of South Dakota
PO Box 283
603 W. Broad Avenue
Flandreau, SD 57028

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear President Rider,

The purpose of this letter is to ensure that the Flandreau Santee Sioux Tribe of South Dakota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
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National Electricity Delivery Division, OE-20
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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Sam Allen, Sr.
Flandreau Santee Sioux Tribe of South Dakota
PO Box 285
Flandreau, SD 57028

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Allen, Sr.,

The purpose of this letter is to ensure that the Flandreau Santee Sioux Tribe of South Dakota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Julie Ann Smith, PhD
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Department of Energy
Washington, DC 20585

January 15, 2015

Sean Copeland
Fond du Lac Band of Lake Superior Chippewa
1720 Big Lake Road
Cloquet, MN 55720

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Mr. Copeland,

The purpose of this letter is to ensure that the Fond du Lac Band of Lake Superior Chippewa is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Julie Ann Smith, PhD
Principal NEPA Document Manager
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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Leah Savage
Fond du Lac Band of Lake Superior Chippewa
1720 Big Lake Road
Cloquet, MN 55720

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Savage,

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If you have questions regarding the DOE's on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Karen Diver
Fond du Lac Band of Lake Superior Chippewa
1720 Big Lake Road
Cloquet, MN 55720

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairwoman Diver,

The purpose of this letter is to ensure that the Fond du Lac Band of Lake Superior Chippewa is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

The DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA). Minnesota Power is also seeking authorizations from the U.S. Army Corps of Engineers – St. Paul District (USACE), a cooperating agency to DOE in the preparation of the above mentioned EIS. DOE is also acting as the lead federal agency for purposes of compliance with Section 106 for the NEPA cooperating agencies (per 36 CFR § 800.2(a)(2)).

As you are aware from DOE's tribal government-to-government consultation letters for the proposed GNTL project dated June 27, 2014, and November 26, 2014, Minnesota Power applied to DOE for a Presidential permit to construct, operate, maintain, and connect an approximately 220-mile, overhead, single-circuit 500 kV AC transmission line between the Minnesota - Manitoba border crossing northwest of Roseau, Minnesota, and terminating at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. Minnesota Power's proposal also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

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If you have questions regarding the DOE's on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Melissa Cook
Forest County Potawatomi Community WI
PO Box 340
8130 Mishkoswen Drive
Crandon, WI 54520

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Cook,

The purpose of this letter is to ensure that the Forest County Potawatomi Community WI is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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Department of Energy
Washington, DC 20585

January 15, 2015

Harold Frank
Forest County Potawatomi Community WI
PO Box 340
Crandon, WI 54520

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Frank,

The purpose of this letter is to ensure that the Forest County Potawatomi Community WI is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Norman W. Deschampe
Grand Portage Band of Lake Superior Chippewa
PO Box 428
Grand Portage, WI 55605

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Deschampe,

The purpose of this letter is to ensure that the Grand Portage Band of Lake Superior Chippewa is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Mary Ann Gagnon
Grand Portage Band of Lake Superior Chippewa
PO Box 428
Grand Portage, MN 55605

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Gagnon,

The purpose of this letter is to ensure that the Grand Portage Band of Lake Superior Chippewa is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

**Kenneth Meshiguad
Hannahville Indian Community Michigan
N14911 Hannahville B1 Rd.
Wilson, MI 49896**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Meshiguad,

The purpose of this letter is to ensure that the Hannahville Indian Community Michigan is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Donald Shalifoe, Sr.
Keweenaw Bay Indian Community - Michigan
16429 Beartown Road
Baraga, MI 49908

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear President Shalifoe, Sr.,

The purpose of this letter is to ensure that the Keweenaw Bay Indian Community - Michigan is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

The DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA). Minnesota Power is also seeking authorizations from the U.S. Army Corps of Engineers – St. Paul District (USACE), a cooperating agency to DOE in the preparation of the above mentioned EIS. DOE is also acting as the lead federal agency for purposes of compliance with Section 106 for the NEPA cooperating agencies (per 36 CFR § 800.2(a)(2)).

As you are aware from DOE's tribal government-to-government consultation letters for the proposed GNTL project dated June 27, 2014, and November 26, 2014, Minnesota Power applied to DOE for a Presidential permit to construct, operate, maintain, and connect an approximately 220-mile, overhead, single-circuit 500 kV AC transmission line between the Minnesota - Manitoba border crossing northwest of Roseau, Minnesota, and terminating at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. Minnesota Power's proposal also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

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If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Juliea.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
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U.S. Department of Energy

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January 15, 2015

Gary Loonsfoot, Jr.
Keweenaw Bay Indian Community - Michigan
16429 Beartown Road
Baraga, MI 49908

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO/Director Loonsfoot, Jr. ,

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
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Washington, DC 20585

January 15, 2015

Michael Isham, Jr.
Lac Courte Orilles Band of Lake Superior Chippewa Indians of Wisconsin
13394 W. Prapania Rd.
Hayward, WI 54843

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Isham, Jr.,

The purpose of this letter is to ensure that the Lac Courte Orilles Band of Lake Superior Chippewa Indians of Wisconsin is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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Department of Energy
Washington, DC 20585

January 15, 2015

Jerry Smith
Lac Courte Orilles Band of Lake Superior Chippewa Indians of Wisconsin
13394 W. Prapania Rd.
Hayward, WI 54843

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Smith,

The purpose of this letter is to ensure that the Lac Courte Orilles Band of Lake Superior Chippewa Indians of Wisconsin is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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National Electricity Delivery Division, OE-20
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Department of Energy
Washington, DC 20585

January 15, 2015

Thomas Maulson
Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambe
PO Box 67
603 Peace Pipe Rd.
Lac du Flambeau, WI 54538

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear President Maulson,

The purpose of this letter is to ensure that the Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Washington, DC 20585

January 15, 2015

Melinda Young
Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambe
PO Box 67
603 Peace Pipe Rd.
Lac du Flambeau, WI 54538

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

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Department of Energy
Washington, DC 20585

January 15, 2015

James Williams Jr.
Lac Vieux Desert Band of Lake Superior Chippewa Indians - Michigan
PO Box 249 East Pow Wow Trail Road
Watersmeet, MI 49969

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairperson Williams Jr.,

The purpose of this letter is to ensure that the Lac Vieux Desert Band of Lake Superior Chippewa Indians - Michigan is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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As you are aware from DOE's tribal government-to-government consultation letters for the proposed GNTL project dated June 27, 2014, and November 26, 2014, Minnesota Power applied to DOE for a Presidential permit to construct, operate, maintain, and connect an approximately 220-mile, overhead, single-circuit 500 kV AC transmission line between the Minnesota - Manitoba border crossing northwest of Roseau, Minnesota, and terminating at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. Minnesota Power's proposal also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

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If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Juliea.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

**Amanda Burnette
Leech Lake Band of Ojibwe
115 6th Street NW
Suite E
Cass Lake, MN 56633**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Burnette,

The purpose of this letter is to ensure that the Leech Lake Band of Ojibwe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the

undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Carrie Jones
Leech Lake Band of Ojibwe
115 6th Street NW
Suite E
Cass Lake, MN 56633

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairwoman Jones,

The purpose of this letter is to ensure that the Leech Lake Band of Ojibwe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Michael Jandreau
Lower Brule Sioux Tribe of the Lower Brule Reservation
PO Box 187, Oyate Circle
Lower Brule, SD 57548

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Jandreau,

The purpose of this letter is to ensure that the Lower Brule Sioux Tribe of the Lower Brule Reservation is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Clair Green
Lower Brule Sioux Tribe of the Lower Brule Reservation
PO Box 187, Oyate Circle
Lower Brule, SD 57548

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Ms. Green,

The purpose of this letter is to ensure that the Lower Brule Sioux Tribe of the Lower Brule Reservation is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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Department of Energy
Washington, DC 20585

January 15, 2015

Scott Jones
Lower Brule Sioux Tribe of the Lower Brule Reservation
PO Box 187, Oyate Circle
Lower Brule, SD 57548

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Mr. Jones,

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Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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U.S. Department of Energy

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Department of Energy
Washington, DC 20585

January 15, 2015

**Grace Goldtooth-Campos
Lower Sioux Indian Community - Minnesota
32469 County Highway 2
Morton, MN 56270**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Goldtooth-Campos,

The purpose of this letter is to ensure that the Lower Sioux Indian Community - Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

DOE documented a Notice of Intent (NOI) to prepare an EIS in the *Federal Register* on June 27, 2014 (79 FR 36493), with an open public scoping period which ended on August 15, 2014. As a part of its scoping efforts, DOE held eight NEPA public scoping meetings from July 16 – July 24, 2014 (*see enclosed GNTL Regional Map*). For more information on DOE’s NEPA review and preparation of the EIS, please visit the DOE GNTL EIS website at <http://www.GreatNorthernEIS.org>. The GNTL Presidential permit application (including an initial cultural resources study), NOI and the *Great Northern Transmission Line Scoping Summary Report* (November 2014), can be viewed on this website. Future information from the DOE, relevant to the Section 106 consultation (once underway), will also be posted to this website.

If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Juliea.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Denny Prescott
Lower Sioux Indian Community - Minnesota
39527 Res. Highway 1
PO Box 308
Morton, MN 56270

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear President Prescott,

The purpose of this letter is to ensure that the Lower Sioux Indian Community - Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

The DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA). Minnesota Power is also seeking authorizations from the U.S. Army Corps of Engineers – St. Paul District (USACE), a cooperating agency to DOE in the preparation of the above mentioned EIS. DOE is also acting as the lead federal agency for purposes of compliance with Section 106 for the NEPA cooperating agencies (per 36 CFR § 800.2(a)(2)).

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undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

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If you have questions regarding the DOE's on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

**Natalie Weyaus
Mille Lacs Band of Ojibwe - Minnesota
43408 Oodena Drive
Onamia, MN 56359**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Weyaus,

The purpose of this letter is to ensure that the Mille Lacs Band of Ojibwe - Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Melanie Benjamin
Mille Lacs Band of Ojibwe - Minnesota
43408 Oodena Drive
Onamia, MN 56359

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chief Executive Benjamin,

The purpose of this letter is to ensure that the Mille Lacs Band of Ojibwe – Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, “Protection of Historic Properties.” The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

**Dean Goggles
Northern Arapaho Tribe
P.O. Box 396
Ft. Washakie, WY 82514**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Goggles,

The purpose of this letter is to ensure that the Northern Arapaho Tribe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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U.S. Department of Energy

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Department of Energy
Washington, DC 20585

January 15, 2015

Darlene Conrad
Northern Arapaho Tribe
P.O. Box 396
Ft. Washakie, WY 82514

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Conrad,

The purpose of this letter is to ensure that the Northern Arapaho Tribe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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Energy Reliability
U.S. Department of Energy

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Department of Energy
Washington, DC 20585

January 15, 2015

**James Walksalong
Northern Cheyenne Tribe
P.O. Box 128
Lame Deer, MT 59043**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Walksalong,

The purpose of this letter is to ensure that the Northern Cheyenne Tribe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

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If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Mike CatchesEnemy
Oglala Sioux Tribal Council of the Pine Ridge Reservation
PO Box 419
Pine Ridge, SD 57770

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO CatchesEnemy ,

The purpose of this letter is to ensure that the Oglala Sioux Tribal Council of the Pine Ridge Reservation is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Bryan V. Brewer
Oglala Sioux Tribal Council of the Pine Ridge Reservation
PO Box 2070
Pine Ridge, SD 57770

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear President Brewer,

The purpose of this letter is to ensure that the Oglala Sioux Tribal Council of the Pine Ridge Reservation is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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If you have questions regarding the DOE's on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Audrey Bennett (NAGPRA)
Prairie Island Indian Community in the State of Minnesota
5636 Sturgeon Lake Road
Welch, MN 55089

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Ms. Bennett,

The purpose of this letter is to ensure that the Prairie Island Indian Community in the State of Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Whitney White
Prairie Island Indian Community in the State of Minnesota
5636 Sturgeon Lake Road
Welch, MN 55089

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Ms. White,

The purpose of this letter is to ensure that the Prairie Island Indian Community in the State of Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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Energy Reliability
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Department of Energy
Washington, DC 20585

January 15, 2015

Ronald Johnson
Prairie Island Indian Community in the State of Minnesota
5636 Sturgeon Lake Road
Welch, MN 55089

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear President Johnson,

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Larry Balber
Red Cliff Band of Lake Superior Chippewa Indians - Wisconsin
88385 Pike Road, Highway 13
Bayfield, WI 54814

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Balber,

The purpose of this letter is to ensure that the Red Cliff Band of Lake Superior Chippewa Indians - Wisconsin is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

DOE documented a Notice of Intent (NOI) to prepare an EIS in the *Federal Register* on June 27, 2014 (79 FR 36493), with an open public scoping period which ended on August 15, 2014. As a part of its scoping efforts, DOE held eight NEPA public scoping meetings from July 16 – July 24, 2014 (*see enclosed GNTL Regional Map*). For more information on DOE’s NEPA review and preparation of the EIS, please visit the DOE GNTL EIS website at <http://www.GreatNorthernEIS.org>. The GNTL Presidential permit application (including an initial cultural resources study), NOI and the *Great Northern Transmission Line Scoping Summary Report* (November 2014), can be viewed on this website. Future information from the DOE, relevant to the Section 106 consultation (once underway), will also be posted to this website.

If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Juliea.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Kade Ferris
Red Lake Band of Chippewa Indians Minnesota
PO Box 297
Red Lake, MN 56671

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Kade Ferris,

The purpose of this letter is to ensure that the Red Lake Band of Chippewa Indians Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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Energy Reliability
U.S. Department of Energy

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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Kathryn Beaulieu (NAGPRA)
Red Lake Band of Chippewa Indians Minnesota
PO Box 297
Red Lake, MN 56671

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Ms. Beaulieu,

The purpose of this letter is to ensure that the Red Lake Band of Chippewa Indians Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Darrell G. Seki, Sr.
Red Lake Band of Chippewa Indians Minnesota
PO Box 550
Red Lake, MN 56671

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Seki, Sr.,

The purpose of this letter is to ensure that the Red Lake Band of Chippewa Indians Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
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U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Cyril Scott
Rosebud Sioux Tribe of the Rosebud Indian Reservation
PO Box 430
11 Legion Ave
Rosebud, SD 57570

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear President Scott,

The purpose of this letter is to ensure that the Rosebud Sioux Tribe of the Rosebud Indian Reservation is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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Department of Energy
Washington, DC 20585

January 15, 2015

**Russell Eagle Bear
Rosebud Sioux Tribe of the Rosebud Indian Reservation
PO Box 809
Rosebud, SD 57570**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Eagle Bear,

The purpose of this letter is to ensure that the Rosebud Sioux Tribe of the Rosebud Indian Reservation is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Richard Thomas
Santee Sioux of Nebraska
108 Spirit Lake Ave West
Niobrara, NE 68760

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Thomas,

The purpose of this letter is to ensure that the Santee Sioux of Nebraska is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

DOE documented a Notice of Intent (NOI) to prepare an EIS in the *Federal Register* on June 27, 2014 (79 FR 36493), with an open public scoping period which ended on August 15, 2014. As a part of its scoping efforts, DOE held eight NEPA public scoping meetings from July 16 – July 24, 2014 (*see enclosed GNTL Regional Map*). For more information on DOE’s NEPA review and preparation of the EIS, please visit the DOE GNTL EIS website at <http://www.GreatNorthernEIS.org>. The GNTL Presidential permit application (including an initial cultural resources study), NOI and the *Great Northern Transmission Line Scoping Summary Report* (November 2014), can be viewed on this website. Future information from the DOE, relevant to the Section 106 consultation (once underway), will also be posted to this website.

If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Juliea.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Roger Trudell
Santee Sioux of Nebraska
425 Frazier Ave N. Suite 2
Niobrara, NE 68760

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Trudell,

The purpose of this letter is to ensure that the Santee Sioux of Nebraska is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

The DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA). Minnesota Power is also seeking authorizations from the U.S. Army Corps of Engineers – St. Paul District (USACE), a cooperating agency to DOE in the preparation of the above mentioned EIS. DOE is also acting as the lead federal agency for purposes of compliance with Section 106 for the NEPA cooperating agencies (per 36 CFR § 800.2(a)(2)).

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Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Charles R. Vig
Shakopee Mdewakanton Sioux Community - Minnesota
2330 Sioux Trail NW
Prior Lake, MN 55372

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Vig,

The purpose of this letter is to ensure that the Shakopee Mdewakanton Sioux Community - Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

**Leonard Wabasha
Shakopee Mdewakanton Sioux Community MN
2330 Sioux Trail NW
Prior Lake, MN 55372**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Mr. Wabasha,

The purpose of this letter is to ensure that the Shakopee Mdewakanton Sioux Community MN is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Diane Desrosier
Sisseton- Wahpeton Oyate of the Lake Traverse Reservation
PO Box 907
205 Oak St. E. Suite 121
Sisseton, SD 57262

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Desrosier,

The purpose of this letter is to ensure that the Sisseton- Wahpeton Oyate of the Lake Traverse Reservation is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
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- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Robert Shepherd
Sisseton- Wahpeton Oyate of the Lake Traverse Reservation
PO Box 509
100 Veterans Memorial Drive
Agency Village, SD 57262

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Shepherd,

The purpose of this letter is to ensure that the Sisseton- Wahpeton Oyate of the Lake Traverse Reservation is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
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U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Chris McGeshick
Sokaogon Chippewa Community - Wisconsin
3051 Sand Lake Rd.
Crandon, WI 54520

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman McGeshick,

The purpose of this letter is to ensure that the Sokaogon Chippewa Community - Wisconsin is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

DOE documented a Notice of Intent (NOI) to prepare an EIS in the *Federal Register* on June 27, 2014 (79 FR 36493), with an open public scoping period which ended on August 15, 2014. As a part of its scoping efforts, DOE held eight NEPA public scoping meetings from July 16 – July 24, 2014 (*see enclosed GNTL Regional Map*). For more information on DOE’s NEPA review and preparation of the EIS, please visit the DOE GNTL EIS website at <http://www.GreatNorthernEIS.org>. The GNTL Presidential permit application (including an initial cultural resources study), NOI and the *Great Northern Transmission Line Scoping Summary Report* (November 2014), can be viewed on this website. Future information from the DOE, relevant to the Section 106 consultation (once underway), will also be posted to this website.

If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Juliea.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Myra Pearson
Spirit Lake Tribe North Dakota
PO Box 359
Fort Totten, ND 58335

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairperson Pearson,

The purpose of this letter is to ensure that the Spirit Lake Tribe North Dakota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

The DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA). Minnesota Power is also seeking authorizations from the U.S. Army Corps of Engineers – St. Paul District (USACE), a cooperating agency to DOE in the preparation of the above mentioned EIS. DOE is also acting as the lead federal agency for purposes of compliance with Section 106 for the NEPA cooperating agencies (per 36 CFR § 800.2(a)(2)).

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Darrell Smith
Spirit Lake Tribe North Dakota
PO Box 475
816 3rd ave North
Fort Totten, ND 58335

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Mr. Smith,

The purpose of this letter is to ensure that the Spirit Lake Tribe North Dakota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

**Waste'Win Young
Standing Rock Sioux Tribe
PO Box D
Fort Yates, ND 0**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Young,

The purpose of this letter is to ensure that the Standing Rock Sioux Tribe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Dave Archambault II
Standing Rock Sioux Tribe
PO Box D
Fort Yates, ND 58538

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Archambault II,

The purpose of this letter is to ensure that the Standing Rock Sioux Tribe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Julie Ann Smith, PhD
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National Electricity Delivery Division, OE-20
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Department of Energy
Washington, DC 20585

January 15, 2015

**Elgin Crows Breast
Three Affiliated Tribes of the Fort Berthold Reservation
404 Frontage Road
New Town, ND 58763**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Crows Breast,

The purpose of this letter is to ensure that the Three Affiliated Tribes of the Fort Berthold Reservation is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Julie Ann Smith, PhD
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Enclosed:

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Department of Energy
Washington, DC 20585

January 15, 2015

Mark Fox
Three Affiliated Tribes of the Fort Berthold Reservation
404 Frontage Road
New Town, ND 58763

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Fox,

The purpose of this letter is to ensure that the Three Affiliated Tribes of the Fort Berthold Reservation is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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DOE documented a Notice of Intent (NOI) to prepare an EIS in the *Federal Register* on June 27, 2014 (79 FR 36493), with an open public scoping period which ended on August 15, 2014. As a part of its scoping efforts, DOE held eight NEPA public scoping meetings from July 16 – July 24, 2014 (*see enclosed GNTL Regional Map*). For more information on DOE’s NEPA review and preparation of the EIS, please visit the DOE GNTL EIS website at <http://www.GreatNorthernEIS.org>. The GNTL Presidential permit application (including an initial cultural resources study), NOI and the *Great Northern Transmission Line Scoping Summary Report* (November 2014), can be viewed on this website. Future information from the DOE, relevant to the Section 106 consultation (once underway), will also be posted to this website.

If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Juliea.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

**Archie Gronvold
Turtle Mountain Band of Chippewa
PO Box 900
Belcourt, ND 58316**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Gronvold,

The purpose of this letter is to ensure that the Turtle Mountain Band of Chippewa is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

The DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA). Minnesota Power is also seeking authorizations from the U.S. Army Corps of Engineers – St. Paul District (USACE), a cooperating agency to DOE in the preparation of the above mentioned EIS. DOE is also acting as the lead federal agency for purposes of compliance with Section 106 for the NEPA cooperating agencies (per 36 CFR § 800.2(a)(2)).

As you are aware from DOE's tribal government-to-government consultation letters for the proposed GNTL project dated June 27, 2014, and November 26, 2014, Minnesota Power applied to DOE for a Presidential permit to construct, operate, maintain, and connect an approximately 220-mile, overhead, single-circuit 500 kV AC transmission line between the Minnesota - Manitoba border crossing northwest of Roseau, Minnesota, and terminating at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. Minnesota Power's proposal also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

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If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Richard McCloud
Turtle Mountain Band of Chippewa
PO Box 900
Belcourt, ND 58316

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman McCloud,

The purpose of this letter is to ensure that the Turtle Mountain Band of Chippewa is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Kevin Jensvold
Upper Sioux Community of Minnesota
PO Box 147
5722 Travers Lane
Granite Falls, MN 56241

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Jensvold,

The purpose of this letter is to ensure that the Upper Sioux Community of Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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If you have questions regarding the DOE's on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Marlow LaBatte
Upper Sioux Community of Minnesota
PO Box 147
5722 Travers Lane
Granite Falls, MN 56241

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO LaBatte,

The purpose of this letter is to ensure that the Upper Sioux Community of Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the

undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

**Dennis Gill
Wahpekute Band of Dakota
3322 Gill Road
Waubay, SD 57501**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Mr. Gill,

The purpose of this letter is to ensure that the Wahpekute Band of Dakota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Cayla Olson
White Earth Band of MN Chippewa Tribe MN
PO Box 418
White Earth, MN 56591

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Olson,

The purpose of this letter is to ensure that the White Earth Band of Minnesota Chippewa Tribe Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

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If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Juliea.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

Erma Vizenor
White Earth Band of MN Chippewa Tribe MN
PO Box 418
White Earth, MN 56591

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairwoman Vizenor,

The purpose of this letter is to ensure that the White Earth Band of Minnesota Chippewa Tribe Minnesota is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

The DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA). Minnesota Power is also seeking authorizations from the U.S. Army Corps of Engineers – St. Paul District (USACE), a cooperating agency to DOE in the preparation of the above mentioned EIS. DOE is also acting as the lead federal agency for purposes of compliance with Section 106 for the NEPA cooperating agencies (per 36 CFR § 800.2(a)(2)).

As you are aware from DOE's tribal government-to-government consultation letters for the proposed GNTL project dated June 27, 2014, and November 26, 2014, Minnesota Power applied to DOE for a Presidential permit to construct, operate, maintain, and connect an approximately 220-mile, overhead, single-circuit 500 kV AC transmission line between the Minnesota - Manitoba border crossing northwest of Roseau, Minnesota, and terminating at the existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota. Minnesota Power's proposal also includes associated substation facilities and transmission system modifications at the Blackberry Substation site, and construction of a new 500 kV Series Compensation Station (a structure which will house the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line). A new Blackberry 500 kV Substation would be required for the proposed Project and would be constructed adjacent to and east of the existing Blackberry 230/115 kV Substation.

Under Section 106, the DOE must identify and consider the potential effects of its actions on historic properties through a collaborative framework (consultation) to identify historic properties potentially affected by the proposed project, assess its effects, and seek ways to avoid, minimize or mitigate any adverse effects to historic properties (36 CFR §800.1(a)). In addition to the State Historic Preservation Officer (SHPO), federally recognized Indian tribes, and the Advisory Council on Historic Preservation (ACHP), Section 106 consulting parties may include certain individuals and organizations with a demonstrated interest in the undertaking due to the nature of their legal or economic relation to the undertaking or affected properties, or their concern with the undertaking's effects on historic properties (36 CFR §800.2).

The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

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If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Juliea.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

**Robert Flying Hawk
Yankton Sioux Tribe
PO Box 1153
Wagner, SD 57380**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Chairman Flying Hawk,

The purpose of this letter is to ensure that the Yankton Sioux Tribe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

The DOE is meeting its obligations under the NHPA concurrently with the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA). Minnesota Power is also seeking authorizations from the U.S. Army Corps of Engineers – St. Paul District (USACE), a cooperating agency to DOE in the preparation of the above mentioned EIS. DOE is also acting as the lead federal agency for purposes of compliance with Section 106 for the NEPA cooperating agencies (per 36 CFR § 800.2(a)(2)).

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If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Juliea.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)



Department of Energy
Washington, DC 20585

January 15, 2015

**Lana Gravatt
Yankton Sioux Tribe
Box 1153/ 800 Main Avenue SW
Wagner, SD 57380**

SUBJECT: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear THPO Gravatt,

The purpose of this letter is to ensure that the Yankton Sioux Tribe is aware that the Department of Energy (DOE) is initiating the Section 106 consultation process on the proposed Great Northern Transmission Line (GNTL) project to determine any potential adverse effects on historic properties pursuant to Section 106 of the National Historic Preservation Act of 1966 (NHPA) and 36 CFR Part 800, "Protection of Historic Properties." The DOE invites you to consult with us, as provided for by Section 106 and its implementing regulations.

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The DOE would like to obtain information from you about historic properties, including those of traditional religious and cultural importance to your Tribe and its members, in or near the project area, and also to provide you an opportunity to identify your concerns about such properties, including the identification of potential mitigation measures. Your assistance in the identification and evaluation of historic properties will provide us the opportunity to work together to resolve any adverse effects this undertaking may have on these properties. If available, we would welcome any information on the location and importance of archaeological sites, historic structures, and any other localities of interest to you that are known to occur in or near the proposed project area.

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If you would like to participate in the Section 106 consultation process, please confirm within 30 calendar days of the date of this letter, by sending a letter accepting this invitation to act as a Section 106 consulting party for the proposed GNTL project that identifies a primary point of contact for your Tribe, either as an attachment to an email at Juliea.Smith@hq.doe.gov, or by postal mail to 1000 Independence Avenue, SW, Washington, D.C., 20585. Please also include information for a primary point of contact for your organization (as applicable) in your acceptance letter. If you have any questions or concerns, please contact me at any time at the above email address or (202) 586-7668.

If you have questions regarding the DOE’s on-going review of the proposed GNTL project, or your participation as a Section 106 consulting party, please contact me at any time at the above email address or (202) 586-7668.

Yours very truly,



Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and
Energy Reliability
U.S. Department of Energy

Enclosed:

- GNTL Project Regional Map (from GNTL Scoping Summary Report)
-

BAD RIVER BAND OF LAKE SUPERIOR TRIBE OF CHIPPEWA INDIANS

CHIEF BLACKBIRD CENTER

P.O. Box 39 • Odanah, Wisconsin 54861

TRIBAL HISTORIC PRESERVATION OFFICE

February 13, 2015

Julie Ann Smith, Ph.D.
Electricity Policy Analyst
National Electricity Delivery Division (OE-20)
U.S. Department of Energy
1000 Independence Avenue SW
Washington, DC 20590

RE: GNTL Project

Dear Ms. Smith:

This letter is to confirm that, as it pertains to Section 106 of the National Historic Preservation Act, the Bad River Band of Lake Superior Tribe of Chippewa – Tribal Historic Preservation Office is interested in being a consulting party regarding the above referenced project.

We recognize that this project may have significant impacts to listed historic properties, properties determined eligible for listing in the National Register of Historic Places, and significant cultural and environmental impacts that affect the Bad River Tribe. As such, we intend to participate in as many consultation meetings as possible, pertaining to this project.

We intend to participate in the upcoming Tribal Consultation in Shakopee, MN, March 24-26, 2015. Please keep us informed of any changes in the project and upcoming meetings.

Weweni (Sincerely),

Edith Leoso
Bad River Band of Lake Superior Tribe of Chippewa
Tribal Historic Preservation Officer
P.O. Box 39
Odanah, WI 54861
Ph: (715) 682-7123 ext. 1662
FAX: (715) 682-7118
Email: THPO@badriver-nsn.gov

ESL/cc: NRD Director; file



Project ID: Tower Notifications

Booshoo,

The Lac Vieux Desert Tribal Historic Preservation Office received your request for information related to properties of traditional religious and cultural significance within the vicinity of the proposed facility and any comments or concerns for affects to those properties as according to your obligations under Section 106 of the National Historic Preservation Act and the Native American Graves Protection Act.

The Ketegitigaaning Ojibwe Nation Tribal Historic Preservation Office does not release information related to properties of traditional religious and cultural significance to anyone. However, through government-to-government consultation, the LVD THPO will review project documents to determine whether or not any of these sites exist within the Area of Potential Effects and if so what those effects may be. If we have identified any sites of concern in our research of the project area, we will notify you of the fact.

Please forward the following information: a short summary of the proposed ground disturbing activity, Legal Description of the Area of Potential Effects, Topo maps identifying the proposed area, and copies of any studies that have already been conducted regarding cultural resources and archaeology in their full format, including reports on archaeological and cultural sites identified.

To enable us to participate fully, the Ketegitigaaning Ojibwe Nations fee for such services is \$300. \$150.00 for historical/cultural records research and \$150.00 for archaeological records review per section of land. The fee must be submitted so that the research can be done. At that time we will review and make our determinations with the appropriate information that we have on file with our Tribe pertaining to this area.

All Collocation Projects will be handled in the same manner as new projects UNLESS the Ketegitigaaning Ojibwe Nation commented on the original project.

Should you have any questions, please feel free to contact me at 906-358-0137.

Miigwetch,

giiwégiizhigookway Martin, THPO

Fee can be sent along with the requested information to:

Make Check Payable to:

Ketegitigaaning Ojibwe Nation THPO
P.O. 249 (Post Office Mailing Address)
Watersmeet, Michigan 49969

Large Packets mailed by Fed Ex or UPS:

E23857 Poplar Circle
Watersmeet, MI 49969

Office: 906-358-0137 Fax: 906-358-4850

Email: gmartin@lvdtribal.com



LEECH LAKE BAND OF OJIBWE

Tribal Historic Preservation Office

*Amy Burnette, Tribal Historic Preservation Officer
Sheila Gotchie, Office Manager*

February 6, 2015

VIA INTERNET

Julie Ann Smith, Principal NEPA Document Manager
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585

Re: Proposed Great northern Transmission Line Project

Dear Ms. Smith;

Thank you for the opportunity to review and comment on the above-referenced project. Pursuant to the responsibilities given the Tribal Historic Preservation Officer by the National Historic Preservation Act of 1966, as amended in 1992 and the Procedures of the Advisory Council on Historic Preservation (36CFR800), the Leech Lake Tribal Historic Preservation Office will consult in regard to the Presidential permits to construct, operate, maintain, and connect a 500kV AC transmission line between the Minnesota Manitoba border, terminating at existing Blackberry substation in Grand Rapids Minnesota, to include facility and transmission system modifications and new adjacently located substation. Inclusion in the Section 106 consultation process is important to our office, and we are willing to accept consultation for this project.

Sincerely,

A handwritten signature in black ink, appearing to read "Amy Burnette", written over a horizontal line.

Amy Burnette, Tribal Historic Preservation Officer

Leech Lake Tribal Historic Preservation Office – Established in 1996

An Office Within the Division of Resources Management
190 Sailstar Drive NE * Cass Lake, Minnesota 56633
(218) 335-2940 * FAX (218) 335-2974
amy.burnette@llojibwe.org

A-369



Lower Sioux Indian Community

P.O. Box 308 • 39527 Reservation Highway 1

Morton, MN 56270

Cansayapi Otunwe

February 12, 2015

Julie Ann Smith, PhD
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and Energy Reliability
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, D.C., 20585

Re: Invitation to Consult on the Proposed Great Northern Transmission Line Project

Dear Ms. Smith,

Thank you for initiating consultation with the Lower Sioux Indian Community Tribal Historic Preservation Office. We appreciate the opportunity to provide comment on your proposed undertaking.

We have reviewed your proposed project and have determined that we would like to act as a Section 106 consulting party for the proposed Great Northern Transmission Line project. The primary point of contact for the Lower Sioux Indian Community is Grace Goldtooth-Campos, THPO.

If you have any questions, contact me at (507) 697-6185, or by email at lowersiouxthpo@lowersioux.com.

Sincerely,

Grace Goldtooth-Campos, THPO
Lower Sioux Indian Community



MILLE LACS BAND OF OJIBWE

Executive Branch of Tribal Government

February 18, 2015

Julie Ann Smith, PhD
Principal NEPA Document Manager
National Electricity Delivery Division, OE-20
Office of Electricity Delivery and Energy Reliability
U.S. Department of Energy
Washington, DC 20585

Re: Section 106 NHPA, Tribal Review and Consultation:

DNR/THPO-15-0203-02: Invitation to Consult on the Proposed Great Northern Transmission Line Project: MN Power applied to DOE for a Presidential permit to construct, operate, maintain, and connect an approximately 220 mile, overhead single-circuit 500 kV AC transmission line between the Minnesota- Manitoba border crossing northwest to Roseau, MN and terminating at the existing Blackberry 230/115 kV Substation near Grand Rapids, MN.

Dear Madam:

Thank you for the opportunity to comment on the above referenced project. It has been reviewed pursuant to the responsibilities given the Tribal Historic Preservation Officer (THPO) by the National Historic Preservation Act of 1966, as amended in 1992 and the Procedures of the Advisory Council on Historic Preservation (38CFR800).

I have reviewed the documentation: after careful consideration of our records, I have determined that the Mille Lacs Band of Ojibwe (DNR/E) does have known recorded sites of religious or cultural importance in this area. The Mille Lacs Band of Ojibwe accepts the invitation to consult on the Proposed Great Northern Transmission Line Project.

Should any human remains or suspected human remains be encountered, all work shall cease and the following personnel should be notified immediately in this order: County Sheriff's Office and the Office of the State Archaeologist. If any human remains or culturally affiliated objects are inadvertently discovered this will prompt the process to which the Band will become informed.

Please note: The above determination does not "exempt" future projects from Section 106 review. In the event any other tribe notifying us of concerns for a specific project, we may re-enter into the consultation process.

You may contact my staff at (320) 532-7450 if you have questions regarding our review of this project. Please refer to the MLB-THPO Number as stated above in all correspondence with this project.

Respectfully Submitted,

Susan Klapel

Commissioner of Natural Resources

DISTRICT I

43408 Oodena Drive • Onamia, MN 56359
(320) 532-4181 • Fax (320) 532-4209

DISTRICT II

36666 State Highway 65 • McGregor, MN 55760
(218) 768-3311 • Fax (218) 768-3903

DISTRICT IIA

2605 Chiminissing Drive • Isle, MN 56342
(320) 676-1102 • Fax (320) 676-3432

DISTRICT III

45749 Grace Lake Road • Sandstone, MN 55072
(320) 384-6240 • Fax (320) 384-6190

URBAN OFFICE

1433 E. Franklin Avenue, Ste. 7c • Minneapolis, MN 55072
(612) 872-1424 • Fax (612) 872-1257

A-371

Appendix B

Route Permit Generic Template and Example

GENERIC ROUTE PERMIT TEMPLATE

STATE OF MINNESOTA PUBLIC UTILITIES COMMISSION

ROUTE PERMIT FOR CONSTRUCTION OF A HIGH-VOLTAGE TRANSMISSION LINE AND ASSOCIATED FACILITIES

IN

[COUNTY]

ISSUED TO

[PERMITTEE]

PUC DOCKET NO. [Docket Number]

In accordance with the requirements of Minnesota Statutes Chapter 216E and Minnesota Rules Chapter 7850, this route permit is hereby issued to:

[PERMITTEE]

[Permittee] is authorized by this route permit to construct **[Provide a description of the project authorized by the Minnesota Public Utilities Commission]**.

The transmission line and associated facilities shall be built within the route identified in this permit and as portrayed on the official route maps, and in compliance with the conditions specified in this permit.

Approved and adopted this ____ day of **[Month, Year]**

BY ORDER OF THE COMMISSION

Burl W. Haar,
Executive Secretary

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GENERIC TEMPLATE

1.0 ROUTE PERMIT

The Minnesota Public Utilities Commission (Commission) hereby issues this route permit to [Permittee Name] (Permittee) pursuant to Minnesota Statutes Chapter 216E and Minnesota Rules Chapter 7850. This permit authorizes the [Permittee Name] to construct [Provide a description of the project as authorized by the Minnesota Public Utilities Commission], and as identified in the attached route permit maps, hereby incorporated into this document.

2.0 PROJECT DESCRIPTION

[Provide a description of the project as authorized by the Minnesota Public Utilities Commission]

2.1 Project Location

[Describe the location of the project including details such as the county, state, city, and townships, as appropriate]

County	Township Name	Township	Range	Section

2.2 Associated Facilities and Substations

[Provide a detailed description of the associated facilities and substations as authorized by the Commission]

2.3 Structures and Conductors

[Provide a detailed description of the structures and conductors authorized by the Commission]

The table below details specifics on the various structure types as presented in the route permit application.

Line Type	Conductor	Structure		Foundation	Height	Span
		Type	Material			

The transmission line and associated facilities shall be designed to meet or exceed all relevant local and state codes, the National Electric Safety Code (NESC), and North American Electric Reliability Corporation (NERC) requirements. This includes standards relating to clearances to

ground, clearance to crossing utilities, clearance to buildings, strength of materials, clearances over roadways, right-of-way widths, and permit requirements.

3.0 DESIGNATED ROUTE

The route designated by the Commission in this permit is the route described below and shown on the route maps attached to this permit. The route is generally described as follows:

[Provide detailed description of the authorized route including the route widths and any other specifics relevant to each segment. Also include a reference to the relevant route map to be attached to the permit.]

The identified route widths will provide the Permittee with flexibility for minor adjustments of the specific alignment or right-of-way to accommodate landowner requests and unforeseen conditions. The final alignment (i.e., permanent and maintained rights-of-way) will be located within this designated route unless otherwise authorized below.

3.1 Right-of-Way

The approved right-of-way width for the project is up to [number] feet. This permit anticipates that the right-of-way will generally conform to the anticipated alignment as noted on the attached route permit maps unless changes are requested by individual landowners or unforeseen conditions are encountered or are otherwise provided for by this permit. Any alignment modifications within the designated route shall be located so as to have comparable overall impacts relative to the factors in Minn. Rules, part 7850.4100, as does the alignment identified in this permit, and shall be specifically identified and documented in and approved as part of the plan and profile submitted pursuant to section 4.1 of this permit.

Where the transmission line route parallels existing highway and other road rights-of-way, the transmission line right-of-way shall occupy and utilize the existing right-of-way to the maximum extent possible, consistent with the criteria in Minn. Rules, part 7850.4100, the other requirements of this permit, and for highways under the jurisdiction of the Minnesota Department of Transportation (Mn/DOT) rules, policies, and procedures for accommodating utilities in trunk highway rights-of-way.

4.0 GENERAL CONDITIONS

The Permittee shall comply with the following conditions during construction of the transmission line and associated facilities over the life of this permit.

4.1 Plan and Profile

At least 30 calendar days before right-of-way preparation for construction begins on any segment or portion of the project, the Permittee shall provide the Commission with a plan and profile of the right-of-way and the specifications and drawings for right-of-way preparation, construction, structure specifications and locations, cleanup, and restoration for the transmission line. The documentation shall include maps depicting the plan and profile including the right-of-way, alignment, and structures in relation to the route and alignment approved per this permit.

The Permittee may not commence construction until the 30 days has expired or until the Commission has advised the Permittee in writing that it has completed its review of the documents and determined that the planned construction is consistent with this permit. If the Permittee intends to make any significant changes in its plan and profile or the specifications and drawings after submission to the Commission, the Permittee shall notify the Commission at least five days before implementing the changes. No changes shall be made that would be in violation of any of the terms of this permit.

4.2 Construction Practices

The Permittee shall follow those specific construction practices and material specifications described in [Permittee Name] Application to the Commission for a route permit for the [Project Name], dated [Date], unless this permit establishes a different requirement in which case this permit shall prevail.

4.2.1 Field Representative

At least 14 days prior to commencing construction, the Permittee shall advise the Commission in writing of the person or persons designated to be the field representative for the Permittee with the responsibility to oversee compliance with the conditions of this permit during construction.

The field representative's address, phone number, emergency phone number, and email shall be provided to the Commission and shall be made available to affected landowners, residents, public officials and other interested persons. The Permittee may change the field representative at any time upon written notice to the Commission.

4.2.2 Local Governments

During construction, the Permittee shall minimize any disruption to public services or public utilities. To the extent disruptions to public services or public utilities occur these

would be temporary and the Permittee will restore service promptly. Where any impacts to utilities have the potential to occur the Permittee will work with both landowners and local agencies to determine the most appropriate transmission structure placement.

The Permittee shall cooperate with county and city road authorities to develop appropriate signage and traffic management during construction.

4.2.3 Cleanup

All waste and scrap that is the product of construction shall be removed from the area and properly disposed of upon completion of each task. Personal litter, including bottles, cans, and paper from construction activities shall be removed on a daily basis.

4.2.4 Noise

Construction and routine maintenance activities shall be limited to daytime working hours, as defined in Minn. Rules, part 7030.0200, to ensure nighttime noise level standards will not be exceeded.

4.2.5 Vegetation Removal

The Permittee shall minimize the number of trees to be removed in selecting the right-of-way specifically preserving to the maximum extent practicable windbreaks, shelterbelts, living snow fences, and vegetation in areas such as trail and stream crossings where vegetative screening may minimize aesthetic impacts, to the extent that such actions do not violate sound engineering principles or system reliability criteria.

Tall tree species located within the transmission line right-of-way that endanger the safe and reliable operation of the transmission facility will be removed. Certain low growing species can be planted in the right-of-way to blend the difference between the right-of-way and adjacent wooded areas, to the extent that the low growing vegetation that will not pose a threat to the transmission facility or impede construction.

The Permittee shall avoid construction and maintenance practices, particularly the use of fertilizer, herbicides or other pesticides, that are inconsistent with the landowner's or tenant's use of the land.

4.2.6 Aesthetics

The Permittee shall consider input pertaining to visual impacts from landowners or land management agencies prior to final location of structures, rights-of-way, and other areas with the potential for visual disturbance. Care shall be used to preserve the natural landscape, minimize tree removal and prevent any unnecessary destruction of the natural surroundings in the vicinity of the project during construction and maintenance. Structures shall be placed at a distance, consistent with sound engineering principles and system reliability criteria, from intersecting roads, highway, or trail crossings and could cross roads to minimize or avoid impacts.

4.2.7 Erosion Control

The Permittee shall implement reasonable measures to minimize erosion and sedimentation during construction and shall employ perimeter sediment controls, protect exposed soil by promptly planting, seeding, using erosion control blankets and turf reinforcement mats, stabilizing slopes, protecting storm drain inlets, protecting soil stockpiles, and controlling vehicle tracking. Contours shall be graded as required so that all surfaces provide for proper drainage, blend with the natural terrain, and are left in a condition that will facilitate re-vegetation and prevent erosion. All areas disturbed during construction of the facilities shall be returned to pre-construction conditions.

When utilizing seed to establish temporary and permanent vegetative cover on exposed soil the Permittee shall select specific site characteristic seed certified to be free of noxious weeds.

Where larger areas of one acre or more are disturbed or other areas designated by the Minnesota Pollution Control Agency (MPCA), the Permittee shall obtain a National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Construction Stormwater permit from the MPCA.

4.2.8 Wetlands and Water Resources

Wetland impact avoidance measures that shall be implemented during design and construction of the transmission line will include spacing and placing the power poles at variable distances to span and avoid wetlands, watercourses, and floodplains.

Unavoidable wetland impacts as a result of the placement of poles shall be limited to the immediate area around the poles. To minimize impacts, construction in wetland areas shall occur during frozen ground conditions. When construction during winter is not possible, wooden or composite mats shall be used to protect wetland vegetation. Soil excavated from the wetlands and riparian areas shall be contained and not placed back into the wetland or riparian area.

Wetlands and riparian areas shall be accessed using the shortest route possible in order to minimize travel through wetland areas and prevent unnecessary impacts. No staging or stringing set up areas shall be placed within or adjacent to wetlands or water resources, as practicable. Power pole structures shall be assembled on upland areas before they are brought to the site for installation. Areas disturbed by construction activities shall be restored to pre-construction conditions.

All requirements of the U.S. Army Corps of Engineers (wetlands under federal jurisdiction), Minnesota Department of Natural Resources (Public Waters/Wetlands), and County (wetlands under the jurisdiction of the Minnesota Wetland Conservation Act) shall be met.

4.2.9 Temporary Work Space

The Permittee shall limit temporary easements to special construction access needs and additional staging or lay-down areas required outside of the authorized right-of-way. Temporary space shall be selected to limit the removal and impacts to vegetation. Temporary easements outside of the authorized transmission line right-of-way will be obtained from affected landowners through rental agreements and are not provided for in this permit.

Temporary driveways may be constructed between the roadway and the structures to minimize impact using the shortest route possible. Construction mats should also be used to minimize impacts on access paths and construction areas.

4.2.10 Restoration

The Permittee shall restore the right-of-way, temporary work spaces, access roads, abandoned right-of-way, and other public or private lands affected by construction of the transmission line. Restoration within the right-of-way must be compatible with the safe operation, maintenance, and inspection of the transmission line. Within 60 days after completion of all restoration activities, the Permittee shall advise the Commission in writing of the completion of such activities.

The Permittee shall fairly compensate landowners for damage to crops, fences, landscaping, drain tile, or other damages sustained during construction.

4.2.11 Notice of Permit

The Permittee shall inform all employees, contractors, and other persons involved in the transmission line construction of the terms and conditions of this permit.

4.3 Periodic Status Reports

The Permittee shall report to the Commission on progress regarding finalization of the route, design of structures, and construction of the transmission line. The Permittee need not report more frequently than monthly.

4.4 Complaint Procedures

Prior to the start of construction, the Permittee shall submit to the Commission the procedures that will be used to receive and respond to complaints. The procedures shall be in accordance with the requirements set forth in the complaint procedures attached to this permit [Attachment].

4.5 Notification to Landowners

The Permittee shall provide all affected landowners with a copy of this permit and, as a separate information piece, the complaint procedures at the time of the first contact with the landowners after issuance of this permit. The Permittee shall contact landowners prior to entering the property or conducting maintenance along the route.

The Permittee shall work with landowners to locate the high-voltage transmission line to minimize the loss of agricultural land, forest, and wetlands, and to avoid homes and farmsteads.

4.6 Completion of Construction

4.6.1 Notification to Commission

At least three days before the line is to be placed into service, the Permittee shall notify the Commission of the date on which the line will be placed into service and the date on which construction was complete.

4.6.2 As-Builts

Within 60 days after completion of construction, the Permittee shall submit copies of all final as-built plans and specifications developed during the project.

4.6.3 GPS Data

Within 60 days after completion of construction, the Permittee shall submit to the Commission, in the format requested by the Commission, geo-spatial information (e.g., ArcGIS compatible map files, GPS coordinates, associated database of characteristics) for all structures associated with the transmission line and each substation connected.

4.7 Electrical Performance Standards

4.7.1 Grounding

The Permittee shall design, construct, and operate the transmission line in a manner so that the maximum induced steady-state short-circuit current shall be limited to five milliamperes root mean square (rms) alternating current between the ground and any non-stationary object within the right-of-way, including but not limited to large motor vehicles and agricultural equipment. All fixed metallic objects on or off the right-of-way, except electric fences that parallel or cross the right-of-way, shall be grounded to the extent necessary to limit the induced short-circuit current between ground and the object so as not to exceed one milliamperes rms under steady state conditions of the transmission line and to comply with the ground fault conditions specified in the NESC. The Permittee shall address and rectify any induced current problems that arise during transmission line operation.

4.7.2 Electric Field

The transmission line shall be designed, constructed, and operated in such a manner that the electric field measured one meter above ground level immediately below the transmission line shall not exceed 8.0 kV/m rms.

4.7.3 Interference with Communication Devices

If interference with radio or television, satellite, wireless internet, GPS-based agriculture navigation systems or other communication devices is caused by the presence or operation of the transmission line, the Permittee shall take whatever action is feasible to restore or provide reception equivalent to reception levels in the immediate area just prior to the construction of the line.

4.8 Other Requirements

4.8.1 Applicable Codes

The Permittee shall comply with applicable NERC planning standards and requirements of the NESC including clearances to ground, clearance to crossing utilities, clearance to buildings, right-of way widths, erecting power poles, and stringing of transmission line conductors.

4.8.2 Other Permits

The Permittee shall comply with all applicable state rules and statutes. The Permittee shall obtain all required permits for the project and comply with the conditions of these permits. A list of the required permits is included in the permit application. The Permittee shall submit a copy of such permits to the Commission upon request.

4.8.3 Pre-emption

Pursuant to Minn. Stat. § 216E.10, this route permit shall be the sole approval required to be obtained by the Permittee for construction of the transmission facilities and this permit shall supersede and preempt all zoning, building, or land use rules, regulations, or ordinances promulgated by regional, county, local and special purpose government.

4.8.4 Archaeological and Historic Resources

The Permittee shall make every effort to avoid impacts to identified archaeological and historic resources when installing the high-voltage transmission line on the approved route. In the event that a resource is encountered, the State Historic Preservation Office should be contacted and consulted; the nature of the resource should be identified; and a determination should be made on the eligibility for listing in the National Register of Historic Places. Where feasible, avoidance of the resource is required.

4.8.5 Avian Mitigation

The Permittee's standard transmission design shall incorporate adequate spacing of conductors and grounding devices in accordance with Avian Power Line Interaction Committee standards to eliminate the risk of electrocution to raptors with larger wingspans that may simultaneously come in contact with a conductor and grounding devices.

4.9 Delay in Construction

If the Permittee has not commenced construction or improvement of the route within four years after the date of issuance of this permit the Permittee shall file a report on the failure to construct

and the Commission shall consider suspension of the permit in accordance with Minn. Rules, part 7850.4700.

4.10 Special Conditions

The Permittee shall provide a report to the Commission as part of the plan and profile submission that describes the actions taken and mitigative measures developed regarding the project and the following special conditions.

[Describe any special conditions]

Examples of special conditions included in permits:

- *Avian Mitigation Plan*
- *Environmental Control Plan*
- *Agriculture Mitigation Plan*
- *Vegetation Management Plan*
- *Property Restrictions*
- *Minnesota Department of Natural Resources Requirements*
- *Minnesota Pollution Control Requirements*
- *Minnesota State Historical Preservation Office Requirements*
- *Minnesota Department of Transportation Requirements*

5.0 PERMIT AMENDMENT

This permit may be amended at any time by the Commission. Any person may request an amendment of the conditions of this permit by submitting a request to the Commission in writing describing the amendment sought and the reasons for the amendment. The Commission will mail notice of receipt of the request to the Permittee. The Commission may amend the conditions after affording the Permittee and interested persons such process as is required.

6.0 TRANSFER OF PERMIT

The Permittee may request at any time that the Commission transfer this permit to another person or entity. The Permittee shall provide the name and description of the person or entity to whom the permit is requested to be transferred, the reasons for the transfer, a description of the facilities affected, and the proposed effective date of the transfer.

The person to whom the permit is to be transferred shall provide the Commission with such information as the Commission shall require to determine whether the new Permittee can comply

with the conditions of the permit. The Commission may authorize transfer of the permit after affording the Permittee, the new Permittee, and interested persons such process as is required.

7.0 REVOCATION OR SUSPENSION OF THE PERMIT

The Commission may initiate action to revoke or suspend this permit at any time. The Commission shall act in accordance with the requirements of Minn. Rules, part 7850.5100, to revoke or suspend the permit.

GENERIC TEMPLATE

**MINNESOTA PUBLIC UTILITIES COMMISSION
COMPLAINT HANDLING PROCEDURES FOR
HIGH-VOLTAGE TRANSMISSION LINES**

A. Purpose

To establish a uniform and timely method of reporting complaints received by the permittee concerning permit conditions for site preparation, construction, cleanup and restoration, operation, and resolution of such complaints.

B. Scope

This document describes complaint reporting procedures and frequency.

C. Applicability

The procedures shall be used for all complaints received by the permittee and all complaints received by the Minnesota Public Utilities Commission (Commission) under Minn. Rules, parts 7829.1500 or 7829.1700 relevant to this permit.

D. Definitions

Complaint: A verbal or written statement presented to the permittees by a person expressing dissatisfaction or concern regarding site preparation, cleanup or restoration or other route and associated facilities permit conditions. Complaints do not include requests, inquiries, questions or general comments.

Substantial Complaint: A written complaint alleging a violation of a specific permit condition that, if substantiated, could result in permit modification or suspension pursuant to the applicable regulations.

Unresolved Complaint: A complaint which, despite the good faith efforts of the permittee and a person, remains to both or one of the parties unresolved or unsatisfactorily resolved.

Person: An individual, partnership, joint venture, private or public corporation, association, firm, public service company, cooperative, political subdivision, municipal corporation, government agency, public utility district, or any other entity, public or private, however organized.

E. Complaint Documentation and Processing

1. The permittee shall designate an individual to summarize complaints for the Commission. This person's name, phone number and email address shall accompany all complaint submittals.

2. A person presenting the complaint should to the extent possible, include the following information in their communications:
 - a. name, address, phone number, and email address;
 - b. date of complaint;
 - c. tract or parcel number; and
 - d. whether the complaint relates to a permit matter or a compliance issue.

3. The permittee shall document all complaints by maintaining a record of all applicable information concerning the complaint, including the following:
 - a. docket number and project name;
 - b. name of complainant, address, phone number and email address;
 - c. precise description of property or parcel number;
 - d. name of permittee representative receiving complaint and date of receipt;
 - e. nature of complaint and the applicable permit condition(s);
 - f. activities undertaken to resolve the complaint; and
 - g. final disposition of the complaint.

F. Reporting Requirements

The permittee shall commence complaint reporting at the beginning of project construction and continue through the term of the permit. The permittee shall report all complaints to the Commission according to the following schedule:

Immediate Reports: All substantial complaints shall be reported to the Commission the same day received, or on the following working day for complaints received after working hours. Such reports are to be directed to the Commission's Consumer Affairs Office at 1-800-657-3782 (voice messages are acceptable) or *consumer.puc@state.mn.us*. For e-mail reporting, the email subject line should read "EFP Complaint" and include the appropriate project docket number.

Monthly Reports: By the 15th of each month, a summary of all complaints, including substantial complaints received or resolved during the preceding month, shall be filed to Dr. Burl W. Haar, Executive Secretary, Public Utilities Commission, using the eDockets system. The eDockets system is located at:

<https://www.edockets.state.mn.us/EFiling/home.jsp>

If no complaints were received during the preceding month, the permittee shall submit (eFile) a summary indicating that no complaints were received.

G. Complaints Received by the Commission

Complaints received directly by the Commission from aggrieved persons regarding site preparation, construction, cleanup, restoration, operation and maintenance shall be promptly sent to the permittee.

H. Commission Process for Unresolved Complaints

Commission staff shall perform an initial evaluation of unresolved complaints submitted to the Commission. Complaints raising substantial permit issues shall be processed and resolved by the Commission. Staff shall notify the permittee and appropriate persons if it determines that the complaint is a substantial complaint. With respect to such complaints, each party shall submit a written summary of its position to the Commission no later than ten (10) days after receipt of the staff notification. The complaint will be presented to the Commission for a decision as soon as practicable.

I. Permittee Contacts for Complaints and Complaint Reporting

Complaints may be filed by mail or email to:

[Permittee Name]

[Permittee Complaint Contact]

[Permittee Address]

[Permittee Telephone Number]

[Permittee Email]

This information shall be maintained current by informing the Commission of any changes by eFiling, as they become effective.

**MINNESOTA PUBLIC UTILITIES COMMISSION
COMPLIANCE FILING PROCEDURE FOR
PERMITTED ENERGY FACILITIES**

A. Purpose

To establish a uniform and timely method of submitting information required by the Commission energy facility permits.

B. Scope and Applicability

This procedure encompasses all compliance filings required by permit.

C. Definitions

Compliance Filing: A filing of information to the Commission, where the information is required by a Commission site or route permit.

D. Responsibilities

1. The permittee shall eFile all compliance filings with Dr. Burl W. Haar, Executive Secretary, Public Utilities Commission, through the eDockets system. The eDockets system is located at: <https://www.edockets.state.mn.us/EFiling/home.jsp>

General instructions are provided on the eDockets website. Permittees must register on the website to eFile documents.

2. All filings must have a cover sheet that includes:

- a. Date
- b. Name of submitter/permittee
- c. Type of permit (site or route)
- d. Project location
- e. Project docket number
- f. Permit section under which the filing is made
- g. Short description of the filing

3. Filings that are graphic intensive (e.g., maps, engineered drawings) must, in addition to being eFiled, be submitted as paper copies and on CD. Paper copies and CDs should be sent to: 1) Dr. Burl W. Haar, Executive Secretary, Minnesota Public Utilities Commission, 121 7th Place East, Suite 350, St. Paul, MN 55101-2147, and 2) Department of Commerce, Energy Facility Permitting, 85 7th Place East, Suite 500, St. Paul, MN 55101-2198.

The Commission may request a paper copy of any eFiled document.

GENERIC ROUTE PERMIT TEMPLATE

STATE OF MINNESOTA PUBLIC UTILITIES COMMISSION

ROUTE PERMIT FOR CONSTRUCTION OF A HIGH-VOLTAGE TRANSMISSION LINE AND ASSOCIATED FACILITIES

IN

[COUNTY]

ISSUED TO

[PERMITTEE]

PUC DOCKET NO. [Docket Number]

In accordance with the requirements of Minnesota Statutes Chapter 216E and Minnesota Rules Chapter 7850, this route permit is hereby issued to:

[PERMITTEE]

[Permittee] is authorized by this route permit to construct **[Provide a description of the project authorized by the Minnesota Public Utilities Commission]**.

The transmission line and associated facilities shall be built within the route identified in this permit and as portrayed on the official route maps, and in compliance with the conditions specified in this permit.

Approved and adopted this ____ day of **[Month, Year]**

BY ORDER OF THE COMMISSION

Burl W. Haar,
Executive Secretary

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GENERIC TEMPLATE

1.0 ROUTE PERMIT

The Minnesota Public Utilities Commission (Commission) hereby issues this route permit to [Permittee Name] (Permittee) pursuant to Minnesota Statutes Chapter 216E and Minnesota Rules Chapter 7850. This permit authorizes the [Permittee Name] to construct [Provide a description of the project as authorized by the Minnesota Public Utilities Commission], and as identified in the attached route permit maps, hereby incorporated into this document.

2.0 PROJECT DESCRIPTION

[Provide a description of the project as authorized by the Minnesota Public Utilities Commission]

2.1 Project Location

[Describe the location of the project including details such as the county, state, city, and townships, as appropriate]

County	Township Name	Township	Range	Section

2.2 Associated Facilities and Substations

[Provide a detailed description of the associated facilities and substations as authorized by the Commission]

2.3 Structures and Conductors

[Provide a detailed description of the structures and conductors authorized by the Commission]

The table below details specifics on the various structure types as presented in the route permit application.

Line Type	Conductor	Structure		Foundation	Height	Span
		Type	Material			

The transmission line and associated facilities shall be designed to meet or exceed all relevant local and state codes, the National Electric Safety Code (NESC), and North American Electric Reliability Corporation (NERC) requirements. This includes standards relating to clearances to

ground, clearance to crossing utilities, clearance to buildings, strength of materials, clearances over roadways, right-of-way widths, and permit requirements.

3.0 DESIGNATED ROUTE

The route designated by the Commission in this permit is the route described below and shown on the route maps attached to this permit. The route is generally described as follows:

[Provide detailed description of the authorized route including the route widths and any other specifics relevant to each segment. Also include a reference to the relevant route map to be attached to the permit.]

The identified route widths will provide the Permittee with flexibility for minor adjustments of the specific alignment or right-of-way to accommodate landowner requests and unforeseen conditions. The final alignment (i.e., permanent and maintained rights-of-way) will be located within this designated route unless otherwise authorized below.

3.1 Right-of-Way

The approved right-of-way width for the project is up to [number] feet. This permit anticipates that the right-of-way will generally conform to the anticipated alignment as noted on the attached route permit maps unless changes are requested by individual landowners or unforeseen conditions are encountered or are otherwise provided for by this permit. Any alignment modifications within the designated route shall be located so as to have comparable overall impacts relative to the factors in Minn. Rules, part 7850.4100, as does the alignment identified in this permit, and shall be specifically identified and documented in and approved as part of the plan and profile submitted pursuant to section 4.1 of this permit.

Where the transmission line route parallels existing highway and other road rights-of-way, the transmission line right-of-way shall occupy and utilize the existing right-of-way to the maximum extent possible, consistent with the criteria in Minn. Rules, part 7850.4100, the other requirements of this permit, and for highways under the jurisdiction of the Minnesota Department of Transportation (Mn/DOT) rules, policies, and procedures for accommodating utilities in trunk highway rights-of-way.

4.0 GENERAL CONDITIONS

The Permittee shall comply with the following conditions during construction of the transmission line and associated facilities over the life of this permit.

4.1 Plan and Profile

At least 30 calendar days before right-of-way preparation for construction begins on any segment or portion of the project, the Permittee shall provide the Commission with a plan and profile of the right-of-way and the specifications and drawings for right-of-way preparation, construction, structure specifications and locations, cleanup, and restoration for the transmission line. The documentation shall include maps depicting the plan and profile including the right-of-way, alignment, and structures in relation to the route and alignment approved per this permit.

The Permittee may not commence construction until the 30 days has expired or until the Commission has advised the Permittee in writing that it has completed its review of the documents and determined that the planned construction is consistent with this permit. If the Permittee intends to make any significant changes in its plan and profile or the specifications and drawings after submission to the Commission, the Permittee shall notify the Commission at least five days before implementing the changes. No changes shall be made that would be in violation of any of the terms of this permit.

4.2 Construction Practices

The Permittee shall follow those specific construction practices and material specifications described in [Permittee Name] Application to the Commission for a route permit for the [Project Name], dated [Date], unless this permit establishes a different requirement in which case this permit shall prevail.

4.2.1 Field Representative

At least 14 days prior to commencing construction, the Permittee shall advise the Commission in writing of the person or persons designated to be the field representative for the Permittee with the responsibility to oversee compliance with the conditions of this permit during construction.

The field representative's address, phone number, emergency phone number, and email shall be provided to the Commission and shall be made available to affected landowners, residents, public officials and other interested persons. The Permittee may change the field representative at any time upon written notice to the Commission.

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During construction, the Permittee shall minimize any disruption to public services or public utilities. To the extent disruptions to public services or public utilities occur these

would be temporary and the Permittee will restore service promptly. Where any impacts to utilities have the potential to occur the Permittee will work with both landowners and local agencies to determine the most appropriate transmission structure placement.

The Permittee shall cooperate with county and city road authorities to develop appropriate signage and traffic management during construction.

4.2.3 Cleanup

All waste and scrap that is the product of construction shall be removed from the area and properly disposed of upon completion of each task. Personal litter, including bottles, cans, and paper from construction activities shall be removed on a daily basis.

4.2.4 Noise

Construction and routine maintenance activities shall be limited to daytime working hours, as defined in Minn. Rules, part 7030.0200, to ensure nighttime noise level standards will not be exceeded.

4.2.5 Vegetation Removal

The Permittee shall minimize the number of trees to be removed in selecting the right-of-way specifically preserving to the maximum extent practicable windbreaks, shelterbelts, living snow fences, and vegetation in areas such as trail and stream crossings where vegetative screening may minimize aesthetic impacts, to the extent that such actions do not violate sound engineering principles or system reliability criteria.

Tall tree species located within the transmission line right-of-way that endanger the safe and reliable operation of the transmission facility will be removed. Certain low growing species can be planted in the right-of-way to blend the difference between the right-of-way and adjacent wooded areas, to the extent that the low growing vegetation that will not pose a threat to the transmission facility or impede construction.

The Permittee shall avoid construction and maintenance practices, particularly the use of fertilizer, herbicides or other pesticides, that are inconsistent with the landowner's or tenant's use of the land.

4.2.6 Aesthetics

The Permittee shall consider input pertaining to visual impacts from landowners or land management agencies prior to final location of structures, rights-of-way, and other areas with the potential for visual disturbance. Care shall be used to preserve the natural landscape, minimize tree removal and prevent any unnecessary destruction of the natural surroundings in the vicinity of the project during construction and maintenance. Structures shall be placed at a distance, consistent with sound engineering principles and system reliability criteria, from intersecting roads, highway, or trail crossings and could cross roads to minimize or avoid impacts.

4.2.7 Erosion Control

The Permittee shall implement reasonable measures to minimize erosion and sedimentation during construction and shall employ perimeter sediment controls, protect exposed soil by promptly planting, seeding, using erosion control blankets and turf reinforcement mats, stabilizing slopes, protecting storm drain inlets, protecting soil stockpiles, and controlling vehicle tracking. Contours shall be graded as required so that all surfaces provide for proper drainage, blend with the natural terrain, and are left in a condition that will facilitate re-vegetation and prevent erosion. All areas disturbed during construction of the facilities shall be returned to pre-construction conditions.

When utilizing seed to establish temporary and permanent vegetative cover on exposed soil the Permittee shall select specific site characteristic seed certified to be free of noxious weeds.

Where larger areas of one acre or more are disturbed or other areas designated by the Minnesota Pollution Control Agency (MPCA), the Permittee shall obtain a National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Construction Stormwater permit from the MPCA.

4.2.8 Wetlands and Water Resources

Wetland impact avoidance measures that shall be implemented during design and construction of the transmission line will include spacing and placing the power poles at variable distances to span and avoid wetlands, watercourses, and floodplains.

Unavoidable wetland impacts as a result of the placement of poles shall be limited to the immediate area around the poles. To minimize impacts, construction in wetland areas shall occur during frozen ground conditions. When construction during winter is not possible, wooden or composite mats shall be used to protect wetland vegetation. Soil excavated from the wetlands and riparian areas shall be contained and not placed back into the wetland or riparian area.

Wetlands and riparian areas shall be accessed using the shortest route possible in order to minimize travel through wetland areas and prevent unnecessary impacts. No staging or stringing set up areas shall be placed within or adjacent to wetlands or water resources, as practicable. Power pole structures shall be assembled on upland areas before they are brought to the site for installation. Areas disturbed by construction activities shall be restored to pre-construction conditions.

All requirements of the U.S. Army Corps of Engineers (wetlands under federal jurisdiction), Minnesota Department of Natural Resources (Public Waters/Wetlands), and County (wetlands under the jurisdiction of the Minnesota Wetland Conservation Act) shall be met.

4.2.9 Temporary Work Space

The Permittee shall limit temporary easements to special construction access needs and additional staging or lay-down areas required outside of the authorized right-of-way. Temporary space shall be selected to limit the removal and impacts to vegetation. Temporary easements outside of the authorized transmission line right-of-way will be obtained from affected landowners through rental agreements and are not provided for in this permit.

Temporary driveways may be constructed between the roadway and the structures to minimize impact using the shortest route possible. Construction mats should also be used to minimize impacts on access paths and construction areas.

4.2.10 Restoration

The Permittee shall restore the right-of-way, temporary work spaces, access roads, abandoned right-of-way, and other public or private lands affected by construction of the transmission line. Restoration within the right-of-way must be compatible with the safe operation, maintenance, and inspection of the transmission line. Within 60 days after completion of all restoration activities, the Permittee shall advise the Commission in writing of the completion of such activities.

The Permittee shall fairly compensate landowners for damage to crops, fences, landscaping, drain tile, or other damages sustained during construction.

4.2.11 Notice of Permit

The Permittee shall inform all employees, contractors, and other persons involved in the transmission line construction of the terms and conditions of this permit.

4.3 Periodic Status Reports

The Permittee shall report to the Commission on progress regarding finalization of the route, design of structures, and construction of the transmission line. The Permittee need not report more frequently than monthly.

4.4 Complaint Procedures

Prior to the start of construction, the Permittee shall submit to the Commission the procedures that will be used to receive and respond to complaints. The procedures shall be in accordance with the requirements set forth in the complaint procedures attached to this permit [Attachment].

4.5 Notification to Landowners

The Permittee shall provide all affected landowners with a copy of this permit and, as a separate information piece, the complaint procedures at the time of the first contact with the landowners after issuance of this permit. The Permittee shall contact landowners prior to entering the property or conducting maintenance along the route.

The Permittee shall work with landowners to locate the high-voltage transmission line to minimize the loss of agricultural land, forest, and wetlands, and to avoid homes and farmsteads.

4.6 Completion of Construction

4.6.1 Notification to Commission

At least three days before the line is to be placed into service, the Permittee shall notify the Commission of the date on which the line will be placed into service and the date on which construction was complete.

4.6.2 As-Builts

Within 60 days after completion of construction, the Permittee shall submit copies of all final as-built plans and specifications developed during the project.

4.6.3 GPS Data

Within 60 days after completion of construction, the Permittee shall submit to the Commission, in the format requested by the Commission, geo-spatial information (e.g., ArcGIS compatible map files, GPS coordinates, associated database of characteristics) for all structures associated with the transmission line and each substation connected.

4.7 Electrical Performance Standards

4.7.1 Grounding

The Permittee shall design, construct, and operate the transmission line in a manner so that the maximum induced steady-state short-circuit current shall be limited to five milliamperes root mean square (rms) alternating current between the ground and any non-stationary object within the right-of-way, including but not limited to large motor vehicles and agricultural equipment. All fixed metallic objects on or off the right-of-way, except electric fences that parallel or cross the right-of-way, shall be grounded to the extent necessary to limit the induced short-circuit current between ground and the object so as not to exceed one milliamperes rms under steady state conditions of the transmission line and to comply with the ground fault conditions specified in the NESC. The Permittee shall address and rectify any induced current problems that arise during transmission line operation.

4.7.2 Electric Field

The transmission line shall be designed, constructed, and operated in such a manner that the electric field measured one meter above ground level immediately below the transmission line shall not exceed 8.0 kV/m rms.

4.7.3 Interference with Communication Devices

If interference with radio or television, satellite, wireless internet, GPS-based agriculture navigation systems or other communication devices is caused by the presence or operation of the transmission line, the Permittee shall take whatever action is feasible to restore or provide reception equivalent to reception levels in the immediate area just prior to the construction of the line.

4.8 Other Requirements

4.8.1 Applicable Codes

The Permittee shall comply with applicable NERC planning standards and requirements of the NESC including clearances to ground, clearance to crossing utilities, clearance to buildings, right-of way widths, erecting power poles, and stringing of transmission line conductors.

4.8.2 Other Permits

The Permittee shall comply with all applicable state rules and statutes. The Permittee shall obtain all required permits for the project and comply with the conditions of these permits. A list of the required permits is included in the permit application. The Permittee shall submit a copy of such permits to the Commission upon request.

4.8.3 Pre-emption

Pursuant to Minn. Stat. § 216E.10, this route permit shall be the sole approval required to be obtained by the Permittee for construction of the transmission facilities and this permit shall supersede and preempt all zoning, building, or land use rules, regulations, or ordinances promulgated by regional, county, local and special purpose government.

4.8.4 Archaeological and Historic Resources

The Permittee shall make every effort to avoid impacts to identified archaeological and historic resources when installing the high-voltage transmission line on the approved route. In the event that a resource is encountered, the State Historic Preservation Office should be contacted and consulted; the nature of the resource should be identified; and a determination should be made on the eligibility for listing in the National Register of Historic Places. Where feasible, avoidance of the resource is required.

4.8.5 Avian Mitigation

The Permittee's standard transmission design shall incorporate adequate spacing of conductors and grounding devices in accordance with Avian Power Line Interaction Committee standards to eliminate the risk of electrocution to raptors with larger wingspans that may simultaneously come in contact with a conductor and grounding devices.

4.9 Delay in Construction

If the Permittee has not commenced construction or improvement of the route within four years after the date of issuance of this permit the Permittee shall file a report on the failure to construct

and the Commission shall consider suspension of the permit in accordance with Minn. Rules, part 7850.4700.

4.10 Special Conditions

The Permittee shall provide a report to the Commission as part of the plan and profile submission that describes the actions taken and mitigative measures developed regarding the project and the following special conditions.

[Describe any special conditions]

Examples of special conditions included in permits:

- *Avian Mitigation Plan*
- *Environmental Control Plan*
- *Agriculture Mitigation Plan*
- *Vegetation Management Plan*
- *Property Restrictions*
- *Minnesota Department of Natural Resources Requirements*
- *Minnesota Pollution Control Requirements*
- *Minnesota State Historical Preservation Office Requirements*
- *Minnesota Department of Transportation Requirements*

5.0 PERMIT AMENDMENT

This permit may be amended at any time by the Commission. Any person may request an amendment of the conditions of this permit by submitting a request to the Commission in writing describing the amendment sought and the reasons for the amendment. The Commission will mail notice of receipt of the request to the Permittee. The Commission may amend the conditions after affording the Permittee and interested persons such process as is required.

6.0 TRANSFER OF PERMIT

The Permittee may request at any time that the Commission transfer this permit to another person or entity. The Permittee shall provide the name and description of the person or entity to whom the permit is requested to be transferred, the reasons for the transfer, a description of the facilities affected, and the proposed effective date of the transfer.

The person to whom the permit is to be transferred shall provide the Commission with such information as the Commission shall require to determine whether the new Permittee can comply

with the conditions of the permit. The Commission may authorize transfer of the permit after affording the Permittee, the new Permittee, and interested persons such process as is required.

7.0 REVOCATION OR SUSPENSION OF THE PERMIT

The Commission may initiate action to revoke or suspend this permit at any time. The Commission shall act in accordance with the requirements of Minn. Rules, part 7850.5100, to revoke or suspend the permit.

GENERIC TEMPLATE

**MINNESOTA PUBLIC UTILITIES COMMISSION
COMPLAINT HANDLING PROCEDURES FOR
HIGH-VOLTAGE TRANSMISSION LINES**

A. Purpose

To establish a uniform and timely method of reporting complaints received by the permittee concerning permit conditions for site preparation, construction, cleanup and restoration, operation, and resolution of such complaints.

B. Scope

This document describes complaint reporting procedures and frequency.

C. Applicability

The procedures shall be used for all complaints received by the permittee and all complaints received by the Minnesota Public Utilities Commission (Commission) under Minn. Rules, parts 7829.1500 or 7829.1700 relevant to this permit.

D. Definitions

Complaint: A verbal or written statement presented to the permittees by a person expressing dissatisfaction or concern regarding site preparation, cleanup or restoration or other route and associated facilities permit conditions. Complaints do not include requests, inquiries, questions or general comments.

Substantial Complaint: A written complaint alleging a violation of a specific permit condition that, if substantiated, could result in permit modification or suspension pursuant to the applicable regulations.

Unresolved Complaint: A complaint which, despite the good faith efforts of the permittee and a person, remains to both or one of the parties unresolved or unsatisfactorily resolved.

Person: An individual, partnership, joint venture, private or public corporation, association, firm, public service company, cooperative, political subdivision, municipal corporation, government agency, public utility district, or any other entity, public or private, however organized.

E. Complaint Documentation and Processing

1. The permittee shall designate an individual to summarize complaints for the Commission. This person's name, phone number and email address shall accompany all complaint submittals.

2. A person presenting the complaint should to the extent possible, include the following information in their communications:
 - a. name, address, phone number, and email address;
 - b. date of complaint;
 - c. tract or parcel number; and
 - d. whether the complaint relates to a permit matter or a compliance issue.

3. The permittee shall document all complaints by maintaining a record of all applicable information concerning the complaint, including the following:
 - a. docket number and project name;
 - b. name of complainant, address, phone number and email address;
 - c. precise description of property or parcel number;
 - d. name of permittee representative receiving complaint and date of receipt;
 - e. nature of complaint and the applicable permit condition(s);
 - f. activities undertaken to resolve the complaint; and
 - g. final disposition of the complaint.

F. Reporting Requirements

The permittee shall commence complaint reporting at the beginning of project construction and continue through the term of the permit. The permittee shall report all complaints to the Commission according to the following schedule:

Immediate Reports: All substantial complaints shall be reported to the Commission the same day received, or on the following working day for complaints received after working hours. Such reports are to be directed to the Commission's Consumer Affairs Office at 1-800-657-3782 (voice messages are acceptable) or *consumer.puc@state.mn.us*. For e-mail reporting, the email subject line should read "EFP Complaint" and include the appropriate project docket number.

Monthly Reports: By the 15th of each month, a summary of all complaints, including substantial complaints received or resolved during the preceding month, shall be filed to Dr. Burl W. Haar, Executive Secretary, Public Utilities Commission, using the eDockets system. The eDockets system is located at:

<https://www.edockets.state.mn.us/EFiling/home.jsp>

If no complaints were received during the preceding month, the permittee shall submit (eFile) a summary indicating that no complaints were received.

G. Complaints Received by the Commission

Complaints received directly by the Commission from aggrieved persons regarding site preparation, construction, cleanup, restoration, operation and maintenance shall be promptly sent to the permittee.

H. Commission Process for Unresolved Complaints

Commission staff shall perform an initial evaluation of unresolved complaints submitted to the Commission. Complaints raising substantial permit issues shall be processed and resolved by the Commission. Staff shall notify the permittee and appropriate persons if it determines that the complaint is a substantial complaint. With respect to such complaints, each party shall submit a written summary of its position to the Commission no later than ten (10) days after receipt of the staff notification. The complaint will be presented to the Commission for a decision as soon as practicable.

I. Permittee Contacts for Complaints and Complaint Reporting

Complaints may be filed by mail or email to:

[Permittee Name]

[Permittee Complaint Contact]

[Permittee Address]

[Permittee Telephone Number]

[Permittee Email]

This information shall be maintained current by informing the Commission of any changes by eFiling, as they become effective.

**MINNESOTA PUBLIC UTILITIES COMMISSION
COMPLIANCE FILING PROCEDURE FOR
PERMITTED ENERGY FACILITIES**

A. Purpose

To establish a uniform and timely method of submitting information required by the Commission energy facility permits.

B. Scope and Applicability

This procedure encompasses all compliance filings required by permit.

C. Definitions

Compliance Filing: A filing of information to the Commission, where the information is required by a Commission site or route permit.

D. Responsibilities

1. The permittee shall eFile all compliance filings with Dr. Burl W. Haar, Executive Secretary, Public Utilities Commission, through the eDockets system. The eDockets system is located at: <https://www.edockets.state.mn.us/EFiling/home.jsp>

General instructions are provided on the eDockets website. Permittees must register on the website to eFile documents.

2. All filings must have a cover sheet that includes:

- a. Date
- b. Name of submitter/permittee
- c. Type of permit (site or route)
- d. Project location
- e. Project docket number
- f. Permit section under which the filing is made
- g. Short description of the filing

3. Filings that are graphic intensive (e.g., maps, engineered drawings) must, in addition to being eFiled, be submitted as paper copies and on CD. Paper copies and CDs should be sent to: 1) Dr. Burl W. Haar, Executive Secretary, Minnesota Public Utilities Commission, 121 7th Place East, Suite 350, St. Paul, MN 55101-2147, and 2) Department of Commerce, Energy Facility Permitting, 85 7th Place East, Suite 500, St. Paul, MN 55101-2198.

The Commission may request a paper copy of any eFiled document.

STATE OF MINNESOTA PUBLIC UTILITIES COMMISSION

**ROUTE PERMIT FOR CONSTRUCTION OF A HIGH-VOLTAGE TRANSMISSION
LINE AND ASSOCIATED FACILITIES**

**IN
JACKSON, MARTIN, AND FARIBAULT COUNTIES**

**ISSUED TO
ITC MIDWEST LLC**

PUC DOCKET NO. ET-6675/TL-12-1337

In accordance with the requirements of Minnesota Statutes Chapter 216E and Minnesota Rules Chapter 7850 this route permit is hereby issued to:

ITC MIDWEST LLC

ITC Midwest LLC is authorized by this route permit to construct and operate approximately 75 miles of new 345 kilovolt transmission line in Jackson, Martin, and Faribault counties, Minnesota.

The transmission line and associated facilities shall be built within the route identified in this permit and as portrayed on the official route maps, and in compliance with the conditions specified in this permit.

Approved and adopted this 25th day of November, 2014

BY ORDER OF THE COMMISSION



Burl W. Haar,
Executive Secretary



This document can be made available in alternative formats (e.g., large print or audio) by calling 651.296.0406 (voice). Persons with hearing loss or speech disabilities may call us through their preferred Telecommunications Relay Service.

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Official Route Maps

ATTACHMENTS

Attachment A – Complaint Procedures for High-Voltage Transmission Lines

Attachment B – Compliance Filing Procedures for Permitted Energy Facilities

1.0 ROUTE PERMIT

The Minnesota Public Utilities Commission (Commission) hereby issues this route permit to ITC Midwest LLC pursuant to Minnesota Statutes Chapter 216E and Minnesota Rules Chapter 7850. This permit authorizes ITC Midwest LLC (Permittee) to construct and operate approximately 75 miles of new 345 kilovolt (kV) transmission line in Jackson, Martin, and Faribault counties, Minnesota, and as identified in the attached route permit maps, hereby incorporated into this document.

1.1 Pre-emption

Pursuant to Minn. Stat. § 216E.10, this route permit shall be the sole approval required to be obtained by the Permittee for construction of the transmission facilities and this permit shall supersede and preempt all zoning, building, or land use rules, regulations, or ordinances promulgated by regional, county, local and special purpose government.

2.0 PROJECT DESCRIPTION

The Project includes the construction and operation of approximately 75 miles of new 345 kV transmission line in Jackson, Martin, and Faribault counties. The 345 kV transmission line would run east from the existing Lakefield Junction substation near the city of Lakefield in Jackson County, crossing Martin County to a new Huntley substation near the city of Winnebago in Faribault County. From the new Huntley substation, the transmission line would proceed south crossing the Minnesota-Iowa border near the city of Elmore, Minnesota. The Project also includes expanding the existing Lakefield Junction substation, constructing a new Huntley substation, reconfiguring several existing 69 kV and 161 kV transmission lines, and decommissioning the Winnebago substation.

2.1 Project Location

The Project is located in southern Minnesota in Jackson, Martin, and Faribault counties, specifically within the townships of Hunter, Des Moines, Belmont, Wisconsin, Jay, Manyaska, Fox Lake, Fraser, Rutland, Center Creek, Verona, Jo Daviess, and Pilot Grove.

County	Township Name	Township	Range	Section
Jackson	Hunter	T102N	R36W	1, 2, 3
	Des Moines	T102N	R35W	1, 2, 3, 4, 5, 6
	Belmont	T103N	R35W	34, 35, 36
	Wisconsin	T012N	R34W	1, 2, 3, 4, 5, 6

County	Township Name	Township	Range	Section
Martin	Jay	T102N	R33W	1, 2, 3, 4, 5, 6
	Manyaska	T102N	R32W	2, 3, 4, 5, 6
	Fox Lake	T103N	R32W	13, 24, 25, 26, 35, 36
	Fraser	T103N	R31W	13, 14, 15, 16, 17, 18, 19, 30
	Rutland	T103N	R30W	13, 14, 15, 16, 17, 18, 19, 20, 21
	Center Creek	T103N	R29W	13, 14, 15, 16, 17, 18
Faribault	Verona	T103N	R28W	9, 10, 11, 14, 15, 16, 17, 18, 22, 23, 26, 35
	Jo Daviess	T102N	R28W	2, 11, 14, 23, 26, 35
	Pilot Grove	T101N	R28W	2, 11, 14, 23, 26, 35, 36

2.2 Associated Facilities and Substations

The associated facilities for the Project include expansion of the existing Lakefield Junction substation, removal of the existing Winnebago Junction substation, construction of the new Huntley substation, reconfiguration of four 161 kV transmission lines, and reconfiguration of three 69 kV transmission lines to be constructed to 161 kV standards.

2.2.1 Lakefield Junction Substation

The Lakefield Junction substation is located in the southwest quarter of the northeast quarter of Section 3 in Hunter Township. The substation will be expanded east approximately three acres to house additional equipment as part of the Project. Grading will be required over the full three acres. The fenced area will only be expanded by approximately 2.2 acres. New equipment will include one 345 kV bay using one position and a future bay position to allow for three future connections.

2.2.2 Winnebago Junction Substation

The Winnebago Junction substation is located in the northwest quarter of the southeast quarter of Section of Section 11 in Verona Township. The substation will be decommissioned as part of the Project. Decommissioning will entail the removal of all substation infrastructure at the site including electrical equipment, foundations, gravel, and fencing. One 161 kV transmission line and two 69 kV transmission lines will remain on the property after the substation infrastructure is removed.

The site will be allowed to return to its natural state by reestablishing vegetation in areas not crossed by the remaining transmission line rights-of-way. ITC Midwest will continue to own and operate transmission lines across the parcel.

2.2.3 Huntley Substation

The new Huntley substation will be constructed on a 32-acre parcel located in the southwest quarter of the southeast quarter of Section 14 in Verona Township. The substation fenced area will be approximately 12 acres and will include a control building. The remainder of the 32-acre parcel will be graded to allow for property setbacks, line clearances, retention pond, and road access requirements. Equipment to be installed within the fenced area includes a 40 MVAR bank of reactors, one 345 kV/161 kV transformer, two 161 kV/69 kV transformers, two 345 kV breaker-and-a-half bays with three 345 kV breakers, four 161 kV breaker-and-a-half bays with eleven 161 kV breakers, three 69 kV breakers, associated switches, steel, foundations, and dead end structures. The substation will be designed to allow for future installation of two 345 kV breaker-and-a-half bays and one additional 161 kV breaker-and-a-half bay.

2.2.4 Transmission Line Reconfiguration

The Project will include the reconfiguration of four existing 161 kV transmission lines and three existing 69 kV transmission that currently terminate at the Winnebago Junction substation that will be decommissioned. The seven transmission lines will be reconfigured and rerouted from the Winnebago Junction substation to the Huntley substation as follows:

- The existing 161 kV Rutland – Winnebago Junction will be constructed on single pole double-circuit structures with the new 345 kV transmission line and operated at 345 kV/161 kV.
- The existing 161 kV N.B.E.I – Winnebago Junction and the 69 kV Winnebago Local – Winnebago Junction transmission lines will be constructed on single pole double-circuit structures to 161 kV/161 kV standards but operated at 161 kV/69 kV (Local/N.B.E.I – Huntley).
- The existing 161 kV Freeborn – Winnebago Junction and the 69 kV Blue Earth – Winnebago Junction transmission lines will be constructed on single pole double-circuit structures to 161 kV/161 kV standards but operated at 161 kV/69 kV (Blue Earth/Freeborn – Huntley).

- The existing 69 kV Walters – Winnebago Junction transmission will not be co-located with another line but will instead be constructed on single pole structures to 161 kV standards but operated at 69 kV (Walters – Huntley).

The portions of rights-of-way currently occupied by the existing 161 kV Rutland – Winnebago Junction and the 69 kV Blue Earth – Winnebago Junction transmission lines will no longer be needed after the Project is constructed and will be abandoned.

2.3 Structures

The primary tangent structures authorized for the Project be will single pole galvanized or self-weathering steel davit arm structures capable of supporting one 345 kV circuit and one 161 kV circuit. The structures will be 130 to 190 feet in height with an average span of 700 to 1,000 feet between structures and will be supported by an approximately 8-foot diameter 25-foot deep drilled pier concrete foundation.

Specialty structures authorized for the Project may include angle, dead-end, H-frame, multiple pole, and low profile. The table below details specifics on the various structure types as presented in the route permit application.

Line Type	Initial Operation	Structure Type	Right-of-way (feet)	Height (feet)	Structure Base	Foundation	Span (feet)
					Diameter (feet)		
345 kV/161 kV	345 kV/161 kV or 345 kV/None	Single Pole Davit Arm	150	130-190	5-9	8-12	700-1,000
		Single Pole Davit Arm Low Profile	150	100-160	5-9	8-12	500-1,000
		Two Pole	150	130-190	9	12	700-1,000
		Three Pole Low Profile	150	100-160	9	12	500-1,000
345 kV/161 kV/69 kV	345 kV/161 kV/69 kV	Single Pole Davit Arm	150	175-195	9	12	600-800
345 kV/161 kV/69 kV	345 kV/161 kV/69 kV	2 Pole Deadend	150	175-195	11	14	600-800
345 kV/161 kV/69 kV	345/69 kV	Single pole davit arm with Underbuild	150	130-190	7	10	600-800

345 kV/161 kV/69 kV	345/69 kV	1 Pole Deadend	150	130-190	11	14	600-800
345 kV/161 kV	345 kV/69 kV	Single Pole Davit Arm	150	130-190	5-9	8-12	700-1,000
		Two Pole	150	130-190	9	12	700-1000
161 kV/161 kV	161 kV/161 kV or 161 kV/69 kV	Single Pole Braced Post	100	80-120	3.5-7	10 (Angle)	600-800
		Single Pole Davit Arm	100	80-120	7	10	600-800
161 kV	69 kV	Single Pole Braced Post	100	70-110	3-5	8 (Angle)	600-800
		Single Pole Davit Arm	100	70-110	5	8	600-800

Note: All structures will be comprised of galvanized or self-weathering steel.

2.4 Conductors

Each 345 kV phase wire for the Project will consist of two twisted pair Drake 795-circular mil 26/7 aluminum conductor steel reinforced (ACSR) conductors, or equivalent 3,000 amp conductor. Each ACSR cable consists of a core of seven steel conductors surrounded by 26 aluminum strands. The 345 kV twisted pair conductors (two sets for each of the three phases) will have a capacity equivalent to 3,000 amps. The same conductor and bundled configuration will be used for all the 345 kV sections of the transmission line in Minnesota. The minimum conductor clearance for the 345 kV transmission line between the ground and lowest point of the conductor will measure 35 feet.

Each 161 kV phase wire for the Project will consist of twisted pair Drake 795-circular mil 26/7 (ACSR) conductors, or equivalent 1,600 ampere conductor. The 161 kV line from N.B.E.I. to Huntley will consist of aluminum conductor steel supported 565-circular mil Calumet, or equivalent 1,400 amp conductor. The minimum conductor clearance for the 161 kV transmission line between the ground and lowest point of the conductor will measure 25 feet.

The 69 kV transmission lines to be relocated from the Winnebago Junction substation to the Huntley substation will consist of twisted pair Drake 795-circular mil 26/7 ACSR conductors, or comparable conductor. Other 69 kV conductors for the Project will consist of 600 amp conductor, or equivalent conductor. The minimum conductor clearance for the 69 kV transmission line between the ground and lowest point of the conductor will measure 21 feet.

An approximately 1-inch diameter shield wire will be installed above the conductors for lightning protection. The shield wire may include a fiber optic cable that allows for substation protection equipment to communicate with other terminals on the line.

2.5 Safety Codes and Design Requirements

The transmission line and associated facilities shall be designed to meet or exceed all relevant local and state codes, the National Electric Safety Code (NESC), and North American Electric Reliability Corporation (NERC) requirements. This includes standards relating to clearances to ground, clearance to crossing utilities, clearance to buildings, strength of materials, clearances over roadways, right-of-way widths, and permit requirements. The transmission line shall be equipped with protective devices to safeguard the public if an accident occurs.

3.0 DESIGNATED ROUTE

The route for the Project will vary in width from 1,000 feet and 2,200 feet. The widths greater than 1,000 feet are as follows: Des Moines River (1,400 feet); south of Lake Charlotte (1,200 feet); east of Lake Charlotte near State Highway 15 (1,400 feet); south of and adjacent to the Proposed Huntley substation (2,200 feet); and along the Blue Earth River south of the Proposed Huntley Substation (1,700 feet).

3.1 Lakefield Junction to Huntley – Jackson County

In Jackson County, the route originates at ITC Midwest's existing Lakefield Junction substation, located in Section 3 in Hunter Township. The route extends southeast from the Lakefield Junction Substation approximately 0.5 mile (north of 810th Street) and joins the existing Lakefield to Border 161 kV transmission line. It continues east approximately 0.5 mile until crossing 470th Street. From here, the route continues east through the middle of Sections 2 and 1 in Hunter Township for approximately two miles until reaching 490th Avenue. Before reaching 490th Avenue and for a short distance after crossing 490th Avenue, the route deviates slightly from the existing Lakefield to Border 161 kV transmission line. The existing 161 kV line will be removed from its current location and co-located with the new 345 kV line for approximately 1,900 feet as it crosses 490th Avenue. The route continues east through the middle of Sections 6 and 5 in Des Moines Township for approximately 1.8 miles. The route then turns to the southeast then east for approximately 1.6 miles crossing through the southern half of Section 4 in Des Moines Township to the middle of Section 3 where the route reaches the western bank of the Des Moines River. From this location, there are two options for crossing the Des Moines River in Section 3 of Des Moines Township. Both options would remove the existing Lakefield to Border 161 kV transmission line for 1.5 mile through Section 2 and the western half of Section 1 of Des Moines Township. In this area, the route width expands to a maximum of 1,400 feet for approximately 0.5 mile:

Alignment Option 1

The first option for crossing the Des Moines River is to follow the alignment, which deviates from the existing Lakefield to Border 161 kV transmission line to cross the Des Moines River perpendicularly for approximately 2,700 feet in a northeast direction. From this point, the alignment turns north before reaching Section 2 of Des Moines Township. Use of route alignment across the Des Moines River would remove the existing Lakefield to Border 161 kV transmission line from its current crossing of the Des Moines River.

Alignment Option 2

The second option for crossing the Des Moines River is to follow an alignment, which crosses the Des Moines River along the existing Lakefield to Border 161 kV transmission line centerline for approximately 3,100 feet in a northeast, then east direction. From this point, the alignment turns north before reaching Section 2 of Des Moines Township.

After the crossing of the Des Moines River, the route continues north for another 0.5 mile to 820th Street, where it turns east. The route extends along 820th Street for 0.6 mile, continuing east for an additional mile and across U.S. Highway 71 between Sections 3, 2, and 1 of Des Moines Township and 34, 35, and 36 of Belmont Township, respectively. The route then turns south, 0.5 mile east of U.S. Highway 71 in Section 1 of Des Moines Township. The route extends south for 0.5 mile and rejoins the alignment of the existing Lakefield to Border 161 kV transmission line. It turns east in the middle of Section 1 of Des Moines Township, and extends another 0.5 mile to 550th Avenue/County Road 23 and Wisconsin Township. From here, the route continues through the middle of Sections 6, 5, 4, 3, 2, and 1 of Wisconsin Township along field lines for approximately 6 miles until reaching 10th Avenue and the Martin County line. In Section 5, the route deviates from the existing Lakefield to Border 161 kV transmission line for 1,300 feet and the 161 kV and 345 kV transmission lines would be co-located along the new alignment.

3.2 Lakefield Junction to Huntley – Martin County

In Martin County, the route continues eastward in Jay Township from the Jackson County border. Between Section 6 and 5 at 20th Street, the existing 161 kV line will be relocated, and co-located with the 345 kV line for approximately 2,000 feet. The route continues through the middle of Sections 6, 5, 4, 3, 2 and 1 for six miles until just west of Fox Lake. The route continues east through the middle of Section 6 of Manyaska Township in Section 6 for one mile. The route then deviates from the existing Lakefield to Border 161 kV transmission line, continues east into Section 5 for approximately 0.3 mile and continues east before turning south across Interstate 90 and then east along the south side of the Interstate for 1.7 miles through Sections 5 and 4 of Manyaska Township.

The existing ITC Midwest 69 kV Fox Lake to Fairmont transmission line currently located north of 125th Street would be removed from this location and would be co-located with the new 345 kV transmission line along the new route south of Interstate 90. At the border between Sections 4 and 3 of Manyaska Township, the route crosses to the north side of Interstate 90 and 125th Street, before turning east for approximately 0.8 mile. The route continues east, north, and northeast along the existing ITC Midwest 69 kV Fox Lake to Fairmont transmission line for approximately 1.3 miles through Sections 3 and 2 of Manyaska Township and Section 35 of Fox Lake Township, crossing over an existing Union Pacific Railroad line and 110th and 120th Avenues. In Section 35 of Fox Lake Township, the route A continues north and separates from the existing 69 kV transmission line where it turns east. The route continues north in Section 35 of Fox Lake Township for approximately 0.5 mile crosses into Section 26 at 140th Street where it turns east. The route continues east along the border of Sections 26/35 and 25/36 along 140th Street for 1.5 miles where it reaches 130th Avenue, and turns to the north. The route continues north along 130th Avenue for approximately 2.5 miles through Sections 30, 19, and 18 of Frasier Township where it rejoins the existing Lakefield to Border 161 kV transmission line.

The route turns east along field lines through the center of Sections 18, 17, 16, 15, 14, and 13 of Frasier Township for approximately 5.5 miles. In Section 17, the existing 161 kV line is proposed to be relocated with the new 345 kV for approximately 1,000 feet; and in 1,500 feet in Section 15. In the middle of Section 13 of Frasier Township, the route turns south, deviating from the existing Lakefield to Border 161 kV transmission line that extends across Lake Charlotte. The route continues south along a field line for 0.5 mile where it turns east along 160th Street. The route continues east along of 160th Street for approximately 0.5 mile until crossing 190th Avenue and into Rutland Township.

In Rutland Township, the route continues along 160th Street and along the existing Great River Energy FE-RU 69 kV transmission line as it continues east for approximately 2.2 miles between Sections 18 and 19, and 17 and 20 of Rutland Township. Along this section, the route width is expanded to approximately 1,200 feet and the existing line is proposed to be relocated slightly for approximately 1,100 feet along 160th Street. As the route crosses between Sections 16 and 21 of Rutland Township, it is no longer co-located with the existing 69 kV transmission line. The route continues east along 160th Street for 0.5 mile where it turns north along a field line for approximately 0.5 mile before turning east and rejoining with the existing Lakefield to Border 161 kV transmission line in Section 16 of Rutland Township. From Section 16 into Section 15 of Rutland Township, the route width is expanded to approximately 1,400 feet and the existing 161 kV line is proposed to be relocated slightly for approximately 1,600 feet just west of 220th Avenue/State Highway 15.

The route crosses State Highway 15 and continues east along field lines for 3.5 miles through Sections 16, 15, 14, and 13 of Rutland Township before entering Center Creek Township, crossing 230th and 240th Avenues and Judicial Ditch Number Three. The route continues east for approximately one mile, crossing 255th Avenue and County Highway 53 (260th Avenue) in Section 18 of Center Creek Township. It continues east for an additional five miles along field lines through Sections 17, 16, 15, 14, and 13, of Center Creek Township, crossing 265th, 280th, 288th, 290th (County Road 159), 293rd (County Highway 59), and 298th Avenues before reaching the Faribault County line. In this area, the route also crosses Judicial Ditches One, Twenty-Eight, and Forty. The route also crosses a Canadian Pacific rail line in the middle of Section 13 of Center Creek Township.

3.3 Lakefield Junction to Huntley – Faribault County

From the Martin/Faribault County border, the route extends northeast into Verona Township through Sections 18, 17, 9/16, and 10/15 for approximately 3.2 miles, still co-located with the existing Lakefield to Border 161 kV transmission line. The route then turns south along a field line in Section 15 of Verona Township to 160th Street. At this point the existing 161 kV line that continues east to the existing Huntley substation site would be removed and collocated with the new 345 kV line. At 160th Street, Modified Route A turns east and continues along the north side of the road between Sections 15/22 and 14/23 of Verona Township for approximately 1.3 miles to the new Huntley substation site.

3.4 Huntley to Iowa Border – Faribault County

Just south of the Huntley Substation in Section 23 of Verona Township, the route includes a wider triangular-shaped area measuring 2,200 feet at its widest along the southern boundary of the new Huntley substation to accommodate positioning of the circuits into the substation. From the new Huntley substation, the route extends south along the existing Lakefield to Border 161 kV transmission line for approximately 0.3 mile where it turns southwest along the west bank of the Blue Earth River in Section 23 of Verona Township. The route then continues south and then southeast, reconnecting with the existing Lakefield to Border 161 kV transmission line approximately 0.4 mile (approximately 400 feet) before 150th Street. This area is approximately 0.9 mile long through Section 23 in Verona Township and has an expanded route width of approximately 2,200 feet. The existing Lakefield to Border 161 kV transmission line will be moved from its current alignment in Section 23 to follow the new route in this area. The route then continues south along the existing line for approximately two miles in Verona Township, Sections 23, 26, and 35. It crosses 160th, 150th, 140th, and 130th (County Highway 8) Streets, as well as South Creek in several locations.

The route continues south approximately two miles along field lines into Jo Daviess Township through Sections 2 and 11, crossing Interstate 90, 120th Street, County Ditch Number Sixty, and 115th Street. After crossing 115th Street, the route follows 355th Avenue for 0.5 mile, crossing a rail line and extending to 110th Street (County Highway 16). The route then continues south from 110th Street along the existing 161 kV line for two miles, through Sections 14 and 23 Jo Daviess Township, crossing 100th Street and Little Badger Creek. The route deviates from the existing 161 kV Lakefield to Border transmission line and turns southeast as it crosses 90th Street (County Highway 6). The route continues south and then back west to join with the existing 161 kV line. A portion of the existing 161 kV line would be relocated in Section 26 of Jo Daviess Township to move it farther from a home for approximately 1,000 feet where the new route crosses 85th Street. The route continues south along the existing Lakefield to Border 161 kV Transmission Line and field lines for approximately 1.3 miles through Sections 26 and 35 of Jo Daviess Township, crossing 80th and 70th Streets.

The route enters Pilot Grove Township in Section 2, and extends south, continuing along field lines and co-locating with the existing Lakefield to Border 161 kV transmission line, through the Pilot Grove Lake WPA and Sections 11, 14 and 23. The route crosses 60th, 50th, 40th, and 30th Streets, and follows Judicial Ditch Number Seven for 0.3 mile before crossing it in Section 23. The route turns east along 30th Street between Sections 23 and 26 of Pilot Grove Township, continuing to follow the existing Lakefield to Border 161 kV transmission line for approximately 0.5 mile before turning south along 360th Avenue and the existing line. The route continues south to the Iowa border along the existing Lakefield to Border 161 kV transmission line through Sections 26, 25, 35 and 36 of Pilot Grove Township crossing the West Branch of the Blue Earth River (Section 36) before reaching the Minnesota/Iowa border at the intersection of 510th Street (Minnesota) and 160th Avenue (Iowa). Between Section 35 and 36, the existing Lakefield to Border 161 kV transmission line is proposed to be relocated slightly for approximately 1,400 feet.

3.5 Transmission Line Reconfiguration between Winnebago Junction and Huntley Substations

The proposed construction configuration of the associated facilities will occur within a 500-foot route width between the Winnebago Junction substation and the Huntley substation and a 500-foot route width approximately 0.4 mile long along 170th Street. The existing Rutland—Winnebago Junction transmission line will be removed from Sections 11 and 10 of Verona Township. The existing Blue Earth—Winnebago Junction transmission line will be removed in Section 11 of Verona Township between 170th Street and the Winnebago Junction substation (See route maps 2 and 2A).

4.0 RIGHT-OF-WAY

The approved rights-of-way for the Project are as follows:

- 345 kV single-circuit structures, 161/345 kV double-circuit structures, and 69/161/345 kV triple-circuit structures shall be constructed and maintained within a 150-foot right-of-way. The Permittee will have vegetation management rights and will prohibit placement of other structures within the 150-foot right-of-way. The Permittee may trim or remove trees that pose a threat to the transmission facility within the 25-foot area adjacent to and on either side of the 150-foot right-of-way in accordance with the Vegetation Management Plan.
- 345 kV/161 kV double-circuit structures that cross through the Pilot Grove Lake Waterfowl Production Area shall be constructed and maintained within the existing 100-foot right-of-way.
- 161 kV/161 kV double-circuit capable and 161 kV single-circuit structures shall be constructed and maintained within a 100-foot right-of-way. The Permittee will have vegetation management rights and will prohibit placement of other structures within the 100-foot right-of-way. The Permittee may trim or remove trees that pose a threat to the transmission facility within the 25-foot area adjacent to and on either side of the 100-foot right-of-way in accordance with the Vegetation Management Plan.
- The Permittee shall utilize its existing rights-of-way associated with the existing single circuit 161 kV transmission line being replaced to the greatest extent possible.

This permit anticipates that the right-of-way will generally conform to the alignment identified on the attached route permit maps unless changes are requested by individual landowners and agreed to by the Permittee or for unforeseen conditions that are encountered or are otherwise provided for by this permit.

Any alignment modifications within the designated route shall be located so as to have comparable overall impacts relative to the factors in Minn. R. 7850.4100, as does the alignment identified in this permit, and shall be specifically identified and documented in and approved as part of the plan and profile submitted pursuant to Section 9.1 of this permit.

Where the transmission line route parallels existing highway and other road rights-of-way, the transmission line right-of-way shall occupy and utilize the existing right-of-way to the maximum extent possible, consistent with the criteria in Minn. R. 7850.4100, the other requirements of this permit, and for highways under the jurisdiction of the Minnesota Department of Transportation (Mn/DOT) rules, policies, and procedures for accommodating utilities in trunk highway rights-of-way.

5.0 GENERAL CONDITIONS

The Permittee shall comply with the following conditions during construction of the transmission line and associated facilities over the life of this permit.

5.1 Notification to Landowners

The Permittee shall provide all affected landowners with a copy of this permit and, as a separate information piece, the complaint procedures at the time of the first contact with the landowners after issuance of this permit. The Permittee shall contact landowners prior to entering the property or conducting maintenance along the route. The Permittee shall work with landowners to locate the high-voltage transmission line to minimize the loss of agricultural land, forest, and wetlands, and to avoid homes and farmsteads.

At the time of first contact, the Permittee shall also provide all affected landowners with a copy of the Department of Commerce's Rights-of-Way and Easements for Energy Facility Construction and Operation fact sheet.¹

5.2 Construction Practices

The Permittee shall follow those specific construction practices and material specifications described in ITC Midwest's Application to the Commission for a Route Permit for the Minnesota – Iowa 345 kV Transmission Project and Associated Facilities in Jackson, Martin, and Faribault Counties, dated March 28, 2013, unless this permit establishes a different requirement in which case this permit shall prevail.

5.2.1 Field Representative

At least 14 days prior to commencing construction, the Permittee shall advise the Commission in writing of the person or persons designated to be the field representative for the Permittee with the responsibility to oversee compliance with the conditions of this permit during construction.

¹ http://mn.gov/commerce/energyfacilities/documents/Easements%20Fact%20Sheet_08.05.14.pdf

This person shall be accessible by telephone during normal business hours throughout right-of-way preparation, construction, cleanup, and restoration.

The field representative's address, phone number, emergency phone number, and email shall be provided to the Commission and shall be made available to affected landowners, residents, public officials and other interested persons. The Permittee may change the field representative at any time upon notice to landowners and the Commission.

5.2.2 Employee Training and Education of Permit Terms and Conditions

The Permittee shall inform all employees, contractors, and other persons involved in the transmission line construction of the terms and conditions of this permit.

5.2.3 Public Services, Public Utilities, and Existing Easements

During construction, the Permittee shall minimize any disruption to public services or public utilities. To the extent disruptions to public services or public utilities occur these would be temporary and the Permittee will restore service promptly. Where any impacts to utilities have the potential to occur the Permittee will work with both landowners and local agencies to determine the most appropriate transmission structure placement.

The Permittee shall work with the landowners, townships, cities, and counties along the route to accommodate concerns regarding tree clearing, distance from existing structures, drain tiles, pole depth and placement in relationship to existing roads and road expansion plans.

The Permittee shall cooperate with county and city road authorities to develop appropriate signage and traffic management during construction.

5.2.4 Temporary Work Space

The Permittee shall limit temporary easements to special construction access needs and additional staging or lay-down areas required outside of the authorized right-of-way. Temporary space shall be selected to limit the removal and impacts to vegetation. Temporary easements outside of the authorized transmission line right-of-way will be obtained from affected landowners through rental agreements and are not provided for in this permit.

Temporary driveways may be constructed between the roadway and the structures to minimize impact using the shortest route possible. Construction mats should also be used to minimize impacts on access paths and construction areas.

5.2.5 Noise

Construction and routine maintenance activities shall be limited to daytime working hours, as defined in Minn. R. 7030.0200, to ensure nighttime noise level standards will not be exceeded.

5.2.6 Site Sediment and Erosion Control

The Permittee shall implement those erosion prevention and sediment control practices recommended by the Minnesota Pollution Control Agency (MPCA) Construction Stormwater Program.

The Permittee shall implement reasonable measures to minimize erosion and sedimentation during construction and shall employ perimeter sediment controls, protect exposed soil by promptly planting, seeding, using erosion control blankets and turf reinforcement mats, stabilizing slopes, protecting storm drain inlets, protecting soil stockpiles, and controlling vehicle tracking. Contours shall be graded as required so that all surfaces provide for proper drainage, blend with the natural terrain, and are left in a condition that will facilitate re-vegetation and prevent erosion. All areas disturbed during construction of the facilities shall be returned to pre-construction conditions.

Where larger areas of one acre or more are disturbed or other areas designated by the MPCA, the Permittee shall obtain a National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Construction Stormwater permit from the MPCA.

5.2.7 Aesthetics

The Permittee shall consider input pertaining to visual impacts from landowners or land management agencies prior to final location of structures, rights-of-way, and other areas with the potential for visual disturbance. Care shall be used to preserve the natural landscape, minimize tree removal and prevent any unnecessary destruction of the natural surroundings in the vicinity of the Project during construction and maintenance.

Structures shall be placed at a distance, consistent with sound engineering principles and system reliability criteria, from intersecting roads, highway, or trail crossings and could cross roads to minimize or avoid impacts.

5.2.8 Vegetation Removal and Protection

The Permittee shall minimize the number of trees to be removed in selecting the right-of-way specifically preserving to the maximum extent practicable windbreaks, shelterbelts, living snow fences, and vegetation in areas such as trail and stream crossings where vegetative screening may minimize aesthetic impacts, to the extent that such actions do not violate sound engineering principles or system reliability criteria.

Tall growing species located within the transmission line right-of-way that endanger the safe and reliable operation of the transmission facility will be removed by the Permittee. The Permittee shall leave undisturbed, to the extent possible, existing low growing species in the right-of-way or replant such species in the right-of-way to blend the difference between the right-of-way and adjacent areas, to the extent that the low growing vegetation that will not pose a threat to the transmission facility or impede construction.

5.2.9 Application of Herbicides

The Permittee shall restrict herbicide use to those herbicides and methods of application approved by the Minnesota Department of Agriculture and the U.S. Environmental Protection Agency. Selective foliage or basal application shall be used when practicable. The Permittee shall contact the landowner or his designee to obtain approval for the use of herbicide prior to any application on their property. The landowner may request that there be no application of herbicides on any part of the right-of-way within the landowner's property. All herbicides shall be applied in a safe and cautious manner so as not to damage crops, orchards, tree farms, or gardens.

5.2.10 Noxious Weeds

The Permittee shall take all reasonable precautions against the spread of noxious weeds during all phases of construction. When utilizing seed to establish temporary and permanent vegetative cover on exposed soil the Permittee shall select site appropriate seed certified to be free of noxious weeds. To the extent possible, the Permittee shall use native seed mixes. The Permittee shall consult with landowners on the selection and use of seed for replanting.

5.2.11 Restoration

The Permittee shall restore the right-of-way, temporary work spaces, access roads, abandoned right-of-way, and other public or private lands affected by construction of the transmission line.

Restoration within the right-of-way must be compatible with the safe operation, maintenance, and inspection of the transmission line. Within 60 days after completion of all restoration activities, the Permittee shall advise the Commission in writing of the completion of such activities.

5.2.12 Wetlands and Water Resources

Wetland impact avoidance measures that shall be implemented during design and construction of the transmission line will include spacing and placing the power poles at variable distances to span and avoid wetlands, watercourses, and floodplains. Unavoidable wetland impacts as a result of the placement of poles shall be limited to the immediate area around the poles. To minimize impacts, construction in wetland areas shall occur during frozen ground conditions. When construction during winter is not possible, wooden or composite mats shall be used to protect wetland vegetation. Soil excavated from the wetlands and riparian areas shall be contained and not placed back into the wetland or riparian area.

Wetlands and riparian areas shall be accessed using the shortest route possible in order to minimize travel through wetland areas and prevent unnecessary impacts. No staging or stringing set up areas shall be placed within or adjacent to wetlands or water resources, as practicable. Power pole structures shall be assembled on upland areas before they are brought to the site for installation.

Areas disturbed by construction activities shall be restored to pre-construction conditions. Restoration of the wetlands will be performed by Permittee in accordance with the requirements of applicable state and federal permits or laws and landowner agreements.

All requirements of the U.S. Army Corps of Engineers (wetlands under federal jurisdiction), Minnesota Department of Natural Resources (Public Waters/Wetlands), and County (wetlands under the jurisdiction of the Minnesota Wetland Conservation Act) shall be met.

5.2.13 Archaeological and Historic Resources

The Permittee shall consult with the State Historic Preservation Office (SHPO) concerning the extent of a Phase I archaeological survey and appropriate mitigation measures for the Project. Permittee shall document and submit to the Commission the results of the consultation, including those portions of the Project that will be surveyed and the extent of the survey with the Construction Environmental Control Plan for the Project.

For those portions of the Project that are surveyed, Permittee shall submit, with the plan and profile for these portions, the results of the survey and all applicable avoidance and mitigation measures employed or to be employed.

Permittee shall inform construction personnel of known archaeological resources along the permitted route for the Project and of archaeological survey results. Permittee shall employ a monitor that reports to and communicates with the Environmental Monitor to identify and report archaeological resources encountered during construction of the Project and to coordinate with SHPO on appropriate mitigation measures.

5.2.14 Avian Mitigation

The Permittee's standard transmission design shall incorporate adequate spacing of conductors and grounding devices in accordance with Avian Power Line Interaction Committee standards to eliminate the risk of electrocution to raptors with larger wingspans that may simultaneously come in contact with a conductor and grounding devices.

The Permittee will consult with the Minnesota Department of Natural Resources regarding type and placement of bird diverters.

5.2.15 Cleanup

All waste and scrap that is the product of construction shall be removed from the right-of-way and all premises on which construction activities were conducted and properly disposed of upon completion of each task. Personal litter, including bottles, cans, and paper from construction activities shall be removed on a daily basis.

5.2.16 Pollution and Hazardous Wastes

All appropriate precautions to protect against pollution of the environment must be taken by the Permittee. The Permittee shall be responsible for compliance with all laws applicable to the generation, storage, transportation, clean up and disposal of all wastes generated during construction and restoration of the right-of-way.

5.2.17 Damages

The Permittee shall fairly compensate landowners for damage to crops, fences, private roads and lanes, landscaping, drain tile, or other damages sustained during construction.

5.3 Electrical Performance Standards

5.3.1 Grounding

The Permittee shall design, construct, and operate the transmission line in a manner so that the maximum induced steady-state short-circuit current shall be limited to five milliamperes root mean square (rms) alternating current between the ground and any non-stationary object within the right-of-way, including but not limited to large motor vehicles and agricultural equipment. All fixed metallic objects on or off the right-of-way, except electric fences that parallel or cross the right-of-way, shall be grounded to the extent necessary to limit the induced short-circuit current between ground and the object so as not to exceed one milliamperes rms under steady state conditions of the transmission line and to comply with the ground fault conditions specified in the NESC. The Permittee shall address and rectify any induced current problems that arise during transmission line operation.

5.3.2 Electric Field

The transmission line shall be designed, constructed, and operated in such a manner that the electric field measured one meter above ground level immediately below the transmission line shall not exceed 8.0 kV/m rms.

5.3.3 Interference with Communication Devices

If interference with radio or television, satellite, wireless internet, GPS-based agriculture navigation systems or other communication devices is caused by the presence or operation of the transmission line, the Permittee shall take whatever action is feasible to restore or provide reception equivalent to reception levels in the immediate area just prior to the construction of the line.

5.4 Other Requirements

5.4.1 Applicable Codes

The Permittee shall comply with applicable NERC planning standards and requirements of the NESC including clearances to ground, clearance to crossing utilities, clearance to buildings, right-of way widths, erecting power poles, and stringing of transmission line conductors.

5.4.2 Other Permits and Regulations

The Permittee shall comply with all applicable state rules and statutes. The Permittee shall obtain all required permits for the Project and comply with the conditions of these permits. A list of the permits known to be required is included in the permit application. The Permittee shall submit a copy of such permits to the Commission upon request.

6.0 SPECIAL CONDITIONS

The Permittee shall provide a report to the Commission as part of the plan and profile submission that describes the actions taken and mitigative measures developed regarding the Project and the following special conditions. Special conditions shall take precedence over other conditions of this permit should there be a conflict.

6.1 Construction Environmental Control Plan

The Permittee shall develop a Construction Environmental Control Plan (CECP) that shall include all environmental control plans and special conditions imposed by permits or licenses issued by state or federal agencies related to agency-managed resources. Plans within the CECP shall include the Agricultural Impact Mitigation Plan, the Avian Mitigation Plan, the Vegetation Management Plan, and a Stormwater Pollution Prevention Plan. The CECP shall be filed with the Commission 30 days prior to submitting the plan and profile for any segment of the Project. The CECP shall include the following:

1. Identification of and contact information for an Environmental Monitor to oversee the construction process and monitor compliance with the Construction Environmental Control Plan and all plans therein.
2. A process for regular reporting on construction status and the results of construction inspection and monitoring to the Commission.
3. A process for reporting the status of permits and licenses or other approvals from local units of government, state agencies, or federal agencies for the Project to the Commission.
4. A process for internal tracking of construction management, including required plan or permit inspection forms.

6.2 Agriculture Mitigation Plan

The Permittee shall comply with the Agricultural Impact Mitigation Plan (AIMP) prepared for this Project and approved by the Minnesota Department of Agriculture. The Permittee shall distribute the AIMP with the route permit to all affected landowners in accordance with Section 5.1 of this permit.

6.3 Vegetation Management Plan

The Permittee shall develop a Vegetation Management Plan (VMP). The Permittee shall submit the VMP with the CECP and monitor compliance with the VMP in accordance with the procedures set forth in the VMP. The purpose of the VMP shall be to identify measures to minimize the disturbance and removal of vegetation for the Project, prevent the introduction of noxious weeds and invasive species, and re-vegetate disturbed non-cropland areas with appropriate native species in cooperation with landowners and state, federal, and local resource agencies, in such a way that does not negatively impact the safe and reliable operation of the Project. The VMP shall include:

1. Measures that will be taken to minimize vegetation disturbance and removal during construction of the Project to the extent that such actions do not violate sound engineering principles or system reliability criteria.
2. Measures that will be taken to prevent the introduction of non-native and invasive species.
3. Measures that will be taken to re-vegetate disturbed non-cropland areas with appropriate native species to the extent that such actions do not violate sound engineering principles or system reliability criteria.
4. Processes by which Permittee will identify landowner and resource agency preferences or requirements regarding vegetation management (e.g. no herbicide application, etc.) and how these preferences or requirements will be addressed.
5. Measures that will be taken to manage vegetation during operation and maintenance of the Project, including tall tree species within and outside of the permitted right-of-way that endanger the safe and reliable operation of the transmission line, in accordance with this permit and any local, state, or federal permits, licenses, or approvals.

6.4 Avian Mitigation Plan

The Permittee shall develop an avian mitigation plan (AMP). The Permittee shall submit and implement the plan in accordance with the CECP for the Project. The Purpose of the AMP shall be to identify site-specific risks to avian species from the Project and to identify and implement strategies to avoid and mitigate potential impacts to these species, including but not limited to, the use of bird flight diverters. The AMP shall include and document Permittee's consultation with the DNR and the U.S. Fish and Wildlife Service (USFWS) in the development of the AMP.

6.5 Des Moines River Crossing

The Permittee shall consult with the DNR regarding the feasibility of mitigation measures for the crossing of the Des Moines River, and shall jointly determine with the DNR the alignment and mitigation measures that best mitigate avian impacts and impacts to the Oak- Basswood forest at the Des Moines River crossing. The Permittee shall document this consultation and the alignment and mitigation measures agreed upon by the Permittee and the DNR for the crossing. The Permittee shall submit this information with the plan and profile for this section of the Project.

7.0 DELAY IN CONSTRUCTION

If the Permittee has not commenced construction or improvement of the route within four years after the date of issuance of this permit the Permittee shall file a report on the failure to construct and the Commission shall consider suspension of the permit in accordance with Minn. R. 7850.4700.

8.0 COMPLAINT PROCEDURES

Prior to the start of construction, the Permittee shall submit to the Commission the procedures that will be used to receive and respond to complaints. The procedures shall be in accordance with the requirements of Minn. R. 7829.1500 or Minn. R. 7829.1700, and as set forth in the complaint procedures attached to this permit.

Upon request, the Permittee shall assist the Commission with the disposition of unresolved or longstanding complaints. This assistance shall include, but is not limited to, the submittal of complaint correspondence and complaint resolution efforts.

9.0 COMPLIANCE REQUIREMENTS

Failure to timely and properly make compliance filings required by this permit is a failure to comply with the conditions of this permit. Compliance filings must be electronically filed with the Commission.

9.1 Plan and Profile

At least 30 days before right-of-way preparation for construction begins on any segment or portion of the Project, the Permittee shall provide the Commission with a plan and profile of the right-of-way and the specifications and drawings for right-of-way preparation, construction, structure specifications and locations, cleanup, and restoration for the transmission line. The documentation shall include maps depicting the plan and profile including the right-of-way, alignment, and structures in relation to the route and alignment approved per this permit.

The Permittee may not commence construction until the 30 days has expired or until the Commission has advised the Permittee in writing that it has completed its review of the documents and determined that the planned construction is consistent with this permit. If the Permittee intends to make any significant changes in its plan and profile or the specifications and drawings after submission to the Commission, the Permittee shall notify the Commission at least five days before implementing the changes. No changes shall be made that would be in violation of any of the terms of this permit.

9.2 Periodic Status Reports

The Permittee shall report to the Commission on progress regarding finalization of the route, design of structures, and construction of the transmission line. The Permittee need not report more frequently than monthly.

9.3 Notification to Commission

At least three days before the line is to be placed into service, the Permittee shall notify the Commission of the date on which the line will be placed into service and the date on which construction was complete.

9.4 As-Builts

Within 60 days after completion of construction, the Permittee shall submit copies of all final as-built plans and specifications developed during the Project.

9.5 GPS Data

Within 60 days after completion of construction, the Permittee shall submit to the Commission, in the format requested by the Commission, geo-spatial information (e.g., ArcGIS compatible map files, GPS coordinates, associated database of characteristics) for all structures associated with the transmission line and each substation connected.

10.0 PERMIT AMENDMENT

This permit may be amended at any time by the Commission. Any person may request an amendment of the conditions of this permit by submitting a request to the Commission in writing describing the amendment sought and the reasons for the amendment. The Commission will mail notice of receipt of the request to the Permittee. The Commission may amend the conditions after affording the Permittee and interested persons such process as is required.

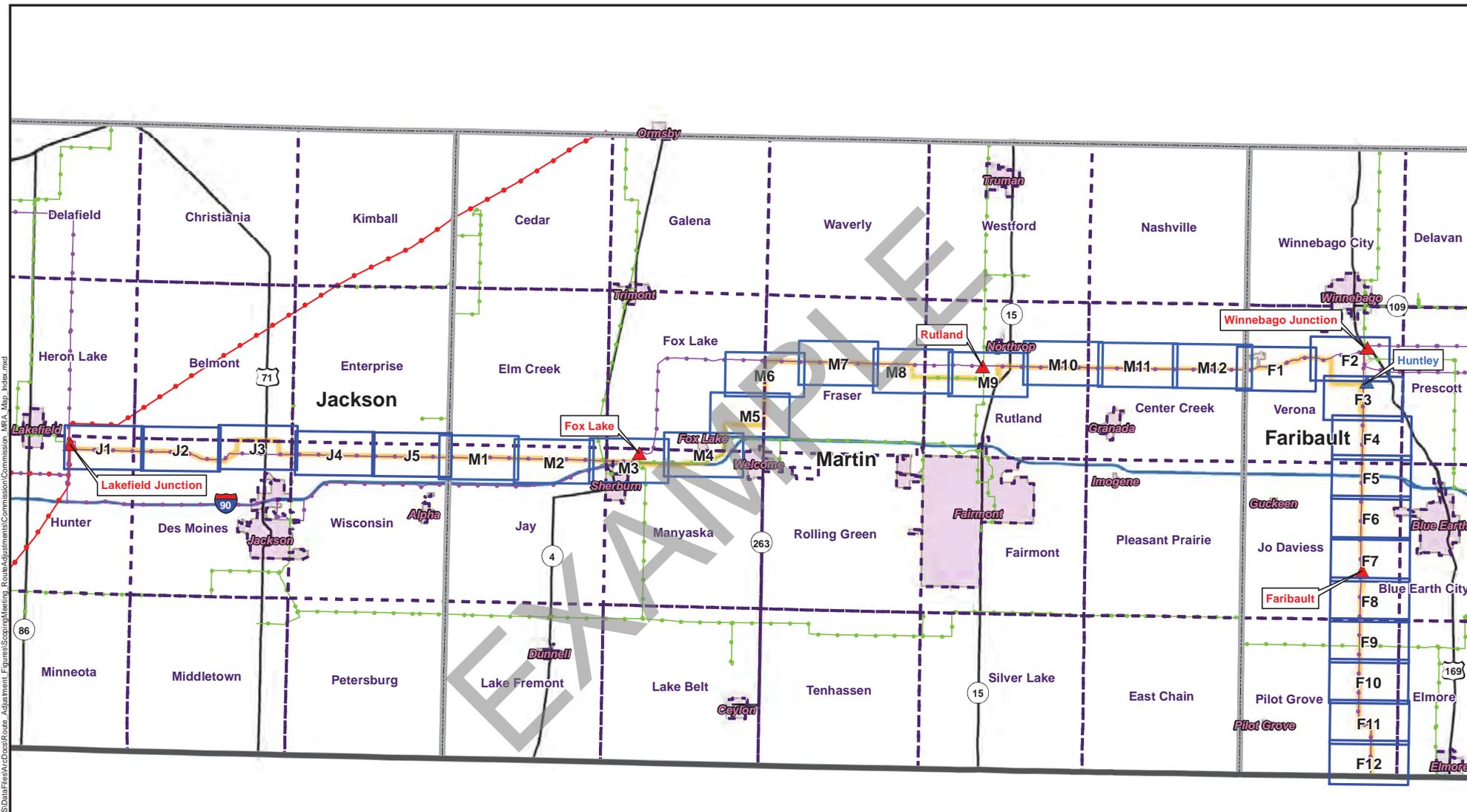
11.0 TRANSFER OF PERMIT

The Permittee may request at any time that the Commission transfer this permit to another person or entity. The Permittee shall provide the name and description of the person or entity to whom the permit is requested to be transferred, the reasons for the transfer, a description of the facilities affected, and the proposed effective date of the transfer.

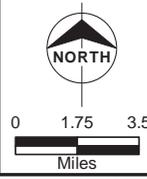
The person to whom the permit is to be transferred shall provide the Commission with such information as the Commission shall require to determine whether the new Permittee can comply with the conditions of the permit. The Commission may authorize transfer of the permit after affording the Permittee, the new Permittee, and interested persons such process as is required.

12.0 REVOCATION OR SUSPENSION OF THE PERMIT

The Commission may initiate action to revoke or suspend this permit at any time. The Commission shall act in accordance with the requirements of Minn. R. 7850.5100, to revoke or suspend the permit.



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- ▲ Existing Substation
- ▲ Proposed Substation
- Modified Route A
- Associated Facilities
- Existing 69 kV Lines
- Existing 161 kV Lines
- Existing 345 kV Lines
- Civil Township
- County Boundary
- State Boundary
- City

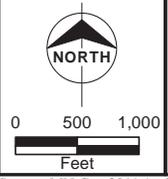
ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Map Index

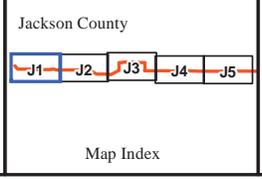
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Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
Modified Route A- Alignment		Line to be Removed	State Boundary	WRP



Jackson County

ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Jackson County
Sheet 1 of 5

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

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	Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
	Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
	Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
	Modified Route A- Alignment		Line to be Removed	State Boundary	WRP

Jackson County

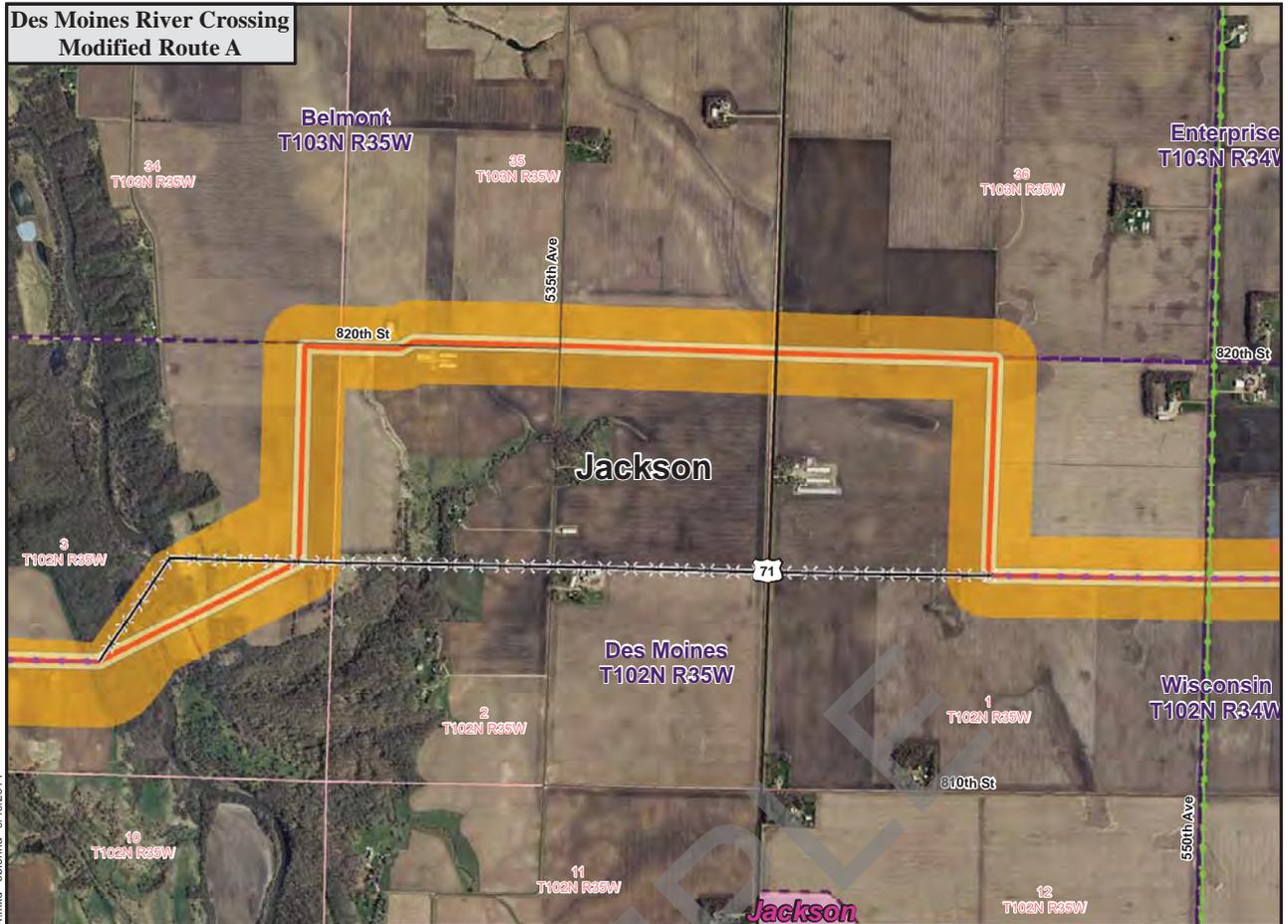
Map Index

ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

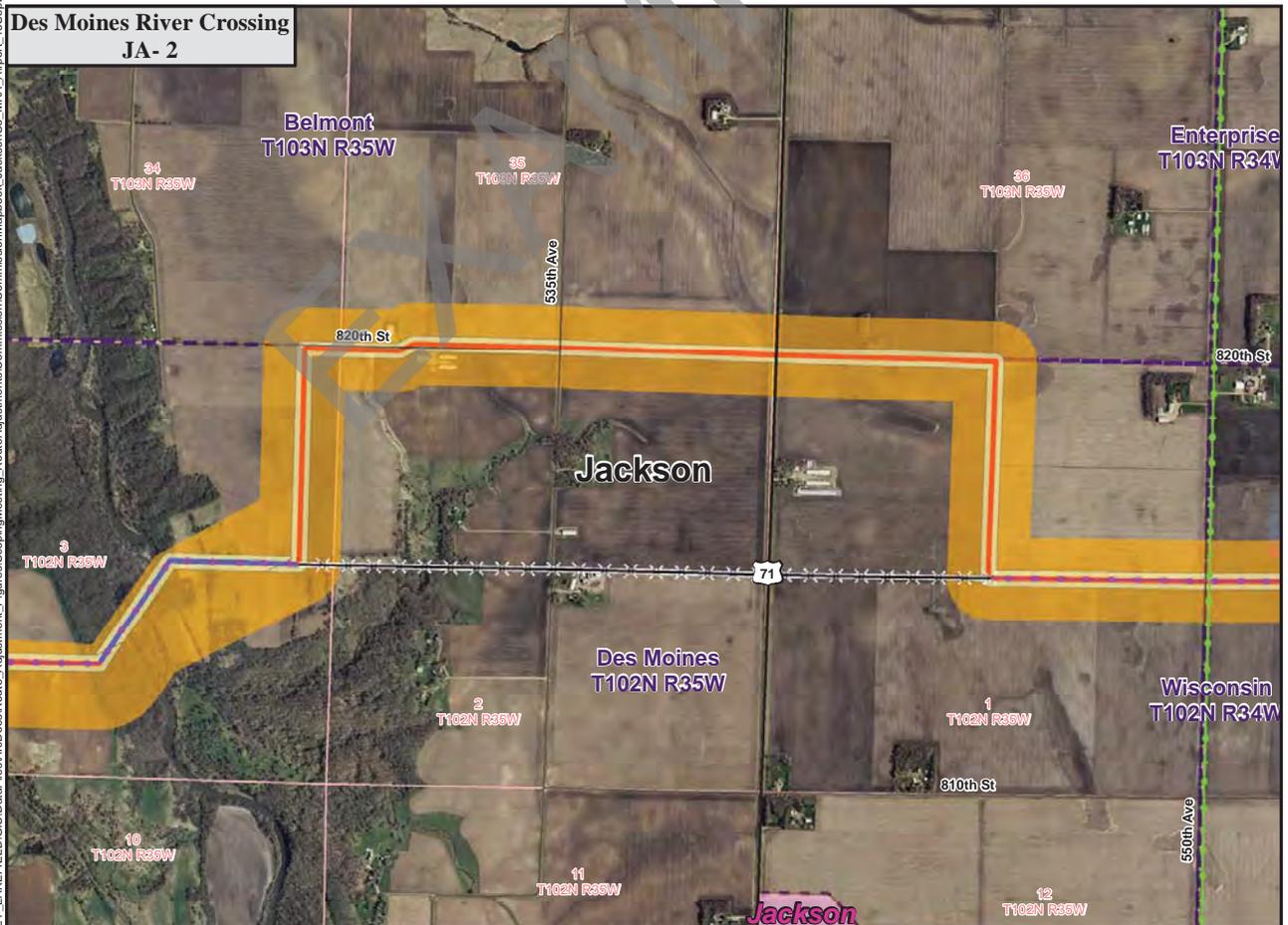
Modified Route A
Jackson County
Sheet 2 of 5

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

**Des Moines River Crossing
Modified Route A**



**Des Moines River Crossing
JA- 2**



	Proposed Substation/Expansion	Associated Facilities	Civil Township	WMA
	Existing Substation Area	Substation to be Removed	Township Sections	WPA
Modified Route A - Alignment	Existing 69 kV Lines	County Boundary	State Boundary	WRP
Modified Route A	Existing 161 kV Lines	City		
Project ROW	Line to be Removed			

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ITC Midwest
Minnesota to Iowa
345 kV Transmission Project
Modified Route A with JA-2
Jackson County
Sheet 3 of 5

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	Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
	Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
	Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
	Modified Route A- Alignment		Line to be Removed	State Boundary	WRP

Jackson County

Map Index

ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Jackson County
Sheet 4 of 5

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

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	Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
	Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
Substation to be Removed	Associated Facilities	Existing 345 kV Lines	Existing 345 kV Lines	County Boundary	WPA
Modified Route A- Alignment		Line to be Removed	State Boundary	WRP	

Jackson County

Map Index

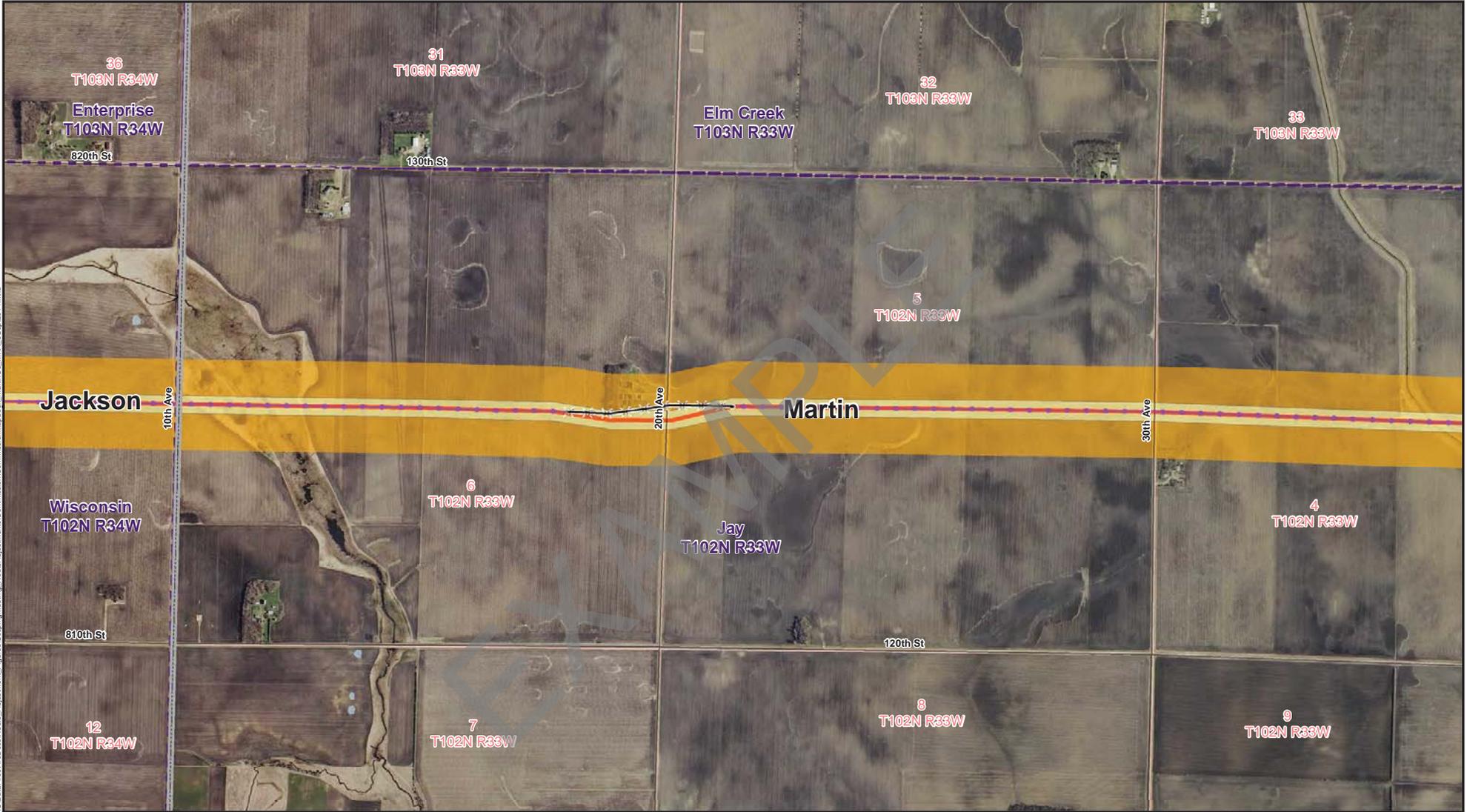
ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Jackson County
Sheet 5 of 5

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

September 19, 2014

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	Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
	Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
	Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
	Modified Route A- Alignment		Line to be Removed	State Boundary	WRP

Martin County

Map Index

ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Martin County
Sheet 1 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

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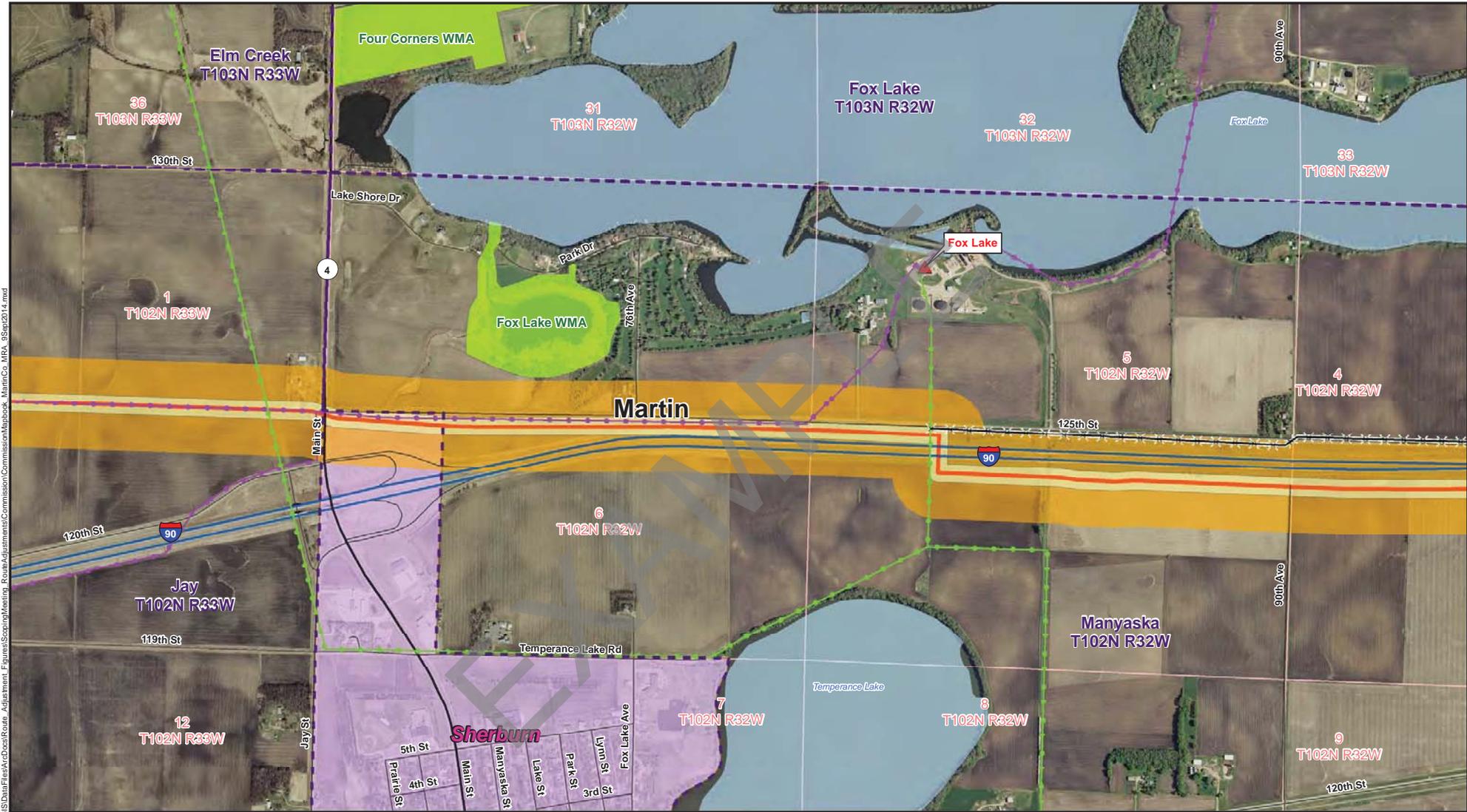
	Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
	Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
	Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
	Modified Route A- Alignment		Line to be Removed	State Boundary	WRP

Map Index

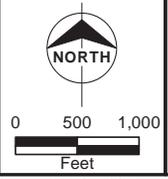
ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Martin County
Sheet 2 of 12

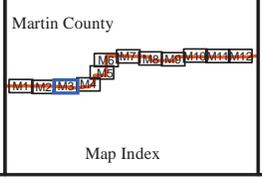
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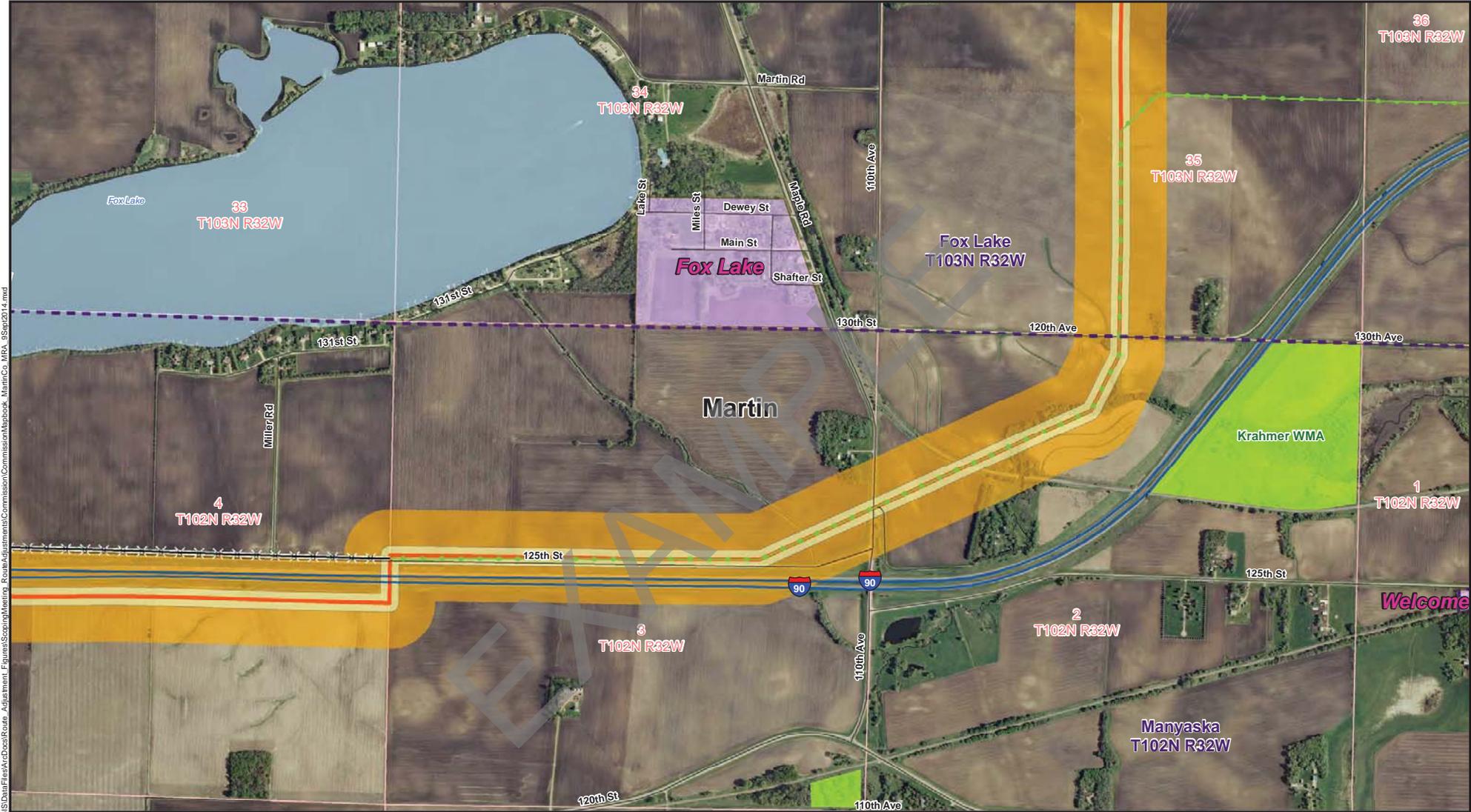
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	Existing Substation Area		Project ROW		Existing 161 kV Lines		Township Sections		WMA
	Substation to be Removed		Associated Facilities		Existing 345 kV Lines		County Boundary		WPA
	Modified Route A- Alignment				Line to be Removed		State Boundary		WRP



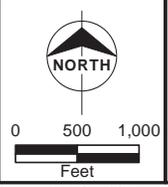
ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Martin County
Sheet 3 of 12

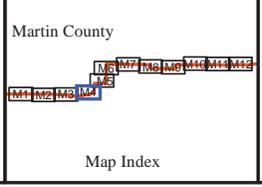
Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.



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Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
Modified Route A- Alignment		Line to be Removed	State Boundary	WRP



ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Martin County
Sheet 4 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

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	Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
	Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
	Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
	Modified Route A- Alignment		Line to be Removed	State Boundary	WRP

Martin County
Map Index

ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Martin County
Sheet 5 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

September 19, 2014

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	Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
	Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
	Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
	Modified Route A- Alignment		Line to be Removed	State Boundary	WRP

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ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

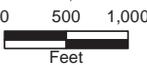
Modified Route A
Martin County
Sheet 6 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

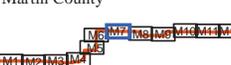
September 19, 2014

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 	 Proposed Substation/Expansion	 Modified Route A	 Existing 69 kV Lines	 Civil Township	 City
	 Existing Substation Area	 Project ROW	 Existing 161 kV Lines	 Township Sections	 WMA
 Substation to be Removed	 Associated Facilities	 Existing 345 kV Lines	 County Boundary	 WPA	
 Modified Route A- Alignment		 Line to be Removed	 State Boundary	 WRP	

Martin County



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ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Martin County
Sheet 7 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.



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	Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
	Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
	Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
	Modified Route A- Alignment		Line to be Removed	State Boundary	WRP

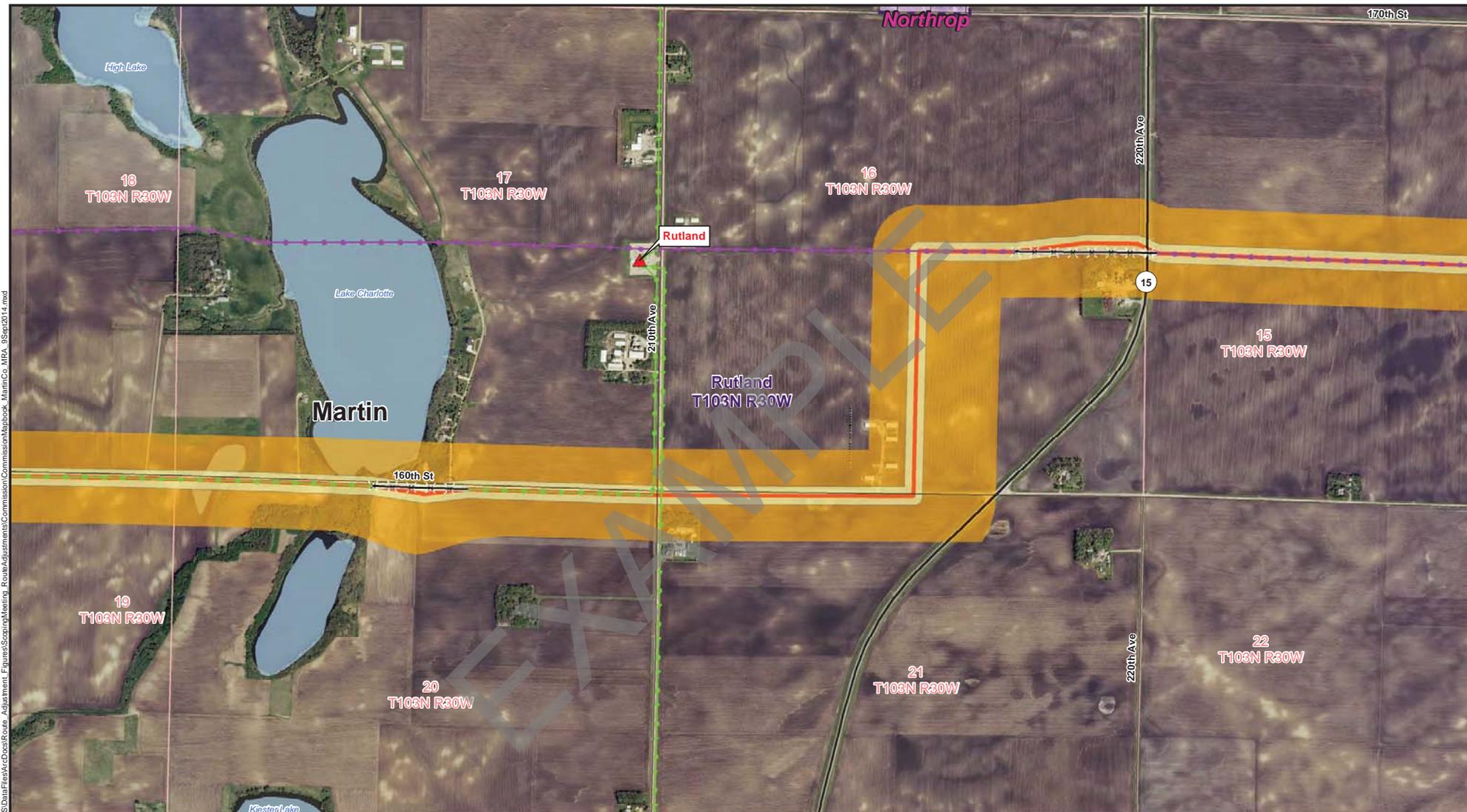
Map Index

ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

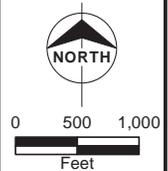
Modified Route A
Martin County
Sheet 8 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

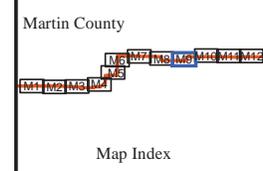
September 19, 2014



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Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
Modified Route A- Alignment		Line to be Removed	State Boundary	WRP



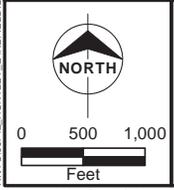
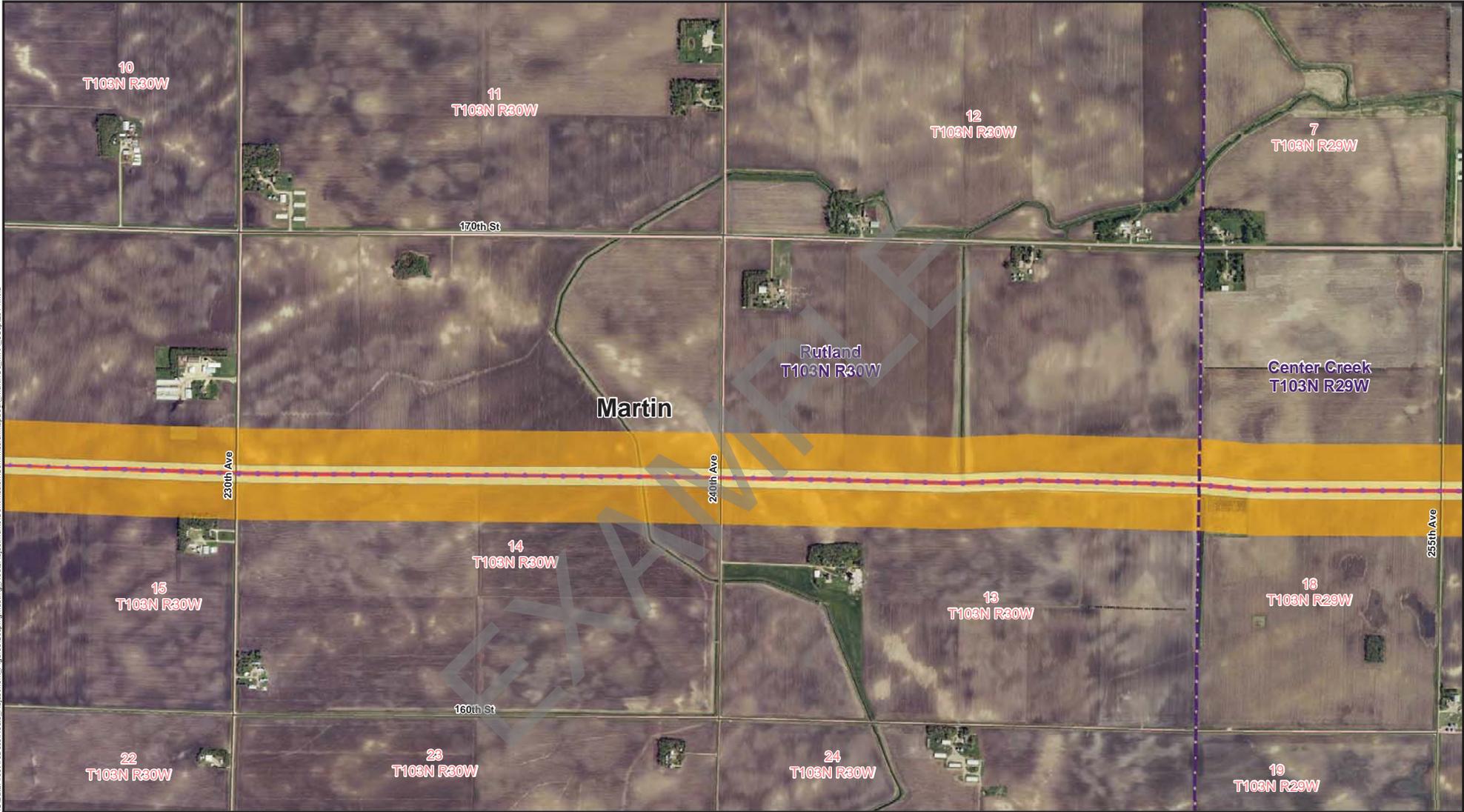
ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Martin County
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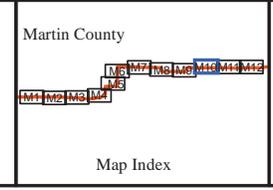
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September 19, 2014

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Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
Modified Route A- Alignment		Line to be Removed	State Boundary	WRP



ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Martin County
Sheet 10 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

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	Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
	Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
	Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
	Modified Route A- Alignment		Line to be Removed	State Boundary	WRP

Map Index

ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

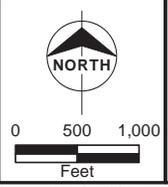
Modified Route A
Martin County
Sheet 11 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

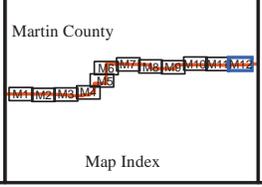
September 19, 2014



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Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
Modified Route A- Alignment		Line to be Removed	State Boundary	WRP



ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

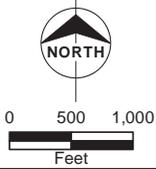
Modified Route A
Martin County
Sheet 12 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

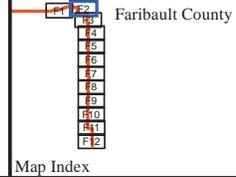


For more information on Associated Facilities, see Sheet 2A

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|-------------------------------|-----------------------|-----------------------|-------------------|------|
| Proposed Substation/Expansion | Modified Route A | Existing 69 kV Lines | Civil Township | City |
| Existing Substation Area | Project ROW | Existing 161 kV Lines | Township Sections | WMA |
| Substation to be Removed | Associated Facilities | Existing 345 kV Lines | County Boundary | WPA |
| Modified Route A- Alignment | | Line to be Removed | State Boundary | WRP |



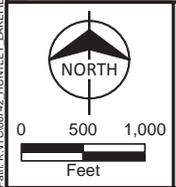
ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Faribault County
Sheet 2 of 12

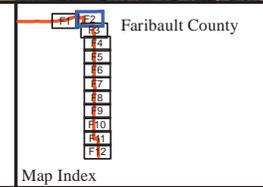
Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

September 19, 2014

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|-------------------------------|-----------------------|-------------------------------------|--------------------|------|
| Proposed Substation/Expansion | Modified Route A | 161 kV | Line to be Removed | City |
| Existing Substation Area | Project ROW | 69 kV | Civil Township | WMA |
| Substation to be Removed | Associated Facilities | New 69 kV Built to 161 kV Standards | Township Sections | WPA |
| Modified Route A- Alignment | | New Double Circuit 161/69 kV | County Boundary | WRP |
| | | New Double Circuit 345/161 kV | State Boundary | |



Faribault County

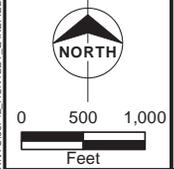
ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Faribault County
Sheet 2A of 12

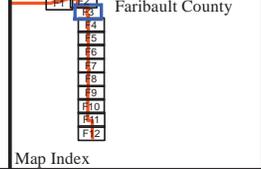
Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

September 19, 2014

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Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
Modified Route A- Alignment		Line to be Removed	State Boundary	WRP



Faribault County

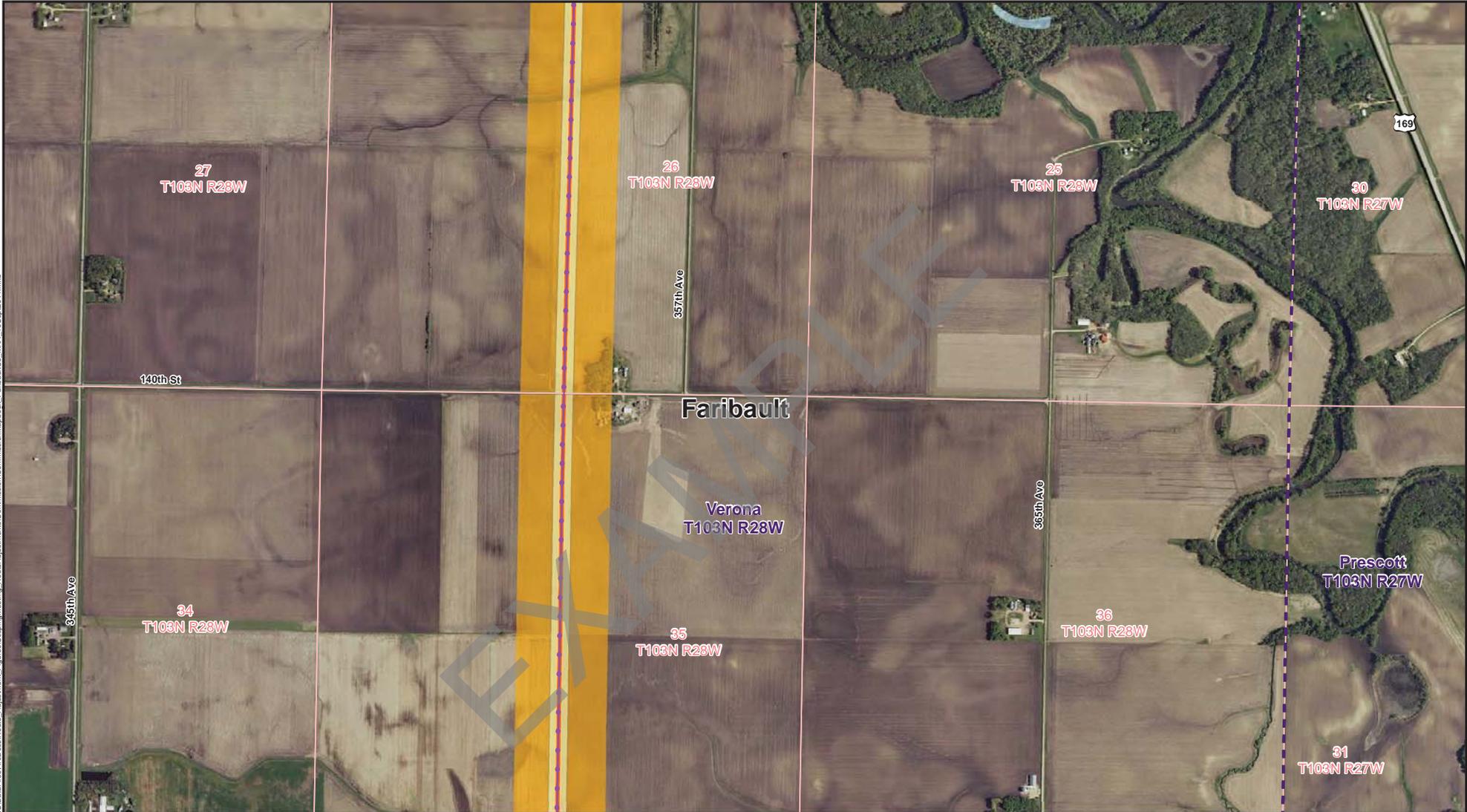
ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Faribault County
Sheet 3 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

September 19, 2014

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	Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
	Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
	Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
	Modified Route A- Alignment		Line to be Removed	State Boundary	WRP

Faribault County

ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Faribault County
Sheet 4 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

September 19, 2014



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	Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
	Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
	Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
	Modified Route A- Alignment		Line to be Removed	State Boundary	WRP

Faribault County

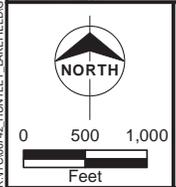
ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Faribault County
Sheet 5 of 12

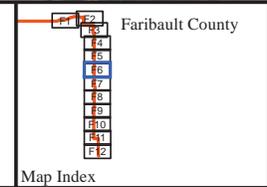
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September 19, 2014

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Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
Modified Route A- Alignment		Line to be Removed	State Boundary	WRP



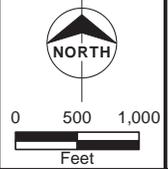
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Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Faribault County
Sheet 6 of 12

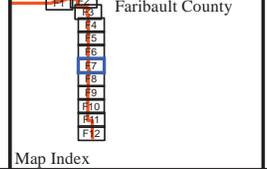
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Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
Modified Route A- Alignment		Line to be Removed	State Boundary	WRP



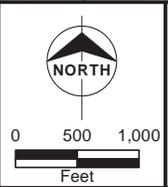
Faribault County

ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

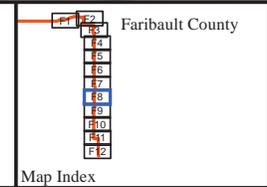
Modified Route A
Faribault County
Sheet 7 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

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Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
Modified Route A- Alignment		Line to be Removed	State Boundary	WRP



Faribault County

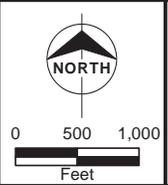
ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Faribault County
Sheet 8 of 12

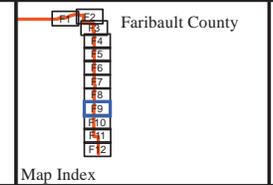
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Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
Modified Route A- Alignment		Line to be Removed	State Boundary	WRP



Faribault County

ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Faribault County
Sheet 9 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

September 19, 2014

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	Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
	Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
	Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
	Modified Route A- Alignment		Line to be Removed	State Boundary	WRP

Faribault County

Map Index

ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Faribault County
Sheet 11 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

September 19, 2014

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	Proposed Substation/Expansion	Modified Route A	Existing 69 kV Lines	Civil Township	City
	Existing Substation Area	Project ROW	Existing 161 kV Lines	Township Sections	WMA
	Substation to be Removed	Associated Facilities	Existing 345 kV Lines	County Boundary	WPA
	Modified Route A- Alignment		Line to be Removed	State Boundary	WRP

Faribault County

Map Index

ITC Midwest
Minnesota to Iowa
345 kV Transmission Project

Modified Route A
Faribault County
Sheet 12 of 12

Source: MN Geo 2011 Aerials; Minnesota DNR; Minnesota Geo GIS; Minnesota DOT; ITC; Burns & McDonnell.

September 19, 2014

**MINNESOTA PUBLIC UTILITIES COMMISSION
COMPLAINT HANDLING PROCEDURES FOR
HIGH-VOLTAGE TRANSMISSION LINES**

A. Purpose

To establish a uniform and timely method of reporting complaints received by the permittee concerning permit conditions for site preparation, construction, cleanup and restoration, operation, and resolution of such complaints.

B. Scope

This document describes complaint reporting procedures and frequency.

C. Applicability

The procedures shall be used for all complaints received by the permittee and all complaints received by the Minnesota Public Utilities Commission (Commission) under Minn. R. 7829.1500 or Minn. R. 7829.1700 relevant to this permit.

D. Definitions

Complaint: A verbal or written statement presented to the permittees by a person expressing dissatisfaction or concern regarding site preparation, cleanup or restoration or other route and associated facilities permit conditions. Complaints do not include requests, inquiries, questions or general comments.

Substantial Complaint: A written complaint alleging a violation of a specific permit condition that, if substantiated, could result in permit modification or suspension pursuant to the applicable regulations.

Unresolved Complaint: A complaint which, despite the good faith efforts of the permittee and a person, remains to both or one of the parties unresolved or unsatisfactorily resolved.

Person: An individual, partnership, joint venture, private or public corporation, association, firm, public service company, cooperative, political subdivision, municipal corporation, government agency, public utility district, or any other entity, public or private, however organized.

E. Complaint Documentation and Processing

1. The permittee shall designate an individual to summarize complaints for the Commission. This person's name, phone number and email address shall accompany all complaint submittals.
2. A person presenting the complaint should to the extent possible, include the following information in their communications:
 - a. name, address, phone number, and email address;
 - b. date of complaint;
 - c. tract or parcel number; and
 - d. whether the complaint relates to a permit matter or a compliance issue.
3. The permittee shall document all complaints by maintaining a record of all applicable information concerning the complaint, including the following:
 - a. docket number and project name;
 - b. name of complainant, address, phone number and email address;
 - c. precise description of property or parcel number;
 - d. name of permittee representative receiving complaint and date of receipt;
 - e. nature of complaint and the applicable permit condition(s);
 - f. activities undertaken to resolve the complaint; and
 - g. final disposition of the complaint.

F. Reporting Requirements

The permittee shall commence complaint reporting at the beginning of project construction and continue through the term of the permit. The permittee shall report all complaints to the Commission according to the following schedule:

Immediate Reports: All substantial complaints shall be reported to the Commission the same day received, or on the following working day for complaints received after working hours. Such reports are to be directed to the Commission's Consumer Affairs Office at 1-800-657-3782 (voice messages are acceptable) or consumer.puc@state.mn.us. For e-mail reporting, the email subject line should read "PUC EFP Complaint" and include the appropriate project docket number.

Monthly Reports: By the 15th of each month, a summary of all complaints, including substantial complaints received or resolved during the preceding month, shall be filed to Dr. Burl W. Haar, Executive Secretary, Public Utilities Commission, using the eDockets system. The eDockets system is located at: <https://www.edockets.state.mn.us/EFiling/home.jsp>

If no complaints were received during the preceding month, the permittee shall file a summary indicating that no complaints were received.

G. Complaints Received by the Commission

Complaints received directly by the Commission from aggrieved persons regarding site preparation, construction, cleanup, restoration, operation and maintenance shall be promptly sent to the permittee.

H. Commission Process for Unresolved Complaints

Commission staff shall perform an initial evaluation of unresolved complaints submitted to the Commission. Complaints raising substantial permit issues shall be processed and resolved by the Commission. Staff shall notify the permittee and appropriate persons if it determines that the complaint is a substantial complaint. With respect to such complaints, each party shall submit a written summary of its position to the Commission no later than ten (10) days after receipt of the staff notification. The complaint will be presented to the Commission for a decision as soon as practicable.

I. Permittee Contacts for Complaints and Complaint Reporting

Complaints may be filed by mail or email to:

ITC Midwest LLC
Jeanne Archie
Senior Real Estate Specialist
123 5th Street, S.E.
Cedar Rapids, IA 52401
Phone: 319-297-6764
jarchie@itctransco.com

This information shall be maintained current by informing the Commission of any changes by eFiling, as they become effective.

**MINNESOTA PUBLIC UTILITIES COMMISSION
COMPLIANCE FILING PROCEDURE FOR
PERMITTED ENERGY FACILITIES**

A. Purpose

To establish a uniform and timely method of submitting information required by the Commission energy facility permits.

B. Scope and Applicability

This procedure encompasses all compliance filings required by permit.

C. Definitions

Compliance Filing: A filing of information to the Commission, where the information is required by a Commission site or route permit.

D. Responsibilities

1. The permittee shall eFile all compliance filings with Dr. Burl W. Haar, Executive Secretary, Public Utilities Commission, through the eDockets system. The eDockets system is located at: <https://www.edockets.state.mn.us/EFiling/home.jsp>

General instructions are provided on the eDockets website. Permittees must register on the website to eFile documents.

2. All filings must have a cover sheet that includes:
 - a. Date
 - b. Name of submitter/permittee
 - c. Type of permit (site or route)
 - d. Project location
 - e. Project docket number
 - f. Permit section under which the filing is made
 - g. Short description of the filing

3. Filings that are graphic intensive (e.g., maps, engineered drawings) must, in addition to being eFiled, be submitted as paper copies and on CD. Paper copies and CDs should be sent to: 1) Dr. Burl W. Haar, Executive Secretary, Minnesota Public Utilities Commission, 121 7th Place East, Suite 350, St. Paul, MN 55101-2147, and 2) Department of Commerce, Energy Environmental Review and Analysis, 85 7th Place East, Suite 500, St. Paul, MN 55101-2198.

The Commission may request a paper copy of any eFiled document.

EXAMPLE

PERMIT COMPLIANCE FILINGS¹

PERMITTEE: ITC Midwest LLC

PERMIT TYPE: High-Voltage Transmission Line Route Permit

PROJECT LOCATION: Jackson, Martin, and Faribault Counties

PUC DOCKET NUMBER: ET-6675/TL-12-1337

Filing Number	Permit Section	Description of Compliance Filing	Due Date
	5.1	Notification of Landowners	First contact after issuance of route permit.
	5.2.1	Field Representative	14 days prior to commencing construction.
	5.2.11	Restoration	60 days after completion of all construction activities.
	5.2.13	State Historic Preservation Office Consultation	After completion of consultation.
	5.4.2	Other Permits and Regulations	Upon request of the Commission.
	6.1	Construction Environmental Control Plan (CECP)	30 days prior to submitting the plan and profile for any segment of the Project.
	6.2	Agricultural Impact Mitigation Plan distribution	First contact after issuance of route permit in accordance with Section 4.1.
	6.3	Vegetation Management Plan	Submitted with CECP in accordance with Section 5.1.
	6.4	Avian Mitigation Plan	Submitted with CECP in accordance with Section 5.1.

¹ This compilation of permit compliance filings is provided for the convenience of the permittee and the Commission. It is not a substitute for the permit; the language of the permit controls.

Filing Number	Permit Section	Description of Compliance Filing	Due Date
	6.5	Des Moines River Crossing	Upon completion of consultation with DNR and as part of the plan and profile in accordance with Section 8.1.
	8.0	Complaint Procedures	Prior to the start of construction.
	9.1	Plan and Profile	30 days before right-of-way preparation.
	9.2	Periodic Status Reports	Monthly
	9.3	Completion of Construction and In-Service Date	Three days prior to in-service date.
	9.4	As-Builts	60 days after completion of construction.
	9.5	GPS Data	60 days after completion of construction.

Appendix C

Narrative of the Scoping Summary Report

Scoping Summary Report

Great Northern Transmission Line Environmental Impact Statement

Prepared for
U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Washington, DC 20585

Minnesota Department of Commerce
Energy Environmental Review and Analysis
85 7th Place East, Suite 500
Saint Paul, MN 55101

Cooperating Agencies:
U.S. Army Corps of Engineers
U.S. Environmental Protection Agency
U.S. Fish and Wildlife Service

November 2014

Scoping Summary Report

September 2014

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Acronyms and Abbreviations

AC	Alternating Current
ATF	Advisory Task Force
CFR	Code of Federal Regulations
CON	Certificate of Need
DOE	U.S. Department of Energy
DOE	U.S. Department of Energy
EERA	Energy Environmental Review and Analysis
EIS	Environmental Impact Statement
EMF	electric and magnetic fields
EO	Executive Order
kV	kilovolt
LUG	Local Unit of Government
MW	megawatt
MnDNR	Minnesota Department of Natural Resources
MN PUC	Minnesota Public Utilities Commission
NEPA	National Environmental Policy Act
NOI	Notice of Intent
NWI	National Wetland Inventory
PPSA	Power Plant Siting Act
ROW	Right-of-way
SNA	Scientific and Natural Area
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
WMA	Wildlife Management Area
WMMPB	Western Mesabi Mine Planning Board

1.0 Introduction

1.1 Overview

On April 15, 2014, Minnesota Power, an operating division of ALLETE, Inc., applied to the U.S. Department of Energy (DOE) for a Presidential permit¹ for a new 235-270 mile long, 500-kilovolt alternating current (AC) high-voltage transmission line that would cross the border between the United States and Canada in Roseau County, Minnesota. After crossing the border, the transmission line would connect into the Minnesota Power Blackberry Substation near Grand Rapids, Minnesota (Figure 1-1). The DOE's National Electricity Delivery Division, in the Office of Electricity Delivery and Energy Reliability (OE-20), is responsible for issuing Presidential permits. The Presidential permit for Minnesota Power (OE Docket Number PP-398), if issued, would authorize Minnesota Power to construct, operate, maintain, and connect the U.S. portion of the project.

On the same date, Minnesota Power also filed an application for a route permit with the Minnesota Public Utilities Commission (MN PUC). Under the Minnesota Power Plant Siting Act (PPSA), the MN PUC must determine the route for any proposed transmission line of 100 kilovolt (kV) or more and greater than 1,500 feet in length. As part of the route permit, the MN PUC will also list any conditions it will require for constructing, operating and maintaining the project. The MN PUC found the route permit application complete on July 2, 2014.

Through a separate Certificate of Need (CON) process, the MN PUC must also determine whether there is a need for a transmission line, and establish the size, type and required end points of the Project. Minnesota Power filed its CON application for the Great Northern Transmission Line (GNTL) Project with the MN PUC on October 22, 2013, and anticipates a decision by May 2015.

A project overview is provided in Section 1.9, and additional project details are provided in Minnesota Power's April 15, 2014, application letter to DOE. All of these documents are available on the DOE/DOC project website at <http://www.greatnortherneis.org>, the Minnesota Department of Commerce (DOC) e-dockets website (<https://www.edockets.state.mn.us/EFiling/edockets/searchDocuments.do?method=showeDocketsSearch&showEdocket=true>), docket number E015/TL-14-21), the DOC-EERA website (<http://mn.gov/commerce/energyfacilities/#ui-tabs-3>, docket number 14-21), and additional project information is also available on the Minnesota Power's website at <http://greatnortherntransmissionline.com>. Figure 1-1 shows the two major route alternatives proposed by Minnesota Power.

¹ In accordance with Executive Order (EO) 10485, as amended by EO 12038, and the regulations codified at 10 Code of Federal Regulations (CFR) 205.320 et seq. (2000), "Application for Presidential Permit Authorizing the Construction, Connection, Operation, and Maintenance of Facilities for Transmission of Electric Energy at International Boundaries."

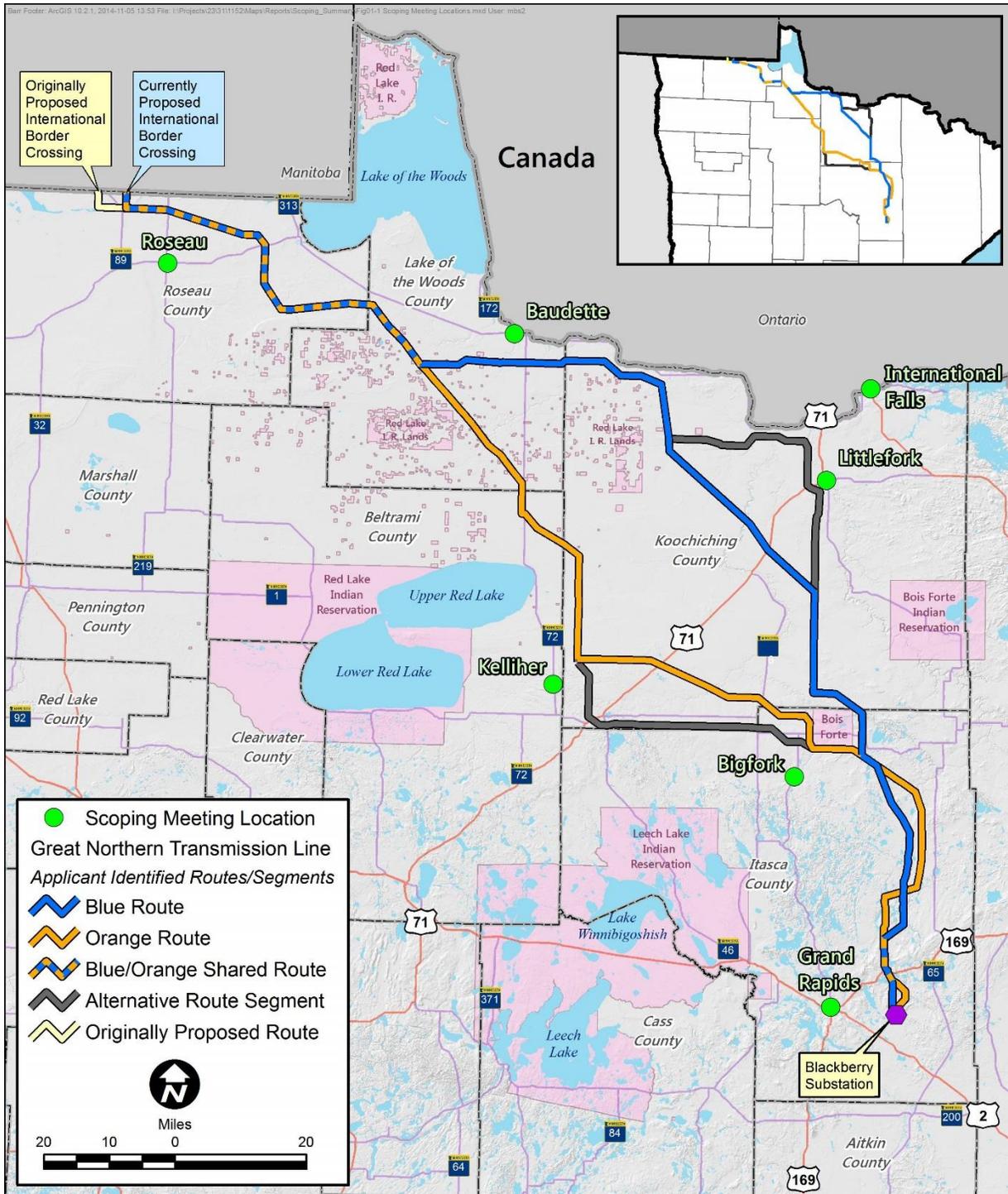


Figure 1-1 Project Regional Map

1.2 Joint Federal and State Environmental Review

Pursuant to the National Environmental Policy Act of 1969 (NEPA), when considering an application for a Presidential permit the DOE must take into account possible environmental impacts of the proposed facility. DOE has determined that an Environmental Impact Statement (EIS) is the appropriate level of environmental review. Therefore, an EIS will be prepared in compliance with NEPA and DOE's implementing regulations, 10 Code of Federal Regulations (CFR) Part 1021.

In addition, under the PPSA, the MN PUC must also determine the route for the proposed line and any conditions it will require for construction, operation, and maintenance. As part of this MN PUC Route Permit decision-making process, a state EIS must be prepared.

In order to avoid duplication, DOE and the Minnesota DOC-Energy Environmental Review and Analysis (DOC-EERA) will prepare a single EIS to comply with environmental review requirements under NEPA and the PPSA. DOE will act as federal joint lead agency with DOC-EERA acting as state joint lead agency per 40 CFR 1501.5(b). DOC-EERA prepares EISs for proposed high-voltage transmission lines pursuant to Minnesota Statute Section 216E.03, Subdivision 5.

DOE and DOC-EERA have implemented a joint planning and scoping process to encourage agency and public involvement in the review of the Project, and to identify the range of reasonable alternatives. The public outreach process is designed to facilitate public discussion of the scope of appropriate issues to be addressed in the EIS.

1.3 Public Outreach

On June 27, 2014, DOE published in the *Federal Register* its Notice of Intent (NOI) to Prepare an EIS and to Conduct Public Scoping Meetings; Notice of Floodplains and Wetlands Involvement for the Great Northern Transmission Line (79 FR 36493). The NOI, provided in Appendix A, explained that DOE would be assessing potential environmental impacts and issues associated with the Project and reasonable alternatives. The NOI was sent to interested parties including federal, state, and local officials; agency representatives; stakeholder organizations; local libraries, newspapers, and radio and TV stations; and private individuals in the vicinity of the proposed transmission line. Issuance of the NOI commenced a 45-day public scoping period that ended on August 15, 2014. However, the NOI did note that comments submitted after the deadline "would be considered to the extent practicable."

Minnesota Power placed advertisements in 11 local and regional newspapers along the Project corridor to invite the public to local scoping meetings and to announce their times and locations. Copies of newspaper tear sheets and affidavits are included in Appendix B and are available at the DOC e-dockets website

(<https://www.edockets.state.mn.us/EFiling/edockets/searchDocuments.do?method=showeDocketsSearch&showEdocket=true>, e-dockets number 14-21, document ID 20149-103236-01).

During the public scoping period, DOE and DOC conducted eight scoping meetings (Figure 1-1). Table 1-1 provides the dates and locations where scoping meetings were held.

Table 1-1 Summary of Scoping Meetings

Meeting Date and Time	Location	Number of Attendees
July 16, 2014, 11:00 AM	Roseau Civic Center, Roseau, Minnesota	22
July 16, 2014, 6:00 PM	Lake of the Woods School, Baudette, Minnesota	6
July 17, 2014, 11:00 AM	Littlefork Community Center, Littlefork, Minnesota	12
July 17, 2014, 6:00 PM	AmericInn, International Falls, Minnesota	4
July 23, 2014, 11:00 AM	Kelliher Public School, Kelliher, Minnesota	7
July 23, 2014, 6:00 PM	Bigfork School, Bigfork, Minnesota	17
July 24, 2014, 11:00 AM	Sawmill Inn, Grand Rapids, Minnesota	19
July 24, 2014, 6:00 PM	Sawmill Inn, Grand Rapids, Minnesota	20

The meetings provided the public with the opportunity to learn more about the project and to provide comments on potential environmental issues associated with the project. A total of 46 people gave oral comments at the meetings, and their comments were transcribed by a court stenographer.

Transcripts of the oral comments at the scoping meetings are provided in Appendix C and are available at <http://greatnortherneis.org>, the DOC e-dockets website (<https://www.edockets.state.mn.us/EFiling/edockets/searchDocuments.do?method=showeDocketsSearch&showEdocket=true>, e-dockets number 14-21), and the DOC-EERA website at <http://mn.gov/commerce/energyfacilities//resource.html?Id=33954>. DOE and DOC received scoping comments in the form of 122 written letters, emails, or website submittals from private citizens, government agencies, and nongovernmental organizations (NGOs).

The comment letters received during the scoping period and written materials submitted for the record at the scoping meetings are provided in Appendix D and are also available at <http://greatnortherneis.org>, the DOC e-dockets website (<https://www.edockets.state.mn.us/EFiling/edockets/searchDocuments.do?method=showeDocketsSearch&showEdocket=true>, e-dockets number 14-21) and the DOC-EERA website at <http://mn.gov/commerce/energyfacilities//resource.html?Id=33954>. DOE and DOC's Draft EIS will also contain a subsection that summarizes the comments received during the scoping period.

1.4 Cooperating Agencies

DOE has invited several federal agencies to participate in the preparation of the EIS to ensure that it satisfies those agencies' environmental requirements and to engage their specialized expertise. The federal cooperating agencies are the St. Paul District of the U.S. Army Corps of Engineers (USACE), Region 5 of the U.S. Environmental Protection Agency (USEPA) and the Twin Cities Ecological Field Office (Region 3) of the U.S. Fish and Wildlife Service (USFWS).

The following outlines each agency's requirements for the EIS:

USACE. The USACE will use the EIS in their decision making for the permits that would be required under Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act. In accordance with 33 CFR Part 325 Appendix B (8)(c), the USACE will coordinate with DOE to ensure the project EIS in supports USACE's decision making requirements on the Section 10 and Section 404 permit application by Minnesota Power.

USEPA. Under Section 309 of the Clean Air Act, the EPA is required to review and publicly comment on the environmental impacts of major federal actions. EPA also has responsibilities under Section 404 of the Clean Water Act. In addition, the EPA administers various statutes and regulations, including, but not limited to, the Safe Drinking Water Act; the Pollution Prevention Act; the Resource Conservation and Recovery Act; and the Comprehensive Environmental Response, Compensation, and Liability Act.

EPA involvement as a cooperating agency will include: 1) participation in relevant project meetings and calls and 2) review and comment on preliminary documents to the extent that staff resources allow. However, EPA will exercise its independent review and comment authorities on the Draft and Final EISs consistent with EPA responsibilities under NEPA and Section 309 of the Clean Air Act.

USFWS. The USFWS role as a cooperating agency will include evaluation of environmental impacts on fish and wildlife, in general. They will also evaluate potential environmental impacts on federally listed threatened and endangered species and designated critical habitat and might issue a Biological Opinion based on a potential Biological Assessment prepared for the project.

1.5 Participating Agencies

Other federal agencies may participate in the EIS process, although not as Cooperating Agencies under NEPA (as defined in 36 CFR 1501.6).

1.6 Workgroup

Pursuant to the PPSA the MN PUC may appoint an advisory task force (ATF) as an aid to the environmental review process (Minnesota Statutes 2014, section 216E.08). An ATF must include representatives of local governmental units in the project area. An ATF typically assists DOC-EERA staff with identifying specific impacts and alternative routes and sites to be evaluated in the EIS for the project. An ATF expires upon designation of alternative routes to be included in the EIS (Minnesota Rules, part 7850.2400).

In its July 2, 2014, Order (DOC e-docket number 20147-101165-01) accepting the Route Permit Application as complete the MN PUC authorized the formation (structure and charge) of an ATF.

Subsequently the MN PUC concluded that for this docket an alternative approach to the ATF for gathering public input was necessary (see the DOC e-dockets website <https://www.edockets.state.mn.us/EFiling/edockets/searchDocuments.do?method=showeDocketsSearch&showEdocket=true>, document ID 20149-103259-01). The MN PUC amended its previous order (<https://www.edockets.state.mn.us>, e-dockets number 14-21, document ID 20144-98464-01) to remove

the ATF structure and charge, and approved instead the workgroup process. The purpose of the Workgroup is primarily to provide an additional opportunity for local government representatives to discuss their concerns, develop potential alternative route segments, review potential zoning conflicts, and ensure local input necessary for informed decision-making.

The MN PUC requested the DOC-EERA to conduct a minimum of two workgroup meetings and consult directly with local units of government (LUGs) within the project area. The DOC-EERA held two four-hour Workgroup meetings in Grand Rapids Minnesota on September 30 and October 29, 2014. In addition to the two meetings, Workgroup members were provided a scoping questionnaire designed to assist Workgroup members in identifying ordinances, land use planning, or zoning issues. Workgroup meeting agendas and minutes as well as LUG/NGO Scoping Questionnaire responses are provided in Appendix E.

The primary concerns expressed by Workgroup members at the outset of the Workgroup meetings were related to the routing process and potential impacts on the Workgroup members' constituents. Through discussion during the two Workgroup sessions, the following issues and themes were identified:

- Roseau County representatives expressed the Roseau County Board's preference for Minnesota Power's proposed route through Roseau County. They indicated an understanding of the constraints Minnesota Power faces at the border crossing and expressed support, given these constraints, for Minnesota Power's proposed amended border crossing. In addition, they expressed opposition to alternative route segments proposed for the Roseau County area during scoping due to human settlement and private property use (particularly agricultural) impacts associated with these alternative route segments.
- Concerns were raised by a number of Workgroup members regarding visual impacts to the Big Bog State Recreation Area. The Waskish Township/Big Bog State Recreation Area representative advocated for the EIS to include an assessment of impacts to the Big Bog State Recreation Area and boardwalk as well as detailed discussion of mitigation measures to address impacts in this area.
- The benefits of following existing transmission corridors and the feasibility of following existing corridors through Minnesota Department of Natural Resources (MnDNR) Scientific and Natural Areas (SNA), including the Red Lake Peatland SNA was considered at length.
- Impacts to outstanding natural resources including the Bear-Wolf Peatland (MnDNR Minnesota Biological Survey preliminary site of high biodiversity significance) were identified as a concern. These issues as well as minimizing habitat fragmentation through corridor sharing were highlighted, particularly by the Izaak Walton League representative.
- Lawrence and Balsam Township representatives expressed their opposition to the Orange Route and emphasized the significance of potential impacts to these communities and their residents if the Orange Route is permitted.

- Concerns were raised over potential impacts to mining resources. Through the Trout Lake township representative, Western Mesabi Mine Planning Board (WMMPB) communicated their position that siting and other aspects of Project development should consider WMMPB's objective of allowing future mining without encumbrance, delay, or cost.
- In a number of areas, minor adjustments to alternative route segments or alignment modifications proposed during the scoping period (detailed in the meeting minutes in Appendix E) were suggested to minimize overall impacts to residents.

Workgroup efforts culminated in the development of a Workgroup resolution, putting forth the following five recommendations that reflect the group's consensus:

- This is a public purpose project and should therefore be routed as much as possible on public land, minimizing impact to human settlement and private property use.
- As much as practical and feasible, the route should follow existing infrastructure corridors.
- At this time the Workgroup prefers the Blue Route (as modified by Minnesota Power's amended border crossing) over the Orange Route.
- The Workgroup would like the DOC-EERA to investigate the legality of following an existing transmission line corridor through an SNA as an alternative route. If routing through an SNA is a legally viable option, the Workgroup proposes an alternative route segment following the existing Northern States Power 500 kV line through the Red Lake Peatland SNA and the Lost River Peatland SNA and recommends analysis of this additional route alternative in the EIS.
- The Workgroup would like to put forth two alternative routes for consideration during scoping.

1.7 Project Chronology to Date for the Federal/State EIS Scoping Processes for the Project

The following timeline summarizes the scoping process events previously described:

April 15, 2014	DOE received Minnesota Power's application for Presidential permit.
April 15, 2014	DOC-EERA received Minnesota Power's application for a route permit.
April 18, 2014	MN PUC issued a notice seeking comments on if the route permit application was complete and if an ATF should be appointed.
June 27, 2014	DOE issued <i>Federal Register</i> NOI (79 FR 36493) to prepare an EIS. Federal EIS scoping starts.
July 2, 2014	MN PUC released its Order on the completeness of the route permit application and authorized the DOC-EERA to establish three ATFs.
July 16 to 24, 2014	Eight public scoping meetings held in various locations in Minnesota (Table 1-1).

August 8, 2014	DOC-EERA requested the MN PUC reconsider question of ATFs.
August 15, 2014	Scoping comment period ended.
August 22, 2014	MN PUC comment period on need for ATFs ended.
September 11, 2014	MN PUC reconsidered the question of ATFs.
September 30, 2014	DOC-EERA conducted the first Workgroup meeting in Grand Rapids.
October 29, 2014	DOC-EERA conducted the second Workgroup meeting in Grand Rapids.
November 4, 2014	DOC-EERA requested comments from the Workgroup members on the write-up and figures that summarize the two Workgroup meetings.
November 6, 2014	Workgroup comment period ended.
November 7, 2014	Scoping Summary Report released.

1.8 Purpose and Need

Manitoba Hydro has excess electricity capacity that is available for export to the United States. The underlying need for this transmission line project, therefore, is to increase the amount of electrical capacity that can be delivered from Manitoba Hydro's hydroelectric stations in Manitoba to Minnesota Power and other utilities in the United States. The project would also improve grid reliability on both sides of the border.

In its CON application, Minnesota Power states that the project is needed to deliver 383 megawatts (MW), including the 250-MW PPA and the 133-MW Renewable Optimization Agreement, of hydropower and wind-storage energy products to serve Minnesota Power. The project is also needed to provide additional hydropower capacity and energy to other utilities, thereby meeting long-term state and regional energy needs. While large hydropower transfers like this do not satisfy the current renewable energy mandates in Minnesota, such a hydropower transfer could support compliance with future carbon regulations as well as help meet renewable energy requirements for utilities in Wisconsin and other states.

To meet this underlying need, Minnesota Power proposes to construct, operate, and maintain an approximately 220-mile, overhead, single-circuit, 500-kV AC transmission line between the Minnesota-Manitoba border crossing northwest of Roseau, Minnesota, and a new Blackberry 500/230/115 kV Substation near Grand Rapids, Minnesota. The project is described in detail in its April 15, 2014, application letter to DOE which is available on the DOE project website at <http://www.greatnortherneis.org>. Minnesota Power has determined that the original proposed border crossing is no longer feasible and on October 29th Minnesota Power submitted a letter to DOE and DOC-EERA amending their proposed border crossing (Figure 1-1).

In its CON process, the MN PUC is responsible for determining whether the project is needed, as well as the size, type and required end points of the project. Minnesota Power filed its CON application for the

Project with the MN PUC on October 22, 2013, and anticipates a decision by May 2015 (see <http://mn.gov/commerce/energyfacilities/Docket.html?Id=33608>). Although the EIS will include an analysis of a “No Action” alternative, it will not assess alternative ways to meet the underlying project need. These issues will be determined in the Minnesota CON process.

1.9 Applicant’s Project Description

The project would be located on all new right-of-way (ROW) that would be approximately 200-foot wide, with a wider ROW required for certain spans at angle and corner structures, for guyed structures, or where special design requirements are dictated by topography. Steel lattice tower structure (free-standing towers constructed in a crisscrossed pattern of steel beams) types and configurations would be considered for the project to accommodate variations in terrain and land use including a self-supporting lattice structure, a lattice guyed-V structure, and a lattice guyed delta structure. Minnesota Power currently estimates approximately 4 to 5 structures per mile of transmission line with towers spaced approximately 1,000 to 1,450 feet apart, with shorter or longer spans as necessary.

The type of structure in any given section of transmission line would be dependent on land type, land use, and potential effect on the surrounding landscape, and would typically range in height from approximately 100 feet above ground to approximately 150 feet above ground. In some instances, such as where the project crosses an existing transmission line, taller structures would be required. In cultivated lands, Minnesota Power would use self-supporting lattice structures so as not to interfere with existing land use.

Minnesota Power proposes to expand the site of its existing Blackberry 230/115 kV Substation near Grand Rapids, Minnesota, to incorporate a new Blackberry 500 kV Substation, which would be constructed adjacent to and east of the existing substation. The 500 kV Substation would accommodate the new 500 kV line, existing 230 kV lines, and all associated 500 kV and 230 kV equipment. Additionally, the project would require construction of a new 500 kV Series Compensation Station, which would be located within or adjacent to the final route approved by the State of Minnesota, and would include the 500 kV series capacitor banks necessary for reliable operation and performance of the proposed transmission line, and all associated equipment.

The final location for the 500 kV Series Compensation Station would be determined by electric design optimization studies and final route selection. The Applicant has initiated the electric design optimization studies to identify generally what would be a preferred location of the 500 kV Series Compensation Station along the final route permitted by the state. Based on these studies, candidate sites in Minnesota include the overall midpoint of the line and at one-third of the overall transmission line distance from Blackberry to the existing Dorsey Substation in Manitoba, Canada. Minnesota Power will provide more information on these studies and the preferred location of the 500 kV Series Compensation Station when available.

2.0 Scoping Comments

Minnesota Power's two proposed routes largely avoid farms and residences by following existing transmission corridors through forested wetland and upland areas. Therefore, many comments on the scope of the EIS focused on ways to minimize unavoidable conflicts with forested areas and the associated natural resources. Other comments focused on potential conflicts with airports or seaplane landing areas on nearby lakes. Many commenters, particularly those with property in the more populated area near Grand Rapids, proposed alternative route segments or mitigation on one route or another that could reduce or eliminate visual, health or other impacts that they believe would impair their quality of life or their use of their a specific property.

DOE and DOC-EERA will consider the content of all comments in determining the scope of the EIS. A summary of the comments received during the scoping period is provided in Table 2-1, which identifies the major issues raised, arranged by general topic. Table 2-2 presents a list of the individuals or organizations who submitted scoping comments along with the date each comment was received by DOE, DOC-EERA, or MN PUC.

The Draft EIS will also contain a subsection that summarizes the comments received during scoping. For the purposes of this Scoping Report, the comments are paraphrased and condensed from the actual comments; however, the environmental analysis included in the EIS will rely on the full text of the comments as submitted by the commenters.

Table 2-1 Summary of Scoping Comments Received by DOE and DOC-EERA

Subject Area	Comment Summary
Regulatory Process	<p><i>Purpose and Need.</i> Seven commenters questioned whether the project was really needed for various reasons, including that capacity of the line is larger than required for Minnesota Power’s purchase agreement, that Minnesota Power has already met its statutory renewable energy goals, and that there is another transmission system option that might meet the need instead. One commenter pointed out that the need issue is determined through the MN PUC CON process, and encouraged citizens to participate in that process if they are concerned about whether the project is needed.</p> <p><i>EIS Process:</i> Seven commenters, including state and federal agencies, commented on their expectations for the EIS and related regulatory processes, including requesting details on alternative route screening criteria, requesting that the process be transparent, and requesting clarification of the roles of the Applicant and the various agencies involved. The EPA pointed out they have a review role for a federal EIS under the Clean Air Act. One commenter specifically requested information on whether the MnDNR could on its own change or request review of routes already screened out by Minnesota Power in its route permit application.</p> <p><i>Permits.</i> Ten commenters either identified that permits that will be required or requested information about how and what type of conditions can be included in the state route permit. The MnDNR and the Minnesota Department of Transportation (MnDOT) provided information about their permits and permit requirements. Other commenters requested information about the state route permit as well as the applicability of local zoning in that process. One comment asked if and how the route could be made more specific that the allowed route width, and another comments suggested the route permit application did not contain the information required by the applicable rules.</p> <p><i>Connected Action.</i> One commenter asked that the EIS include an analysis of the environmental impacts of future transmission lines to Wisconsin or Michigan that may rely on this project to move the power to connecting substations. That commenter also requested an analysis of how the energy will be in states to the east of Minnesota Power’s service area, such as Wisconsin or Michigan.</p>

Subject Area	Comment Summary
Proposed Action and Alternatives (Alternatives, Route Preference)	<p><i>Alternatives Analysis.</i> Thirty-three commenters proposed modifications to one or both of the Applicant’s two proposed routes. However, some of these proposed alternative segments were in Canada, which is outside the jurisdiction of both the State of Minnesota and DOE.</p> <p>These proposed alternative route segments include construction in or adjacent to existing transmission line and utility corridors, highway ROWs (e.g., Highway 7, 65, or 53), using mostly non-private lands (federal, state, county, businesses), or along the Canadian side of the border. Several commenters generally suggested that the route should go through western Minnesota, but these commenters did not propose a specific route.</p> <p>Seven commenters noted that the EIS should identify and evaluate alternative border crossings for the transmission line, evaluate constraints at the border crossing, and discuss the process and factors used by Minnesota Power to narrow the range of alternative routes and border crossing locations, specifically why certain alternatives have been carried forward for NEPA analysis while other alternatives and border crossing locations were eliminated.</p> <p>Two commenters noted that the EIS should evaluate the concept of distributed generation and double-circuiting as a way to reduce the need for transmission lines.</p>

Subject Area	Comment Summary
<p>Biological Resources (Environmental Impacts, Forest Service Lands, Soils, State Lands, Vegetation, Wildlife)</p>	<p><i>State/Federal/Protected Lands.</i> Eight commenters expressed concern regarding impacts to State Administered Lands, Sites of Biodiversity Significance (including preliminary sites), SNAs, Watershed Protection Areas, Wildlife Management Areas (WMA), old growth forest on state lands (Ecologically Important Lowland Conifers and Lowland Conifer Old Growth), Minnesota Biological Survey calcareous fens, Important Bird Areas, National Natural Landmarks, State Recreation Areas, High Conservation Value State Forest, Great Gray Owl Management Area, USFWS Interest Lands, and Reinvest in Minnesota Lands.</p> <p>Five commenters suggested the route should pass through SNAs in the existing corridor or on other state land.</p> <p><i>Wildlife.</i> Thirty-three commenters expressed concern about impacts to wildlife species including wood bison, wolf, birds, deer, poweshiek skipperling, northern long-eared bat, bald eagle, osprey, goshawk, moose, and/or Canada lynx, as well as issues related to wildlife habitat/fragmentation, including mitigation for potential habitat/fragmentation impacts.</p> <p><i>Vegetation.</i> Thirteen commenters expressed concern over clearing trees/forest in general and/or in old growth forests, particularly cedar forests.</p> <p>One commenter noted that the EIS should provide information on ROW maintenance, with regard to identifying danger trees falling into the ROW, and whether it's possible to have a harvestable product at the time of ROW maintenance intervals in forested areas.</p> <p>Four commenters expressed concern of invasive species, including plants and earthworms, and that the EIS should discuss potential mitigation efforts for those impacts.</p> <p>Three commenters expressed concern of impacts to rare plant species and recommended that a rare plant survey be completed.</p> <p><i>Other Topics.</i> Two commenters noted that the EIS should discuss other environmental related topics including impacts related to compression of peat soils and watershed level impacts.</p>
<p>Visual Resources (Aesthetics, Viewshed/Scenery)</p>	<p><i>General.</i> Seven commenters noted that the EIS should address general aesthetic and viewshed impacts.</p> <p><i>Impact Analysis.</i> Five commenters noted that the EIS should address aesthetic and visual impacts at specific locations, including Voyagers National Park, Roseau River WMA, Itasca County Bass Lake Park, Bear Lake, and Bigfork River. Three commenters noted that the EIS should address aesthetic and visual impacts at Big Bog State Recreation Area, with one of these commenters noting that the EIS should include a viewshed analysis (with scaled visual renditions on what one would expect to see) for the Big Bog State Recreation Area's Fire Tower and Bog Walk boardwalk. Two commenters noted that the EIS should address impacts to viewsheds and aesthetics associated with forest clearing.</p>

Subject Area	Comment Summary
<p>Land Use and Infrastructure (Airports, Traffic/Transportation, Land Resource Management, Private Property/Land Use)</p>	<p><i>Airports.</i> Thirteen commenters noted that the EIS should address the proximity of the Project to existing aviation facilities (runways, air strips, and water takeoff/landing areas), including the Piney Pinecreek Border Airport, Waskish Airport, William Gray Airfield, Deer Lake, and Lawrence Lake. Four commenters noted that the EIS should address impacts on future planned runways and air strips. One commenter noted that the EIS should address effects of crop dusting flight paths on wild rice leases. One commenter noted that the EIS should address Life Flight Air Ambulance landing sites.</p> <p><i>Traffic/Transportation.</i> One commenter noted that the EIS should address project effects on transportation systems, including highway maintenance and expansion, as well as compliance with the MnDOT’s Utility Accommodation Policy. One commenter noted that the EIS should address noise, traffic, and road condition impacts on Diamond Lake Road.</p> <p><i>Land Resource Management.</i> One commenter noted that the EIS should address project impacts on existing MnDNR plans for prescribed burns in the Roseau Lake WMA, as well as project potential for igniting wildfires and the necessary response actions. One commenter noted that the EIS should address impacts of herbicide runoff onto adjacent lands associated with transmission line maintenance.</p> <p><i>Private Property/Land Use.</i> Five commenters noted that the EIS should address impacts associated with the project’s proximity to existing and planned residences. Five commenters noted that the EIS should address impacts to private land-based livelihoods (such as farming, hunting, foraging, recreation, and artistries). Three commenters noted that the EIS should address the applicability of eminent domain related to the project. Three commenters noted that the EIS should address impacts on property values. Two commenters noted that the EIS should address impacts to privacy, including private roadway access. Two commenters noted that the EIS should address general impacts to private property and residential areas. Two commenters noted that they would like their land to be purchased if crossed by the Project, and two noted that they would like to trade lands with Minnesota if their property is impacted. One commenter noted that the EIS should address impacts associated with different route alignments on potential future expansion of the Balsam Bible Chapel. One commenter noted that the EIS should use current land ownership maps.</p>
<p>Cultural Resources (Historic/Cultural, Tribal Issues)</p>	<p><i>Transmission Line Cultural Resources.</i> Four commenters noted that the EIS should evaluate the impacts of construction on historic resources along the transmission line route, including Conservation Corps Camp 53, logging camps, Big Fork River historic and cultural areas, and cultural resources affected by the construction of the dam to support hydroelectric power development in Manitoba, Canada.</p> <p>Two commenters noted that documentation needs to be developed regarding Section 106 of the National Historic Preservation Act, which includes but is not limited to, consultation with the Minnesota State Historic Preservation Office, the potentially affected tribes, and Tribal Historic Preservation Officers.</p>

Subject Area	Comment Summary
Health and Safety (Health and Safety, National Security)	<p><i>General Health and Safety.</i> A total of twenty-three commenters expressed concern about various health and safety issues, including electric and magnetic fields, effects on animals, airplane and helicopter operations, snowmobile safety, hunting safety, pacemaker operation safety, grid security issues from intentional attacks at substations, and potential for increased lightning strikes.</p> <p><i>Electric and Magnetic Fields (EMFs).</i> Most comments regarding health and safety focused on EMF concerns and requested information on the health effects on children and others, such as effects on immune systems or potential relationship to increasing cancer rates. Stray voltage issues were also raised by two commenters.</p> <p><i>Cardiac pacemakers.</i> Two commenters requested a complete investigation of the potential interference with pacemakers due to the electric fields from the line.</p> <p><i>Airports, airplane and helicopter safety.</i> Two comments specifically expressed concerns about a conflict with the Bill Gray airstrip near Little Fork; two others requested analysis of how hospital (particularly near Balsam Lake Township) and other helicopter operations might be affected by the various routes under consideration.</p> <p><i>Hunting.</i> Three commenters requested a review of how a route might increase hunting in the cleared ROW, thereby increasing the potential for accidental hunting accidents near the new line. One comment expressed concern that hunters might accidentally shoot transformers or the line if they are too near duck hunting areas.</p>
Air Quality and Noise (Air Quality, Noise)	<p><i>Air Quality Analysis.</i> Two commenters raised concerns about air quality. One commenter requested that the EIS address the net effect of the project on air pollution and greenhouse gas production including an evaluation of net greenhouse gas production/sequestration associated with terrestrial carbon cycle impacts. This commenter also requested an analysis addressing the project's potential effect on all criteria pollutants and any significant concentrations of hazardous air pollutants particularly in the context of the protection of public health.</p> <p><i>Noise.</i> Five commenters mentioned concerns about noise and three of these comments focused on substation noise. In particular, it was requested that the EIS identify existing noise levels in the project area, particularly at proposed substation locations, assess increases in both short-term and long-term noise levels associated with the project, and identify mitigation measures that will be implemented to address project related noise.</p>

Subject Area	Comment Summary
Water Resources (Water/Wetlands)	<p><i>Water Quality.</i> Six commenters expressed concern over impacts on water quality resulting from herbicide spraying during ROW maintenance, use of hazardous solvents during construction and maintenance, and construction related erosion and sedimentation.</p> <p>One commenter noted that the EIS should identify impaired waters and whether project activities would negatively contribute to the impairments.</p> <p>One commenter noted that the EIS should address issues related to and mitigation for work that would occur in an identified wellhead (drinking) protection zone.</p> <p><i>Surface Water and Wetlands.</i> Eight commenters expressed concern over impacts to streams, lakes, and wetlands and suggested that the EIS assess direct, indirect, and cumulative impacts to water resources.</p> <p>One commenter noted that the EIS should discuss potential impacts to calcareous fens and USFWS Waterfowl Production Areas and impacts to other native plant communities associated with Wetland Conservation Act provisions. In addition, this commenter also noted that potential impacts to vegetation and wetlands should be addressed as part of an overall vegetation management plan and included in the EIS.</p> <p>One commenter noted that use of the USFWS National Wetland Inventory data may underestimate the areal extent of wetland impact. This commenter also noted that the EIS should include an analysis using the existing transmission line ROW in order to minimize wetland impacts.</p> <p><i>Mitigation.</i> Two commenters noted that the EIS should discuss how the project will comply with wetland permitting requirements.</p> <p>Two commenters noted that the EIS should consider functional losses of wetlands (particularly forested wetlands) when determining wetland mitigation and compensation and that the EIS should include a draft wetland compensation mitigation plan.</p>
Environmental Justice (Environmental Justice)	<p><i>Environmental Justice.</i> One commenter recommended that an environmental justice analysis should be completed for the EIS including a characterization of communities along the transmission line routes, including minority, low-income, and tribal populations at a census block level as well as characterization of potentially disproportionate impacts to these communities from construction, operation, and or maintenance of the project.</p>

Subject Area	Comment Summary
Socioeconomics (Economic, Property Values, Quality of Life, Taxes)	<p><i>Economic Impacts.</i> Fifteen commenters raised economic concerns particularly related to potential impacts on commerce in the Balsam and Bigfork areas, particularly impacts on local timber, tourism, and mining industries. Several commenters requested an assessment of potential impacts on job creation and employment and one commenter emphasized the need for a comprehensive cost-benefit analysis for the project. A number of commenters also requested additional information regarding county, state, and local tax impacts of the project, for example, having to pay these taxes on unusable land and what are the implications of loss in tax revenue resulting from decreasing property values.</p> <p><i>Property Values.</i> Seventeen commenters identified property value impacts and lack of compensation for lost property value as a concern. Property value concerns were largely linked to impacts on the character/relatively isolated wilderness of the impacted properties.</p> <p><i>Quality of Life.</i> Eleven commenters identified impacts to quality of life as a concern. These concerns center around the impact of the Project on certain qualities that define the “sense of place” in the project area including such things as solitude, remoteness, isolation, wilderness, independence, and absence of disturbance and development.</p>
Land Based Economies (Agriculture, Mining/Minerals, Tourism)	<p><i>Agriculture.</i> Four commenters noted that the EIS should address general impacts on farming, including productivity. Three commenters noted that the EIS should address the project’s potential to restrict or obstruct farming and grazing activities. Three commenters noted that the EIS should address impacts associated with weeds in the project area spreading onto farmland. One commenter noted that the EIS should address the project’s effects on crop dusting operations. One commenter noted that the EIS should address impacts of herbicides associated with transmission line ROW maintenance on organic farmland.</p> <p><i>Mining/Minerals.</i> Two commenters noted the EIS should address the project’s potential to affect viability of current and future mining resources. One commenter noted that a “Mining and Minerals” section be included in the EIS and that the EIS should address the likelihood and consequence of mineral resources/transmission line conflict for known and undeveloped resource areas and on state lands.</p> <p><i>Tourism.</i> Four commenters noted that the EIS should address impacts to tourism.</p>
Recreation (Recreation)	<p><i>Recreation.</i> Five commenters noted that the EIS should address impacts on recreational hunting lands. Three commenters noted that the EIS should address project effects on snowmobile and all-terrain vehicle trails. Three commenters noted the EIS should address proximity to public parks, lakes, rivers, and WMAs, as well as access to these resources. Three commenters noted the EIS should address project proximity to city parks, businesses, and services.</p>

Subject Area	Comment Summary
Cumulative Impacts (Cumulative Effects)	<p><i>Cumulative Impact Analysis.</i> Six commenters noted that the EIS should evaluate the impacts of other past or planned linear projects in same corridor between lakes near Grand Rapids such as transmission lines, pipelines, and other projects that have impacted or could impact the area adjacent to the Project. Two commenters specifically requested that the EIS include a clear map of existing high-voltage transmission lines in the project area so they could more easily see where the proposed line could parallel existing lines.</p> <p>Several commenters near Grand Rapids, MN, expressed fatigue over all the linear projects built or proposed to be built in the area and requested an analysis of whether following existing ROWs always results in the least impact. Commenters identified some specific negative impacts that past power plant or linear projects have already had on their quality of life.</p>
Mitigation (Design Criteria/Mitigation Measures)	<p><i>Mitigation Measures.</i> Nine commenters noted that the EIS should consider all appropriate mitigation measures to avoid and reduce impacts to sensitive aquatic and terrestrial habitats; habitat fragmentation; ecological functions; threatened, endangered, and special concern species; soil disturbance; and socioeconomic impacts.</p> <p>Four commenters noted that the EIS should assess methods of reduced forested wetland clearing, reduced use of herbicides for transmission line ROW maintenance, use environmental monitors during construction, appropriate Best Management Practices, reduced upland tree losses, use of clean diesel fuel during construction, and compliance with comply with MN Rules 6135.</p> <p>Two commenters noted that the EIS should include additional information on system reliability, towers, tower lights, separation distances, and potential impacts of having two or more parallel transmission lines damaged at the same time by high winds or lightening. In addition, all mitigation proposed by the Applicant should be further evaluated in the EIS.</p> <p>Three commenters were concerned about a variety of detailed transmission engineering and construction issues, including conductor sizing, placement of structures within the highway ROWs, maintenance of access roads, "line loss" due to transmission of electricity over such long distances, and the need for the planned capacity of the transmission line.</p> <p>One commenter noted that the EIS should identify and discuss the rationale for potential locations for the proposed new 500-kV series Compensation Station associated with each route alternative. In addition, impacts associated with the siting, construction, operation and maintenance of each route alternative's proposed new 500-kV Compensation Station location(s) should also be assessed and disclosed in the EIS with mitigation measures identified.</p>

Subject Area	Comment Summary
Other Issues (Other, No Specific Comment)	<p><i>Renewable energy.</i> Five commenters discussed renewable energy and the project’s relationship to Minnesota Power’s progress toward meeting the Renewable Portfolio Standard.</p> <p><i>MNPUC Process.</i> Several commenters requested additional information about the timeline for the MN PUC process, availability of information regarding existing transmission line routes, public involvement, interactions between the project proponent and the MN PUC.</p> <p><i>ATF.</i> Four commenters mentioned a need for a citizen ATF under Minnesota Statute 216E.08 and Minnesota Administrative Rules 7850.2400.</p> <p><i>Other topics.</i> These topics included one comment regarding increased risk of terrorist attack, one comment on frequency of easement compensation, one comment related to route adjustments made in the Bigfork area during Minnesota Power’s routing process, one question regarding existing capacity at the Minnesota/Ontario boarder, and comments from five agencies related to coordination and communication, information sharing/information sourcing, and timing of decision-making steps.</p>

Table 2-2 Directory of Stakeholder Comments

Stakeholder Name and Affiliation			Comment Date and Source	
First Name	Last Name	Affiliation	Date	Received Via
Federal Agencies				
Tamara	Cameron	USACE	12/10/1013 ²	Mail
Peter	Fasbender	USFWS	7/1/2014	Mail
Lisa	Mandell	USFWS	8/14/2014	Mail
Patricia	Trapp	National Park Service	8/15/2014	Mail
Kenneth	Westlake	EPA	8/14/2014	Mail and Email
State Agencies				
Stacy	Kotch	MnDOT	8/14/2014	Mail
Ryan	Reed	MnDNR - Grand Rapids	7/17/2014	Oral - Littlefork July 17, 11:00 am
Ryan	Reed	MnDNR - Grand Rapids	7/17/2014	Oral - Littlefork July 17, 11:00 am
Ryan	Reed	MnDNR - Grand Rapids	7/23/2014	Oral - Bigfork July 23, 6:00 pm
Jamie	Schrenzel	MnDNR	8/1/2014	Email
Jamie	Schrenzel	MnDNR	8/15/2014	Email
Local Government Agencies				
Balsam Township	Balsam Township	Balsam Township	7/23/2014	Mail
Troy	Beckner	Balsam Volunteer Fire Dept.	8/6/2014	Mail
Itasca County Board of Commissioners	Itasca County Board of Commissioners	Itasca County Board of Commissioners	5/13/2014	Mail
Lawrence Township	Lawrence Township	Lawrence Township	7/16/2014	Mail
Casey	Venema	Lawrence Township	5/8/2014	Email
David	Leonhardt	Waskish Town Board and Citizen Advisory Committee for the Big Bog State Recreation Area	7/16/2014	Oral - Baudette July 16, 6:00 pm

² The USACE December 2013 letter included content relevant to EIS scoping and USACE concurrence points that are concurrent with EIS scoping.

Stakeholder Name and Affiliation			Comment Date and Source	
First Name	Last Name	Affiliation	Date	Received Via
David	Leonhardt	Waskish Town Board and Citizen Advisory Committee for the Big Bog State Recreation Area	7/23/2014	Oral - Kelliher July 23, 11:00 am
David	Leonhardt	Waskish Town Board and Citizen Advisory Committee for the Big Bog State Recreation Area	7/23/2014	Oral - Kelliher July 23, 11:00 am
Non-Governmental Organizations and Individuals				
Gary	Bailey	Private Citizen	7/23/2014	Public Scoping Meeting
Balsam Bible Chapel	Balsam Bible Chapel	The Board of Elders	7/29/2014	Mail
Thomas	Beadle	Private Citizen	5/28/2014	Mail
Thomas	Beadle	Private Citizen		Mail
Thomas	Beadle	Private Citizen	7/16/2014	Oral - Baudette July 16, 6:00 pm
Dr. Erwin	Berglund	Private Citizen	8/15/2014	Email
Tom	Boland	Private Citizen	7/23/2014	Oral - Bigfork July 23, 6:00 pm
Tom	Boland	Private Citizen	7/23/2014	Oral - Bigfork July 23, 6:00 pm
Kathryn and Joseph	Boyle	Private Citizen	5/15/2014	Email
Kathryn and Joseph	Boyle	Private Citizen	8/18/2014	Email
Jim	Bulera	Private Citizen	8/3/2014	Email
Cheryl	Bunes	Private Citizen	5/16/2014	Email
Cheryl	Bunes	Private Citizen	5/12/2014	Mail
Michael	Bunes	Private Citizen	8/15/2014	Mail
Michael and Cheryl	Bunes	Private Citizen	8/15/2014	Mail
Michael	Bunes	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 6:00 pm
Cheryl	Bunes	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 6:00 pm
Toni	Burbie	Private Citizen	6/23/2014	Mail
Wanda	Burbie	Private Citizen	5/29/2014	Mail
Tammy	Card	Private Citizen	5/19/2014	Mail
Tammy	Card	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 6:00 pm
Linda	Castagneri	Private Citizen	8/11/2014	Mail
Linda	Castagneri	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
David	Christiansen	Private Citizen	1/15/2014	Email

Stakeholder Name and Affiliation			Comment Date and Source	
First Name	Last Name	Affiliation	Date	Received Via
Joanne	Cockrum	Private Citizen	8/11/2014	Mail
Joanne	Cockrun	Private Citizen	7/17/2014	Oral - Littlefork July 17, 11:00 am
Luis	Contreras	Private Citizen	8/14/2014	Email
Ross	Dally	Private Citizen	7/16/2014	Oral - Baudette July 16, 6:00 pm
Robert and Janet	Delich	Private Citizen	8/18/2014	Mail
Robert and Janet	Delich	Private Citizen	5/13/2014	Mail
Robert and Janet	Delich	Private Citizen	5/8/2014	Mail
Robert and Janet	Delich	Private Citizen	5/7/2014	Mail
Brad	Dokken	Private Citizen	8/12/2014	Mail
Brad	Dokken	Private Citizen	8/15/2014	Public Scoping Meeting
John	Dunn	Private Citizen	8/14/2014	Email
Mark	Elton	Private Citizen	8/15/2014	Public Scoping Meeting
Marlin	Elton	Private Citizen	8/15/2014	Mail
Marlin	Elton	Private Citizen	8/15/2014	Public Scoping Meeting
Marlin	Elton	Private Citizen	8/15/2014	Email
Curtis	Erickson	Private Citizen	5/2/2014	Email
Byron	Fiedler	Private Citizen	7/17/2014	Oral - Littlefork July 17, 11:00 am
Nick	Francisco	Private Citizen	7/16/2014	Public Scoping Meeting
Jerry	Freaks	Private Citizen	5/14/2014	Email
Brian	Fredrickson	Private Citizen	7/27/2014	Email
Brian	Fredrickson	Private Citizen	7/28/2014	Website
William	Gary	Private Citizen	7/17/2014	Oral - Littlefork July 17, 11:00 am
Carl	Gibson	Bear Lake Cabin Owners Association	8/12/2014	Email
Cora	Gray	Private Citizen	8/15/2014	Email
Ron	Gustafson	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
LeRoy	Hagrlle	Private Citizen	5/19/2014	Mail
Dave	Hancock	Private Citizen	8/15/2014	Public Scoping Meeting
Mike	Hanson	Northstar Electric	7/17/2014	Oral - Littlefork July 17, 11:00 am
Darin	Heller	Private Citizen	5/30/2014	Website
Darin	Heller	Private Citizen	8/13/2014	Email
Darin	Heller	Private Citizen	7/16/2014	Oral - Roseau July 16, 11:00 am
D	Hosel	Private Citizen	5/27/2014	Mail
James	Johnson	Private Citizen	4/27/2014	Email

Stakeholder Name and Affiliation			Comment Date and Source	
First Name	Last Name	Affiliation	Date	Received Via
James	Johnson	Private Citizen	8/15/2014	Email
James	Johnson	Private Citizen	4/27/2014	Email
Jeff	Johnson	Private Citizen	8/15/2014	Website
Jeff	Johnson	Private Citizen	5/15/2014	Email
Cavour	Johnson	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Cavour	Johnson	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Patrick	Kvien	Private Citizen	8/12/2014	Website
David	Leonhardt	Private Citizen	7/16/2014	Public Scoping Meeting
Richard	Libbey	Private Citizen	4/15/2014	Email
Richard	Libbey	Private Citizen	8/14/2014	Email
Richard	Libbey	Private Citizen	8/15/2014	Email
Richard	Libbey	Private Citizen	8/15/2014	Email
Richard	Libbey	Private Citizen	8/15/2014	Email
Richard	Libbey	Private Citizen	5/15/2014	Email
Richard	Libbey	Private Citizen	5/15/2014	Email
Richard	Libbey	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Richard	Libbey	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Richard	Libbey	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Richard	Libbey	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 6:00 pm
Larry	Lindholm	RGGGS Land & Minerals Ltd. L.P.	5/19/2014	Email
Lindner		Private Citizen	10/15/2014	CON Hearing – Grand Rapids October 15
Mark	Lofgren	Private Citizen	5/6/2014	Mail
Mark	Lofgren	Private Citizen	5/29/2014	Mail
Mark	Lofgren	Private Citizen	7/28/2014	Mail
Mark and Colleen	Lofgren	Private Citizen	7/3/2014	Public Scoping Meeting
Mark	Lofgren	Private Citizen	7/23/2014	Oral - Bigfork July 23, 6:00 pm
Mark and Beth	Mandich	Private Citizen	6/3/2014	Mail
Joel	Mattfield	Private Citizen	5/4/2014	Email
Meloy	Mattfield	Private Citizen	5/21/2014	Mail
Meloy	Mattfield	Private Citizen	8/7/2014	Mail
Meloy	Mattfield	Private Citizen	5/12/2014	Mail
Meloy	Mattfield	Private Citizen	4/12/2014	Mail
Norman	Mattfield	Private Citizen	5/13/2014	Mail

Stakeholder Name and Affiliation			Comment Date and Source	
First Name	Last Name	Affiliation	Date	Received Via
Meloy	Mattfield	Private Citizen	7/23/2014	Oral - Bigfork July 23, 6:00 pm
Meloy	Mattfield	Private Citizen	7/23/2014	Oral - Bigfork July 23, 6:00 pm
Warren	McQuay	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 6:00 pm
Gary and Jeanne	Messiner	Private Citizen		Email
Multiple Landowners	Multiple Landowners	Private Citizens, landowners	8/15/2014	Public Scoping Meeting
Richard	Myers	Private Citizen	8/10/2014	Mail
Richard	Myers	Private Citizen	5/27/2014, 5/6/2014, 5/4/2014	Mail
Dick	Myers	Private Citizen	7/16/2014	Oral - Baudette July 16, 6:00 pm
Steve	Nelson	Private Citizen	7/17/2014	Public Scoping Meeting
Steve	Nelson	Private Citizen	7/17/2014	Oral - International Falls July 17, 6:00 pm
Bob	Nick	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Brent	Ostlund	Private Citizen	7/16/2014	Public Scoping Meeting
Brent	Ostlund	Private Citizen	7/16/2014	Public Scoping Meeting
Brent	Ostlund	Private Citizen	7/16/2014	Public Scoping Meeting
Brent and Orin	Ostlund	Private Citizen	6/25/2014	Mail
Brent and Orin	Ostlund	Private Citizen	5/12/2014	Mail
Brent	Ostlund	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 6:00 pm
Carol	Overland	RRANT Representative	7/23/2014	Public Scoping Meeting
Carol	Overland	RRANT Representative	8/15/2014	Mail
Carol	Overland	Private Citizen	7/23/2014	Oral - Bigfork July 23, 6:00 pm
Carol	Overland	Private Citizen	7/23/2014	Oral - Bigfork July 23, 6:00 pm
Carol	Overland	RRANT Representative	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Carol	Overland	RRANT Representative	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Robert	Oveson	Private Citizen	8/9/2014	Website
Robert	Oveson	Private Citizen	8/9/2014	Email
Robert	Oveson	Private Citizen	7/17/2014	Oral - Littlefork July 17, 11:00 am
Robert	Oveson	Private Citizen	7/17/2014	Oral - Littlefork July 17, 11:00 am
Lyle	Pearson	Private Citizen		Email
Beth	Pederson	Private Citizen	5/15/2014	Email

Stakeholder Name and Affiliation			Comment Date and Source	
First Name	Last Name	Affiliation	Date	Received Via
Candace	Perry	Private Citizen	5/16/2014	Mail
Patrick	Perry	Private Citizen	5/16/2014	Mail
Don	Peterson	Private Citizen	8/15/2014	Email
Kevin	Peterson	Private Citizen	7/16/2014	Mail
Kevin	Peterson	Private Citizen	8/11/2014	Mail
Kevin	Peterson	Private Citizen	7/17/2014	Oral - International Falls July 17, 6:00 pm
Roy	Procopio	Private Citizen	8/15/2014	Public Scoping Meeting
Roy	Procopio	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 6:00 pm
Brian	Rice	Private Citizen	8/15/2014	Public Scoping Meeting
Gregg	Rice	Private Citizen	7/27/2014	Email
Kirby	Rice	Private Citizen	8/12/2014	Website
Sheldon	Rice	Private Citizen	8/15/2014	Website
Steven	Rice	Private Citizen	5/2/2014	Email
Stuart	Rice	Private Citizen	7/22/2014	Website
Stuart	Rice	Private Citizen	7/31/2014	Website
Stuart	Rice	Private Citizen	8/15/2014	Public Scoping Meeting
Stuart	Rice	Private Citizen	8/12/2014	Website
Randy	Robb	Private Citizen	8/15/2014	Public Scoping Meeting
Dave	Roerick	Private Citizen	8/15/2014	Public Scoping Meeting
Dave	Roerick	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Larry	Rukevina	Private Citizen	5/22/2014	Mail
Jamie	Schrenzel	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 6:00 pm
Sally	Sedgwick	Private Citizen	7/23/2014	Public Scoping Meeting
Dean	Sedgwick	Private Citizen	7/23/2014	Oral - Bigfork July 23, 6:00 pm
Sally	Sedgwick	Private Citizen	7/23/2014	Oral - Bigfork July 23, 6:00 pm
Dean	Sedgwick	Private Citizen	7/23/2014	Oral - Bigfork July 23, 6:00 pm
Carol	Seisland	Private Citizen	7/22/2014	Public Scoping Meeting
Warren	Stoe	Private Citizen	5/29/2014	Email
Strand	Dan and Elizabeth	Private Citizen	10/15/2014	CON Hearing – Grand Rapids October 15
Strand	Dan and Elizabeth	Private Citizen	11/4/2014	Mail
Steve	Takaichi	Private Citizen	7/22/2014	Email
Harvey	Wahlquist	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Mark	Walsh	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am

Stakeholder Name and Affiliation			Comment Date and Source	
First Name	Last Name	Affiliation	Date	Received Via
Bob	Walsh	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Robert	Ward	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 6:00 pm
Roger	Webber	Private Citizen	7/23/2014	Oral - Bigfork July 23, 6:00 pm
Roger	Webber	Private Citizen	7/23/2014	Oral - Bigfork July 23, 6:00 pm
Roger and MaryJo	Weber	Private Citizen	8/16/2014	Mail
Darrell and Delores	White	Private Citizen	7/30/2014	Mail
Delores	White	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Darrell	White	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Darrell	White	Private Citizen	7/24/2014	Oral - Grand Rapids July 24, 11:00 am
Tim	Williamson	Private Citizen	7/23/2014	Oral - Kelliher July 23, 11:00 am
Richard	Yuenger	Private Citizen	5/17/2014	Email
William	Yuenger	Private Citizen	7/23/2014	Oral - Bigfork July 23, 6:00 pm

2.1 Alternative Route Segments/Alignment Modifications Proposed during Scoping

The alternative route segments and alignment modifications proposed during scoping are identified in Figure 2-1. These alternative segments and modifications were developed by reviewing comments received during the scoping process. In some areas, multiple commenters suggested avoiding the same issue (e.g., residential areas or protected natural areas) or one modification mitigated several issues raised by commenters (e.g., sensitive lands, houses, following existing corridors). Detailed figures showing the requested alternative route segments and alignment modifications that were developed from the scoping comments for analysis in the EIS are provided in Appendix F.

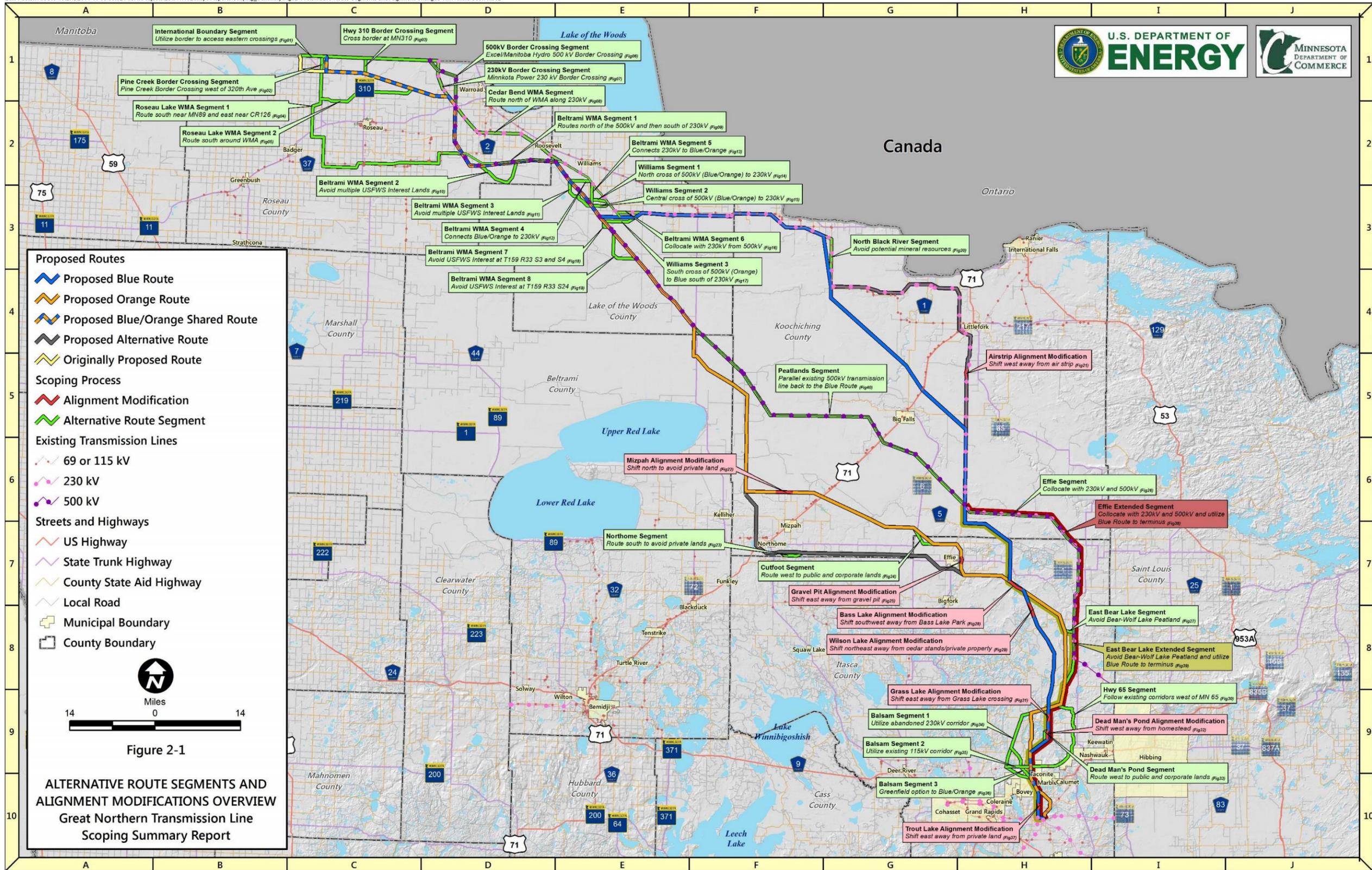


Figure 2-1 Summary of Requested Alternative Route Segments and Alignment Modifications

Appendix D

DOC-EERA Scoping Decision



In the Matter of the HVTL Route Permit Application by Minnesota Power for the Great Northern Transmission Line Project and Associated Facilities in Roseau, Lake of the Woods, Beltrami, Koochiching and Itasca Counties, Minnesota

**ENVIRONMENTAL IMPACT STATEMENT
SCOPING DECISION**

PUC DOCKET NO. E015/TL-14-21

The above matter has come before the deputy commissioner of the Department of Commerce (Department) for a decision on the scope of the environmental impact statement (EIS) to be prepared for the Great Northern Transmission Line (GNTL) project proposed by Minnesota Power (MP) in Roseau, Lake of the Woods, Beltrami, Koochiching and Itasca counties, Minnesota.

Project Description

Minnesota Power (Applicant or MP), in partnership with Manitoba Hydro, proposes to construct a high voltage transmission line (HVTL) from the International border that would terminate at the Blackberry Substation in Itasca County.

The GNTL project includes the construction of a new 500 kV transmission line in Minnesota from the United States/Canadian border to the Minnesota Power Blackberry Substation near Grand Rapids, Minnesota. The 500 kV Line will be approximately 235-270 miles in length, subject to final route approval by the Commission, and will be constructed on a 200 foot wide right-of-way (ROW). The line will provide 883 megawatts (MW) of transfer capability.

Minnesota Power is requesting a route width that is 1,000 to 3,000 feet wide, with structures typically ranging in heights from approximately 100 feet to 150 feet above ground. The Applicant currently estimates between 4 to 5 structures per mile of transmission line. A variety of structure types (self-supporting suspension, guyed delta suspension, and guyed-V suspension) may be used along the route.

Minnesota Power anticipates that construction on the project will begin in the fall of 2016, with an in-service date of mid-year 2020.

Project Purpose

As stated by the Applicant, the primary objective of the GNTL project is to provide increased access to Manitoba hydropower. Additionally, MP states that the project facilitates an innovative wind storage provision in the power purchase agreement (PPA) that leverages the flexible and responsive nature of hydropower to optimize the value of MP's significant wind energy investments and compliments MP's EnergyForward resource strategy.

The GNTL project would provide delivery and access to power generated by Manitoba Hydro's hydroelectric stations in Manitoba, Canada. Minnesota Power, states in its certificate of need (CN) application, that the project is required to facilitate delivery of the combined 383 megawatts (MW) (250 MW PPA and the 133 MW Renewable Optimization Agreement) of hydropower and wind storage energy products to serve Minnesota Power, as well as additional hydropower to other utilities in the United States, thereby meeting future state and regional energy needs. Minnesota Power further states that while large hydropower transfers like this do not satisfy the current renewable energy mandates in Minnesota, such a hydropower transfer could support compliance with renewable energy requirements for utilities in Wisconsin and other states.

Regulatory Background

In Minnesota, no person may construct a high voltage transmission line (HVTL) without a route permit from the Minnesota Public Utilities Commission (Commission) (Minnesota Statute 216E.03). A high voltage transmission line is defined as a conductor of electric energy designed for and capable of operation at a voltage of 100 kV or more and greater than 1,500 feet in length (Minnesota Statute 216E.01). The proposed project will consist of approximately 220 miles of new 500 kV transmission line and therefore requires a route permit from the Commission.

Route permit applications are subject to environmental review conducted by Department of Commerce, Energy Environmental Review and Analysis (DOC-EERA) staff. Projects proceeding under the full permitting process require the preparation of an environmental impact statement (EIS) (Minnesota Statute 216E.03, Subd. 5). Public information and scoping meetings are held to solicit comments on the scope of the EIS. The Department of Commerce (Department) determines the scope of the EIS.¹ The Department may include alternative sites or routes suggested by the public in the scope of the EIS if such alternatives will aid in the Commission's decision on the route permit application (Minnesota Rule 7850.2500). The Department must include those site or routes "the Commission deems necessary that [were] proposed in a manner consistent with rules concerning the form, content, and timeliness of proposals for alternate site or routes."²

State (Department) and Federal (DOE) Joint Environmental Review

The Department of Energy (DOE) is the lead federal agency for the GNTL project. Pursuant to Executive Order (EO) 10485 of 1953, as amended by EO 12038, and 10 Code of Federal Regulations (CFR) Section 205.320, a Presidential Permit is required for the GNTL project because it will cross the international boundary between Minnesota and Manitoba, Canada.

Since the GNTL project constitutes a Major Federal Action, the DOE must consider the environmental effects of the project, and reasonable alternatives to the project, pursuant to the National Environmental Policy Act (NEPA). An Environmental Impact Statement (EIS) must be prepared to comply with NEPA and DOE's NEPA implementing regulations, 10 CFR Part 1021.

DOE and the Department intend to jointly develop one EIS that meets both agencies' environmental review requirements to minimize duplication of effort.

¹ Minnesota Rule 7850.2500, Subp. 2.

² Minnesota Statute 216E.03, Subd. 5.

Scoping Process

Commission staff and DOC-EERA staff, along with the DOE, held eight joint public information and environmental impact statement scoping meetings between July 16 and 24, 2014, across the study area.

The meetings provided the public with the opportunity to learn more about the proposed project, to provide comments on potential environmental issues associated with the project and to put forth alternative routes for consideration. A total of 46 people gave oral comments at the meetings, and their comments were transcribed by a court stenographer.³

A comment period, ending on August 15, 2014, provided the public an opportunity to submit comments to DOC-EERA/DOE staff on issues and route alternatives for consideration in the scope of the EIS. DOC-EERA and DOE received scoping comments in the form of 122 written letters, emails or website submittals from private citizens, government agencies, and nongovernmental organizations. Written public comment letters can be found in eDockets (docket No. 14-21 – Public Comments), the DOC web-site (<http://mn.gov/commerce/energyfacilities/Docket.html?Id=33847>) and are also contained in whole and abridged in the *Scoping Summary Report*.⁴

The *Scoping Summary Report* describes the public scoping process for the EIS that the DOE (DOE/EIS-0499) and DOC-EERA are preparing for the GNTL project. The purpose of the *Scoping Summary Report* is to describe the scoping process; the report contains information on the manner of public notification, venues, dates and times in which the scoping meetings were held, comments received, information on the Workgroup efforts, and requested alternative route segments/alignment modifications. The *Scoping Summary Report* was released on November 13, 2014.

There were 33 alternative route segment (including five border crossing alternatives) and nine alignment modification requests received through the scoping process.

Commission Review

On December 5, 2014, EERA staff provided the Commission with a summary of the EIS scoping process.⁵ The summary discussed the route and alignment alternatives that were proposed during the scoping process and those alternatives that the DOC-EERA intended to carry forward for inclusion in the scope of the EIS. On January 6, 2015, the Commission considered what action, if any, it should take with respect to the route alternatives to be considered in the EIS.

The Commission took no action.

³ Oral Comments from Public Information and EIS Scoping Meetings, July 16-24, 2014, eDockets Number 20148-102461-01 to 20148-102461-07, [hereinafter Oral Comments].

⁴ Scoping Summary Report, November, 2014. eDockets Numbers: 201411-104621-01 to 10, 104622-01 to 09, 104623-01 to 10, 104624-01 to 08, 104625-01 to 07, and 104625-01 to 03.

⁵ Department of Commerce, Comments and Recommendations on EIS Scoping Process, December 5, 2014, eDockets Number 201412-105219-01.

HAVING REVIEWED THE MATTER, consulted with DOC-EERA staff, and in accordance with Minnesota Rule 7850.2500, I hereby make the following scoping decision:

MATTERS TO BE ADDRESSED

The issues outlined below will be analyzed in the EIS for the proposed Great Northern Transmission Line project. The EIS will describe the project and the human and environmental resources of the project area. It will provide information on the potential impacts of the project as they relate to the topics outlined in this scoping decision, including possible mitigation measures. It will identify impacts that cannot be avoided and irretrievable commitments of resources, as well as permits from other government entities that may be required for the project. The EIS will discuss the relative merits of the route alternatives studied in the EIS using the routing factors found in Minnesota Rule 7850.4100.

I. GENERAL DESCRIPTION OF THE PROJECT

- A. Project Description
- B. Project Purpose
- C. Route Description
 - 1. Route Width
 - 2. Right-of-Way
- D. Substation/Compensation Station Description
- E. Project Costs
 - Construction, Operation and Maintenance

II. REGULATORY FRAMEWORK

- A. Certificate of Need
- B. High Voltage Transmission Line Route Permit
 - Buy the Farm Provisions
- C. Environmental Review Process

III. ENGINEERING AND DESIGN

- A. Transmission Line Structures
- B. Transmission Line Conductors
- C. Substations/Compensation Station

IV. CONSTRUCTION

- A. Right-of-Way Acquisition
- B. Construction
 - 1. Transmission Line
 - 2. Substation/Compensation Station
- C. Restoration
- D. Damage Compensation
- E. Operation and Maintenance
 - Danger trees determination
 - Vegetation management
- F. Decommissioning

V. AFFECTED ENVIRONMENT, POTENTIAL IMPACTS, AND MITIGATIVE MEASURES

The EIS will include a discussion of the human and environmental resources potentially impacted by the proposed project and the route and alignment alternatives described herein (Section VI). Potential impacts, both positive and negative, of the project and each alternative will be described. Based on the impacts identified, the EIS will describe mitigation measures that could reasonably be implemented to reduce or eliminate the identified impacts. The EIS will describe any unavoidable impacts resulting from implementation of the proposed project.

- A. Environmental Setting
- B. Socioeconomics
 - Environmental Justice
- C. Human Settlements
 - 1. Noise
 - Blackberry Substation
 - 2. Aesthetics
 - Big Bog State Recreation Area
 - Itasca County Bass Lake Park
 - 3. Displacement
 - Eminent Domain
 - Balsam Bible Chapel expansion
 - 4. Property Values
 - 5. Public Services
 - a) Roads and Highways
 - MnDOT's Utility Accommodation Policy
 - b) Airports
 - c) Utilities
 - ROW Sharing/paralleling
 - d) Emergency Services
 - 6. Electronic Interference
 - a) Radio
 - b) Television
 - c) Wireless Phone/Internet Services
- D. Public Health and Safety
 - 1. Electric and Magnetic Fields
 - 2. Implantable Medical Devices
 - Cardiac Pacemakers
 - 3. Stray Voltage
 - 4. Induced Voltage
- E. Land Based Economies
 - 1. Agriculture
 - a) Compaction
 - b) Tile Damage
 - c) Aerial Spraying
 - d) GPS Systems / Real Time Kinetic Systems
 - e) Structure Foundations Obstruction

- f) Livestock (including wood bison)
- g) Crop production (including organic)
- 2. Forestry
 - Harvestable Product within ROW
- 3. Mining
 - Current and Future
- 4. Recreation and Tourism
 - Snowmobile and ATV Trails
- F. Archaeological and Historic Resources
 - Conservation Corps Camp 53
- G. Natural Environment
 - 1. Air Quality
 - Green House Gas
 - 2. Water Resources
 - a) Surface Waters and Floodplains
 - b) Groundwater
 - Wellhead Protection Areas
 - c) Wetlands
 - Type Conversion
 - 3. Soils
 - Peatland Soils
 - 4. Flora
 - Invasive Species
 - Habitat Fragmentation
 - 5. Fauna
- H. Threatened / Endangered / Rare and Unique Natural Resources
- I. Zoning and Land Use Compatibility
 - Use of Existing Rights-of-Way
- J. Cumulative Effects
- K. Adverse Impacts that Cannot be Avoided
- L. Irreversible and Irretrievable Commitments of Resources

The above outline is not intended to serve as a “Table of Contents” for the EIS document, and as such, the organization of the information and data may not be similar to that appearing in the EIS.

VI. ROUTES AND SITES TO BE EVALUATED IN THE ENVIRONMENTAL IMPACT STATEMENT

The EIS will evaluate the routes and associated facilities proposed in Minnesota Power’s HVTL route permit application – aka the Blue Route (including C-1 and C-2) and the Orange Route (including J-1 and J-2).

In addition, the following alternative route segments and alignment modifications will be evaluated in the EIS (see description below and attached maps). Alternatives are presented here in a north-to-south fashion – from the border crossing in Roseau County to the terminus at the Blackberry Substation in Itasca County.

Pine Creek Border Crossing Alternative Route Segment (Figure 1). This alternative crosses the border just west of Piney Creek, with the alternative route paralleling 320th Avenue as it runs south along the quarter-sections of Sections 27 and 34 in T164N, Range 41W and continuing through Section 3 of T163N, Range 41W where it joins Minnesota Power's proposed route.

Hwy 310 Border Crossing Alternative Route Segment (Figure 2). This alternative crosses the border east of the Sprague Creek Peatland SNA and follows State Highway 310 until it joins Minnesota Power's proposed route.

500kV Border Crossing Alternative Route Segment (Figure 3). The 500 kV Border Crossing follows the existing 500 kV transmission line from the international border until it joins Minnesota Power's proposed route.

230kV Border Crossing Alternative Route Segment (Figure 4). This alternative follows the existing 230 kV transmission line from the international border until it joins Minnesota Power's proposed route.

Roseau Lake WMA Alternative Route Segment 1 (Figure 5). This alternative follows MN-89 south, crosses MN-11, stair-steps its way south to CR-126, then continues north and east to join Minnesota Power's proposed route.

Roseau Lake WMA Alternative Route Segment 2 (Figure 6). This proposal follows MN-89 south, and then continues east on the south side of the Roseau Lake WMA to 360th Street, and east to the intersection with Minnesota Power's proposed route.

Cedar Bend WMA Alternative Route Segment (Figure 7). This alternative follows the existing 230 kV transmission line from where it intersects Minnesota Power's proposed route, and then turns southeast to continue along the existing 230kV transmission line.

Beltrami WMA Alternative Route Segment 1 North (Figure 8). This alternative crosses the existing 500 kV transmission line south of CSAH 2 and angles to the southeast but north of USFWS parcels. The alternative then follows the north side of the existing 500 kV transmission line (Minnesota Power's proposed route) until the existing 500 kV line turns to the southeast where it connects with Beltrami WMA Alternative Route Segment 1 South, described below.

Beltrami WMA Alternative Route Segment 1 South (Figure 9). This alternative extends from Beltrami WMA Alternative Route Segment 1 North where the existing 500 kV line turns to the southeast. From this point, the alternative crosses to the south side of the existing 230 kV transmission line and continues southeast to join Minnesota Power's proposed Blue Route and thereby passes to the east of USFWS parcels.

Beltrami WMA Alternative Route Segment 2 (Figure 10). This alternative diverges from Minnesota Power's proposed route that parallels the existing 500kV transmission line, goes south around USFWS parcels, then goes north to join Minnesota Power's proposed route.

Beltrami WMA Alternative Route Segment 3 (Figure 11). This alternative diverges from Minnesota Power's proposed route that parallels the existing 500 kV transmission line, goes south and east around USFWS parcels, and then joins with Minnesota Power's proposed route.

Beltrami WMA Alternative Route Segment 4 (Figure 12). This alternative diverges east from Minnesota Power's proposed route that parallels the existing 500 kV transmission line north the USFWS parcels, and connects with the Beltrami WMA Alternative Route Segment 1 on the south side of the existing 230 kV transmission line.

Beltrami WMA Alternative Route Segment 5 (Figure 13). This alternative connects Beltrami WMA Alternative Route Segments 1 and 4, which parallel the existing 230 kV transmission line, south to join Minnesota Power's proposed Blue/Orange route. This alternative retains the viability of Minnesota Power's proposed Orange Route if Beltrami WMA Alternative Route Segments 1 or 4 are selected.

Beltrami WMA Alternative Route Segment 7 (Figure 14). This alternative diverges from the proposed route to create an "L" shape around a USFWS parcel to avoid it.

Beltrami WMA Alternative Route Segment 8 (Figure 15). This alternative diverges from the proposed route to create an "L" shape around three USFWS parcels to avoid them.

Silver Creek WMA Alignment Modification (Figure 16). The modification shifts the anticipated alignment approximately 150 feet south from Minnesota Power's proposed route, creating a new ROW corridor that is separate from the existing 230 kV transmission line ROW corridor.

North Black River Alternative Route Segment (Figure 17). This alternative diverges from Minnesota Power's proposed route and continues along the existing 230 kV transmission line north and east before it joins Minnesota Power's proposed route further east.

Airstrip Alignment Modification (Figure 18). This modification is located approximately 725 feet west of Minnesota Power's proposed C2 Route Alternative. This modification increases the distance between the private airstrip and the anticipated centerline of Minnesota Power's proposed Route Alternative C2.

Mizpah Alignment Modification (Figure 19). This modification shifts the anticipated alignment further to the north from Minnesota Power's proposed route to limit ROW impacts to public lands.

Northome Alternative Route Segment (Figure 20). This alternative moves the route approximately 3,000 feet south from Minnesota Power's proposed alignment and away from the proponent's private property and from USFWS FmHA parcels.

Cutfoot Alternative Route Segment (Figure 21). This alternative moves the route to the southwest from Minnesota Power's proposed route and shifts impacts from private land onto state, county, and corporate lands.

Gravel Pit Alignment Modification (Figure 22). This modification moves the alignment approximately 750 feet to the east of Minnesota Power's proposed alignment. The move places the entire ROW onto public and corporate lands and away from the proponent's gravel pit operation.

Effie Alternative Route Segment (Figure 23a and 23b). This alternative diverges from Minnesota Power's proposed blue route, parallels the existing 230 kV and 500 kV transmission lines located east of Minnesota Power's proposed routes, and joins Minnesota Power's proposed Orange Route.

Bass Lake Alignment Modification (Figure 24). This modification moves Minnesota Power's proposed alignment approximately 750 feet southwest.

Wilson Lake Alignment Modification (Figure 25). This modification moves Minnesota Power's proposed alignment approximately 500 feet to the east.

East Bear Lake Alternative Route Segment (Figure 26). This alternative diverges from Minnesota Power's proposed route, follows the existing 230kV and 500kV transmission line for approximately 4 miles, and then joins Minnesota Power's proposed route.

Grass Lake Alignment Modification (Figure 27). The modification moves Minnesota Power's proposed alignment approximately 900 feet east onto public and corporate lands, while splitting the distance between private residences on Grass and Bray Lakes.

Dead Man's Pond Alignment Modification (Figure 28). This modification moves Minnesota Power's proposed alignment approximately 1,000 feet west across Dead Man's Pond and undeveloped land.

Dead Man's Pond Alternative Route Segment (Figure 29). This alternative moves Minnesota Power's proposed route west of Dead Man's Pond onto public and corporate land and away from the proponent's private property.

Balsam Alternative Route Segment 1 (Figure 30). This alternative diverges from Minnesota Power's proposed Yellow Route to follow the abandoned Minnesota Power 230 kV transmission line, then joins Minnesota Power's proposed Blue/Yellow Route.

Trout Lake Alignment Modification (Figure 31). This modification moves Minnesota Power's proposed alignment further east onto corporate land.

VII. IDENTIFICATION OF PERMITS

The EIS will include a list and description of permits from other government entities that may be required for the proposed project.

ISSUES OUTSIDE THE SCOPE OF THE ENVIRONMENTAL IMPACT STATEMENT

The EIS for the GNTL project will not consider the following:

- A. Any route alternative not specifically identified for study in this scoping decision.
- B. Policy issues concerning whether utilities or local governments should be liable for the cost to relocate utility poles when roadways are widened.
- C. The manner in which land owners are paid for transmission line right-of-way easements.
- D. Issues/impacts associated with the development and construction of those components of the project that are occurring within the Canadian jurisdiction and subject to the environmental review procedures of the provincial government.
- E. Of the 33 alternative route segments proposed during the scoping process 11 will not be included for further study in the EIS, they are:
 - International Boundary Alternative Route Segment (Scoping Summary Report, Appendix F, Figure 1)
 - Williams Alternative Route Segment 1 (Scoping Summary Report, Appendix F, Figure 14)
 - Williams Alternative Route Segment 2 (Scoping Summary Report, Appendix F, Figure 15)
 - Beltrami WMA Alternative Route Segment 6 (Scoping Summary Report, Appendix F, Figure 16)
 - Williams Alternative Route Segment 3 (Scoping Summary Report, Appendix F, Figure 17)
 - Highway 65 Alternative Route Segment (Scoping Summary Report, Appendix F, Figure 30)
 - Balsam Alternative Route Segment 2 (Scoping Summary Report, Appendix F, Figure 35)
 - Balsam Alternative Route Segment 3 (Scoping Summary Report, Appendix F, Figure 36)
 - East Bear Lake Extended Alternative Route Segment (Scoping Summary Report, Appendix F, Figures 39a/39b)
 - Effie Extended Alternative Route Segment (Scoping Summary Report, Appendix F, Figures 39a/38b)
 - Peatlands Alternative Route Segment (Scoping Summary Report, Appendix F, Figures 40a/40b)

SCHEDULE

The draft EIS is anticipated to be completed and available in June 2015. Public meetings and a comment period on the draft EIS will follow. Timely and substantive comments on the draft EIS will be responded to in a final EIS. Public hearings will be held in the project area after issuance of the draft EIS and are anticipated to occur in July 2015.

Signed this 8th day of January, 2015

STATE OF MINNESOTA
DEPARTMENT OF COMMERCE



William Grant, Deputy Commissioner

Appendix E

Route Analysis Data Tables

Sources:

Minnesota Power 2014 Reference 1	Minnesota Power 2014 Reference 2	Minnesota Power 2014 Reference 3		
Roseau County 2015 Reference 4	Minnesota Power 2014 Reference 5	Minnesota Power 2014 Reference 6	Minnesota DH 2003 Reference 7	Minnesota Power 2014 Reference 8
USDOT 2014 Reference 9	Minnesota Power 2014 Reference 10	SHPO 2014 Reference 11	SHPO 2014 Reference 12	SHPO 2005 Reference 13
Minnesota Power 2014 Reference 14	Minnesota Power 2014 Reference 15	MnDOT 2003 Reference 16	MnDOT 2003 Reference 17	MnDNR 2014 Reference 18
MnDNR 2012 Reference 19	MnDOT 2012 Reference 20	MnDNR 2014 Reference 21	Minnesota Power 2014 Reference 22	MPCA 2013 Reference 23
MPCA 2013 Reference 24	USGS 2014 Reference 25	USGS 2014 Reference 26	MnDNR 2008 Reference 27	MnDNR 2008 Reference 28
MnDNR 2008 Reference 29	MnDNR 2002 Reference 30	MnDNR 2004 Reference 31	USFWS 1997 Reference 32	MnDNR 2010 Reference 33
MnDNR 2009 Reference 34	MnDNR 2009 Reference 35	MnDNR 2009 Reference 36	MnDNR 2000 Reference 37	MnDNR 2006 Reference 38
MnDNR 2003 Reference 39	MnDNR 2003 Reference 40	MnDNR 2002 Reference 43	MnDNR 2003 Reference 44	MnDNR 2008 Reference 45
USDOT 2014 Reference 46	MnDOT 2013 Reference 47	MnDNR 2010 Reference 48	MnDNR 2003 Reference 49	MnDNR 2012 Reference 50
MnDNR 2010 Reference 51	BWSR 2003 Reference 52	MnDNR 2010 Reference 53	MnDNR 1999 Reference 54	MBS 1998 Reference 55
MBS 2015 Reference 56	MBS 2014 Reference 57	MnDNR 2003 Reference 58	MnDNR 1905 Reference 59	MnDNR 2014 Reference 60
MnDNR 2008 Reference 61	MnDNR 2014 Reference 62	MnDNR 2008 Reference 63	USFWS 2011 Reference 64	USFWS 2011 Reference 65
MnDNR 2007 Reference 66	MnDNR 2008 Reference 67	MnDNR 2014 Reference 68	MnDNR 2014 Reference 69	MnDNR 1984 Reference 70
MnDNR Reference 71	MnDNR Reference 72	University of Minnesota 2003 Reference 73	MPCA 2014 Reference 74	MPCA 2010 Reference 75
MGS 2014 Reference 76	MnDNR 2006 Reference 77	MnDNR 2003 Reference 78	MnDNR 2010 Reference 79	MnDNR 2009 Reference 80
USFWS 2014 Reference 81	USFWS 2014 Reference 82	USFWS 2014 Reference 83	USFWS 2014 Reference 84	USFWS/Partner's In Flight 2004 Reference 85
Audubon Society 2014 Reference 86	MnDNR 2014 Reference 87	USGS 2001 Reference 88	USDA NRCS 2014 Reference 89	USDA NRCS 2014 Reference 90
US BLM Reference 91	MPCA 2013 Reference 92	MPCA 2013 Reference 93	NFS 2014 Reference 94	NPS 2014 Reference 95
MN DOC 2014 Reference 96	MNDOT 2010 Reference 97	MnDNR 2010 Reference 98	MnDNR 2009 Reference 99	USDA, FSA, APFO 2013 Reference 100
MnDNR et al 2014 Reference 101	MnDNR et al 2013 Reference 102	MnDNR 2013 Reference 103	MnDNR et al 2009 Reference 104	USFWS 2015 Reference 105

Notes:

Items containing the color shown to the left are datasets that were analyzed in GIS and had no features located within the buffers.

The following datasets were analyzed in GIS and had no features for any variation area located within 0-1,500 ft; they have been omitted from the appendix table: Schools (Public & Private, > Kindergarten), Daycares/Child-care centers/Pre-schools, Hospitals, Nursing Homes, Airport/Heliport Locations, MPCA Impaired Lakes, MnDNR Trout Lakes, MnDNR Wildlife Lakes, State Park Trails, State Forest Camp Grounds, State Parks, US NPS National Parks, BWSR Reinvest in Minnesota Conservation Easements, MBS Railroad Right-of-Way Prairies, USFWS Waterfowl Production Areas, State Aquatic Management Ares, State Game Refuges, State Migratory Fowl Feeding and Resting Areas, and USFWS National Wildlife Refuges.

Footnotes:

- (1) Impact numbers within datasets cannot be added together for variations or proposed routes in different variation areas to calculate an accurate total. Any totals developed using this method have the potential to be inaccurate due to rounding and/or shared areas that would not be accounted for when using simple addition. There were some datasets that were analyzed in GIS and there were no features from these datasets located within the 1,500 ft buffer including: Schools (Public & Private, > Kindergarten), Daycares/Child-care centers/Pre-schools, Hospitals, Nursing Homes, Airport/Heliport Locations, MPCA Impaired Lakes, MnDNR Trout Lakes, MnDNR Wildlife Lakes, State Park Trails, State Forest Camp Grounds, State Parks, US NPS National Parks, BWSR Reinvest in Minnesota Conservation Easements, MBS Railroad Right-of-Way Prairies, USFWS Waterfowl Production Areas, State Aquatic Management Ares, State Game Refuges, State Migratory Fowl Feeding and Resting Areas, and USFWS National Wildlife Refuges.
- (2) The buffer distances includes both sides of the anticipated alignment. For example, count with a buffer of 100 ft includes 100 ft on each side of the anticipated alignment. Buffer distances are cumulative. For example, impacts accrued within the 100 ft buffer are also included within the 1,500 ft buffer. For this EIS, the 100 ft buffer is the equivalent of the ROW. The 1,500 ft buffer represents the route width used for the GIS analysis in this EIS. The Presidential permit and Route Permit applications use a route width that ranges from 1,500 feet to 3,000 feet.
- (3) The MnDNR's State Fee Lands dataset represents state land ownership using public land survey quarter-quarter sections as the smallest unit. In some cases multiple state lands are within a single quarter-quarter section are then represented in the data through duplicate features. Therefore the analysis results presented may be over-representing the potential impacts.
- (4) Palustrine emergent wetland (PEM), palustrine shrub wetland (PSS), palustrine forested wetland (PFO), palustrine unconsolidated bottom pond (PUB).
- (5) Mapping of MBS Sites of Biodiversity Significance has been completed for Roseau County, mapping is only preliminary in the other counties across the proposed Project.
- (6) ND means No Data or indicates that data were not available.
- (7) MBS Native Plant Communities data only available for Roseau County
- (8) Percent of Total Length was calculated by rounding and any values less than 0.5 were rounded to zero, this may result in a total of slightly more or less than 100 percent. Also, Percent of Total Length cannot be added together for variations or proposed routes in different variation areas to calculate an accurate total. Any totals developed using this method have the potential to be inaccurate due to rounding and/or shared areas that would not be accounted for when using simple addition.
- (9) Canada lynx and gray wolf records are not documented in the NHIS database.

	Dataset ⁽¹⁾	Base Length	State Mineral Leases		State Fee Lands ⁽³⁾		State Fee Lands by Type ⁽³⁾							County Lands		FEMA Floodplains				
	Type	--	--		--		Consolidated Conservation		Other - Acquired, Tax Forfeit, Volstead		Trust Fund		Federal - State Lease		--		Zone A		Zone B	
	Unit	Length (mi)	Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)	
	Buffer ⁽²⁾ (ft)	--	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	25.0	0	0	436	5,891	309	4,185	13	412	114	1,294	0	0	0	0	329	53	5	53
	Border Crossing Pine Creek Variation	25.7	0	0	381	5,173	308	4,155	13	412	61	606	0	0	0	0	343	8	0	8
	Border Crossing Hwy 310 Variation	18.6	0	0	300	4,218	274	3,589	1	165	24	464	0	0	0	0	213	0	0	0
	Border Crossing 500kV Variation	10.1	0	0	131	2,109	62	1,029	2	39	67	1,041	0	0	0	0	0	0	0	0
	Border Crossing 230kV Variation	8.2	0	0	97	1,512	87	1,215	1	40	9	257	0	0	<0.5	78	0	0	0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	30.7	0	0	453	6,163	346	4,726	13	416	94	1,021	0	0	0	0	321	5	0	5
	Roseau Lake WMA Variation 1	44.1	0	0	6	101	6	51	0	4	<0.5	46	0	0	0	0	200	51	3	51
	Roseau Lake WMA Variation 2	37.5	0	0	145	1,921	96	1,268	11	121	39	532	0	0	0	0	304	51	3	51
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	24.7	97	1,336	441	6,478	397	5,768	5	72	33	415	6	224	0	0	0	0	0	0
	Cedar Bend WMA Variation	19.6	0	73	84	1,425	78	1,383	6	41	0	<0.5	0	0	0	0	32	0	0	0
Beltrami North Variation Area	Proposed Blue/Orange Route	16.5	97	1,336	364	5,486	353	5,190	5	72	0	0	6	224	0	0	0	0	0	0
	Beltrami North Variation 1	15.8	97	1,407	297	4,430	294	4,355	3	46	0	0	0	30	0	0	0	0	0	0
	Beltrami North Variation 2	19.7	152	2,193	450	6,959	445	6,711	5	72	0	0	0	176	0	0	0	0	0	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route	11.6	0	0	213	3,327	195	2,969	0	0	0	0	18	357	0	0	1	0	0	0
	Beltrami North Central Variation 1	13.7	0	0	217	3,382	217	3,382	0	0	0	0	0	0	0	0	2	0	0	0
	Beltrami North Central Variation 2	12.6	0	0	246	3,806	246	3,498	0	0	0	0	1	309	0	0	2	0	0	0
	Beltrami North Central Variation 3	12.2	0	0	184	2,806	184	2,806	0	0	0	0	0	0	0	0	2	0	0	0
	Beltrami North Central Variation 4	13.5	0	0	178	2,765	178	2,765	0	0	0	0	0	0	0	0	2	0	0	0
	Beltrami North Central Variation 5	15.0	0	0	210	3,341	210	3,341	0	0	0	0	0	0	0	0	2	0	0	0
Pine Island Variation Area	Proposed Blue Route	109.8	1,205	18,215	2,095	31,318	836	12,131	326	5,320	934	13,866	0	0	4	46	20	0	0	0
	Proposed Orange Route	105.4	370	5,563	2,310	34,130	956	14,070	640	9,466	698	10,354	16	239	0	5	11	0	0	0
Beltrami South Central Variation Area	Proposed Orange Route	1.2	0	0	30	607	14	452	0	0	0	0	16	154	0	0	0	0	0	0
	Beltrami South Central Variation	1.7	0	0	43	784	43	718	0	0	0	0	0	65	0	0	0	0	0	0
Beltrami South Variation Area	Proposed Orange Route	5.6	58	861	136	2,196	136	2,153	0	0	0	0	0	44	0	0	0	0	0	0
	Beltrami South Variation	7.5	287	3,876	181	2,738	181	2,693	0	11	0	0	0	34	0	0	0	0	0	0
North Black River Variation Area	Proposed Blue Route	8.4	405	6,299	184	2,681	158	2,186	26	496	0	0	0	0	0	0	0	0	0	0
	North Black River Variation	9.2	362	4,756	158	2,288	133	2,001	25	287	0	0	0	0	0	0	0	0	0	0
C2 Segment Option Variation Area	Proposed Blue Route	32.8	16	156	731	10,919	68	953	99	1,331	565	8,636	0	0	0	0	8	0	0	0
	C2 Segment Option Variation	46.0	67	1,185	640	10,584	43	620	230	3,987	367	5,977	0	0	14	122	28	0	0	0
J2 Segment Option Variation Area	Proposed Orange Route	42.2	82	1,195	945	13,807	0	0	522	7,495	423	6,312	0	0	0	5	3	0	0	0
	J2 Segment Option Variation	45.2	73	1,058	840	12,620	0	0	528	7,933	311	4,687	0	0	0	0	0	0	0	0
Northome Variation Area	J2 Segment Option Variation	3.7	0	0	39	714	0	0	15	347	24	367	0	0	0	0	0	0	0	0
	Northome Variation	4.0	0	0	81	982	0	0	55	628	26	354	0	0	0	0	0	0	0	0
Cutfoot Variation Area	Proposed Orange Route	4.2	29	399	95	1,371	0	0	30	518	65	854	0	0	0	0	0	0	0	0
	Cutfoot Variation	4.8	4	108	93	1,519	0	0	20	537	73	982	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue Route	41.1	647	9,612	645	9,869	0	0	409	6,385	235	3,485	0	0	10	94	3	0	0	0
	Proposed Orange Route	44.6	819	11,988	694	10,705	0	0	471	7,437	223	3,268	0	0	4	55	3	0	0	0
	Effie Variation	49.8	824	11,399	772	11,273	0	0	507	7,238	265	4,035	0	0	0	26	0	0	0	0
East Bear Lake Variation Area	Proposed Orange Route	8.9	96	1,555	217	3,374	0	0	164	2,782	52	592	0	0	0	0	0	0	0	0
	East Bear Lake Variation	10.5	193	3,018	256	3,830	0	0	180	2,731	76	1,099	0	0	0	0	0	0	0	0
Balsam Variation Area	Proposed Blue Route	12.9	0	0	67	1,021	0	0	65	980	2	42	0	0	0	0	0	0	0	0
	Proposed Orange Route	13.7	0	0	50	900	0	0	50	852	0	47	0	0	0	0	26	0	0	0
	Balsam Variation	17.8	89	1,219	107	1,485	0	0	50	730	57	755	0	0	0	67	22	0	0	0
Dead Man's Pond Variation Area	Proposed Blue Route	2.2	0	0	19	341	0	0	19	341	0	0	0	0	0	0	0	0	0	0
	Dead Man's Pond Variation	2.3	0	0	37	448	0	0	37	448	0	0	0	0	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	5.4	37	551	41	613	0	0	17	286	24	327	0	0	0	0	0	0	0	0
	Proposed Orange Route	6.1	33	445	54	864	0	0	49	671	5	193	0	0	0	3	0	0	0	0

Dataset ⁽¹⁾	MPCA Impaired Streams		National Hydrology Dataset Flowlines		National Hydrology Dataset Waterbodies		MnDNR Public Water Inventory Watercourses		MnDNR Public Water Inventory Basins		MnDNR Public Water Inventory Wetlands		MnDNR Trout Streams			
	Type	--		--		--		--		--		--		--		
Unit	Length (mi)		Length (mi)		Area (ac)		Length (mi)		Area (ac)		Area (ac)		Length (mi)			
Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500		
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route		0.1	0.7	3.1	28.4	0	0	0.1	2.8	0	0	0	0	0	0
	Border Crossing Pine Creek Variation		0.1	0.7	3.3	32.9	0	0	0.1	2.9	0	0	0	0	0	0
	Border Crossing Hwy 310 Variation		0.1	0.7	5.3	26.0	0	1	0.1	1.7	0	0	0	0	0	0
	Border Crossing 500kV Variation		0	0	1.1	7.3	0	0	0	0	0	0	0	0	0	0
	Border Crossing 230kV Variation		0	0	1.5	8.8	0	<0.5	0	0	0	0	0	0	0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route		0.1	0.7	3.3	30.8	0	<0.5	0.1	1.7	0	0	0	0	0	0
	Roseau Lake WMA Variation 1		0.1	1.6	3.1	54.2	<0.5	10	0.6	10.3	0	0	0	19	0	0
	Roseau Lake WMA Variation 2		0.1	1.7	8.8	49.8	0	4	5.2	10.8	0	0	0	0	0	0
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route		0.2	3.4	0.8	14.6	1	4	0.2	4.0	9	67	0	0	0	0
	Cedar Bend WMA Variation		0.2	3.3	0.9	13.1	<0.5	3	0.3	4.8	0	0	0	0	0	0
Beltrami North Variation Area	Proposed Blue/Orange Route		0.2	3.4	0.5	9.5	1	3	0.2	4.0	9	67	0	0	0	0
	Beltrami North Variation 1		0.4	3.9	0.6	8.6	0	1	0.4	4.6	0	13	0	0	0	0
	Beltrami North Variation 2		0.2	4.7	1.1	13.3	<0.5	<0.5	0.2	5.1	9	67	0	0	0	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route		0	0	0.2	4.4	1	3	<0.05	0.7	0	14	0	0	0	0
	Beltrami North Central Variation 1		0	0	0.4	6.7	0	1	0.2	1.8	0	0	0	0	0	0
	Beltrami North Central Variation 2		0	0	0.3	6.7	0	3	0.1	1.6	0	0	0	0	0	0
	Beltrami North Central Variation 3		0	0	0.3	5.9	<0.5	3	0.1	1.6	0	0	0	0	0	0
	Beltrami North Central Variation 4		0	0	0.4	9.0	<0.5	2	0.1	2.1	0	0	0	0	0	0
	Beltrami North Central Variation 5		0	0	0.5	9.8	0	<0.5	0.2	2.3	0	0	0	0	0	0
Pine Island Variation Area	Proposed Blue Route		<0.5	0.8	5.5	53.7	3	61	0.8	14.6	1	8	0	0	<0.05	0.6
	Proposed Orange Route		0.1	0.9	3.6	57.4	7	106	1.2	20.2	0	1	0	0	0	0
Beltrami South Central Variation Area	Proposed Orange Route		0	0	<0.05	0.2	0	<0.5	0	0	0	0	0	0	0	0
	Beltrami South Central Variation		0	0	0	0	0	2	0	0	0	0	0	0	0	0
Beltrami South Variation Area	Proposed Orange Route		0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Beltrami South Variation		0	0	0	<0.05	0	0	0	0	0	0	0	0	0	0
North Black River Variation Area	Proposed Blue Route		0	0	0.1	5.0	<0.5	3	0	0	0	0	0	0	0	0
	North Black River Variation		0	0	7.2	15.4	0	0	<0.05	0.3	0	0	0	0	0	0
C2 Segment Option Variation Area	Proposed Blue Route		<0.5	0.8	1.3	13.1	<0.5	10	0.2	4.0	0	0	0	0	0	0
	C2 Segment Option Variation		0.1	2.0	0.3	6.0	1	40	0.1	2.4	0	0	0	0	0	0
J2 Segment Option Variation Area	Proposed Orange Route		0	0	1.7	24.0	5	85	0.3	8.5	0	1	0	0	0	0
	J2 Segment Option Variation		0	0	1.8	18.8	13	169	0.2	3.4	0	100	0	9	0	0
Northome Variation Area	J2 Segment Option Variation		0	0	0	0.9	8	54	0	0.5	0	<0.5	0	9	0	0
	Northome Variation		0	0	0.1	1.2	3	49	<0.05	0.5	3	58	0	1	0	0
Cutfoot Variation Area	Proposed Orange Route		0	0	<0.05	2.6	2	21	0	2.1	0	0	0	0	0	0
	Cutfoot Variation		0	0	0	1.2	0	1	0	0.9	0	0	0	0	0	0
Effie Variation Area	Proposed Blue Route		0	0	0.9	11.4	5	109	0.5	8.6	1	33	<0.5	32	0	0
	Proposed Orange Route		0	0	1.3	13.9	6	166	0.8	10.3	3	58	0	16	0	0
	Effie Variation		0	0	1.2	19.2	6	150	0.7	12.6	<0.5	26	0	11	0.5	5.8
East Bear Lake Variation Area	Proposed Orange Route		0	0	0.3	3.8	0	13	0.3	3.3	0	0	0	0	0	0
	East Bear Lake Variation		0	0	0.2	7.2	0	17	0.1	5.1	0	2	0	0	0	0.3
Balsam Variation Area	Proposed Blue Route		0	0	0.3	7.7	6	100	0.3	5.6	0	36	6	117	0	0
	Proposed Orange Route		0	0	0.4	9.9	0	6	0.2	5.1	0	8	0	3	0	0
	Balsam Variation		0	0	0.3	7.6	2	126	0.2	4.3	0	41	0	4	0	0
Dead Man's Pond Variation Area	Proposed Blue Route		0	0	0	1.0	0	19	0	1.0	0	2	0	19	0	0
	Dead Man's Pond Variation		0	0	0	0.9	0	3	0	0.9	0	5	0	1	0	0
Blackberry Variation Area	Proposed Blue Route		0.1	1.3	0.1	1.8	0	12	0.1	1.8	0	13	0	0	0	0
	Proposed Orange Route		0.2	2.2	0.2	2.8	0	92	0.2	2.8	3	89	0	21	0	0

Dataset ⁽¹⁾		USFWS National Wetland Inventory ⁽⁴⁾												MnDNR Shallow Lakes		MnDNR Wild Rice Lakes		State Trails		County/Local Parks	
		Type		PEM		PSS		PFO		PUB		River		Lake		--		--		--	
Unit		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Length (mi)		Area (ac)	
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	220	3,060	94	1,635	150	1,653	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Border Crossing Pine Creek Variation	225	2,978	94	1,476	96	1,242	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Border Crossing Hwy 310 Variation	152	1,919	93	1,464	65	1,251	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Border Crossing 500kV Variation	35	447	107	1,450	30	665	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Border Crossing 230kV Variation	30	366	49	763	23	515	0	<0.5	0	0	0	0	0	0	0	0	0	0	0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	279	3,644	136	2,033	132	1,697	0	<0.5	0	0	0	0	0	0	0	0	0	0	0	0
	Roseau Lake WMA Variation 1	45	803	21	398	35	461	<0.5	10	<0.5	12	0	0	0	0	0	0	0	0	0	0
	Roseau Lake WMA Variation 2	131	1,804	88	1,295	53	739	0	4	<0.5	18	0	0	0	0	0	0	0	0	0	0
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	85	1,036	128	1,943	253	3,662	<0.5	4	0	<0.5	0	0	9	67	0	0	0	0	0	0
	Cedar Bend WMA Variation	45	549	14	251	95	1,575	<0.5	3	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami North Variation Area	Proposed Blue/Orange Route	22	303	87	1,456	213	3,209	<0.5	3	0	<0.5	0	0	9	67	0	0	0	0	0	0
	Beltrami North Variation 1	9	220	99	1,326	185	2,800	0	1	0	0	0	0	0	13	0	0	0	0	0	0
	Beltrami North Variation 2	45	616	128	1,883	217	3,380	<0.5	<0.5	0	<0.5	0	0	9	67	0	0	0	0	0	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route	23	430	130	1,449	119	2,244	<0.5	3	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 1	25	403	97	1,574	191	2,769	0	<0.5	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 2	26	500	118	1,452	147	2,482	0	3	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 3	12	247	115	1,685	154	2,393	<0.5	3	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 4	28	445	108	1,518	169	2,572	<0.5	2	0	0	0	0	0	0	0	0	0	0	0	0
Pine Island Variation Area	Proposed Blue Route	200	1,822	657	9,654	1,240	19,733	3	62	3	50	0	0	0	0	0	0	<0.05	0.6	0	0
	Proposed Orange Route	54	1,087	774	11,289	1,039	15,490	7	106	<0.5	13	0	0	0	0	0	0	<0.05	0.6	0	0
Beltrami South Central Variation Area	Proposed Orange Route	2	156	8	207	20	230	0	<0.5	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Central Variation	4	130	28	451	11	187	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami South Variation Area	Proposed Orange Route	3	145	40	564	93	1,477	0	<0.5	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Variation	3	56	20	407	160	2,427	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Black River Variation Area	Proposed Blue Route	8	180	72	1,136	113	1,834	<0.5	3	0	0	0	0	0	0	0	0	0	0	0	0
	North Black River Variation	42	517	83	1,015	73	1,631	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C2 Segment Option Variation Area	Proposed Blue Route	14	183	80	1,232	633	9,347	<0.5	10	1	23	0	0	0	0	0	0	<0.05	0.6	0	0
	C2 Segment Option Variation	66	739	175	2,944	585	8,238	1	28	2	47	0	12	0	0	0	0	<0.05	0.6	0	0
J2 Segment Option Variation Area	Proposed Orange Route	21	324	96	1,587	388	5,529	5	85	0	0	0	0	0	0	0	0	<0.05	0.6	0	0
	J2 Segment Option Variation	28	480	97	1,394	215	3,540	13	151	0	0	0	19	0	31	0	0	<0.05	0.6	0	0
Northome Variation Area	J2 Segment Option Variation	2	39	6	123	8	118	8	54	0	0	0	0	0	22	0	0	0	0	0	0
	Northome Variation	3	65	2	91	6	139	0	8	0	0	3	40	1	52	0	0	0	0	0	0
Cutfoot Variation Area	Proposed Orange Route	3	36	3	97	49	664	2	21	0	0	0	0	0	0	0	0	0	0	0	0
	Cutfoot Variation	3	38	5	51	59	867	0	<0.5	0	0	0	0	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue Route	18	274	164	2,264	255	3,927	4	59	3	21	<0.5	50	0	0	0	0	0.1	2.7	0	24
	Proposed Orange Route	12	199	155	2,082	217	3,628	4	121	<0.5	7	2	45	0	0	0	0	<0.05	1.2	0	24
	Effie Variation	30	468	104	2,087	273	4,057	6	120	0	0	0	28	0	0	0	0	<0.05	0.9	0	0
East Bear Lake Variation Area	Proposed Orange Route	5	52	64	871	34	658	0	13	0	0	0	0	0	0	0	0	<0.05	1.2	0	0
	East Bear Lake Variation	2	54	40	873	47	575	0	17	0	0	0	0	0	0	0	0	<0.05	0.9	0	0
Balsam Variation Area	Proposed Blue Route	1	49	33	490	14	334	0	8	0	0	6	92	0	14	5	40	0	0	0	0
	Proposed Orange Route	10	98	38	436	21	356	0	3	0	0	0	3	0	3	0	0	0	0	0	0
	Balsam Variation	11	126	55	638	28	490	2	23	0	0	0	35	0	11	0	0	0	0	0	0
Dead Man's Pond Variation Area	Proposed Blue Route	0	0	11	130	3	40	0	0	0	0	0	19	0	0	0	0	0	0	0	0
	Dead Man's Pond Variation	0	0	2	59	2	54	0	0	0	0	0	3	0	0	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	0	9	15	247	36	482	0	3	0	0	0	9	0	14	0	0	0	0	0	0
	Proposed Orange Route	1	21	10	202	29	419	0	31	0	0	0	61	0	46	0	0	0	0	0	0

Dataset ⁽¹⁾		State Forests		USDA-USFS National Forest		State Scenic Byways		State Snowmobile Trails		State Water Trails		State Conservation Easements	
Type		--		--		--		--		--		--	
Unit		Area (ac)		Area (ac)		Length (mi)		Length (mi)		Length (mi)		Area (ac)	
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	394	5,231	0	0	0	1.0	0.1	4.4	0	0	0	0
	Border Crossing Pine Creek Variation	339	4,490	0	0	0	1.0	0.1	2.3	0	0	0	0
	Border Crossing Hwy 310 Variation	294	4,191	0	0	0	1.0	2.4	6.0	0	0	0	0
	Border Crossing 500kV Variation	120	1,722	0	0	0	1.0	0.4	3.6	0	0	0	0
	Border Crossing 230kV Variation	96	1,509	0	0	0	1.0	<0.05	0.7	0	0	0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	334	4,473	0	0	<0.05	1.0	0.1	2.0	0	0	0	0
	Roseau Lake WMA Variation 1	6	96	0	0	<0.05	1.0	0.3	9.6	0	0	0	0
	Roseau Lake WMA Variation 2	52	751	0	0	<0.05	1.0	0.3	7.4	0	0	0	0
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	372	5,507	0	0	<0.05	1.0	0.2	8.0	0	0	0	0
	Cedar Bend WMA Variation	78	1,305	0	0	<0.05	1.0	0.8	2.6	0	0	0	0
Beltrami North Variation Area	Proposed Blue/Orange Route	372	5,507	0	0	0	0	0.1	7.4	0	0	0	0
	Beltrami North Variation 1	291	4,420	0	0	0	0	0.3	7.6	0	0	0	0
	Beltrami North Variation 2	462	6,996	0	0	0	0	0.7	11.8	0	0	0	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route	224	3,476	0	0	0	0	0.1	2.5	0	0	0	0
	Beltrami North Central Variation 1	237	3,632	0	0	0	0	0.1	2.1	0	0	0	0
	Beltrami North Central Variation 2	255	3,921	0	0	0	0	0.1	1.7	0	0	0	0
	Beltrami North Central Variation 3	184	2,790	0	0	0	0	0.1	5.9	0	0	0	0
	Beltrami North Central Variation 4	178	2,746	0	0	0	0	0.1	5.6	0	0	0	0
	Beltrami North Central Variation 5	230	3,587	0	0	0	0	0.1	1.8	0	0	0	0
Pine Island Variation Area	Proposed Blue Route	2,291	34,154	0	0	0	0	0.5	9.1	<0.05	0.8	120	1,638
	Proposed Orange Route	1,980	29,679	0	0	0	0	0.8	16.0	0.1	0.9	<0.5	49
Beltrami South Central Variation Area	Proposed Orange Route	30	607	0	0	0	0	<0.05	0.7	0	0	0	0
	Beltrami South Central Variation	43	784	0	0	0	0	<0.05	0.6	0	0	0	0
Beltrami South Variation Area	Proposed Orange Route	136	2,196	0	0	0	0	0	0	0	0	0	0
	Beltrami South Variation	183	2,898	0	0	0	0	0	0	0	0	0	0
North Black River Variation Area	Proposed Blue Route	188	2,751	0	0	0	0	0.1	2.4	0	0	0	0
	North Black River Variation	156	2,405	0	0	0	0	0.1	1.8	0	0	0	0
C2 Segment Option Variation Area	Proposed Blue Route	797	12,103	0	0	0	0	0.2	3.7	<0.05	0.8	0	0
	C2 Segment Option Variation	274	4,390	0	0	0	0	<0.05	1.2	<0.05	1.2	0	0
J2 Segment Option Variation Area	Proposed Orange Route	851	12,840	0	0	0	0	0.6	5.5	0	0	0	0
	J2 Segment Option Variation	715	10,803	0	0	<0.05	1.0	0.1	4.0	0	0	0	0
Northome Variation Area	J2 Segment Option Variation	<0.5	82	0	0	0	0	0	0	0	0	0	0
	Northome Variation	<0.5	83	0	171	0	0	0	0	0	0	0	0
Cutfoot Variation Area	Proposed Orange Route	103	1,697	0	0	0	0	0	0	0	0	0	0
	Cutfoot Variation	116	1,887	0	0	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue Route	909	13,699	0	0	0	0	0.4	6.9	0	0	200	2,661
	Proposed Orange Route	958	14,434	0	0	0	0	0.4	7.0	0	0	196	2,483
	Effie Variation	1,086	16,361	0	0	0	0	0.3	5.0	0	0	293	4,269
East Bear Lake Variation Area	Proposed Orange Route	217	3,404	0	0	0	0	0.1	3.4	0	0	0	0
	East Bear Lake Variation	256	3,977	0	0	0	0	0.2	4.2	0	0	0	0
Balsam Variation Area	Proposed Blue Route	0	0	0	0	0	0	0.1	3.7	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0	0.2	5.7	0	0	3	53
	Balsam Variation	0	0	0	0	0	0	4.9	9.0	0	0	0	0
Dead Man's Pond Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0
	Dead Man's Pond Variation	0	0	0	0	0	0	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	0	0	0	0	0	0	0.1	2.0	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0	0.3	5.1	0	0	0	0

Dataset ⁽¹⁾		MBS Sites of Biodiversity Significance ⁽⁵⁾											
		Type		Outstanding		High		Moderate		Below		Rank Unknown	
Unit		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)	
		Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	80	1,028	45	602	253	3,521	3	76	0	0	381	5,227
	Border Crossing Pine Creek Variation	25	300	45	602	253	3,521	3	76	0	0	326	4,499
	Border Crossing Hwy 310 Variation	29	347	45	602	188	2,840	3	76	0	0	265	3,865
	Border Crossing 500kV Variation	0	0	62	965	59	845	42	596	0	0	162	2,406
	Border Crossing 230kV Variation	0	0	42	634	41	618	8	155	0	0	91	1,407
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	19	264	88	1,241	253	3,521	44	510	0	0	404	5,537
	Roseau Lake WMA Variation 1	7	98	0	0	0	0	8	100	0	0	14	198
	Roseau Lake WMA Variation 2	7	98	70	1,084	0	0	77	981	0	0	153	2,162
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	0	0	43	732	327	4,751	83	961	0	0	454	6,444
	Cedar Bend WMA Variation	0	0	0	55	60	929	52	886	0	0	112	1,870
Beltrami North Variation Area	Proposed Blue/Orange Route	0	0	0	93	327	4,751	42	527	0	0	369	5,370
	Beltrami North Variation 1	0	0	6	108	226	3,443	45	629	0	0	276	4,180
	Beltrami North Variation 2	0	0	30	616	429	6,234	0	0	0	0	460	6,850
Beltrami North Central Variation Area	Proposed Blue/Orange Route	0	0	101	1,752	43	901	0	0	0	0	145	2,653
	Beltrami North Central Variation 1	0	0	15	525	82	1,444	0	0	0	0	97	1,970
	Beltrami North Central Variation 2	0	0	115	1,986	58	999	0	0	0	0	174	2,985
	Beltrami North Central Variation 3	0	0	15	452	90	1,231	0	0	0	0	105	1,683
	Beltrami North Central Variation 4	0	0	0	157	90	1,231	0	0	12	261	102	1,648
	Beltrami North Central Variation 5	0	0	0	230	82	1,444	0	0	12	261	94	1,935
Pine Island Variation Area	Proposed Blue Route	118	2,895	210	2,919	10	190	0	0	1,175	16,996	1,514	22,999
	Proposed Orange Route	476	7,418	335	5,032	274	4,097	0	0	555	8,292	1,639	24,840
Beltrami South Central Variation Area	Proposed Orange Route	0	0	30	607	0	0	0	0	0	0	30	607
	Beltrami South Central Variation	0	0	43	784	0	0	0	0	0	0	43	784
Beltrami South Variation Area	Proposed Orange Route	22	400	98	1,469	0	0	0	0	0	0	120	1,869
	Beltrami South Variation	62	898	99	1,552	0	0	0	0	0	0	161	2,449
North Black River Variation Area	Proposed Blue Route	0	126	165	2,330	0	0	0	0	0	0	165	2,456
	North Black River Variation	5	1,043	105	1,190	0	0	0	0	0	0	109	2,233
C2 Segment Option Variation Area	Proposed Blue Route	92	1,632	8	109	0	0	0	0	542	7,894	642	9,636
	C2 Segment Option Variation	149	1,679	181	2,742	0	0	0	0	181	2,795	510	7,216
J2 Segment Option Variation Area	Proposed Orange Route	26	568	0	0	137	2,042	0	0	326	5,005	489	7,615
	J2 Segment Option Variation	3	113	0	0	0	21	0	0	182	3,105	185	3,238
Northome Variation Area	J2 Segment Option Variation	0	0	0	0	0	0	0	0	0	0	0	0
	Northome Variation	0	0	0	0	0	76	0	0	0	0	0	76
Cutfoot Variation Area	Proposed Orange Route	0	0	0	0	32	450	0	0	11	261	43	711
	Cutfoot Variation	0	0	0	0	47	648	0	0	14	264	60	912
Effie Variation Area	Proposed Blue Route	56	742	179	2,611	187	2,924	0	0	0	128	422	6,405
	Proposed Orange Route	56	742	108	1,627	257	3,844	69	1,082	0	128	490	7,424
	Effie Variation	0	18	20	581	158	2,799	166	1,899	82	1,295	427	6,592
East Bear Lake Variation Area	Proposed Orange Route	0	0	108	1,607	40	735	69	1,066	0	0	217	3,408
	East Bear Lake Variation	0	0	20	467	57	1,228	178	2,186	0	0	255	3,881
Balsam Variation Area	Proposed Blue Route	0	0	0	18	78	1,197	0	0	0	0	78	1,215
	Proposed Orange Route	0	0	28	593	78	1,197	0	0	0	0	105	1,790
	Balsam Variation	18	375	14	380	63	936	0	0	0	0	95	1,691
Dead Man's Pond Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0
	Dead Man's Pond Variation	0	0	0	0	0	0	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	0	0	40	577	17	292	0	0	0	0	57	869
	Proposed Orange Route	0	0	38	583	41	739	0	0	0	0	79	1,323

Dataset ⁽¹⁾	MBS Native Plant Communities ⁽⁶⁾⁽⁷⁾	MnDNR Scientific and Natural Areas		MnDNR High Conservation Value Forest		MnDNR Scientific and Natural Area, Peatland Watershed Protection Areas		MnDNR Ecologically Important Lowland Conifer Areas		Minnesota Department of Health Well Head Protection Areas		MnDNR State Wildlife Management Areas		USFWS Interest Lands			Audubon Society Important Bird Areas				
		Type	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)			
Unit	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)	Area (ac)			
Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	150	1,500	100	1,500		
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	124	1,597	0	17	82	965	178	2,361	0	0	0	0	25	530	0	0	0	0	0	
	Border Crossing Pine Creek Variation	68	886	0	0	27	267	123	1,645	0	0	0	0	25	530	0	0	0	0	0	
	Border Crossing Hwy 310 Variation	69	931	0	0	29	343	97	1,454	0	0	0	0	0	0	0	0	0	0	0	
	Border Crossing 500kV Variation	60	932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Border Crossing 230kV Variation	34	590	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	107	1,467	0	0	22	261	117	1,638	0	0	0	0	69	1,107	0	0	0	0	0	
	Roseau Lake WMA Variation 1	5	87	0	0	6	97	6	96	0	0	0	0	0	0	0	0	10	0	0	
	Roseau Lake WMA Variation 2	75	1,144	0	0	6	97	6	96	0	0	0	0	44	635	0	0	0	0	0	
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	43	612	0	0	8	61	0	0	0	0	0	0	44	577	6	10	224	0	0	
	Cedar Bend WMA Variation	0	50	0	0	0	0	0	0	0	0	0	<0.5	78	0	0	0	0	0	0	
Beltrami North Variation Area	Proposed Blue/Orange Route	0	0	0	0	8	61	0	0	0	0	0	0	0	0	6	10	224	0	0	
	Beltrami North Variation 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	
	Beltrami North Variation 2	30	521	0	0	8	61	0	8	0	0	0	0	0	0	0	0	145	23	355	
Beltrami North Central Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	27	357	117	1,834	
	Beltrami North Central Variation 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	536	
	Beltrami North Central Variation 2	0	0	0	0	0	0	23	310	0	0	0	0	0	0	1	1	309	157	2,412	
	Beltrami North Central Variation 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	536	
	Beltrami North Central Variation 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	33	564	
	Beltrami North Central Variation 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	33	564	
Pine Island Variation Area	Proposed Blue Route	ND	ND	0	100	0	0	125	1,772	29	448	0	0	49	820	8	12	93	1,405	20,962	
	Proposed Orange Route	ND	ND	0	50	0	0	247	3,926	5	85	0	0	274	3,947	16	24	239	1,722	26,341	
Beltrami South Central Variation Area	Proposed Orange Route	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	16	24	154	30	607	
	Beltrami South Central Variation	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	43	784	
Beltrami South Variation Area	Proposed Orange Route	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	<0.5	44	136	2,196	
	Beltrami South Variation	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	183	2,898	
North Black River Variation Area	Proposed Blue Route	ND	ND	0	0	0	0	86	1,335	0	0	0	0	0	0	0	0	0	0	191	2,937
	North Black River Variation	ND	ND	0	0	0	0	94	1,440	0	0	0	0	0	0	0	0	0	0	214	3,280
C2 Segment Option Variation Area	Proposed Blue Route	ND	ND	0	0	0	0	0	4	7	82	0	0	0	0	0	0	0	469	7,106	
	C2 Segment Option Variation	ND	ND	0	155	0	0	26	1,248	6	52	0	0	0	0	0	0	0	406	6,161	
J2 Segment Option Variation Area	Proposed Orange Route	ND	ND	0	0	0	0	0	7	0	37	0	0	0	0	0	0	0	262	4,445	
	J2 Segment Option Variation	ND	ND	0	0	0	0	0	0	0	6	0	0	0	0	28	40	368	72	1,158	
Northome Variation Area	J2 Segment Option Variation	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	28	40	368	0	0	
	Northome Variation	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170	
Cutfoot Variation Area	Proposed Orange Route	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Cutfoot Variation	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Effie Variation Area	Proposed Blue Route	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	1,035	
	Proposed Orange Route	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	1,035	
	Effie Variation	ND	ND	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	
East Bear Lake Variation Area	Proposed Orange Route	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	East Bear Lake Variation	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Balsam Variation Area	Proposed Blue Route	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Proposed Orange Route	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Balsam Variation	ND	ND	0	0	0	0	0	0	0	0	63	995	0	0	0	0	0	0	76	
Dead Man's Pond Variation Area	Proposed Blue Route	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Dead Man's Pond Variation	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Blackberry Variation Area	Proposed Blue Route	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Proposed Orange Route	ND	ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Dataset ⁽¹⁾		USFWS Grassland Bird Conservation Areas		MnDNR Gray Owl Management Area		GAP Land Cover Vegetation Class Level - Division 4													
		Type		--		--		Herbaceous Agricultural Vegetation		North American Boreal Forest		North American Boreal Flooded & Swamp Forest		Eastern North American Cool Temperate Forest		Eastern North American Flooded & Swamp Forest		Great Plains Grassland & Shrubland	
Unit		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)	
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	81	1,406	0	0	162	2,784	56	715	341	4,987	6	52	7	83	0	9	6	178
	Border Crossing Pine Creek Variation	81	1,406	0	0	227	3,609	56	689	300	4,425	6	53	7	82	0	9	9	246
	Border Crossing Hwy 310 Variation	81	1,270	0	123	126	1,901	50	601	226	3,722	5	51	8	82	0	7	21	183
	Border Crossing 500kV Variation	0	26	0	0	52	819	40	517	131	2,009	10	241	2	30	0	3	5	79
	Border Crossing 230kV Variation	0	0	0	0	70	1,057	26	417	88	1,300	9	144	2	35	0	8	3	76
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	131	1,931	0	0	196	3,364	73	891	388	5,791	16	138	39	519	0	15	12	266
	Roseau Lake WMA Variation 1	40	648	0	0	866	12,616	30	570	61	1,098	25	397	35	477	2	32	41	785
	Roseau Lake WMA Variation 2	220	3,499	0	0	531	8,783	57	753	165	2,790	15	153	39	553	2	19	94	588
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	50	525	0	0	41	844	110	1,630	338	4,950	37	465	58	989	0	6	10	171
	Cedar Bend WMA Variation	10	130	0	0	186	2,625	57	1,089	117	2,126	28	349	64	612	0	6	12	341
Beltrami North Variation Area	Proposed Blue/Orange Route	0	0	0	0	6	84	94	1,440	242	3,548	27	383	26	590	0	0	5	67
	Beltrami North Variation 1	0	0	0	0	12	358	84	1,285	221	3,134	24	314	38	658	0	0	3	95
	Beltrami North Variation 2	0	0	0	0	0	22	117	1,935	300	4,331	21	327	35	597	0	0	2	59
Beltrami North Central Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	1	66	1,421	177	2,237	4	95	30	552	0	0	2	34
	Beltrami North Central Variation 1	0	0	0	0	4	49	104	1,917	180	2,369	5	101	34	618	0	0	2	38
	Beltrami North Central Variation 2	0	0	0	0	0	0	78	1,484	179	2,359	4	102	42	708	0	0	1	32
	Beltrami North Central Variation 3	0	0	0	0	4	49	103	1,690	147	2,156	6	90	31	524	0	0	2	51
	Beltrami North Central Variation 4	0	0	0	0	12	276	114	1,899	130	2,006	10	137	53	632	0	0	6	85
	Beltrami North Central Variation 5	0	0	0	0	12	277	115	2,125	163	2,219	9	148	55	727	0	0	5	72
Pine Island Variation Area	Proposed Blue Route	0	0	0	0	57	985	785	12,216	1,372	21,527	31	374	366	4,086	0	0	15	410
	Proposed Orange Route	0	0	0	0	9	308	769	11,921	1,323	19,396	70	970	358	5,398	0	0	12	204
Beltrami South Central Variation Area	Proposed Orange Route	0	0	0	0	0	0	2	143	24	284	0	11	5	160	0	0	0	7
	Beltrami South Central Variation	0	0	0	0	0	0	6	111	32	534	0	9	5	125	0	0	0	6
Beltrami South Variation Area	Proposed Orange Route	0	0	0	0	0	0	16	341	114	1,713	1	24	4	107	0	0	1	10
	Beltrami South Variation	0	0	0	0	0	0	35	597	139	2,109	2	26	7	155	0	0	0	10
North Black River Variation Area	Proposed Blue Route	0	0	0	0	0	0	47	726	144	2,260	0	11	12	193	0	0	0	19
	North Black River Variation	0	34	0	0	3	69	49	835	114	2,061	5	54	29	346	0	0	13	99
C2 Segment Option Variation Area	Proposed Blue Route	0	0	0	0	0	0	248	3,776	484	7,413	1	23	56	710	0	0	2	53
	C2 Segment Option Variation	0	0	0	0	10	167	162	3,332	728	10,766	5	49	185	1,974	0	0	12	292
J2 Segment Option Variation Area	Proposed Orange Route	0	0	0	0	1	153	477	7,232	319	4,770	36	453	176	2,655	0	0	4	62
	J2 Segment Option Variation	0	0	0	0	3	164	650	9,568	124	1,921	99	1,250	191	3,121	0	0	7	135
Northome Variation Area	J2 Segment Option Variation	0	0	0	0	0	64	71	1,153	2	23	10	165	6	77	0	0	0	0
	Northome Variation	0	0	0	0	0	0	81	1,308	0	25	10	134	5	87	0	0	0	0
Cutfoot Variation Area	Proposed Orange Route	0	0	0	0	0	0	30	680	28	380	2	12	39	580	0	0	2	12
	Cutfoot Variation	0	0	0	0	0	0	64	894	30	509	1	20	20	451	0	0	1	12
Effie Variation Area	Proposed Blue Route	0	0	0	0	0	0	473	7,085	399	5,806	25	428	81	1,404	0	0	6	143
	Proposed Orange Route	0	0	0	0	0	0	569	8,422	339	5,169	40	653	99	1,557	0	0	5	120
	Effie Variation	0	0	0	0	0	0	556	8,919	364	5,656	35	750	208	2,371	0	0	11	233
East Bear Lake Variation Area	Proposed Orange Route	0	0	0	0	0	0	103	1,584	94	1,452	6	91	13	254	0	0	1	10
	East Bear Lake Variation	0	0	0	0	0	0	140	2,140	77	1,189	10	242	24	339	0	0	2	26
Balsam Variation Area	Proposed Blue Route	0	0	0	0	0	4	205	2,894	12	360	53	888	29	399	0	0	6	109
	Proposed Orange Route	0	0	0	0	3	70	208	3,034	15	388	47	877	47	529	0	0	6	118
	Balsam Variation	0	0	0	0	5	72	234	4,045	40	657	60	942	68	545	0	0	9	159
Dead Man's Pond Variation Area	Proposed Blue Route	0	0	0	0	0	0	34	625	2	54	14	198	1	28	0	0	4	33
	Dead Man's Pond Variation	0	0	0	0	0	2	43	730	3	41	6	127	2	27	0	0	1	29
Blackberry Variation Area	Proposed Blue Route	0	0	0	0	1	50	60	942	30	374	33	564	7	124	0	0	1	28
	Proposed Orange Route	0	0	0	0	13	192	52	705	26	417	49	747	3	113	0	0	1	36

Dataset ⁽¹⁾		GAP Land Cover Vegetation Class Level - Division 4									
Type		Recently Disturbed or Modified		Open Water		Southeastern North American Flooded & Swamp Forest		Eastern North America Freshwater Wet Meadow, Riparian & Marsh		Introduced & Semi Natural Vegetation	
Unit		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)	
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	2	28	27	324	0	0	0	0	0	0
	Border Crossing Pine Creek Variation	2	27	17	274	0	0	0	0	0	0
	Border Crossing Hwy 310 Variation	1	17	16	286	0	0	0	0	0	0
	Border Crossing 500kV Variation	3	12	0	15	0	0	0	0	0	0
	Border Crossing 230kV Variation	1	6	0	4	0	0	0	0	0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	6	64	17	274	0	0	1	11	0	0
	Roseau Lake WMA Variation 1	3	53	2	22	6	73	0	0	0	0
	Roseau Lake WMA Variation 2	5	63	2	46	0	9	1	11	0	0
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	4	60	0	5	0	0	1	11	0	0
	Cedar Bend WMA Variation	13	137	0	3	0	0	0	4	0	1
Beltrami North Variation Area	Proposed Blue/Orange Route	1	25	0	5	0	0	0	0	0	0
	Beltrami North Variation 1	2	48	0	4	0	0	0	0	0	0
	Beltrami North Variation 2	1	20	1	6	0	0	0	0	0	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route	0	15	1	6	0	0	0	0	0	0
	Beltrami North Central Variation 1	1	26	1	6	0	0	0	0	0	0
	Beltrami North Central Variation 2	0	16	1	8	0	0	0	0	0	0
	Beltrami North Central Variation 3	1	24	1	6	0	0	0	0	0	0
	Beltrami North Central Variation 4	6	46	0	2	0	0	0	0	0	0
	Beltrami North Central Variation 5	6	49	0	2	0	0	0	0	0	0
Pine Island Variation Area	Proposed Blue Route	21	245	12	200	0	0	0	0	1	3
	Proposed Orange Route	8	131	7	128	0	0	0	0	0	1
Beltrami South Central Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0
	Beltrami South Central Variation	0	0	0	0	0	0	0	0	0	0
Beltrami South Variation Area	Proposed Orange Route	<0.5	1	0	0	0	0	0	0	0	0
	Beltrami South Variation	0	0	0	0	0	0	0	0	0	0
North Black River Variation Area	Proposed Blue Route	0	1	0	0	0	0	0	0	0	0
	North Black River Variation	10	26	0	5	0	0	0	0	0	0
C2 Segment Option Variation Area	Proposed Blue Route	2	41	4	84	0	0	0	0	0	3
	C2 Segment Option Variation	10	212	1	64	0	0	0	0	1	16
J2 Segment Option Variation Area	Proposed Orange Route	6	83	5	104	0	0	0	0	0	0
	J2 Segment Option Variation	13	220	10	210	0	0	0	0	0	0
Northome Variation Area	J2 Segment Option Variation	1	24	1	17	0	0	0	0	0	0
	Northome Variation	0	16	3	61	0	0	0	1	0	0
Cutfoot Variation Area	Proposed Orange Route	0	3	3	30	0	0	0	0	0	0
	Cutfoot Variation	0	1	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue Route	4	96	10	123	0	0	0	0	0	0
	Proposed Orange Route	20	278	9	145	0	0	0	0	0	0
	Effie Variation	31	260	3	84	0	0	0	0	0	0
East Bear Lake Variation Area	Proposed Orange Route	0	9	0	7	0	0	0	0	0	0
	East Bear Lake Variation	2	32	1	13	0	0	0	0	0	0
Balsam Variation Area	Proposed Blue Route	2	60	7	145	0	0	0	0	0	0
	Proposed Orange Route	7	94	0	20	0	0	0	0	0	0
	Balsam Variation	16	132	3	86	0	0	0	0	0	0
Dead Man's Pond Variation Area	Proposed Blue Route	0	2	0	21	0	0	0	0	0	0
	Dead Man's Pond Variation	0	4	1	27	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	1	28	0	0	0	0	0	0	0	0
	Proposed Orange Route	3	42	0	101	0	0	0	0	0	0

Dataset ⁽¹⁾		Farmland								USDA-NRCS Soil Type				Abandoned Transmission Line	
Type		Not Farmland		Prime Farmland If Drained		Farmland Of Statewide Importance		All Areas Are Prime Farmland		Mineral		Histosol		--	
Unit		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Length (mi)	Percent of Total Length
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	--	--
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	497	7,088	103	1,869	4	85	3	123	176	2,975	431	6,190	0	0
	Border Crossing Pine Creek Variation	452	6,499	164	2,687	4	85	3	148	247	3,914	376	5,505	0	0
	Border Crossing Hwy 310 Variation	355	5,285	89	1,388	4	85	3	94	156	2,285	297	4,567	0	0
	Border Crossing 500kV Variation	158	2,268	76	1,322	0	0	9	134	125	1,927	119	1,797	0	0
	Border Crossing 230kV Variation	121	1,748	72	1,151	<0.5	19	5	132	101	1,718	97	1,331	0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	561	7,899	143	2,793	23	299	18	344	295	4,893	450	6,441	0	0
	Roseau Lake WMA Variation 1	578	8,901	388	5,819	21	307	84	1,096	1,037	15,491	33	633	0	0
	Roseau Lake WMA Variation 2	498	7,167	356	5,634	23	299	33	670	612	9,507	298	4,263	0	0
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	497	7,159	68	1,499	18	237	15	236	427	6,865	172	2,266	0	0
	Cedar Bend WMA Variation	285	4,367	161	2,422	6	85	25	420	458	6,959	18	335	0	0
Beltrami North Variation Area	Proposed Blue/Orange Route	373	5,685	27	419	0	24	0	15	307	4,723	92	1,420	0	0
	Beltrami North Variation 1	356	5,435	19	365	0	0	8	99	306	4,670	77	1,228	0	0
	Beltrami North Variation 2	450	6,810	27	420	0	24	<0.5	44	381	5,691	96	1,606	0	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route	275	4,306	0	0	6	56	0	0	164	2,828	116	1,534	0	0
	Beltrami North Central Variation 1	327	5,015	0	5	5	104	0	0	236	3,772	96	1,352	0	0
	Beltrami North Central Variation 2	305	4,696	0	0	0	13	0	0	185	3,119	120	1,591	0	0
	Beltrami North Central Variation 3	291	4,492	0	5	5	93	0	0	216	3,273	80	1,317	0	0
	Beltrami North Central Variation 4	290	4,420	13	258	20	363	6	43	251	3,908	78	1,176	0	0
	Beltrami North Central Variation 5	326	4,943	13	258	20	375	6	43	271	4,408	93	1,211	0	0
Pine Island Variation Area	Proposed Blue Route	1,995	30,317	307	4,768	289	3,943	70	1,019	1,229	19,102	1,433	20,945	0	0
	Proposed Orange Route	1,863	28,244	503	7,216	120	1,909	70	1,088	1,410	21,722	1,146	16,735	0	0
Beltrami South Central Variation Area	Proposed Orange Route	30	607	0	0	0	0	0	0	13	300	17	307	0	0
	Beltrami South Central Variation	43	784	0	0	0	0	0	0	9	220	34	563	0	0
Beltrami South Variation Area	Proposed Orange Route	136	2,196	0	0	0	<0.5	0	0	33	640	104	1,557	0	0
	Beltrami South Variation	183	2,898	0	0	0	0	0	0	57	1,049	126	1,848	0	0
North Black River Variation Area	Proposed Blue Route	163	2,444	12	316	29	451	0	0	44	887	160	2,324	0	0
	North Black River Variation	159	2,298	50	833	14	364	0	0	79	1,441	144	2,054	0	0
C2 Segment Option Variation Area	Proposed Blue Route	625	9,694	92	1,230	78	1,148	2	30	304	5,011	493	7,091	0	0
	C2 Segment Option Variation	790	11,979	124	1,893	177	2,605	25	396	581	9,163	535	7,710	0	0
J2 Segment Option Variation Area	Proposed Orange Route	530	8,382	373	5,122	60	979	61	1,029	803	12,448	221	3,064	0	0
	J2 Segment Option Variation	397	6,367	300	4,598	241	3,308	159	2,316	1,005	14,923	91	1,666	0	0
Northome Variation Area	J2 Segment Option Variation	30	498	2	76	39	616	20	333	91	1,510	0	13	0	0
	Northome Variation	28	538	15	96	28	508	28	490	99	1,597	0	34	0	0
Cutfoot Variation Area	Proposed Orange Route	48	803	53	754	2	84	0	57	64	1,193	39	505	0	0
	Cutfoot Variation	81	1,072	32	725	4	58	0	32	54	1,135	62	753	0	0
Effie Variation Area	Proposed Blue Route	600	9,310	158	2,344	121	1,736	118	1,695	721	11,024	275	4,061	0	0
	Proposed Orange Route	571	8,826	164	2,350	123	1,742	223	3,425	845	12,726	236	3,618	1	3
	Effie Variation	544	8,385	311	4,517	159	1,982	195	3,388	930	14,439	279	3,833	1	3
East Bear Lake Variation Area	Proposed Orange Route	132	2,167	1	40	0	0	84	1,201	136	2,206	81	1,202	0	0
	East Bear Lake Variation	95	1,693	36	493	0	0	124	1,795	214	3,082	42	899	0	0
Balsam Variation Area	Proposed Blue Route	109	1,787	50	790	0	0	156	2,282	275	4,117	39	742	0	0
	Proposed Orange Route	115	1,785	46	683	12	236	159	2,427	295	4,573	38	558	3	22
	Balsam Variation	230	3,410	61	830	1	24	141	2,375	363	5,617	70	1,021	12	66
Dead Man's Pond Variation Area	Proposed Blue Route	34	508	9	119	0	0	11	334	47	837	7	124	0	0
	Dead Man's Pond Variation	17	398	1	58	0	0	38	531	56	925	<0.5	63	0	0
Blackberry Variation Area	Proposed Blue Route	1	50	60	942	30	374	33	564	7	124	0	0	0	0
	Proposed Orange Route	57	1,003	8	100	2	65	80	1,186	109	1,764	38	590	0	0

Dataset ⁽¹⁾		Corridor Sharing ⁽⁸⁾													
Type		Transmission Line only		Transmission Line and Trail		None		Field Line only		Road and Trail and PLSS		Road and Transmission Line and PLSS		PLSS only	
Unit		Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length
Buffer ⁽²⁾ (ft)		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	2	7	0	0	15	59	0	0	0	0	0	0	3	11
	Border Crossing Pine Creek Variation	2	7	0	0	14	55	<0.5	2	<0.5	1	0	0	3	11
	Border Crossing Hwy 310 Variation	2	10	0	0	12	64	0	0	2	12	0	0	<0.5	2
	Border Crossing 500kV Variation	3	26	3	29	0	0	0	0	0	0	0	0	0	0
	Border Crossing 230kV Variation	6	70	0	0	0	0	0	0	0	0	0	0	0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	4	14	0	0	12	40	0	0	0	0	0	0	3	9
	Roseau Lake WMA Variation 1	3	7	0	0	20	46	14	32	<0.5	<0.5	0	0	1	1
	Roseau Lake WMA Variation 2	4	11	0	0	11	29	6	15	<0.5	<0.5	0	0	0	0
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	13	53	2	8	0	0	0	0	0	0	0	0	0	0
	Cedar Bend WMA Variation	19	97	1	3	0	0	0	0	0	0	0	0	0	0
Beltrami North Variation Area	Proposed Blue/Orange Route	11	65	2	12	0	0	0	0	0	0	0	0	0	0
	Beltrami North Variation 1	6	36	2	13	4	26	0	2	0	0	0	0	0	0
	Beltrami North Variation 2	5	24	2	10	9	47	0	0	0	0	0	0	0	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route	11	95	1	5	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 1	7	48	0	0	7	52	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 2	6	49	0	0	6	51	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 3	4	36	4	34	4	30	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 4	8	62	4	31	1	8	0	0	0	0	0	0	0	0
Pine Island Variation Area	Proposed Blue Route	29	27	0	0	58	53	1	1	0	0	<0.5	<0.5	8	7
	Proposed Orange Route	20	19	4	4	76	72	1	1	0	0	0	0	5	4
Beltrami South Central Variation Area	Proposed Orange Route	1	100	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Central Variation	0	0	0	0	2	100	0	0	0	0	0	0	0	0
Beltrami South Variation Area	Proposed Orange Route	6	100	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Variation	0	0	0	0	8	100	0	0	0	0	0	0	0	0
North Black River Variation Area	Proposed Blue Route	0	0	0	0	8	100	0	0	0	0	0	0	0	0
	North Black River Variation	1	15	0	0	0	0	0	0	0	0	6	69	0	0
C2 Segment Option Variation Area	Proposed Blue Route	0	0	0	0	31	94	0	0	0	0	0	0	2	6
	C2 Segment Option Variation	32	69	0	0	9	19	0	0	0	0	0	0	0	0
J2 Segment Option Variation Area	Proposed Orange Route	0	0	0	0	37	87	1	2	0	0	0	0	5	11
	J2 Segment Option Variation	0	0	0	0	38	85	1	1	0	0	0	0	6	13
Northome Variation Area	J2 Segment Option Variation	0	0	0	0	4	100	0	0	0	0	0	0	0	0
	Northome Variation	0	0	0	0	4	100	0	0	0	0	0	0	0	0
Cutfoot Variation Area	Proposed Orange Route	0	0	0	0	4	100	0	0	0	0	0	0	0	0
	Cutfoot Variation	0	0	0	0	5	100	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue Route	0	0	0	0	38	93	1	2	0	0	0	0	<0.5	1
	Proposed Orange Route	0	0	0	0	38	85	1	2	0	0	0	0	5	11
	Effie Variation	27	54	0	0	10	20	0	0	0	0	0	0	0	0
East Bear Lake Variation Area	Proposed Orange Route	0	0	0	0	4	45	0	0	0	0	0	0	5	55
	East Bear Lake Variation	4	42	0	0	6	58	0	0	0	0	0	0	0	0
Balsam Variation Area	Proposed Blue Route	0	0	2	15	10	79	0	0	0	0	0	0	0	0
	Proposed Orange Route	0	0	2	14	11	83	0	0	0	0	0	0	0	0
	Balsam Variation	0	0	0	0	11	64	0	0	0	0	0	0	0	0
Dead Man's Pond Variation Area	Proposed Blue Route	0	0	0	0	2	83	0	0	0	0	0	0	0	0
	Dead Man's Pond Variation	0	0	0	0	2	100	0	0	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	1	20	0	0	4	79	0	0	0	0	0	0	0	0
	Proposed Orange Route	1	17	1	19	4	63	0	0	0	0	0	0	0	0

Dataset ⁽¹⁾		Corridor Sharing ⁽⁸⁾													
Type		Road and Trail and PLSS and Field Line		Road and PLSS and Field Line		Transmission Line and PLSS		Transmission Line and Trail and PLSS		Road and PLSS		Transmission Line and PLSS and Field Line		Road and Transmission Line and PLSS and Field Line	
Unit		Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length
Buffer ⁽²⁾ (ft)		--	--	--	--	--	--	--	--	--	--	--	--	--	--
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	0	0	6	23	0	0	0	0	0	0	0	0	0	0
	Border Crossing Pine Creek Variation	<0.5	1	6	22	0	0	0	0	<0.5	1	0	0	0	0
	Border Crossing Hwy 310 Variation	0	0	2	12	0	0	0	0	0	0	0	0	0	0
	Border Crossing 500kV Variation	0	0	0	0	2	17	0	0	0	0	1	7	2	20
	Border Crossing 230kV Variation	0	0	0	0	2	30	0	0	0	0	0	0	0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	0	0	6	19	4	12	0	0	0	0	1	4	1	4
	Roseau Lake WMA Variation 1	<0.5	1	1	2	0	0	0	0	<0.5	1	0	0	0	0
	Roseau Lake WMA Variation 2	<0.5	1	5	14	4	10	0	0	<0.5	1	1	3	1	3
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	0	0	0	0	4	18	3	12	0	0	1	5	1	4
	Cedar Bend WMA Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami North Variation Area	Proposed Blue/Orange Route	0	0	0	0	1	4	3	18	0	0	0	0	0	0
	Beltrami North Variation 1	0	0	0	0	1	4	3	19	0	0	0	0	0	0
	Beltrami North Variation 2	0	0	0	0	1	3	3	15	0	0	0	0	0	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pine Island Variation Area	Proposed Blue Route	0	0	0	0	8	7	0	0	0	0	3	2	1	1
	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami South Central Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Central Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami South Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Black River Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	North Black River Variation	0	0	0	0	0	0	0	0	0	0	0	0	1	12
C2 Segment Option Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	C2 Segment Option Variation	0	0	0	0	4	8	0	0	0	0	2	4	0	0
J2 Segment Option Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	J2 Segment Option Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northome Variation Area	J2 Segment Option Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Northome Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cutfoot Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cutfoot Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Effie Variation	0	0	0	0	13	25	<0.5	1	0	0	0	0	0	0
East Bear Lake Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	East Bear Lake Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Balsam Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Balsam Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dead Man's Pond Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Dead Man's Pond Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Dataset ⁽¹⁾		Corridor Sharing ⁽⁸⁾											
Type		PLSS and Field Line		Transmission Line and Field Line		Road and Transmission Line and Trail and PLSS		Road only		Trail and PLSS		Trail only	
Unit		Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length
Buffer ⁽²⁾ (ft)		--	--	--	--	--	--	--	--	--	--	--	--
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Border Crossing Pine Creek Variation	0	0	0	0	0	0	0	0	0	0	0	0
	Border Crossing Hwy 310 Variation	0	0	0	0	0	0	0	0	0	0	0	0
	Border Crossing 500kV Variation	0	0	0	0	0	0	0	0	0	0	0	0
	Border Crossing 230kV Variation	0	0	0	0	0	0	0	0	0	0	0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Roseau Lake WMA Variation 1	4	9	<0.5	<0.5	0	0	0	0	0	0	0	0
	Roseau Lake WMA Variation 2	5	13	0	0	0	0	0	0	0	0	0	0
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Cedar Bend WMA Variation	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami North Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Variation 1	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Variation 2	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 1	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 2	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 3	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 4	0	0	0	0	0	0	0	0	0	0	0	0
Pine Island Variation Area	Proposed Blue Route	0	0	1	1	0	0	1	1	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami South Central Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Central Variation	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami South Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Variation	0	0	0	0	0	0	0	0	0	0	0	0
North Black River Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0
	North Black River Variation	0	0	0	0	<0.5	4	0	0	0	0	0	0
C2 Segment Option Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0
	C2 Segment Option Variation	0	0	<0.5	1	0	0	0	0	0	0	0	0
J2 Segment Option Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	J2 Segment Option Variation	1	1	0	0	0	0	0	0	0	0	0	0
Northome Variation Area	J2 Segment Option Variation	0	0	0	0	0	0	0	0	0	0	0	0
	Northome Variation	0	0	0	0	0	0	0	0	0	0	0	0
Cutfoot Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Cutfoot Variation	0	0	0	0	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue Route	0	0	0	0	0	0	1	2	1	2	0	0
	Proposed Orange Route	0	0	0	0	0	0	1	2	0	0	0	0
	Effie Variation	0	0	0	0	0	0	0	0	0	0	0	0
East Bear Lake Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	East Bear Lake Variation	0	0	0	0	0	0	0	0	0	0	0	0
Balsam Variation Area	Proposed Blue Route	0	0	0	0	0	0	<0.5	3	0	0	<0.5	3
	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	<0.5	3
	Balsam Variation	0	0	0	0	0	0	0	0	0	0	6	36
Dead Man's Pond Variation Area	Proposed Blue Route	0	0	0	0	0	0	<0.5	17	0	0	0	0
	Dead Man's Pond Variation	0	0	0	0	0	0	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	<0.5	2
	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0

Dataset ⁽¹⁾		Residences						Churches		Commercial & Non-Residential Structures		Cemeteries		Private Airstrips		
Unit		Count						Count		Count		Count		Count		
Buffer ⁽²⁾ (ft)		100	150	200	500	1,000	1,500	100	1,500	100	1,500	100	1,500	100	1,500	5,280
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	0	0	0	2	2	3	0	0	0	5	0	0	0	0	0
	Border Crossing Pine Creek Variation	0	0	0	2	3	4	0	0	0	12	0	1	0	0	0
	Border Crossing Hwy 310 Variation	0	0	0	0	0	1	0	0	0	5	0	0	0	0	1
	Border Crossing 500kV Variation	0	0	0	0	0	3	0	0	0	6	0	0	0	0	0
	Border Crossing 230kV Variation	0	0	0	0	1	5	0	0	0	12	0	0	0	0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	0	0	0	2	5	12	0	0	0	24	0	0	0	0	0
	Roseau Lake WMA Variation 1	0	0	0	3	19	50	0	0	0	233	0	0	0	0	1
	Roseau Lake WMA Variation 2	0	0	0	0	8	23	0	0	0	89	0	0	0	0	0
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	0	0	0	0	5	11	0	0	0	28	0	0	0	0	0
	Cedar Bend WMA Variation	0	3	6	16	52	101	0	0	2	153	0	0	0	0	0
Beltrami North Variation Area	Proposed Blue/Orange Route	0	0	0	0	2	3	0	0	0	16	0	0	0	0	0
	Beltrami North Variation 1	0	0	0	0	0	6	0	0	0	24	0	0	0	0	0
	Beltrami North Variation 2	0	0	0	0	0	1	0	0	2	9	0	0	0	0	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route	0	0	0	1	2	3	0	0	0	6	0	0	0	0	0
	Beltrami North Central Variation 1	0	0	0	0	0	2	0	0	0	9	0	0	0	0	0
	Beltrami North Central Variation 2	0	0	0	1	1	2	0	0	0	6	0	0	0	0	0
	Beltrami North Central Variation 3	0	0	0	1	1	4	0	0	0	11	0	0	0	0	0
	Beltrami North Central Variation 4	0	0	0	3	5	10	0	0	3	26	0	0	0	0	0
	Beltrami North Central Variation 5	0	0	0	2	4	8	0	0	3	24	0	0	0	0	0
Pine Island Variation Area	Proposed Blue Route	0	0	0	1	9	14	0	0	1	24	0	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	2	0	0	0	14	0	0	0	0	1
Beltrami South Central Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Central Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami South Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Variation	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
North Black River Variation Area	Proposed Blue Route	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	North Black River Variation	0	0	1	3	4	5	0	0	0	12	0	0	0	0	0
C2 Segment Option Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	C2 Segment Option Variation	0	0	1	4	14	29	0	1	0	83	0	0	0	0	1
J2 Segment Option Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1
	J2 Segment Option Variation	0	0	0	1	5	6	0	0	0	12	0	0	0	0	0
Northome Variation Area	J2 Segment Option Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Northome Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cutfoot Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cutfoot Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue Route	0	0	0	0	1	4	0	0	0	10	0	0	0	0	0
	Proposed Orange Route	0	0	0	1	2	5	0	0	0	7	0	0	0	0	0
	Effie Variation	0	0	0	1	10	14	0	0	0	13	0	0	0	0	0
East Bear Lake Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	East Bear Lake Variation	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Balsam Variation Area	Proposed Blue Route	0	0	0	0	3	7	0	0	0	8	0	0	0	0	0
	Proposed Orange Route	0	0	0	2	10	21	0	0	0	34	0	0	0	0	0
	Balsam Variation	0	0	0	2	5	11	0	1	0	36	0	0	0	0	0
Dead Man's Pond Variation Area	Proposed Blue Route	0	0	0	0	1	2	0	0	0	4	0	0	0	0	0
	Dead Man's Pond Variation	0	0	0	0	1	4	0	0	0	8	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	0	0	0	2	6	11	0	0	0	21	0	0	0	0	0
	Proposed Orange Route	0	0	0	0	5	22	0	0	0	42	0	0	0	0	0

Dataset ⁽¹⁾		Historic Architectural Sites			Archaeological Sites			Communication Towers		State Aggregate Sources		MPCA Impaired Streams		National Hydrology Dataset Flowlines	
Unit		Count			Count			Count		Count		Count		Count	
Buffer ⁽²⁾ (ft)		100	1,500	5,280	100	1,500	5,280	100	1,500	100	1,500	100	1,500	100	1,500
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	0	0	0	0	0	2	0	0	0	0	1	1	19	44
	Border Crossing Pine Creek Variation	0	0	0	1	2	2	0	0	0	0	1	1	24	56
	Border Crossing Hwy 310 Variation	0	1	1	0	0	0	0	0	0	0	1	1	18	37
	Border Crossing 500kV Variation	0	0	0	1	1	1	0	0	0	0	0	0	8	16
	Border Crossing 230kV Variation	0	0	0	0	0	0	0	0	0	0	0	0	11	20
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	0	0	2	0	0	1	1	24	47
	Roseau Lake WMA Variation 1	0	1	1	0	3	9	0	2	0	1	2	2	49	106
	Roseau Lake WMA Variation 2	0	1	2	0	3	10	0	2	0	0	1	1	42	87
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	2	0	2	0	0	2	2	16	35
	Cedar Bend WMA Variation	0	0	8	1	2	3	0	3	0	0	3	3	19	30
Beltrami North Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	2	0	0	0	0	2	2	11	26
	Beltrami North Variation 1	0	0	0	0	0	0	0	0	0	0	2	2	8	23
	Beltrami North Variation 2	0	0	2	1	2	4	0	0	0	0	2	2	14	29
Beltrami North Central Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	6	11
	Beltrami North Central Variation 1	0	0	0	0	0	0	0	0	0	0	0	0	8	13
	Beltrami North Central Variation 2	0	0	0	0	0	0	0	0	0	0	0	0	6	10
	Beltrami North Central Variation 3	0	0	0	0	0	0	0	0	0	0	0	0	6	14
	Beltrami North Central Variation 4	0	0	1	0	0	0	0	0	0	0	0	0	9	24
Beltrami North Central Variation 5	0	0	1	0	0	0	0	0	0	0	0	0	11	23	
Pine Island Variation Area	Proposed Blue Route	0	2	2	0	1	1	0	0	0	2	1	1	60	109
	Proposed Orange Route	0	0	7	0	0	1	0	0	2	4	1	2	63	100
Beltrami South Central Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	Beltrami South Central Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami South Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	1
North Black River Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	4	8
	North Black River Variation	0	0	0	0	0	0	0	0	0	0	0	0	11	12
C2 Segment Option Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	1	1	17	28
	C2 Segment Option Variation	0	0	0	0	0	1	0	1	0	0	2	2	8	18
J2 Segment Option Variation Area	Proposed Orange Route	0	0	2	0	0	1	0	0	2	4	0	0	31	44
	J2 Segment Option Variation	0	2	7	0	0	1	0	1	1	4	0	0	25	39
Northome Variation Area	J2 Segment Option Variation	0	0	0	0	0	1	0	0	0	0	0	0	0	3
	Northome Variation	0	0	0	0	1	1	0	0	0	1	0	0	2	2
Cutfoot Variation Area	Proposed Orange Route	0	0	0	0	0	1	0	0	1	2	0	0	1	4
	Cutfoot Variation	0	0	0	0	0	0	0	0	1	2	0	0	0	3
Effie Variation Area	Proposed Blue Route	0	1	1	0	0	1	0	0	0	2	0	0	13	19
	Proposed Orange Route	0	1	1	0	0	1	0	0	0	2	0	0	14	19
	Effie Variation	0	0	3	1	2	3	0	0	0	1	0	0	19	38
East Bear Lake Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	2	5
	East Bear Lake Variation	0	0	0	0	0	0	0	0	0	1	0	0	5	6
Balsam Variation Area	Proposed Blue Route	0	0	13	0	0	2	0	0	0	0	0	0	6	12
	Proposed Orange Route	0	0	24	0	0	1	0	0	0	0	0	0	9	19
	Balsam Variation	0	4	28	0	1	2	0	0	0	0	0	0	7	17
Dead Man's Pond Variation Area	Proposed Blue Route	0	0	1	0	0	2	0	0	0	0	0	0	0	3
	Dead Man's Pond Variation	0	0	1	0	0	1	0	0	0	0	0	0	0	3
Blackberry Variation Area	Proposed Blue Route	0	0	6	0	0	0	0	1	0	0	1	1	1	5
	Proposed Orange Route	0	0	1	0	0	0	0	1	0	1	1	1	3	5

	Dataset ⁽¹⁾	National Hydrology Dataset Waterbodies		MnDNR Public Water Inventory Watercourses		MnDNR Public Water Inventory Basins		MnDNR Public Water Inventory Wetlands		MnDNR Trout Streams		MnDNR Shallow Lakes		MnDNR Wild Rice Lakes		State Trails		County/Local Parks	
		Unit	Count		Count		Count		Count		Count		Count		Count		Count		
		Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Border Crossing Pine Creek Variation	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Border Crossing Hwy 310 Variation	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Border Crossing 500kV Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roseau Lake WMA Variation Area	Border Crossing 230kV Variation	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Blue/Orange Route	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Roseau Lake WMA Variation 1	2	23	7	9	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Cedar Bend WMA Variation Area	Roseau Lake WMA Variation 2	0	7	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Blue/Orange Route	1	7	3	3	1	1	0	0	0	0	1	1	0	0	0	0	0	0
Beltrami North Variation Area	Cedar Bend WMA Variation	1	7	5	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Blue/Orange Route	1	5	3	3	1	1	0	0	0	0	1	1	0	0	0	0	0	0
Beltrami North Central Variation Area	Beltrami North Variation 1	0	4	3	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0
	Beltrami North Variation 2	1	1	2	3	1	1	0	0	0	0	1	1	0	0	0	0	0	0
	Proposed Blue/Orange Route	1	10	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Pine Island Variation Area	Beltrami North Central Variation 1	0	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 2	0	7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 3	1	5	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 4	1	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 5	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami South Central Variation Area	Proposed Blue Route	6	30	17	17	1	1	0	0	1	1	0	0	0	0	1	1	0	0
	Proposed Orange Route	8	49	15	20	0	1	0	0	0	0	0	0	0	0	1	1	0	0
Beltrami South Variation Area	Proposed Orange Route	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Variation	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Black River Variation Area	Proposed Orange Route	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C2 Segment Option Variation Area	Proposed Blue Route	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	North Black River Variation	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
J2 Segment Option Variation Area	Proposed Blue Route	1	3	5	5	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	C2 Segment Option Variation	2	20	3	3	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Northome Variation Area	Proposed Orange Route	7	32	6	10	0	1	0	0	0	0	0	0	0	0	1	1	0	0
	J2 Segment Option Variation	9	44	3	6	0	5	0	1	0	0	0	2	0	0	1	1	0	0
Cutfoot Variation Area	J2 Segment Option Variation	3	9	0	1	0	1	0	1	0	0	0	1	0	0	0	0	0	0
	Northome Variation	2	6	1	2	1	3	0	1	0	0	1	1	0	0	0	0	0	0
Effie Variation Area	Proposed Orange Route	3	8	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cutfoot Variation	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East Bear Lake Variation Area	Proposed Blue Route	7	35	8	8	2	2	1	2	0	0	0	0	0	0	1	1	0	1
	Proposed Orange Route	6	42	7	9	3	4	0	1	0	0	0	0	0	0	1	1	0	1
	Effie Variation	7	37	9	16	1	3	0	1	6	9	0	0	0	0	1	1	0	0
Balsam Variation Area	Proposed Orange Route	0	6	2	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	East Bear Lake Variation	0	6	2	3	0	1	0	0	0	1	0	0	0	0	1	1	0	0
Dead Man's Pond Variation Area	Proposed Blue Route	1	9	5	6	0	3	1	4	0	0	0	2	1	1	0	0	0	0
	Proposed Orange Route	0	4	4	4	0	2	0	1	0	0	0	1	0	0	0	0	0	0
	Balsam Variation	1	19	3	3	0	4	0	3	0	0	0	2	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	0	1	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0
	Dead Man's Pond Variation	0	2	0	2	0	2	0	1	0	0	0	0	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	0	3	1	3	0	1	0	0	0	0	0	1	0	0	0	0	0	0
	Proposed Orange Route	0	10	2	3	1	3	0	1	0	0	0	1	0	0	0	0	0	0

Dataset ⁽¹⁾		State Forests		USDA-USFS National Forest		State Scenic Byways		Snowmobile Trails		Water Access Points		State Water Trails		MnDNR Scientific and Natural Areas		MnDNR NHIS Database Records (Endangered, Threatened, and Special Concern) ⁽⁹⁾		
Unit		Count		Count		Count		Count		Count		Count		Count		Count		
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	5,280
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	1	1	0	0	0	1	1	1	0	0	0	0	0	1	3	5	14
	Border Crossing Pine Creek Variation	1	1	0	0	0	1	1	1	0	0	0	0	0	0	3	3	10
	Border Crossing Hwy 310 Variation	1	1	0	0	0	1	1	1	0	0	0	0	0	0	1	2	5
	Border Crossing 500kV Variation	1	1	0	0	0	1	1	1	0	0	0	0	0	0	2	3	3
	Border Crossing 230kV Variation	1	1	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	1	1	0	0	1	1	1	1	0	0	0	0	0	0	3	3	7
	Roseau Lake WMA Variation 1	1	1	0	0	1	1	1	1	0	0	0	0	0	0	1	4	4
	Roseau Lake WMA Variation 2	1	1	0	0	1	1	1	1	0	0	0	0	0	0	1	4	5
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	1	2	0	0	1	1	2	2	0	0	0	0	0	0	0	1	5
	Cedar Bend WMA Variation	2	2	0	0	1	1	2	2	0	0	0	0	0	0	0	0	1
Beltrami North Variation Area	Proposed Blue/Orange Route	1	2	0	0	0	0	2	2	0	0	0	0	0	0	0	1	5
	Beltrami North Variation 1	1	2	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2
	Beltrami North Variation 2	1	2	0	0	0	0	2	2	0	0	0	0	0	0	0	3	20
Beltrami North Central Variation Area	Proposed Blue/Orange Route	2	2	0	0	0	0	1	1	0	0	0	0	0	0	0	1	9
	Beltrami North Central Variation 1	2	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	12
	Beltrami North Central Variation 2	2	2	0	0	0	0	1	1	0	0	0	0	0	0	0	1	7
	Beltrami North Central Variation 3	2	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	5
	Beltrami North Central Variation 4	2	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 5	2	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	7
Pine Island Variation Area	Proposed Blue Route	4	4	0	0	0	0	3	3	0	0	1	1	0	1	1	3	16
	Proposed Orange Route	6	6	0	0	0	0	4	4	0	0	1	1	0	1	3	9	21
Beltrami South Central Variation Area	Proposed Orange Route	2	2	0	0	0	0	1	1	0	0	0	0	0	0	0	3	8
	Beltrami South Central Variation	2	2	0	0	0	0	1	1	0	0	0	0	0	0	0	3	8
Beltrami South Variation Area	Proposed Orange Route	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	Beltrami South Variation	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
North Black River Variation Area	Proposed Blue Route	1	1	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0
	North Black River Variation	1	1	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0
C2 Segment Option Variation Area	Proposed Blue Route	2	2	0	0	0	0	2	2	0	0	1	1	0	0	0	0	4
	C2 Segment Option Variation	3	3	0	0	0	0	1	1	0	0	1	1	0	1	0	1	4
J2 Segment Option Variation Area	Proposed Orange Route	3	3	0	0	0	0	2	2	0	0	0	0	0	0	0	0	4
	J2 Segment Option Variation	2	2	0	0	2	2	3	4	0	0	0	0	0	0	0	0	1
Northome Variation Area	J2 Segment Option Variation	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Northome Variation	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Cutfoot Variation Area	Proposed Orange Route	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cutfoot Variation	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue Route	2	2	0	0	0	0	4	5	0	0	0	0	0	0	0	2	5
	Proposed Orange Route	2	2	0	0	0	0	6	6	0	0	0	0	0	0	0	3	7
	Effie Variation	2	2	0	0	0	0	4	4	0	1	0	0	0	0	0	1	2
East Bear Lake Variation Area	Proposed Orange Route	1	1	0	0	0	0	3	3	0	0	0	0	0	0	0	1	3
	East Bear Lake Variation	1	1	0	0	0	0	3	3	0	1	0	0	0	0	0	2	2
Balsam Variation Area	Proposed Blue Route	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	2
	Proposed Orange Route	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	2
	Balsam Variation	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	2
Dead Man's Pond Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Dead Man's Pond Variation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
	Proposed Orange Route	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	3

Dataset ⁽¹⁾		MnDNR Colonial Waterbird Nesting Sites			MnDNR High Conservation Value Forest		MnDNR Scientific and Natural Area Peatland Watershed Protection Areas		MnDNR Calcareous Fens			MPCA What's in My Neighborhood Sites (Active and Inactive)	
Unit		Count			Count		Count		Count			Count	
Buffer ⁽²⁾ (ft)		100	1,500	5,280	100	1,500	100	1,500	100	1,500	5,280	100	1,500
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	0	0	0	1	2	2	2	0	0	1	0	0
	Border Crossing Pine Creek Variation	0	0	0	1	2	2	2	0	0	0	0	0
	Border Crossing Hwy 310 Variation	0	0	0	1	1	1	1	0	0	0	0	1
	Border Crossing 500kV Variation	0	0	0	0	0	0	0	0	0	0	0	0
Roseau Lake WMA Variation Area	Border Crossing 230kV Variation	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Blue/Orange Route	0	0	0	1	2	2	2	0	0	0	0	0
	Roseau Lake WMA Variation 1	0	0	0	1	1	1	1	0	0	0	0	2
Cedar Bend WMA Variation Area	Roseau Lake WMA Variation 2	0	0	0	1	1	1	1	0	0	0	0	1
	Proposed Blue/Orange Route	0	0	0	1	1	0	0	0	0	0	0	0
Beltrami North Variation Area	Cedar Bend WMA Variation	0	0	0	0	0	0	0	0	0	0	0	1
	Proposed Blue/Orange Route	0	0	0	1	1	0	0	0	0	0	0	0
Beltrami North Central Variation Area	Beltrami North Variation 1	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Variation 2	0	0	0	1	1	0	1	0	0	0	0	0
	Proposed Blue/Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
Pine Island Variation Area	Beltrami North Central Variation 1	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 2	0	0	0	0	0	1	1	0	0	0	0	0
	Beltrami North Central Variation 3	0	0	0	0	0	0	0	0	0	0	0	1
	Beltrami North Central Variation 4	0	0	0	0	0	0	0	0	0	0	0	2
	Beltrami North Central Variation 5	0	0	0	0	0	0	0	0	0	0	0	1
Beltrami South Central Variation Area	Proposed Blue Route	0	2	2	0	0	2	2	0	0	0	0	4
	Proposed Orange Route	0	0	0	0	0	2	2	0	0	1	1	3
Beltrami South Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Central Variation	0	0	0	0	0	0	0	0	0	0	0	0
North Black River Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Beltrami South Variation	0	0	0	0	0	0	0	0	0	0	0	0
C2 Segment Option Variation Area	Proposed Blue Route	0	0	0	0	0	1	1	0	0	0	0	0
	C2 Segment Option Variation	0	0	0	0	0	1	1	0	0	0	0	0
J2 Segment Option Variation Area	Proposed Orange Route	0	0	0	0	0	0	1	0	0	0	1	3
	J2 Segment Option Variation	1	2	2	0	0	0	0	0	0	0	1	2
Northome Cutfoot Variation Area	J2 Segment Option Variation	0	0	1	0	0	0	0	0	0	0	0	0
	Northome Variation	0	0	2	0	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Cutfoot Variation	0	0	0	0	0	0	0	0	0	0	0	0
East Bear Lake Variation Area	Proposed Blue Route	0	2	3	0	0	0	0	0	0	0	0	3
	Proposed Orange Route	0	2	3	0	0	0	0	0	0	0	0	3
	Effie Variation	0	1	2	0	0	0	0	0	0	0	0	0
Balsam Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	East Bear Lake Variation	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	1
Dead Man's Pond Blackberry Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	1
	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0
Blackberry Variation Area	Dead Man's Pond Variation	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0
Blackberry Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0

Dataset ⁽¹⁾		Minnesota Department of Health County Well Index		MnDNR Wildlife Management Areas		USFWS Interest Lands			MnDNR Gray Owl Management Area	
Unit		Count		Count		Count			Count	
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	150	1,500	100	1,500
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	0	0	1	1	0	0	0	0	0
	Border Crossing Pine Creek Variation	0	0	1	1	0	0	0	0	0
	Border Crossing Hwy 310 Variation	0	3	0	0	0	0	0	0	1
	Border Crossing 500kV Variation	0	0	0	0	0	0	0	0	0
	Border Crossing 230kV Variation	0	2	0	0	0	0	0	0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	0	0	2	2	0	0	0	0	0
	Roseau Lake WMA Variation 1	0	13	0	0	0	0	1	0	0
	Roseau Lake WMA Variation 2	0	6	1	2	0	0	0	0	0
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	0	0	1	1	1	1	5	0	0
	Cedar Bend WMA Variation	0	10	1	1	0	0	0	0	0
Beltrami North Variation Area	Proposed Blue/Orange Route	0	0	0	0	1	1	5	0	0
	Beltrami North Variation 1	0	0	0	0	0	0	5	0	0
	Beltrami North Variation 2	0	0	0	0	0	0	9	0	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route	0	0	0	0	3	5	7	0	0
	Beltrami North Central Variation 1	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 2	0	0	0	0	2	2	11	0	0
	Beltrami North Central Variation 3	0	0	0	0	0	0	0	0	0
	Beltrami North Central Variation 4	0	0	0	0	0	0	1	0	0
Pine Island Variation Area	Proposed Blue Route	2	14	1	2	1	1	1	0	0
	Proposed Orange Route	0	2	1	1	2	3	5	0	0
Beltrami South Central Variation Area	Proposed Orange Route	0	0	0	0	2	2	2	0	0
	Beltrami South Central Variation	0	0	0	0	0	0	2	0	0
Beltrami South Variation Area	Proposed Orange Route	0	0	0	0	0	1	1	0	0
	Beltrami South Variation	0	1	0	0	0	0	3	0	0
North Black River Variation Area	Proposed Blue Route	1	11	0	0	0	0	0	0	0
	North Black River Variation	0	2	0	0	0	0	0	0	0
C2 Segment Option Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0
	C2 Segment Option Variation	0	3	0	0	0	0	0	0	0
J2 Segment Option Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0
	J2 Segment Option Variation	0	4	0	0	1	1	1	0	0
Northome Variation Area	J2 Segment Option Variation	0	1	0	0	1	1	1	0	0
	Northome Variation	0	1	0	0	0	0	0	0	0
Cutfoot Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0
	Cutfoot Variation	0	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue Route	1	2	0	0	0	0	0	0	0
	Proposed Orange Route	4	25	0	0	0	0	0	0	0
	Effie Variation	0	14	0	0	0	0	0	0	0
East Bear Lake Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0
	East Bear Lake Variation	0	2	0	0	0	0	0	0	0
Balsam Variation Area	Proposed Blue Route	0	17	0	0	0	0	0	0	0
	Proposed Orange Route	0	16	0	0	0	0	0	0	0
	Balsam Variation	1	107	0	0	0	0	0	0	0
Dead Man's Pond Variation Area	Proposed Blue Route	0	1	0	0	0	0	0	0	0
	Dead Man's Pond Variation	0	0	0	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	0	3	0	0	0	0	0	0	0
	Proposed Orange Route	0	6	0	0	0	0	0	0	0

Datasets ⁽¹⁾		State Mineral Leases	County Lands	MPCA Impaired Streams	National Hydrology Dataset Flowlines	National Hydrology Dataset Waterbodies	MnDNR Public Water Inventory Watercourses	MnDNR Public Water Inventory Basins	MnDNR Public Water Inventory Wetlands	MnDNR Trout Streams
Unit		Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	0	0	1	19	0	2	0	0	0
	Border Crossing Pine Creek Variation	0	0	1	25	0	3	0	0	0
	Border Crossing Hwy 310 Variation	0	0	1	17	0	2	0	0	0
	Border Crossing 500kV Variation	0	0	0	7	0	0	0	0	0
	Border Crossing 230kV Variation	0	0	0	9	0	0	0	0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	0	0	1	24	0	2	0	0	0
	Roseau Lake WMA Variation 1	0	0	2	47	1	10	0	0	0
	Roseau Lake WMA Variation 2	0	0	2	36	0	3	0	0	0
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	18	0	2	14	1	3	1	0	0
	Cedar Bend WMA Variation	0	0	3	16	0	5	0	0	0
Beltrami North Variation Area	Proposed Blue/Orange Route	18	0	2	9	1	3	1	0	0
	Beltrami North Variation 1	18	0	8	13	0	9	0	0	0
	Beltrami North Variation 2	31	0	2	14	0	2	1	0	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route	0	0	0	4	1	0	0	0	0
	Beltrami North Central Variation 1	0	0	0	7	0	3	0	0	0
	Beltrami North Central Variation 2	0	0	0	6	0	1	0	0	0
	Beltrami North Central Variation 3	0	0	0	5	1	2	0	0	0
	Beltrami North Central Variation 4	0	0	0	8	1	2	0	0	0
	Beltrami North Central Variation 5	0	0	0	10	0	3	0	0	0
Pine Island Variation Area	Proposed Blue Route	230	1	1	60	5	17	1	0	1
	Proposed Orange Route	80	0	1	65	6	25	0	0	0
Beltrami South Central Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0
	Beltrami South Central Variation	0	0	0	0	0	0	0	0	0
Beltrami South Variation Area	Proposed Orange Route	15	0	0	0	0	0	0	0	0
	Beltrami South Variation	55	0	0	0	0	0	0	0	0
North Black River Variation Area	Proposed Blue Route	76	0	0	3	1	0	0	0	0
	North Black River Variation	63	0	0	4	0	0	0	0	0
C2 Segment Option Variation Area	Proposed Blue Route	3	0	1	16	1	5	0	0	0
	C2 Segment Option Variation	11	2	2	7	1	3	0	0	0
J2 Segment Option Variation Area	Proposed Orange Route	19	0	0	25	5	6	0	0	0
	J2 Segment Option Variation	16	0	0	29	10	3	0	0	0
Northhome Variation Area	J2 Segment Option Variation	0	0	0	0	6	0	0	0	0
	Northhome Variation	0	0	0	1	1	0	1	0	0
Cutfoot Variation Area	Proposed Orange Route	7	0	0	0	2	0	0	0	0
	Cutfoot Variation	1	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue Route	135	2	0	15	4	9	1	0	0
	Proposed Orange Route	170	1	0	19	5	11	2	0	0
	Effie Variation	155	0	0	22	6	13	0	0	6
East Bear Lake Variation Area	Proposed Orange Route	20	0	0	4	0	4	0	0	0
	East Bear Lake Variation	35	0	0	5	0	2	0	0	0
Balsam Variation Area	Proposed Blue Route	0	0	0	7	1	6	0	1	0
	Proposed Orange Route	0	0	0	9	0	5	0	0	0
	Balsam Variation	20	0	0	6	1	4	0	0	0
Dead Man's Pond Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0
	Dead Man's Pond Variation	0	0	0	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	8	0	1	1	0	1	0	0	0
	Proposed Orange Route	12	0	1	2	0	2	1	0	0

Datasets ⁽¹⁾		MnDNR Shallow Lakes	MnDNR Wild Rice Lakes	State Trails	State Forests	USDA-USFS National Forest	State Scenic Byways	Snowmobile Trails	State Water Trails	MnDNR Scientific and Natural Areas	MnDNR High Conservation Value Forest	MnDNR Scientific and Natural Area Peatland Watershed Protection Areas
Unit		Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	0	0	0	9		0	3	0		2	4
	Border Crossing Pine Creek Variation	0	0	0	9		0	3	0		2	4
	Border Crossing Hwy 310 Variation	0	0	0	7		0	3	0		2	2
	Border Crossing 500kV Variation	0	0	0	3		0	1	0		0	0
	Border Crossing 230kV Variation	0	0	0	2		0	1	0		0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	0	0	0	8		1	3	0		1	3
	Roseau Lake WMA Variation 1	0	0	0	1		1	6	0		1	1
	Roseau Lake WMA Variation 2	0	0	0	5		1	6	0		1	1
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	1	0	0	4		1	4	0		2	0
	Cedar Bend WMA Variation	0	0	0	3		1	3	0		0	0
Beltrami North Variation Area	Proposed Blue/Orange Route	1	0	0	4		0	3	0		2	0
	Beltrami North Variation 1	0	0	0	5		0	4	0		0	0
	Beltrami North Variation 2	1	0	0	3		0	9	0		2	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route	0	0	0	4		0	2	0		0	0
	Beltrami North Central Variation 1	0	0	0	11		0	2	0		0	0
	Beltrami North Central Variation 2	0	0	0	4		0	2	0		0	1
	Beltrami North Central Variation 3	0	0	0	15		0	2	0		0	0
	Beltrami North Central Variation 4	0	0	0	17		0	2	0		0	0
Pine Island Variation Area	Proposed Blue Route	0	0	1	23		0	12	1		0	2
	Proposed Orange Route	0	0	1	20		0	10	1		0	2
Beltrami South Central Variation Area	Proposed Orange Route	0	0	0	2		0	0	0		0	0
	Beltrami South Central Variation	0	0	0	2		0	0	0		0	0
Beltrami South Variation Area	Proposed Orange Route	0	0	0	1		0	0	0		0	0
	Beltrami South Variation	0	0	0	1		0	0	0		0	0
North Black River Variation Area	Proposed Blue Route	0	0	0	3		0	2	0		0	1
	North Black River Variation	0	0	0	4		0	2	0		0	1
C2 Segment Option Variation Area	Proposed Blue Route	0	0	1	2		0	5	1		0	0
	C2 Segment Option Variation	0	0	1	5		0	1	1		0	3
J2 Segment Option Variation Area	Proposed Orange Route	0	0	1	7		0	7	0		0	0
	J2 Segment Option Variation	0	0	1	4		2	3	0		0	0
Northhome Variation Area	J2 Segment Option Variation	0	0	0	1		0	0	0		0	0
	Northhome Variation	1	0	0	1		0	0	0		0	0
Cutfoot Variation Area	Proposed Orange Route	0	0	0	3		0	0	0		0	0
	Cutfoot Variation	0	0	0	3		0	0	0		0	0
Effie Variation Area	Proposed Blue Route	0	0	1	7		0	7	0		0	0
	Proposed Orange Route	0	0	1	7		0	8	0		0	0
	Effie Variation	0	0	1	4		0	4	0		0	0
East Bear Lake Variation Area	Proposed Orange Route	0	0	1	1		0	3	0		0	0
	East Bear Lake Variation	0	0	1	2		0	3	0		0	0
Balsam Variation Area	Proposed Blue Route	0	1	0	0		0	2	0		0	0
	Proposed Orange Route	0	0	0	0		0	4	0		0	0
	Balsam Variation	0	0	0	0		0	6	0		0	0
Dead Man's Pond Variation Area	Proposed Blue Route	0	0	0	0		0	0	0		0	0
	Dead Man's Pond Variation	0	0	0	0		0	0	0		0	0
Blackberry Variation Area	Proposed Blue Route	0	0	0	0		0	2	0		0	0
	Proposed Orange Route	0	0	0	0		0	6	0		0	0

Datasets ⁽¹⁾		MnDNR Ecologically Important Lowland Conifer Areas	MnDNR Wildlife Management Areas	Minnesota Department of Health Wellhead Protection Areas	USFWS Interest Lands	Audubon Society Important Bird Areas	USFWS Grassland Bird Conservation Areas
Unit		Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings
Border Crossing Variation Area	Proposed Border Crossing-Blue/Orange Route	0	1	0	0	0	6
	Border Crossing Pine Creek Variation	0	1	0	0	0	6
	Border Crossing Hwy 310 Variation	0	0	0	0	0	6
	Border Crossing 500kV Variation	0	0	0	0	0	0
	Border Crossing 230kV Variation	0	0	0	0	0	0
Roseau Lake WMA Variation Area	Proposed Blue/Orange Route	0	3	0	0	0	10
	Roseau Lake WMA Variation 1	0	0	0	0	0	4
	Roseau Lake WMA Variation 2	0	2	0	0	0	14
Cedar Bend WMA Variation Area	Proposed Blue/Orange Route	0	2	0	1	0	4
	Cedar Bend WMA Variation	0	1	0	0	0	1
Beltrami North Variation Area	Proposed Blue/Orange Route	0	0	0	1	0	0
	Beltrami North Variation 1	0	0	0	0	0	0
	Beltrami North Variation 2	0	0	0	0	1	0
Beltrami North Central Variation Area	Proposed Blue/Orange Route	0	0	0	2	2	0
	Beltrami North Central Variation 1	0	0	0	0	1	0
	Beltrami North Central Variation 2	0	0	0	1	2	0
	Beltrami North Central Variation 3	0	0	0	0	1	0
	Beltrami North Central Variation 4	0	0	0	0	1	0
Pine Island Variation Area	Proposed Blue Route	7	1	0	1	9	0
	Proposed Orange Route	1	4	0	2	8	0
Beltrami South Central Variation Area	Proposed Orange Route	0	0	0	2	1	0
	Beltrami South Central Variation	0	0	0	0	1	0
Beltrami South Variation Area	Proposed Orange Route	0	0	0	0	1	0
	Beltrami South Variation	0	0	0	0	1	0
North Black River Variation Area	Proposed Blue Route	0	0	0	0	1	0
	North Black River Variation	0	0	0	0	1	0
C2 Segment Option Variation Area	Proposed Blue Route	2	0	0	0	1	0
	C2 Segment Option Variation	1	0	0	0	1	0
J2 Segment Option Variation Area	Proposed Orange Route	0	0	0	0	2	0
	J2 Segment Option Variation	0	0	0	1	2	0
Northome Variation Area	J2 Segment Option Variation	0	0	0	1	0	0
	Northome Variation	0	0	0	0	0	0
Cutfoot Variation Area	Proposed Orange Route	0	0	0	0	0	0
	Cutfoot Variation	0	0	0	0	0	0
Effie Variation Area	Proposed Blue Route	0	0	0	0	2	0
	Proposed Orange Route	0	0	0	0	2	0
	Effie Variation	0	0	0	0	0	0
East Bear Lake Variation Area	Proposed Orange Route	0	0	0	0	0	0
	East Bear Lake Variation	0	0	0	0	0	0
Balsam Variation Area	Proposed Blue Route	0	0	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0
	Balsam Variation	0	0	4	0	0	0
Dead Man's Pond Variation Area	Proposed Blue Route	0	0	0	0	0	0
	Dead Man's Pond Variation	0	0	0	0	0	0
Blackberry Variation Area	Proposed Blue Route	0	0	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0

Datasets ⁽¹⁾	Base Length	State Mineral Leases		State Fee Lands ⁽³⁾		State Fee Lands by Type ⁽³⁾								County Lands		FEMA Floodplains				MPCA Impaired Streams		National Hydrology Dataset Flowlines			
						Consolidated Conservation	Other - Acquired, Tax Forfeit, Volstead		Trust Fund		Federal - State Lease		Zone A			Zone B									
Type	--	--		--		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)	Area (ac)			Length (mi)		Length (mi)			
Unit	Length (mi)	Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)	Area (ac)			Length (mi)		Length (mi)			
Buffer ⁽²⁾ (ft)	--	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500		
Pine Island Variation Area	Proposed Blue Route	1.0	29	512	22	483	15	392	7	91	0	0	0	0	0	0	0	0	0	0	0	0	0	<0.05	1.1
	Silver Creek WMA Alignment Modification	1.0	36	530	24	490	24	414	0	76	0	0	0	0	0	0	0	0	0	0	0	0	0	<0.05	1.1
C2 Segment Option Variation Area	C2 Segment Option	1.5	0	0	27	501	0	0	6	182	21	318	0	0	0	0	0	0	0	0	0	0	0	<0.05	0.4
	Airstrip Alignment Modification	1.5	0	0	28	549	0	0	8	229	19	321	0	0	0	0	0	0	0	0	0	0	0	<0.05	0.4
J2 Segment Option Variation Area	Proposed Orange Route	2.8	0	0	63	904	0	0	57	766	5	138	0	0	0	0	0	0	0	0	0	0	0	0.5	3.1
	Mizpah Alignment Modification	2.8	0	0	66	916	0	0	59	767	6	149	0	0	0	0	0	0	0	0	0	0	0	0.4	3.1
	Proposed Orange Route	1.2	0	0	11	301	0	0	9	235	2	66	0	0	0	0	0	0	0	0	0	0	0	0	0
	Gravel Pit Alignment Modification	1.2	0	0	12	309	0	0	11	243	1	66	0	0	0	0	0	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue/Orange Route	2.4	48	1,044	11	411	0	0	0	0	11	411	0	0	0	9	0	0	0	0	0	0	0	0	0
	Bass Lake Alignment Modification	2.5	44	1,072	23	502	0	0	0	0	23	502	0	0	0	<0.5	0	0	0	0	0	0	0	0	0
	Proposed Blue Route	2.4	54	916	24	320	0	0	0	3	24	317	0	0	0	0	0	0	0	0	0	0	0	<0.05	0.6
	Wilson Lake Alignment Modification	2.4	65	987	28	381	0	0	0	8	28	374	0	0	0	0	0	0	0	0	0	0	0	<0.05	0.5
Balsam Variation Area Dead Man's Variation Area	Proposed Blue Route	1.3	0	0	12	159	0	0	11	117	2	42	0	0	0	0	0	0	0	0	0	0	0	0	0
	Grass Lake Alignment Modification	1.3	0	0	7	143	0	0	1	104	6	39	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Blue Route	1.6	0	0	19	339	0	0	19	339	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
	Dead Man's Pond Alignment Modification	1.6	0	0	17	327	0	0	17	327	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9
Blackberry Variation Area	Proposed Orange Route	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Trout Lake Alignment Modification	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Datasets ⁽¹⁾	National Hydrology Dataset Waterbodies	MnDNR Public Water Inventory Watercourses		MnDNR Public Water Inventory Basins		MnDNR Public Water Inventory Wetlands		MnDNR Trout Streams		USFWS National Wetland Inventory ⁽⁴⁾										MnDNR Shallow Lakes		MnDNR Wild Rice Lakes					
		Type	--		--		--		--		PEM	PSS		PFO		PUB		River		Lake		--		--			
Unit	Area (ac)		Length (mi)		Area (ac)		Area (ac)		Length (mi)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)				
Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500			
Pine Island Variation Area	Proposed Blue Route		0	0	0	0	0	0			0	3	25	497	0	25	0	0	0	0	0	0	0	0	0		
	Silver Creek WMA Alignment Modification		0	0	0	0	0	0			0	3	26	508	0	22	0	0	0	0	0	0	0	0	0	0	
C2 Segment Option Variation Area	C2 Segment Option		0	<0.5	<0.05	0	0	0			3	50	20	325	13	266	0	0	0	0	0	0	0	0	0	0	
	Airstrip Alignment Modification		0	0	<0.05	0	0	0			2	39	19	336	17	291	0	0	0	0	0	0	0	0	0	0	
J2 Segment Option Variation Area	Proposed Orange Route		0	0	0	0.8	0	0			1	14	1	57	10	244	0	0	0	0	0	0	0	0	0	0	
	Mizpah Alignment Modification		0	0	0	0.8	0	0			1	13	3	58	12	257	0	0	0	0	0	0	0	0	0	0	
	Proposed Orange Route		0	0	0	0	0	0			0	4	0	55	5	100	0	0	0	0	0	0	0	0	0	0	0
	Gravel Pit Alignment Modification		0	0	0	0	0	0			2	5	0	66	3	88	0	0	0	0	0	0	0	0	0	0	
Effie Variation Area	Proposed Blue/Orange Route		0	0	0	0	0	0			0	6	6	73	17	360	0	0	0	0	0	0	0	0	0	0	
	Bass Lake Alignment Modification		0	0	0	0	0	0			0	1	6	75	13	376	0	0	0	0	0	0	0	0	0	0	
	Proposed Blue Route		0	6	<0.05	0.6	0	0	4		1	15	4	92	20	376	0	1	0	0	0	5	0	0	0	0	
	Wilson Lake Alignment Modification		0	1	<0.05	0.5	0	0	0		3	15	5	86	19	362	0	1	0	0	0	0	0	0	0	0	
Balsam Variation Area Dead Man's Variation Area	Proposed Blue Route		6	62	0	0	0	16	6	70	0	0	1	28	1	74	0	1	0	0	6	61	0	12	5	40	
	Grass Lake Alignment Modification		0	52	0	0	0	15	0	57	0	0	3	33	2	84	0	1	0	0	0	51	0	4	0	34	
	Proposed Blue Route		0	19	0	1.0	0	2	0	19	0	0	4	112	2	38	0	0	0	0	0	19	0	0	0	0	
	Dead Man's Pond Alignment Modification		3	26	0	0.9	0	2	3	26	0	0	3	95	2	67	0	0	0	0	3	26	0	0	0	0	
Blackberry Variation Area	Proposed Orange Route		0	0	0	0	0	0			0	0	1	59	1	95	0	0	0	0	0	0	0	0	0	0	
	Trout Lake Alignment Modification		0	0	0	0	0	0			0	0	1	61	5	95	0	0	0	0	0	0	0	0	0	0	

Datasets ⁽¹⁾	State Trails		County/Local Parks		State Forests		USDA-USFS National Forest		State Scenic Byways		State Snowmobile Trails		State Water Trails		State Conservation Easements	
	Type		--		--		--		--		--		--		--	
Unit	Length (mi)		Area (ac)		Area (ac)		Area (ac)		Length (mi)		Length (mi)		Length (mi)		Area (ac)	
	Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Pine Island Variation Area	Proposed Blue Route		0	0	15	355					0	0			0	0
	Silver Creek WMA Alignment Modification		0	0	24	378					0	0			0	0
C2 Segment Option Variation Area	C2 Segment Option		0	0	0	0					0	0			0	0
	Airstrip Alignment Modification		0	0	0	0					0	0			0	0
J2 Segment Option Variation Area	Proposed Orange Route		0	0	68	1,165					0	0			0	0
	Mizpah Alignment Modification		0	0	68	1,165					0	0			0	0
	Proposed Orange Route		0	0	0	0					0	0			0	0
	Gravel Pit Alignment Modification		0	0	0	0					0	0			0	0
Effie Variation Area	Proposed Blue/Orange Route		0	24	60	1,045					<0.05	1.0			48	600
	Bass Lake Alignment Modification		0	2	60	1,052					<0.05	0.9			37	548
	Proposed Blue Route		0	0	60	1,047					0	0			<0.5	83
	Wilson Lake Alignment Modification		0	0	60	1,050					0	0			0	76
Balsam Variation Area Dead Man's Variation Area	Proposed Blue Route		0	0	0	0					0	0			0	0
	Grass Lake Alignment Modification		0	0	0	0					0	0			0	0
	Proposed Blue Route		0	0	0	0					0	0			0	0
	Dead Man's Pond Alignment Modification		0	0	0	0					0	0			0	0
Blackberry Variation Area	Proposed Orange Route		0	0	0	0					0	0			0	0
	Trout Lake Alignment Modification		0	0	0	0					0	0			0	0

Datasets ⁽¹⁾		MBS Sites of Biodiversity Significance ⁽⁵⁾												MBS Native Plant Communities ⁽⁶⁾⁽⁷⁾		MnDNR Scientific and Natural Areas		MnDNR High Conservation Value Forest		MnDNR Scientific and Natural Area, Peatland Watershed Protection Areas		MnDNR Ecologically Important Lowland Conifer Areas	
		Type		Outstanding		High		Moderate		Below		Rank Unknown											
Unit		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)	
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Pine Island Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	26	482	26	482	ND	ND								
	Silver Creek WMA Alignment Modification	0	0	0	0	0	0	0	0	26	500	26	500	ND	ND								
C2 Segment Option Variation Area	C2 Segment Option	0	0	0	0	0	0	0	0	15	295	15	295	ND	ND								
	Airstrip Alignment Modification	0	0	0	0	0	0	0	0	16	304	16	304	ND	ND								
J2 Segment Option Variation Area	Proposed Orange Route	0	53	0	0	0	0	0	0	0	0	0	53	ND	ND								
	Mizpah Alignment Modification	0	57	0	0	0	0	0	0	0	0	0	57	ND	ND								
	Proposed Orange Route	0	0	0	0	0	33	0	0	0	0	0	33	ND	ND								
	Gravel Pit Alignment Modification	0	0	0	0	0	32	0	0	0	0	0	32	ND	ND								
Effie Variation Area	Proposed Blue/Orange Route	30	507	0	0	23	438	0	0	0	0	53	945	ND	ND								
	Bass Lake Alignment Modification	31	535	0	0	26	447	0	0	0	0	57	982	ND	ND								
	Proposed Blue Route	0	0	0	0	29	579	0	0	0	0	29	579	ND	ND								
	Wilson Lake Alignment Modification	0	0	0	0	26	527	0	0	0	0	26	527	ND	ND								
Balsam Variation Area Dead Man's Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	ND	ND								
	Grass Lake Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0	ND	ND								
	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	ND	ND								
Blackberry Variation Area	Dead Man's Pond Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0	ND	ND								
	Proposed Orange Route	0	0	0	70	0	0	0	0	0	0	0	70	ND	ND								
	Trout Lake Alignment Modification	0	0	0	70	0	0	0	0	0	0	0	70	ND	ND								

Datasets ⁽¹⁾		Minnesota Department of Health Well Head Protection Areas		MnDNR State Wildlife Management Areas		USFWS Interest Lands			Audubon Society Important Bird Areas		USFWS Grassland Bird Conservation Areas		MnDNR Gray Owl Management Area	
Type		--		--		--			--		--		--	
Unit		Area (ac)		Area (ac)		Area (ac)			Area (ac)		Area (ac)		Area (ac)	
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	150	1,500	100	1,500	100	1,500	100	1,500
Pine Island Variation Area	Proposed Blue Route			0	86	8	12	93	26	537				
	Silver Creek WMA Alignment Modification			0	71	0	<0.5	79	26	540				
C2 Segment Option Variation Area	C2 Segment Option			0	0	0	0	0	0	0				
	Airstrip Alignment Modification			0	0	0	0	0	0	0				
J2 Segment Option Variation Area	Proposed Orange Route			0	0	0	0	0	0	79				
	Mizpah Alignment Modification			0	0	0	0	0	0	98				
	Proposed Orange Route			0	0	0	0	0	0	0				
	Gravel Pit Alignment Modification			0	0	0	0	0	0	0				
Effie Variation Area	Proposed Blue/Orange Route			0	0	0	0	0	44	737				
	Bass Lake Alignment Modification			0	0	0	0	0	46	763				
	Proposed Blue Route			0	0	0	0	0	0	0				
	Wilson Lake Alignment Modification			0	0	0	0	0	0	0				
Balsam Variation Area Dead Man's Variation Area	Proposed Blue Route			0	0	0	0	0	0	0				
	Grass Lake Alignment Modification			0	0	0	0	0	0	0				
	Proposed Blue Route			0	0	0	0	0	0	0				
Blackberry Variation Area	Dead Man's Pond Alignment Modification			0	0	0	0	0	0	0				
	Proposed Orange Route			0	0	0	0	0	0	0				
	Trout Lake Alignment Modification			0	0	0	0	0	0	0				

Datasets ⁽¹⁾		GAP Land Cover Vegetation Class Level - Division 4																	
Type		Herbaceous Agricultural Vegetation		North American Boreal Forest		North American Boreal Flooded & Swamp Forest		Eastern North American Cool Temperate Forest		Eastern North American Flooded & Swamp Forest		Great Plains Grassland & Shrubland		Developed & Urban		Recently Disturbed or Modified		Open Water	
Unit		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)	
	Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Pine Island Variation Area	Proposed Blue Route	0	0	2	91	18	380	0	2	5	62	0	0	0	0	0	0	0	2
	Silver Creek WMA Alignment Modification	0	0	6	89	15	391	0	2	4	56	0	0	0	0	0	0	0	2
C2 Segment Option Variation Area	C2 Segment Option	0	1	7	136	28	470	0	0	2	82	0	0	0	10	0	5	0	0
	Airstrip Alignment Modification	0	0	11	143	26	502	0	0	1	68	0	0	0	5	0	3	0	0
J2 Segment Option Variation Area	Proposed Orange Route	0	108	40	584	6	159	17	196	4	106	0	0	0	7	0	3	0	1
	Mizpah Alignment Modification	0	107	38	582	8	163	17	195	4	108	0	0	0	7	0	2	0	1
	Proposed Orange Route	0	3	25	455	1	60	1	32	1	26	0	0	1	14	0	5	0	0
	Gravel Pit Alignment Modification	0	2	25	445	1	68	2	33	1	36	0	0	1	14	1	4	0	6
Effie Variation Area	Proposed Blue/Orange Route	0	0	18	374	35	527	1	28	6	109	0	0	0	5	0	2	0	0
	Bass Lake Alignment Modification	0	0	24	384	28	518	0	28	7	117	0	0	0	4	0	2	0	0
	Proposed Blue Route	0	0	35	459	23	507	0	5	1	46	0	0	0	10	0	15	0	4
	Wilson Lake Alignment Modification	0	0	29	491	28	484	1	7	2	42	0	0	1	12	0	14	0	0
Balsam Variation Area Dead Man's Variation Area	Proposed Blue Route	0	0	21	308	0	68	4	127	0	20	0	0	0	28	0	6	6	62
	Grass Lake Alignment Modification	0	0	16	323	3	82	12	121	1	20	0	0	0	28	0	7	0	51
	Proposed Blue Route	0	0	25	449	0	53	12	176	1	26	0	0	4	33	0	2	0	21
	Dead Man's Pond Alignment Modification	0	2	22	439	0	61	12	155	1	30	0	0	1	25	0	3	3	32
Blackberry Variation Area	Proposed Orange Route	0	6	19	334	0	35	4	101	2	44	0	0	0	5	0	1	0	0
	Trout Lake Alignment Modification	0	6	19	341	0	35	5	106	2	43	0	0	0	5	0	2	0	0

Datasets ⁽¹⁾		GAP Land Cover Vegetation Class Level - Division 4						Farmland								USDA-NRCS Soil Type				Abandoned Transmission Line	
Type		Southeastern North American Flooded & Swamp Forest		Eastern North America Freshwater Wet Meadow, Riparian & Marsh		Introduced & Semi Natural Vegetation		Not Farmland		Prime Farmland If Drained		Farmland Of Statewide Importance		All Areas Are Prime Farmland		Mineral		Histosol		--	
Unit		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Length (mi)	Percent of Total Length
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	--	--
Pine Island Variation Area	Proposed Blue Route	0	0	0	0	0	0	26	511	0	27	0	0	0	0	2	94	24	443	0	0
	Silver Creek WMA Alignment Modification	0	0	0	0	0	0	26	524	0	16	0	0	0	0	0	77	26	464	0	0
C2 Segment Option Variation Area	C2 Segment Option	0	0	0	0	0	0	35	641	0	0	1	63	0	0	23	438	14	266	0	0
	Airstrip Alignment Modification	0	0	0	0	0	0	37	664	0	0	1	57	0	0	23	443	15	278	0	0
J2 Segment Option Variation Area	Proposed Orange Route	0	0	0	0	0	0	22	365	42	652	4	134	0	13	68	1,165	0	0	0	0
	Mizpah Alignment Modification	0	0	0	0	0	0	21	361	42	657	4	134	0	13	68	1,165	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0	0	96	15	141	0	0	14	358	30	544	0	50	0	0
	Gravel Pit Alignment Modification	0	0	0	0	0	0	<0.5	92	4	132	0	0	27	384	30	557	<0.5	51	0	0
Effie Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	0	27	522	7	74	11	193	14	256	38	640	22	405	0	0
	Bass Lake Alignment Modification	0	0	0	0	0	0	22	561	8	74	20	209	10	208	42	635	18	416	0	0
	Proposed Blue Route	0	0	0	0	0	0	40	778	0	31	10	146	10	91	38	686	22	361	0	0
	Wilson Lake Alignment Modification	0	0	0	0	0	0	44	749	0	31	8	150	9	120	37	709	23	341	0	0
Balsam Variation Area Dead Man's Variation Area	Proposed Blue Route	0	0	0	0	0	0	16	345	0	7	0	0	15	267	30	511	1	108	0	0
	Grass Lake Alignment Modification	0	0	0	0	0	0	10	345	0	7	0	0	22	280	27	509	5	123	0	0
	Proposed Blue Route	0	0	0	0	0	0	30	480	6	87	0	0	5	193	35	639	5	121	0	0
	Dead Man's Pond Alignment Modification	0	0	0	0	0	0	33	480	4	78	0	0	2	188	37	618	3	128	0	0
Blackberry Variation Area	Proposed Orange Route	0	0	0	0	0	0	1	163	8	78	0	0	16	286	24	379	1	147	0	0
	Trout Lake Alignment Modification	0	0	0	0	0	0	4	169	11	82	0	0	11	286	22	393	4	145	0	0

Datasets ⁽¹⁾		Corridor Sharing ⁽⁸⁾											
		Transmission Line only		Transmission Line and Trail		None		Field Line only		Road and Trail and PLSS		Road and Transmission Line and PLSS	
Type		Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length
Unit		Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length
Buffer ⁽²⁾ (ft)		--	--	--	--	--	--	--	--	--	--	--	--
Pine Island Variation Area	Proposed Blue Route	1.0	100	0	0	0	0	0	0	0	0	0	0
	Silver Creek WMA Alignment Modification	0.0	0	0	0	1	100	0	0	0	0	0	0
C2 Segment Option Variation Area	C2 Segment Option	0.9	60	0	0	1	40	0	0	0	0	0	0
	Airstrip Alignment Modification	0.0	0	0	0	2	100	0	0	0	0	0	0
J2 Segment Option Variation Area	Proposed Orange Route	0.0	0	0	0	2	82	1	18	0	0	0	0
	Mizpah Alignment Modification	0.0	0	0	0	2	81	1	18	0	0	0	0
	Proposed Orange Route	0.0	0	0	0	1	100	0	0	0	0	0	0
	Gravel Pit Alignment Modification	0.0	0	0	0	1	100	0	0	0	0	0	0
Effie Variation Area	Proposed Blue/Orange Route	0.0	0	0	0	2	100	0	0	0	0	0	0
	Bass Lake Alignment Modification	0.0	0	0	0	2	100	0	0	0	0	0	0
	Proposed Blue Route	0.0	0	0	0	2	100	0	0	0	0	0	0
	Wilson Lake Alignment Modification	0.0	0	0	0	2	100	0	0	0	0	0	0
Balsam Variation Area	Proposed Blue Route	0.0	0	0	0	1	100	0	0	0	0	0	0
	Grass Lake Alignment Modification	0.0	0	0	0	1	100	0	0	0	0	0	0
	Proposed Blue Route	0.0	0	0	0	1	77	0	0	0	0	0	0
Dead Man's Variation Area	Dead Man's Pond Alignment Modification	0.0	0	0	0	2	100	0	0	0	0	0	0
	Proposed Orange Route	0.0	0	0	0	1	100	0	0	0	0	0	0
Blackberry Variation Area	Proposed Orange Route	0.0	0	0	0	1	100	0	0	0	0	0	0
	Trout Lake Alignment Modification	0.0	0	0	0	1	100	0	0	0	0	0	0

Datasets ⁽¹⁾		Corridor Sharing ⁽⁸⁾											
Type		PLSS only		Road and Trail and PLSS and Field Line		Road and PLSS and Field Line		Transmission Line and PLSS		Transmission Line and Trail and PLSS		Road and PLSS	
Unit		Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length
Buffer ⁽²⁾ (ft)		--	--	--	--	--	--	--	--	--	--	--	--
Pine Island Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0
	Silver Creek WMA Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0
C2 Segment Option Variation Area	C2 Segment Option	0	0	0	0	0	0	0	0	0	0	0	0
	Airstrip Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0
J2 Segment Option Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Mizpah Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Gravel Pit Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Bass Lake Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0
	Wilson Lake Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0
Balsam Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0
	Grass Lake Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0
Dead Man's Variation Area	Dead Man's Pond Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
Blackberry Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0
	Trout Lake Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0

Datasets ⁽¹⁾		Corridor Sharing ⁽⁸⁾															
Type	Unit	Transmission Line and PLSS and Field Line		Road and Transmission Line and PLSS and Field Line		PLSS and Field Line		Transmission Line and Field Line		Road and Transmission Line and Trail and PLSS		Road only		Trail and PLSS		Trail only	
		Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length
Buffer ⁽²⁾ (ft)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pine Island Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Silver Creek WMA Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C2 Segment Option Variation Area	C2 Segment Option	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Airstrip Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
J2 Segment Option Variation Area	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mizpah Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Gravel Pit Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bass Lake Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Wilson Lake Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Balsam Variation Area Dead Man's Variation Area	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Grass Lake Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Blue Route	0	0	0	0	0	0	0	0	0	0	<0.5	23	0	0	0	0
Blackberry Variation Area	Dead Man's Pond Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Trout Lake Alignment Modification	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Dataset ⁽¹⁾		Residences						Churches		Commercial & Non-Residential Structures		Cemeteries		Private Airstrips			Historic Architectural Sites		
Unit		Count						Count		Count		Count		Count			Count		
Buffer ⁽²⁾ (ft)		100	150	200	500	1,000	1,500	100	1,500	100	1,500	100	1,500	100	1,500	5,280	100	1,500	5,280
Pine Island Variation Area	Proposed Blue Route	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0
	Silver Creek WMA Alignment Modification	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0
C2 Segment Option Variation Area	C2 Segment Option	0	0	0	0	0	1			0	6	0	0	0	0	1	0	0	0
	Airstrip Alignment Modification	0	0	0	0	0	0			0	1	0	0	0	0	1	0	0	0
J2 Segment Option Variation Area	Proposed Orange Route	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0
	Mizpah Alignment Modification	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0
	Proposed Orange Route	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0
	Gravel Pit Alignment Modification	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue/Orange Route	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0
	Bass Lake Alignment Modification	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0
	Proposed Blue Route	0	0	0	0	0	1			0	0	0	0	0	0	0	0	0	0
	Wilson Lake Alignment Modification	0	0	0	0	0	1			0	0	0	0	0	0	0	0	0	0
Balsam Variation Area	Proposed Blue Route	0	0	0	0	1	1			0	1	0	0	0	0	0	0	0	0
	Grass Lake Alignment Modification	0	0	0	0	0	7			0	7	0	0	0	0	0	0	0	0
Dead Man's Variation Area	Proposed Blue Route	0	0	0	0	1	1			0	3	0	0	0	0	0	0	0	1
	Dead Man's Pond Alignment Modification	0	0	0	0	0	1			0	3	0	0	0	0	0	0	0	1
Blackberry Variation Area	Proposed Orange Route	0	0	0	0	3	3			0	7	0	0	0	0	0	0	0	2
	Trout Lake Alignment Modification	0	0	0	0	1	4			0	7	0	0	0	0	0	0	0	2

Dataset ⁽¹⁾		Archaeological Sites			Communication Towers		State Aggregate Sources		MPCA Impaired Streams		National Hydrology Dataset Flowlines		National Hydrology Dataset Waterbodies		MnDNR Public Water Inventory Watercourses		MnDNR Public Water Inventory Basins		MnDNR Public Water Inventory Wetlands	
Unit		Count			Count		Count		Count		Count		Count		Count		Count		Count	
Buffer ⁽²⁾ (ft)		100	1,500	5,280	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Pine Island Variation Area	Proposed Blue Route	0	0	0			0	0			1	6	0	0	0	0	0	0	0	0
	Silver Creek WMA Alignment Modification	0	0	0			0	0			1	6	0	0	0	0	0	0	0	0
C2 Segment Option Variation Area	C2 Segment Option	0	0	0			0	0			1	1	0	1	1	1	0	0	0	0
	Airstrip Alignment Modification	0	0	0			0	1			1	1	0	0	1	1	0	0	0	0
J2 Segment Option Variation Area	Proposed Orange Route	0	0	0			0	0			7	7	0	0	1	1	0	0	0	0
	Mizpah Alignment Modification	0	0	0			0	0			4	7	0	0	1	1	0	0	0	0
	Proposed Orange Route	0	0	0			1	1			0	0	0	0	0	0	0	0	0	0
	Gravel Pit Alignment Modification	0	0	0			0	1			0	0	0	0	0	0	0	0	0	0
Effie Variation Area	Proposed Blue/Orange Route	0	0	0			0	0			0	0	0	0	0	0	0	0	0	0
	Bass Lake Alignment Modification	0	0	0			0	0			0	0	0	0	0	0	0	0	0	0
	Proposed Blue Route	0	0	2			0	0			1	1	0	3	1	1	0	0	0	1
	Wilson Lake Alignment Modification	0	0	1			0	0			1	1	0	2	1	1	0	0	0	0
Balsam Variation Area	Proposed Blue Route	0	0	0			0	0			0	0	1	4	0	0	0	1	1	2
	Grass Lake Alignment Modification	0	0	0			0	0			0	0	0	5	0	0	0	2	0	2
Dead Man's Variation Area	Proposed Blue Route	0	0	2			0	0			0	3	0	1	0	2	0	1	0	1
	Dead Man's Pond Alignment Modification	0	0	3			0	0			0	3	1	1	0	2	0	1	1	1
Blackberry Variation Area	Proposed Orange Route	0	0	0			0	0			0	0	0	0	0	0	0	0	0	0
	Trout Lake Alignment Modification	0	0	0			0	0			0	0	0	0	0	0	0	0	0	0

Dataset ⁽¹⁾		MnDNR Trout Streams		MnDNR Shallow Lakes		MnDNR Wild Rice Lakes		State Trails		County/Local Parks		State Forests		USDA-USFS National Forest		State Scenic Byways	
Unit		Count		Count		Count		Count		Count		Count		Count		Count	
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Pine Island Variation Area	Proposed Blue Route			0	0	0	0			0	0	1	1				
	Silver Creek WMA Alignment Modification			0	0	0	0			0	0	1	1				
C2 Segment Option Variation Area	C2 Segment Option			0	0	0	0			0	0	0	0				
	Airstrip Alignment Modification			0	0	0	0			0	0	0	0				
J2 Segment Option Variation Area	Proposed Orange Route			0	0	0	0			0	0	1	1				
	Mizpah Alignment Modification			0	0	0	0			0	0	1	1				
	Proposed Orange Route			0	0	0	0			0	0	0	0				
Effie Variation Area	Gravel Pit Alignment Modification			0	0	0	0			0	0	0	0				
	Proposed Blue/Orange Route			0	0	0	0			0	1	1	1				
	Bass Lake Alignment Modification			0	0	0	0			0	1	1	1				
	Wilson Lake Alignment Modification			0	0	0	0			0	0	1	1				
Balsam Variation Area	Proposed Blue Route			0	1	1	1			0	0	0	0				
	Grass Lake Alignment Modification			0	1	0	1			0	0	0	0				
Dead Man's Variation Area	Proposed Blue Route			0	0	0	0			0	0	0	0				
	Dead Man's Pond Alignment Modification			0	0	0	0			0	0	0	0				
Blackberry Variation Area	Proposed Orange Route			0	0	0	0			0	0	0	0				
	Trout Lake Alignment Modification			0	0	0	0			0	0	0	0				

Dataset ⁽¹⁾		Snowmobile Trails		Water Access Points		State Water Trails		MnDNR Scientific and Natural Areas		MnDNR NHIS Database Records (Endangered, Threatened, and Special Concern) ⁽⁹⁾			MnDNR Colonial Waterbird Nesting Sites			MnDNR High Conservation Value Forest		MnDNR Scientific and Natural Area Peatland Watershed Protection Areas	
		Unit	Count		Count		Count		Count		Count			Count			Count		
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	5,280	100	1,500	5,280	100	1,500	100	1,500
Pine Island Variation Area	Proposed Blue Route	0	0							0	0	0	0	0	0				
	Silver Creek WMA Alignment Modification	0	0							0	0	0	0	0	0				
C2 Segment Option Variation Area	C2 Segment Option	0	0							0	0	0	0	0	0				
	Airstrip Alignment Modification	0	0							0	0	0	0	0	0				
J2 Segment Option Variation Area	Proposed Orange Route	0	0							0	0	0	0	0	0				
	Mizpah Alignment Modification	0	0							0	0	0	0	0	0				
	Proposed Orange Route	0	0							0	0	0	0	0	0				
	Gravel Pit Alignment Modification	0	0							0	0	0	0	0	0				
Effie Variation Area	Proposed Blue/Orange Route	1	1							0	0	1	0	0	1				
	Bass Lake Alignment Modification	1	1							0	0	1	0	0	1				
	Proposed Blue Route	0	0							0	0	0	0	0	0				
	Wilson Lake Alignment Modification	0	0							0	0	0	0	0	0				
Balsam Variation Area	Proposed Blue Route	0	0							0	0	0	0	0	0				
	Grass Lake Alignment Modification	0	0							0	0	0	0	0	0				
Dead Man's Variation Area	Proposed Blue Route	0	0							0	0	0	0	0	0				
	Dead Man's Pond Alignment Modification	0	0							0	0	0	0	0	0				
Blackberry Variation Area	Proposed Orange Route	0	0							0	0	0	0	0	0				
	Trout Lake Alignment Modification	0	0							0	0	0	0	0	0				

Dataset ⁽¹⁾		MnDNR Calcareous Fens			MPCA What's in My Neighborhood Sites (Active and Inactive)		Minnesota Department of Health County Well Index		MnDNR Wildlife Management Areas		USFWS Interest Lands			MnDNR Gray Owl Management Area	
Unit		Count			Count		Count		Count		Count			Count	
Buffer ⁽²⁾ (ft)		100	1,500	5,280	100	1,500	100	1,500	100	1,500	100	150	1,500	100	1,500
Pine Island Variation Area	Proposed Blue Route				0	0	0	0	0	1	1	1	1		
	Silver Creek WMA Alignment Modification				0	0	0	0	0	1	0	1	1		
C2 Segment Option Variation Area	C2 Segment Option				0	0	0	0	0	0	0	0	0		
	Airstrip Alignment Modification				0	0	0	0	0	0	0	0	0		
J2 Segment Option Variation Area	Proposed Orange Route				0	0	0	0	0	0	0	0	0		
	Mizpah Alignment Modification				0	0	0	0	0	0	0	0	0		
	Proposed Orange Route				1	1	0	0	0	0	0	0	0		
	Gravel Pit Alignment Modification				0	1	0	0	0	0	0	0	0		
Effie Variation Area	Proposed Blue/Orange Route				0	0	0	0	0	0	0	0	0		
	Bass Lake Alignment Modification				0	0	0	0	0	0	0	0	0		
	Proposed Blue Route				0	0	0	0	0	0	0	0	0		
	Wilson Lake Alignment Modification				0	0	0	0	0	0	0	0	0		
Balsam Variation Area	Proposed Blue Route				0	0	0	1	0	0	0	0	0		
	Grass Lake Alignment Modification				0	0	0	4	0	0	0	0	0		
Dead Man's Variation Area	Proposed Blue Route				0	0	0	1	0	0	0	0	0		
	Dead Man's Pond Alignment Modification				0	0	0	0	0	0	0	0	0		
Blackberry Variation Area	Proposed Orange Route				0	0	0	2	0	0	0	0	0		
	Trout Lake Alignment Modification				0	0	0	2	0	0	0	0	0		

Datasets ⁽¹⁾		State Mineral Leases	County Lands	MPCA Impaired Streams	National Hydrology Dataset Flowlines	National Hydrology Dataset Waterbodies	MnDNR Public Water Inventory Watercourses	MnDNR Public Water Inventory Basins	MnDNR Public Water Inventory Wetlands
Unit		Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings
Pine Island Variation Area	Proposed Blue Route	5	0		0	0	0		0
	Silver Creek WMA Alignment Modification	7	0		0	0	0		0
C2 Segment Option Variation Area	C2 Segment Option	0	0		1	0	1		0
	Airstrip Alignment Modification	0	0		1	0	1		0
J2 Segment Option Variation Area	Proposed Orange Route	0	0		5	0	1		0
	Mizpah Alignment Modification	0	0		3	0	1		0
	Proposed Orange Route	0	0		0	0	0		0
	Gravel Pit Alignment Modification	0	0		0	0	0		0
Effie Variation Area	Proposed Blue/Orange Route	14	0		0	0	0		0
	Bass Lake Alignment Modification	14	0		0	0	0		0
	Proposed Blue Route	13	0		1	0	1		0
	Wilson Lake Alignment Modification	16	0		1	0	1		0
Balsam Variation Area	Proposed Blue Route	0	0		0	1	0		1
	Grass Lake Alignment Modification	0	0		0	0	0		0
Dead Man's Variation Area	Proposed Blue Route	0	0		0	0	0		0
	Dead Man's Pond Alignment Modification	0	0		0	1	0		1
Blackberry Variation Area	Proposed Orange Route	0	0		0	0	0		0
	Trout Lake Alignment Modification	0	0		0	0	0		0

Datasets ⁽¹⁾		MnDNR Trout Streams	MnDNR Shallow Lakes	MnDNR Wild Rice Lakes	State Trails	State Forests	USDA-USFS National Forest	State Scenic Byways	Snowmobile Trails	State Water Trails	MnDNR Scientific and Natural Areas	MnDNR High Conservation Value Forest	MnDNR Scientific and Natural Area Peatland Watershed Protection Areas	MnDNR Ecologically Important Lowland Conifer Areas
Unit		Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings
Pine Island Variation Area	Proposed Blue Route			0		1		0	0					
	Silver Creek WMA Alignment Modification			0		1		0	0					
C2 Segment Option Variation Area	C2 Segment Option			0		0		0	0					
	Airstrip Alignment Modification			0		0		0	0					
J2 Segment Option Variation Area	Proposed Orange Route			0		1		0	0					
	Mizpah Alignment Modification			0		1		0	0					
	Proposed Orange Route			0		0		0	0					
	Gravel Pit Alignment Modification			0		0		0	0					
Effie Variation Area	Proposed Blue/Orange Route			0		1		0	1					
	Bass Lake Alignment Modification			0		1		0	1					
	Proposed Blue Route			0		1		0	0					
	Wilson Lake Alignment Modification			0		1		0	0					
Balsam Variation Area	Proposed Blue Route			1		0		0	0					
	Grass Lake Alignment Modification			0		0		0	0					
Dead Man's Variation Area	Proposed Blue Route			0		0		0	0					
	Dead Man's Pond Alignment Modification			0		0		0	0					
Blackberry Variation Area	Proposed Orange Route			0		0		0	0					
	Trout Lake Alignment Modification			0		0		0	0					

Datasets ⁽¹⁾		MnDNR Wildlife Management Areas	Minnesota Department of Health Wellhead Protection Areas	USFWS Interest Lands	Audubon Society Important Bird Areas	USFWS Grassland Bird Conservation Areas
Unit		Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings
Pine Island Variation Area	Proposed Blue Route			1	1	
	Silver Creek WMA Alignment Modification			0	1	
C2 Segment Option Variation Area	C2 Segment Option			0	0	
	Airstrip Alignment Modification			0	0	
J2 Segment Option Variation Area	Proposed Orange Route			0	0	
	Mizpah Alignment Modification			0	0	
	Proposed Orange Route			0	0	
	Gravel Pit Alignment Modification			0	0	
Effie Variation Area	Proposed Blue/Orange Route			0	1	
	Bass Lake Alignment Modification			0	1	
	Proposed Blue Route			0	0	
	Wilson Lake Alignment Modification			0	0	
Balsam Variation Area	Proposed Blue Route			0	0	
	Grass Lake Alignment Modification			0	0	
Dead Man's Variation Area	Proposed Blue Route			0	0	
	Dead Man's Pond Alignment Modification			0	0	
Blackberry Variation Area	Proposed Orange Route			0	0	
	Trout Lake Alignment Modification			0	0	

Datasets ⁽¹⁾	Base Length	State Mineral Leases		State Fee Lands ⁽³⁾		State Fee Lands by Type ⁽³⁾								County Lands		FEMA Floodplains				MPCA Impaired Streams		
						Consolidated Conservation	Other - Acquired, Tax Forfeit, Volstead	Trust Fund		Federal - State Lease		Zone A	Zone B									
Type	--	--	--	--	--	Consolidated Conservation	Other - Acquired, Tax Forfeit, Volstead	Trust Fund		Federal - State Lease		--	Zone A	Zone B		--						
Unit	Length (mi)	Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Length (mi)		
Buffer ⁽²⁾ (ft)	100	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	
Cedar Bend WMA Variation Area	Hop 1	0.7			17	372	17	372	0	0	0	0	0	0								
	Hop 2	1.2			30	571	30	571	0	0	0	0	0	0								
Cedar Bend WMA and Beltrami North Variation Area	Hop 3	0.9			23	502	23	502	0	0	0	0	0	0								
Beltrami North Variation Area	Hop 4	0.9			23	502	23	502	0	0	0	0	0	0								
Beltrami North Central Variation Area	Hop 5	3.5			73	1,213	73	1,213	0	0	0	0	0	0								

Datasets ⁽¹⁾		National Hydrology Dataset Flowlines		National Hydrology Dataset Waterbodies		MnDNR Public Water Inventory Watercourses		MnDNR Public Water Inventory Basins		MnDNR Public Water Inventory Wetlands		MnDNR Trout Streams	
Type		--		--		--		--		--		--	
Unit		Length (mi)		Area (ac)		Length (mi)		Area (ac)		Area (ac)		Length (mi)	
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Cedar Bend WMA Variation Area	Hop 1	0	0										
	Hop 2	0	0										
Cedar Bend WMA and Beltrami North Variation Area	Hop 3	0	0										
Beltrami North Variation Area	Hop 4	0	0										
Beltrami North Central Variation Area	Hop 5	0.1	0.7										

Datasets ⁽¹⁾		USFWS National Wetland Inventory ⁽⁴⁾												MnDNR Shallow Lakes		MnDNR Wild Rice Lakes	
Type		PEM		PSS		PFO		PUB		River		Lake		--		--	
Unit		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)	
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Cedar Bend WMA Variation Area	Hop 1	<0.5	21	<0.5	22	16	363	0	0	0	0	0	0				
	Hop 2	1	26	3	81	26	498	0	0	0	0	0	0				
Cedar Bend WMA and Beltrami North Variation Area	Hop 3	0	0	<0.5	29	23	473	0	0	0	0	0	0				
Beltrami North Variation Area	Hop 4	0	0	<0.5	29	23	473	0	0	0	0	0	0				
Beltrami North Central Variation Area	Hop 5	4	54	23	333	57	1,006	0	0	0	0	0	0				

Datasets ⁽¹⁾		State Trails		County/Local Parks		State Forests		USDA-USFS National Forest		State Scenic Byways	
Type		--		--		--		--		--	
Unit		Length (mi)		Area (ac)		Area (ac)		Area (ac)		Length (mi)	
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Cedar Bend WMA Variation Area	Hop 1					17	372				
	Hop 2					30	571				
Cedar Bend WMA and Beltrami North Variation Area	Hop 3					23	502				
Beltrami North Variation Area	Hop 4					23	502				
Beltrami North Central Variation Area	Hop 5					75	1,216				

Datasets ⁽¹⁾	State Snowmobile Trails		State Water Trails		State Conservation Easements		Preliminary MBS Sites of Biodiversity Significance ⁽⁵⁾												MBS Native Plant Communities ⁽⁶⁾⁽⁷⁾		MnDNR Scientific and Natural Areas		
	Type	--		--		--		Outstanding		High		Moderate		Below		Rank Unknown		Total		--		--	
Unit	Length (mi)		Length (mi)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		
Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	
Cedar Bend WMA Variation Area	Hop 1	<0.05	0.7					0	0	10	134	7	267	0	0	0	0	17	401				
	Hop 2	0.5	2.1					0	0	8	189	22	411	0	0	0	0	30	599				
Cedar Bend WMA and Beltrami North Variation Area	Hop 3	0	0.8					0	0	20	308	3	194	0	0	0	0	23	502				
Beltrami North Variation Area	Hop 4	0	0.8					0	0	20	308	3	194	0	0	0	0	23	502				
Beltrami North Central Variation Area	Hop 5	0	0					0	0	38	574	0	0	0	0	39	678	77	1,252				

Datasets ⁽¹⁾	MnDNR High Conservation Value Forest		MnDNR Scientific and Natural Area, Peatland Watershed Protection Areas		MnDNR Ecologically Important Lowland Conifer Areas		Minnesota Department of Health Well Head Protection Areas		MnDNR State Wildlife Management Areas		USFWS Interest Lands			Audubon Society Important Bird Areas		USFWS Grassland Bird Conservation Areas		MnDNR Gray Owl Management Area	
	Type	--		--		--		--		--		--			--		--		
Unit	Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)			Area (ac)		Area (ac)			
Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	150	1,500	100	1,500	100	1,500	100	1,500
Cedar Bend WMA Variation Area	Hop 1													0	0				
	Hop 2													0	0				
Cedar Bend WMA and Beltrami North Variation Area	Hop 3													0	0				
Beltrami North Variation Area	Hop 4													0	0				
Beltrami North Central Variation Area	Hop 5													85	1,423				

Datasets ⁽¹⁾		GAP Land Cover Vegetation Class Level - Division 4																	
Type		Herbaceous Agricultural Vegetation		North American Boreal Forest		North American Boreal Flooded & Swamp Forest		Eastern North American Cool Temperate Forest		Eastern North American Flooded & Swamp Forest		Great Plains Grassland & Shrubland		Developed & Urban		Recently Disturbed or Modified		Open Water	
Unit		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)	
	Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Cedar Bend WMA Variation Area	Hop 1			5	55	12	332	<0.5	1	1	17	0	0	0	0	0	0	0	0
	Hop 2			6	112	23	434	1	2	1	57	0	0	0	0	0	0	0	0
Cedar Bend WMA and Beltrami North Variation Area	Hop 3			4	92	11	335	0	1	8	75	0	0	0	0	0	0	0	0
Beltrami North Variation Area	Hop 4			4	92	11	335	0	1	8	75	0	0	0	0	0	0	0	0
Beltrami North Central Variation Area	Hop 5			39	526	40	710	1	20	5	165	0	0	0	0	0	2	0	0

Datasets ⁽¹⁾		GAP Land Cover Vegetation Class Level - Division 4						Farmland								USDA-NRCS Soil Type				Abandoned Transmission Line	
Type		Southeastern North American Flooded & Swamp Forest		Eastern North America Freshwater Wet Meadow, Riparian & Marsh		Introduced & Semi Natural Vegetation		Not Farmland		Prime Farmland If Drained		Farmland Of Statewide Importance		All Areas Are Prime Farmland		Mineral		Histosol		--	
Unit		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Length (mi)	Percent of Total Length
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	--	--
Cedar Bend WMA Variation Area	Hop 1	0	0	0	0	0	0	17	406	0	0	0	0	0	0	6	178	10	228	0	0
	Hop 2	0	0	0	0	0	0	30	605	0	0	0	0	0	0	13	283	17	321	0	0
Cedar Bend WMA and Beltrami North Variation Area	Hop 3	0	0	0	0	0	0	23	502	0	0	0	0	0	0	3	72	20	430	0	0
Beltrami North Variation Area	Hop 4	0	0	0	0	0	0	23	502	0	0	0	0	0	0	3	72	20	430	0	0
Beltrami North Central Variation Area	Hop 5	0	0	0	0	0	0	85	1,401	0	1	0	21	0	0	66	1,076	19	347	0	0

Datasets ⁽¹⁾		Corridor Sharing ⁽⁸⁾							
Type		Transmission Line only		Transmission Line and Trail		None		Field Line only	
Unit		Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length
Buffer ⁽²⁾ (ft)		--	--	--	--	--	--	--	--
Cedar Bend WMA Variation Area	Hop 1	0	0	0	0	1	100	0	0
	Hop 2	0	0	1	100	0	0	0	0
Cedar Bend WMA and Beltrami North Variation Area	Hop 3	0	0	0	0	1	100	0	0
Beltrami North Variation Area	Hop 4	0	0	0	0	1	100	0	0
Beltrami North Central Variation Area	Hop 5	0	0	0	0	0	0	0	0

Datasets ⁽¹⁾		Corridor Sharing ⁽⁸⁾											
Type		Road and Trail and PLSS		Road and Transmission Line and PLSS		PLSS only		Road and Trail and PLSS and Field Line		Road and PLSS and Field Line		Transmission Line and PLSS	
Unit		Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length
Buffer ⁽²⁾ (ft)		--	--	--	--	--	--	--	--	--	--	--	--
Cedar Bend WMA Variation Area	Hop 1	0	0	0	0	0	0	0	0	0	0	0	0
	Hop 2	0	0	0	0	0	0	0	0	0	0	0	0
Cedar Bend WMA and Beltrami North Variation Area	Hop 3	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami North Variation Area	Hop 4	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami North Central Variation Area	Hop 5	0	0	0	0	3	100	0	0	0	0	0	0

Datasets ⁽¹⁾		Corridor Sharing ⁽⁸⁾											
		Transmission Line and Trail and PLSS		Road and PLSS		Transmission Line and PLSS and Field Line		Road and Transmission Line and PLSS and Field Line		PLSS and Field Line		Transmission Line and Field Line	
Type		Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length
Unit		Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length
Buffer ⁽²⁾ (ft)		--	--	--	--	--	--	--	--	--	--	--	--
Cedar Bend WMA Variation Area	Hop 1	0	0	0	0	0	0	0	0	0	0	0	0
	Hop 2	0	0	0	0	0	0	0	0	0	0	0	0
Cedar Bend WMA and Beltrami North Variation Area	Hop 3	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami North Variation Area	Hop 4	0	0	0	0	0	0	0	0	0	0	0	0
Beltrami North Central Variation Area	Hop 5	0	0	0	0	0	0	0	0	0	0	0	0

Datasets ⁽¹⁾		Corridor Sharing ⁽⁸⁾							
Type		Road and Transmission Line and Trail and PLSS		Road only		Trail and PLSS		Trail only	
Unit		Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length
Buffer ⁽²⁾ (ft)		--	--	--	--	--	--	--	--
Cedar Bend WMA Variation Area	Hop 1	0	0	0	0	0	0	0	0
	Hop 2	0	0	0	0	0	0	0	0
Cedar Bend WMA and Beltrami North Variation Area	Hop 3	0	0	0	0	0	0	0	0
Beltrami North Variation Area	Hop 4	0	0	0	0	0	0	0	0
Beltrami North Central Variation Area	Hop 5	0	0	0	0	0	0	0	0

Dataset ⁽¹⁾		Residences					Churches		Commercial & Non-Residential Structures		Cemeteries		Private Airstrips			Historic Architectural Sites			Archaeological Sites			Communication Towers		State Aggregate Sources		MPCA Impaired Streams		
Unit		Count					Count		Count		Count		Count			Count			Count		Count		Count					
Buffer ⁽²⁾ (ft)		100	150	200	500	1,000	1,500	100	1,500	100	1,500	100	1,500	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	100	1,500	100	1,500
Cedar Bend WMA Variation Area	Hop 1																											
	Hop 2																											
Cedar Bend WMA and Beltrami North Variation Area	Hop 3																											
Beltrami North Variation Area	Hop 4																											
Beltrami North Central Variation Area	Hop 5																											

Dataset ⁽¹⁾	National Hydrology Dataset Flowlines		National Hydrology Dataset Waterbodies		MnDNR Public Water Inventory Watercourses		MnDNR Public Water Inventory Basins		MnDNR Public Water Inventory Wetlands		MnDNR Trout Streams		MnDNR Shallow Lakes		MnDNR Wild Rice Lakes		State Trails		County/Local Parks		State Forests		USDA-USFS National Forest	
	Unit		Count		Count		Count		Count		Count		Count		Count		Count		Count		Count		Count	
	Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Cedar Bend WMA Variation Area	Hop 1	0	0																		2	2		
	Hop 2	0	0																		2	2		
Cedar Bend WMA and Beltrami North Variation Area	Hop 3	0	0																		1	2		
Beltrami North Variation Area	Hop 4	0	0																		1	2		
Beltrami North Central Variation Area	Hop 5	1	1																		1	1		

Dataset ⁽¹⁾	State Scenic Byways		Snowmobile Trails		Water Access Points		State Water Trails		MnDNR Scientific and Natural Areas		MnDNR NHIS Database Records (Endangered, Threatened, and Special Concern) ⁽⁹⁾			MnDNR Colonial Waterbird Nesting Sites			MnDNR High Conservation Value Forest		MnDNR Scientific and Natural Area Peatland Watershed Protection Areas		MnDNR Calcareous Fens		
	Unit		Count		Count		Count		Count		Count			Count			Count		Count		Count		
	Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	5,280	100	1,500	5,280	100	1,500	100	1,500	100	1,500	5,280
Cedar Bend WMA Variation Area	Hop 1			1	1							0	0	1									
	Hop 2			1	1							0	0	0									
Cedar Bend WMA and Beltrami North Variation Area	Hop 3			0	1							0	0	1									
Beltrami North Variation Area	Hop 4			0	1							0	0	0									
Beltrami North Central Variation Area	Hop 5			0	0							0	0	6									

Dataset ⁽¹⁾		MPCA What's in My Neighborhood Sites (Active and Inactive)		Minnesota Department of Health County Well Index		MnDNR Wildlife Management Areas		USFWS Interest Lands			MnDNR Gray Owl Management Area	
		Unit		Count		Count		Count		Count		
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	150	1,500	100	1,500
Cedar Bend WMA Variation Area	Hop 1											
	Hop 2											
Cedar Bend WMA and Beltrami North Variation Area	Hop 3											
Beltrami North Variation Area	Hop 4											
Beltrami North Central Variation Area	Hop 5											

Datasets ⁽¹⁾		State Mineral Leases	County Lands	MPCA Impaired Streams	National Hydrology Dataset Flowlines	National Hydrology Dataset Waterbodies	MnDNR Public Water Inventory Watercourses	MnDNR Public Water Inventory Basins	MnDNR Public Water Inventory Wetlands	MnDNR Trout Streams	MnDNR Shallow Lakes
Unit		Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings
Cedar Bend WMA Variation Area	Hop 1				0						
	Hop 2				0						
Cedar Bend WMA and Beltrami North Variation Area	Hop 3				0						
Beltrami North Variation Area	Hop 4				0						
Beltrami North Central Variation Area	Hop 5				1						

Datasets ⁽¹⁾		MnDNR Wild Rice Lakes	State Trails	State Forests	USDA-USFS National Forest	State Scenic Byways	Snowmobile Trails	State Water Trails	MnDNR Scientific and Natural Areas	MnDNR High Conservation Value Forest	MnDNR Scientific and Natural Area Peatland Watershed Protection Areas	MnDNR Ecologically Important Lowland Conifer Areas
Unit		Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings
Cedar Bend WMA Variation Area	Hop 1			3								
	Hop 2			2								
Cedar Bend WMA and Beltrami North Variation Area	Hop 3			1								
Beltrami North Variation Area	Hop 4			1								
Beltrami North Central Variation Area	Hop 5			2								

Datasets ⁽¹⁾		MnDNR Wildlife Management Areas	Minnesota Department of Health Wellhead Protection Areas	USFWS Interest Lands	Audubon Society Important Bird Areas	USFWS Grassland Bird Conservation Areas
Unit		Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings
Cedar Bend WMA Variation Area	Hop 1				0	
	Hop 2				0	
Cedar Bend WMA and Beltrami North Variation Area	Hop 3				0	
Beltrami North Variation Area	Hop 4				0	
Beltrami North Central Variation Area	Hop 5				1	

Dataset ⁽¹⁾	Base Length	State Mineral Leases		State Fee Lands ⁽³⁾		State Fee Lands by Type ⁽³⁾								County Lands		FEMA Floodplains				MPCA Impaired Streams		National Hydrology Dataset Flowlines		National Hydrology Dataset Waterbodies	
						Consolidated Conservation	Other - Acquired, Tax Forfeit, Volstead		Trust Fund		Federal - State Lease		--			Zone A		Zone B							
Unit	Length (mi)	Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Length (mi)		Length (mi)		Area (ac)	
Buffer ⁽²⁾ (ft)	--	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Proposed Blue Route	215.2	1,455	21,913	3,635	53,402	1,736	24,780	661	10,700	1,214	17,341	25	581	10	94	350	53	5	53	0.3	6.1	10.2	116.0	12	299
Proposed Orange Route	215.7	789	11,539	3,895	57,182	1,856	26,718	1,055	16,157	944	13,487	41	820	0	17	368	53	5	53	0.4	7.1	9.0	125.3	11	386

Dataset ⁽¹⁾	MnDNR Public Water Inventory Watercourses		MnDNR Public Water Inventory Basins		MnDNR Public Water Inventory Wetlands		MnDNR Trout Streams		USFWS National Wetland Inventory ⁽⁴⁾										MnDNR Shallow Lakes		MnDNR Wild Rice Lakes		State Trails			
	Type	--		--		--		--		PEM		PSS		PFO		PUB		River		Lake		--		--		--
Unit	Length (mi)		Area (ac)		Area (ac)		Length (mi)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Length (mi)	
Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Proposed Blue Route	1.8	35.6	10	220	6	159	<0.5	0.6	545	6,578	1,167	16,972	1,976	30,180	6	95	5	65	7	204	9	137	5	40	0.2	4.1
Proposed Orange Route	2.6	43.3	14	286	0	51	0	0	404	5,829	1,277	18,327	1,737	25,599	9	224	1	13	2	162	9	156	0	0	0.1	2.6

Dataset ⁽¹⁾	County/Local Parks		State Forests		USDA-USFS National Forest		State Scenic Byways		State Snowmobile Trails		State Water Trails		State Conservation Easements	
	Type		--		--		--		--		--		--	
Unit	Area (ac)		Area (ac)		Area (ac)		Length (mi)		Length (mi)		Length (mi)		Area (ac)	
	Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Proposed Blue Route	0	24	3,758	55,180			<0.5	1.0	1.5	35.9	<0.5	0.8	218	2,952
Proposed Orange Route	0	24	3,496	51,442			<0.5	1.0	2.0	48.0	0.1	0.9	97	1,239

Dataset ⁽¹⁾	Preliminary MBS Sites of Biodiversity Significance ⁽⁵⁾												MBS Native Plant Communities ⁽⁶⁾⁽⁷⁾		MnDNR Scientific and Natural Areas		MnDNR High Conservation Value Forest		MnDNR Scientific and Natural Area, Peatland Watershed Protection Areas		MnDNR Ecologically Important Lowland Conifer Areas	
	Type	Outstanding		High		Moderate		Below		Rank Unknown		Total		--		--		--		--		
Unit	Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)			
Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500		
Proposed Blue Route	227	4,266	616	8,940	930	13,780	86	1,037	1,175	16,996	3,036	45,019	167	2,210	0	117	90	1,026	303	4,133	29	448
Proposed Orange Route	585	8,791	697	10,653	1,287	19,055	156	2,118	555	8,292	3,280	48,910	167	2,210	0	67	90	1,026	425	6,287	5	85

Dataset ⁽¹⁾	Minnesota Department of Health Well Head Protection Areas		MnDNR State Wildlife Management Areas		USFWS Interest Lands			Audubon Society Important Bird Areas		USFWS Grassland Bird Conservation Areas		MnDNR Gray Owl Management Area		GAP Land Cover Vegetation Class Level - Division 4									
	Type	--	--	--	--	--	--	--	--	--	--	--	Herbaceous Agricultural Vegetation	North American Boreal Forest	North American Boreal Flooded & Swamp Forest	Eastern North American Cool Temperate Forest	Eastern North American Flooded & Swamp Forest						
Unit	Area (ac)		Area (ac)		Area (ac)			Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)			
Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	150	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500		
Proposed Blue Route			117	1,927	33	48	674	1,565	23,204	131	1,931			260	4,546	1,546	23,584	2,564	38,235	195	2,903	524	6,676
Proposed Orange Route			342	5,055	41	61	820	1,881	28,587	131	1,931			225	4,076	1,622	24,534	2,455	35,539	258	3,896	548	8,261

Dataset ⁽¹⁾	GAP Land Cover Vegetation Class Level - Division 4												Farmland										
	Type		Great Plains Grassland & Shrubland		Developed & Urban		Recently Disturbed or Modified		Open Water		Southeastern North American Flooded & Swamp Forest		Eastern North America Freshwater Wet Meadow, Riparian & Marsh		Introduced & Semi Natural Vegetation		Not Farmland		Prime Farmland If Drained		Farmland Of Statewide Importance		All Areas Are Prime Farmland
Unit	Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		
Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	
Proposed Blue Route	0	15	44	964	33	481	50	835	0	0	1	11	1	4	3,846	57,694	579	9,484	377	5,127	415	5,954	
Proposed Orange Route	0	15	40	753	43	596	36	743	0	0	1	11	0	2	3,698	55,258	775	11,752	212	3,271	545	8,149	

Dataset ⁽¹⁾	USDA-NRCS Soil Type				Abandoned Transmission Line		Corridor Sharing ⁽⁸⁾													
	Type		Mineral		Histosol		--		Transmission Line only		Transmission Line and Trail		None		Field Line only		Road and Trail and PLSS		Road and Transmission Line and PLSS	
	Unit		Area (ac)		Area (ac)		Length (mi)	Precent of Total Length	Length (mi)	Precent of Total Length	Length (mi)	Precent of Total Length	Length (mi)	Precent of Total Length	Length (mi)	Precent of Total Length	Length (mi)	Precent of Total Length	Length (mi)	Precent of Total Length
Buffer ⁽²⁾ (ft)		100	1,500	100	1,500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Proposed Blue Route		2,768	43,171	2,449	35,087	0	0	57	26	4	2	111	52	1	0	0	0	0	0	
Proposed Orange Route		3,113	48,283	2,116	30,147	4	2	47	22	10	5	129	60	1	1	0	0	0	0	

Dataset ⁽¹⁾		Corridor Sharing ⁽⁸⁾																
Type	PLSS only		Road and Trail and PLSS and Field Line		Road and PLSS and Field Line		Past Transmission Line only		Transmission Line and PLSS		Transmission Line and Trail and PLSS		Road and PLSS		Transmission Line and PLSS and Field Line		Road and Transmission Line and PLSS and Field Line	
Unit	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length
Buffer⁽²⁾ (ft)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Proposed Blue Route	11	5	0	0	6	3	0	0	13	6	3	1	0	0	4	2	2	1
Proposed Orange Route	12	6	0	0	6	3	4	2	4	2	3	1	0	0	1	1	1	1

Dataset ⁽¹⁾	Corridor Sharing ⁽⁸⁾												
	Type	PLSS and Field Line		Transmission Line and Field Line		Road and Transmission Line and Trail and PLSS		Road only		Trail and PLSS		Trail only	
		Unit	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)	Percent of Total Length	Length (mi)
	Buffer ⁽²⁾ (ft)	--	--	--	--	--	--	--	--	--	--	--	--
	Proposed Blue Route	0	0	1	1	0	0	1	1	1	0	0	0
	Proposed Orange Route	0	0	0	0	0	0	0	0	0	0	0	0

Dataset ⁽¹⁾	Residences						Churches		Commercial & Non-Residential Structures		Cemeteries		Private Airstrips			Historic Architectural Sites			Archaeological Sites		
	Count						Count		Count		Count		Count			Count					
Unit Buffer ⁽²⁾ (ft)	100	150	200	500	1,000	1,500	100	1,500	100	1,500	100	1,500	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280
Proposed Blue Route	0	0	0	6	32	55	0	0	1	101			0	0	0	2	7	27	0	1	17
Proposed Orange Route	0	0	0	6	30	69	0	0	0	135			0	0	1	2	5	38	0	0	11

Dataset ⁽¹⁾	Communication Towers		State Aggregate Sources		MPCA Impaired Streams		National Hydrology Dataset Flowlines		National Hydrology Dataset Waterbodies		MnDNR Public Water Inventory Watercourses		MnDNR Public Water Inventory Basins		MnDNR Public Water Inventory Wetlands		MnDNR Trout Streams	
	Unit	Count		Count		Count		Count		Count		Count		Count		Count		
Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Proposed Blue Route	0	3	0	3	5	5	115	224	12	78	35	39	3	9	2	7	1	1
Proposed Orange Route	0	3	2	6	5	6	124	222	12	106	31	40	4	12	0	4	0	0

Dataset ⁽¹⁾	MnDNR Shallow Lakes		MnDNR Wild Rice Lakes		State Trails		County/Local Parks		State Forests		USDA-USFS National Forest		State Scenic Byways		Snowmobile Trails		Water Access Points		State Water Trails		MnDNR Scientific and Natural Areas	
	Unit		Count		Count		Count		Count		Count		Count		Count		Count		Count		Count	
Buffer ⁽²⁾ (ft)	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
Proposed Blue Route	1	4	1	1	3	3	0	1	6	6			1	1	10	10			1	1	0	2
Proposed Orange Route	1	3	0	0	3	3	0	1	7	7			1	1	12	12			1	1	0	2

Dataset ⁽¹⁾	MnDNR NHIS Database Records (Endangered, Threatened, and Special Concern) ⁽⁹⁾			MnDNR Colonial Waterbird Nesting Sites			MnDNR High Conservation Value Forest		MnDNR Scientific and Natural Area Peatland Watershed Protection Areas		MnDNR Calcareous Fens			MPCA What's in My Neighborhood Sites (Active and Inactive)	
	Unit	Count			Count			Count		Count		Count			Count
Buffer ⁽²⁾ (ft)	100	1,500	5,280	100	1,500	5,280	100	1,500	100	1,500	100	1,500	5,280	100	1,500
Proposed Blue Route	4	10	46	0	2	3	2	3	4	4	0	0	1	0	5
Proposed Orange Route	6	17	54	0	0	1	2	3	4	4	0	0	2	1	4

Dataset ⁽¹⁾	Minnesota Department of Health County Well Index		MnDNR Wildlife Management Areas		USFWS Interest Lands			MnDNR Gray Owl Management Area		
	Count		Count		Count			Count		
	Unit	100	1,500	100	1,500	100	150	1,500	100	1,500
	Buffer ⁽²⁾ (ft)									
Proposed Blue Route		3	39	3	4	5	7	13		
Proposed Orange Route		4	52	3	3	6	9	17		

Datasets ⁽¹⁾	State Mineral Leases	County Lands	MPCA Impaired Streams	National Hydrology Dataset Flowlines	National Hydrology Dataset Waterbodies	MnDNR Public Water Inventory Watercourses	MnDNR Public Water Inventory Basins	MnDNR Public Water Inventory Wetlands	MnDNR Trout Streams	MnDNR Shallow Lakes	MnDNR Wild Rice Lakes
Unit	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings
Proposed Blue Route	288	2	5	112	9	36	2	1	1	1	1
Proposed Orange Route	177	0	5	124	10	46	3	0	0	1	0

Datasets⁽¹⁾	State Trails	State Forests	USDA-USFS National Forest	State Scenic Byways	Snowmobile Trails	State Water Trails	MnDNR Scientific and Natural Areas	MnDNR High Conservation Value Forest	MnDNR Scientific and Natural Area Peatland Watershed Protection Areas	MnDNR Ecologically Important Lowland Conifer Areas
Unit	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings
Proposed Blue Route	3	45	0	1	31	1		4	6	7
Proposed Orange Route	3	42	0	1	36	1		4	6	1

Datasets⁽¹⁾	MnDNR Wildlife Management Areas	Minnesota Department of Health Wellhead Protection Areas	USFWS Interest Lands	Audubon Society Important Bird Areas	USFWS Grassland Bird Conservation Areas
Unit	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings	Number of Crossings
Proposed Blue Route	4		4	12	10
Proposed Orange Route	7		5	11	10

Appendix F

Rare Species Data Tables

Sources:

MnDNR 2014 Reference 60	USFWS 2015 Reference 105
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Footnotes: (1) Canada lynx and gray wolf records are not documented in the NHIS database.

(2) The buffer distances includes both sides of the anticipated alignment. For example, count with a buffer of 100 ft includes 100 ft on each side of the anticipated alignment. Buffer distances are cumulative. For example, impacts accrued within the 100 ft buffer are also included within the 1,500 ft buffer. For this EIS, the 100 ft buffer is the equivalent of the ROW. The 1,500 ft buffer represents the route width used for the GIS analysis in this EIS. The Presidential permit and Route Permit applications use a route width that ranges from 1,500 feet to 3,000 feet.

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Border Crossing Variation Area															Roseau Lake WMA Variation Area									Cedar Bend WMA Variation Area					
					Proposed Border Crossing-Blue/Orange Route			Border Crossing Pine Creek Variation			Border Crossing Hwy 310 Variation			Border Crossing 500kV Variation			Border Crossing 230kV Variation			Proposed Blue/Orange Route			Roseau Lake WMA Variation 1			Roseau Lake WMA Variation 2			Proposed Blue/Orange Route			Cedar Bend WMA Variation		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)					
					100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280
<i>Anthus spragueii</i>	Sprague's Pipit	Candidate	Endangered	Bird	--	--	1	--	--	1	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium ascendens</i>	Upward-lobed Moonwort	None	Endangered	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium lunaria</i>	Common Moonwort	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Carex sterilis</i>	Sterile Sedge	None	Threatened	Vascular Plant	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	None	Threatened	Vascular Plant	--	1	2	--	--	2	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	2	--	--	--
<i>Spilogale putorius</i>	Eastern Spotted Skunk	None	Threatened	Mammal	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	--	--	--	--	--	--
<i>Accipiter gentilis</i>	Northern Goshawk	None	Special Concern	Bird	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	--	--	--	1	1	1	--	--	--	--	--	--
<i>Ammodramus nelsoni</i>	Nelson's Sparrow	None	Special Concern	Bird	1	1	1	1	1	1	--	--	--	--	1	1	--	--	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium minganense</i>	Mingan Moonwort	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium pallidum</i>	Pale Moonwort	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium rugulosum</i>	St. Lawrence Grapefern	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium simplex</i>	Least Moonwort	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	3	--	--	--
<i>Cladium mariscoides</i>	Twig-rush	None	Special Concern	Vascular Plant	--	1	2	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Coturnicops noveboracensis</i>	Yellow Rail	None	Special Concern	Bird	1	1	1	1	1	1	--	--	--	1	1	1	--	--	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--
<i>Drosera anglica</i>	English Sundew	None	Special Concern	Vascular Plant	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Drosera linearis</i>	Linear-leaved Sundew	None	Special Concern	Vascular Plant	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	None	Special Concern	Fish	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Border Crossing Variation Area															Roseau Lake WMA Variation Area									Cedar Bend WMA Variation Area								
					Proposed Border Crossing-Blue/Orange Route			Border Crossing Pine Creek Variation			Border Crossing Hwy 310 Variation			Border Crossing 500kV Variation			Border Crossing 230kV Variation			Proposed Blue/Orange Route			Roseau Lake WMA Variation 1			Roseau Lake WMA Variation 2			Proposed Blue/Orange Route			Cedar Bend WMA Variation					
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)					
					100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280
<i>Lasmigona compressa</i>	Creek Heelsplitter	None	Special Concern	Mussel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--						
<i>Ligumia recta</i>	Black Sandshell	None	Special Concern	Mussel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	--	1	1	--	--	--	--	--	--						
<i>Limosa fedoa</i>	Marbled Godwit	None	Special Concern	Bird	--	--	1	--	--	2	--	--	1	--	--	--	--	--	--	--	--	1	--	1	2	--	--	--	--	--	--						
<i>Malaxis monophyllos var. brachypoda</i>	White Adder's-mouth	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
<i>Mustela nivalis</i>	Least Weasel	None	Special Concern	Mammal	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--						
<i>Ranunculus lapponicus</i>	Lapland Buttercup	None	Special Concern	Vascular Plant	--	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--						
<i>Arethusa bulbosa</i>	Dragon's-mouth	None	Tracked	Vascular Plant	1	1	3	1	1	2	1	2	2	--	--	--	--	--	--	1	1	2	--	--	--	--	--	--	--	--	--						
<i>Bartramia longicauda</i>	Upland Sandpiper	None	Tracked	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	1	--	--	--	--	--	--	--	--	--						
<i>Botaurus lentiginosus</i>	American Bittern	None	Tracked	Bird	1	1	2	1	1	2	--	--	1	2	3	3	--	--	--	1	1	2	--	--	--	--	--	--	--	--	--						
<i>Botrychium matricariifolium</i>	Matricary Grapefern	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
<i>Botrychium michiganense</i>	Michigan Moonwort	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
<i>Carex capillaris</i>	Hair-like Sedge	None	Tracked	Vascular Plant	--	--	2	--	--	1	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--						
<i>Geocaulon lividum</i>	Northern Comandra	None	Tracked	Vascular Plant	--	--	2	--	--	2	3	3	5	--	--	--	--	--	1	--	--	2	--	--	--	--	--	--	--	1	4						
<i>Grus canadensis</i>	Sandhill Crane	None	Tracked	Bird	--	--	3	--	--	2	--	--	2	2	2	2	1	1	2	--	--	2	--	--	1	--	--	2	--	--	--						
<i>Haliaeetus leucocephalus</i>	Bald Eagle	None	Tracked	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--	--						
<i>Lycaena epixanthe michiganensis</i>	Bog Copper	None	Tracked	Insect	1	2	4	--	2	4	1	2	3	--	--	--	--	--	--	--	1	3	--	--	--	--	--	--	--	--	--						

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Beltrami North Variation Area									Beltrami North Central Variation Area																	
					Proposed Blue/Orange Route			Beltrami North Variation 1			Beltrami North Variation 2			Proposed Blue/Orange Route			Beltrami North Central Variation 1			Beltrami North Central Variation 2			Beltrami North Central Variation 3			Beltrami North Central Variation 4			Beltrami North Central Variation 5		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)		
					100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280
<i>Anthus spragueii</i>	Sprague's Pipit	Candidate	Endangered	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium ascendens</i>	Upward-lobed Moonwort	None	Endangered	Vascular Plant	--	--	--	--	--	--	--	1	3	--	--	1	--	--	1	--	--	1	--	--	1	--	--	--	--	--	--
<i>Botrychium lunaria</i>	Common Moonwort	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	1	--	--	1	--	--	2	--	--	1	--	--	1	--	--	--	--	--	1
<i>Carex sterilis</i>	Sterile Sedge	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	None	Threatened	Vascular Plant	--	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Spilogale putorius</i>	Eastern Spotted Skunk	None	Threatened	Mammal	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Accipiter gentilis</i>	Northern Goshawk	None	Special Concern	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Ammodramus nelsoni</i>	Nelson's Sparrow	None	Special Concern	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium minganense</i>	Mingan Moonwort	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium pallidum</i>	Pale Moonwort	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	2	5	--	--	2	--	--	3	--	--	1	--	--	1	--	--	--	--	--	2
<i>Botrychium rugulosum</i>	St. Lawrence Grapefern	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium simplex</i>	Least Moonwort	None	Special Concern	Vascular Plant	--	1	3	--	--	2	--	--	6	--	1	5	--	--	6	--	1	4	--	--	2	--	--	--	--	--	4
<i>Cladium mariscoides</i>	Twig-rush	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Coturnicops noveboracensis</i>	Yellow Rail	None	Special Concern	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Drosera anglica</i>	English Sundew	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Drosera linearis</i>	Linear-leaved Sundew	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	None	Special Concern	Fish	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Beltrami North Variation Area									Beltrami North Central Variation Area																	
					Proposed Blue/Orange Route			Beltrami North Variation 1			Beltrami North Variation 2			Proposed Blue/Orange Route			Beltrami North Central Variation 1			Beltrami North Central Variation 2			Beltrami North Central Variation 3			Beltrami North Central Variation 4			Beltrami North Central Variation 5		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)		
					100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280
<i>Lasmigona compressa</i>	Creek Heelsplitter	None	Special Concern	Mussel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Ligumia recta</i>	Black Sandshell	None	Special Concern	Mussel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Limosa fedoa</i>	Marbled Godwit	None	Special Concern	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Malaxis monophyllos var. brachypoda</i>	White Adder's-mouth	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Mustela nivalis</i>	Least Weasel	None	Special Concern	Mammal	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Ranunculus lapponicus</i>	Lapland Buttercup	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Arethusa bulbosa</i>	Dragon's-mouth	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	1	--	--	1	--	--	--	--	--	--
<i>Bartramia longicauda</i>	Upland Sandpiper	None	Tracked	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botaurus lentiginosus</i>	American Bittern	None	Tracked	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium matricariifolium</i>	Matricary Grapefern	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	1	4	--	--	1	--	--	2	--	--	1	--	--	1	--	--	--	--	--	1
<i>Botrychium michiganense</i>	Michigan Moonwort	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Carex capillaris</i>	Hair-like Sedge	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Geocaulon lividum</i>	Northern Comandra	None	Tracked	Vascular Plant	--	1	4	--	--	--	--	1	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Grus canadensis</i>	Sandhill Crane	None	Tracked	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle	None	Tracked	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Lycaena epixanthe michiganensis</i>	Bog Copper	None	Tracked	Insect	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Pine Island Variation area						Beltrami South Central Variation Area						Beltrami South Variation Area						North Black River Variation Area					
					Proposed Blue Route			Proposed Orange Route			Proposed Orange Route			Beltrami South Central Variation			Proposed Orange Route			Beltrami South Variation			Proposed Blue Route			North Black River Variation		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)		
					100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280
<i>Botrychium ascendens</i>	Upward-lobed Moonwort	None	Endangered	Vascular Plant	--	--	1	--	1	2	--	1	2	--	1	2	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium lunaria</i>	Common Moonwort	None	Threatened	Vascular Plant	--	--	1	--	1	1	--	1	1	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--
<i>Carex sterilis</i>	Sterile Sedge	None	Threatened	Vascular Plant	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Eleocharis rostellata</i>	Beaked Spike-rush	None	Threatened	Vascular Plant	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Rhynchospora capillacea</i>	Hair-like Beak-rush	None	Threatened	Vascular Plant	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Acipenser fulvescens</i>	Lake Sturgeon	None	Special Concern	Fish	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Asio flammeus</i>	Short-eared Owl	None	Special Concern	Bird	--	--	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium pallidum</i>	Pale Moonwort	None	Special Concern	Vascular Plant	--	--	3	--	1	3	--	--	3	--	--	3	--	--	--	--	--	1	--	--	--	--	--	--
<i>Botrychium simplex</i>	Least Moonwort	None	Special Concern	Vascular Plant	--	--	3	--	2	4	--	1	2	--	1	2	--	1	1	--	--	2	--	--	--	--	--	--
<i>Carex exilis</i>	Coastal Sedge	None	Special Concern	Vascular Plant	--	--	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Cladium mariscoides</i>	Twig-rush	None	Special Concern	Vascular Plant	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Coturnicops noveboracensis</i>	Yellow Rail	None	Special Concern	Bird	--	--	--	1	1	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Drosera anglica</i>	English Sundew	None	Special Concern	Vascular Plant	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Juncus stygius var. americanus</i>	Bog Rush	None	Special Concern	Vascular Plant	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Pine Island Variation area						Beltrami South Central Variation Area						Beltrami South Variation Area						North Black River Variation Area					
					Proposed Blue Route			Proposed Orange Route			Proposed Orange Route			Beltrami South Central Variation			Proposed Orange Route			Beltrami South Variation			Proposed Blue Route			North Black River Variation		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)		
					100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280
<i>Lasmigona compressa</i>	Creek Heelsplitter	None	Special Concern	Mussel	1	2	4	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Ligumia recta</i>	Black Sandshell	None	Special Concern	Mussel	--	1	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Oxyethira itascaae</i>	A Caddisfly	None	Special Concern	Insect	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Torreyochloa pallida</i>	Torrey's Manna-grass	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Arethusa bulbosa</i>	Dragon's-mouth	None	Tracked	Vascular Plant	--	--	2	1	1	2	--	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botaurus lentiginosus</i>	American Bittern	None	Tracked	Bird	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium matricariifolium</i>	Matricary Grapefern	None	Tracked	Vascular Plant	--	--	2	--	1	2	--	--	2	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--
<i>Carex capillaris</i>	Hair-like Sedge	None	Tracked	Vascular Plant	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Geocaulon lividum</i>	Northern Comandra	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Grus canadensis</i>	Sandhill Crane	None	Tracked	Bird	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle	None	Tracked	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Hydroptila novicola</i>	A Caddisfly	None	Tracked	Insect	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Rhynchospora fusca</i>	Sooty-colored Beak-rush	None	Tracked	Vascular Plant	--	--	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Triglochin palustris</i>	Marsh Arrow-grass	None	Tracked	Vascular Plant	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Colonial Waterbird Nesting Area	Colonial Waterbird Nesting Site	--	--	Animal Assemblage	--	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	C2 Segment Option Variation Area						J2 Segment Proposed Variation Area						Northome Variation Area						Cutfoot Variation Area					
					Proposed Blue Route			C2 Segment Option Variation			Proposed Orange Route			J2 Segment Option Variation			J2 Segment Option Variation			Northome Variation			Proposed Orange Route			Cutfoot Variation		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)		
					100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280
<i>Botrychium ascendens</i>	Upward-lobed Moonwort	None	Endangered	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium lunaria</i>	Common Moonwort	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Carex sterilis</i>	Sterile Sedge	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	None	Threatened	Vascular Plant	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Eleocharis rostellata</i>	Beaked Spike-rush	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Rhynchospora capillacea</i>	Hair-like Beak-rush	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Acipenser fulvescens</i>	Lake Sturgeon	None	Special Concern	Fish	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Asio flammeus</i>	Short-eared Owl	None	Special Concern	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium pallidum</i>	Pale Moonwort	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botrychium simplex</i>	Least Moonwort	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Carex exilis</i>	Coastal Sedge	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Cladium mariscoides</i>	Twig-rush	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Coturnicops noveboracensis</i>	Yellow Rail	None	Special Concern	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Drosera anglica</i>	English Sundew	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Juncus stygius var. americanus</i>	Bog Rush	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	C2 Segment Option Variation Area									J2 Segment Proposed Variation Area									Northome Variation Area									Cutfoot Variation Area								
					Proposed Blue Route			C2 Segment Option Variation			Proposed Orange Route			J2 Segment Option Variation			J2 Segment Option Variation			Northome Variation			Proposed Orange Route			Cutfoot Variation														
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)														
					100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280									
<i>Lasmigona compressa</i>	Creek Heelsplitter	None	Special Concern	Mussel	--	--	2	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--												
<i>Ligumia recta</i>	Black Sandshell	None	Special Concern	Mussel	--	--	2	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--												
<i>Oxyethira itascaae</i>	A Caddisfly	None	Special Concern	Insect	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--												
<i>Torreyochloa pallida</i>	Torrey's Manna-grass	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--												
<i>Arethusa bulbosa</i>	Dragon's-mouth	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--												
<i>Botaurus lentiginosus</i>	American Bittern	None	Tracked	Bird	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--												
<i>Botrychium matricariifolium</i>	Matricary Grapefern	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--												
<i>Carex capillaris</i>	Hair-like Sedge	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--												
<i>Geocaulon lividum</i>	Northern Comandra	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1												
<i>Grus canadensis</i>	Sandhill Crane	None	Tracked	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--												
<i>Haliaeetus leucocephalus</i>	Bald Eagle	None	Tracked	Bird	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--												
<i>Hydroptila novicola</i>	A Caddisfly	None	Tracked	Insect	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--												
<i>Rhynchospora fusca</i>	Sooty-colored Beak-rush	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--												
<i>Triglochin palustris</i>	Marsh Arrow-grass	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--												
Colonial Waterbird Nesting Area	Colonial Waterbird Nesting Site	--	--	Animal Assemblage	--	--	--	--	--	--	--	--	--	1	2	2	--	--	1	--	--	2	--	--	--	--	--	--												

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Effie Variation Area									East Bear Lake Variation Area					
					Proposed Blue Route			Proposed Orange Route			Effie Variation			Proposed Orange Route			East Bear Lake Variation		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)		
					100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280
<i>Eleocharis Robbinsii</i>	Robbin's Spike-rush	None	Threatened	Vascular Plant	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
<i>Platanthera flava</i> var. <i>herbiola</i>	Tuberclad Rein-orchid	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Spiranthes casei</i> var. <i>casei</i>	Cases's Ladies'-tresses	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Accipiter gentilis</i>	Northern Goshawk	None	Special Concern	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Carex ormostachya</i>	Necklace Spike Sedge	None	Special Concern	Vascular Plant	--	--	--	--	1	1	--	--	--	--	1	1	--	1	1
<i>Lasmigona compressa</i>	Creek Heelsplitter	None	Special Concern	Mussel	--	1	1	--	1	2	--	1	1	--	--	1	--	1	1
<i>Ligumia recta</i>	Black Sandshell	None	Special Concern	Mussel	--	1	2	--	1	2	--	--	--	--	--	1	--	--	--
<i>Najas gracillima</i>	Thread-like Naiad	None	Special Concern	Vascular Plant	--	--	--	--	--	1	--	--	1	--	--	--	--	--	--
<i>Najas guadalupensis</i> ssp. <i>olivacea</i>	Guadalupe water nymph	None	Special Concern	Vascular Plant	--	--	1	--	--	1	--	--	--	--	--	--	--	--	--
<i>Arethusa bulbosa</i>	Dragon's-mouth	None	Tracked	Vascular Plant	--	--	1	1	1	1	--	1	1	--	--	--	--	--	--
<i>Botaurus lentiginosus</i>	American Bittern	None	Tracked	Bird	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
<i>Ceratophyllum echinatum</i>	Spiny Hornwort	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle	None	Tracked	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Myriophyllum tenellum</i>	Leafless Water Milfoil	None	Tracked	Vascular Plant	--	1	2	--	1	2	--	--	2	--	--	--	--	--	1
<i>Ranunculus gmelinii</i>	Small Yellow Water Crowfoot	None	Tracked	Vascular Plant	--	--	--	--	--	1	--	--	1	--	--	1	--	--	1
<i>Sparganium glomeratum</i>	Clustered Bur-reed	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Utricularia gibba</i>	Humped Bladderwort	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Colonial Waterbird Nesting Area	Colonial Waterbird Nesting Site	--	--	Animal Assemblage	--	2	3	--	2	3	--	1	2	--	--	--	--	--	--

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Balsam Variation Area									Dead Man's Pond Variation Area						Blackberry Variation Area					
					Proposed Blue Route			Proposed Orange Route			Balsam Variation			Proposed Blue Route			Dead Man's Pond Variation			Proposed Blue Route			Proposed Orange Route		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)		
					100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280
<i>Eleocharis robbinsii</i>	Robbin's Spike-rush	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Platanthera flava</i> var. <i>herbiola</i>	Tuberclad Rein-orchid	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1
<i>Spiranthes casei</i> var. <i>casei</i>	Cases's Ladies'-tresses	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1
<i>Accipiter gentilis</i>	Northern Goshawk	None	Special Concern	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
<i>Carex ormostachya</i>	Necklace Spike Sedge	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Lasmigona compressa</i>	Creek Heelsplitter	None	Special Concern	Mussel	--	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
<i>Ligumia recta</i>	Black Sandshell	None	Special Concern	Mussel	--	--	1	--	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
<i>Najas gracillima</i>	Thread-like Naiad	None	Special Concern	Vascular Plant	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Najas guadalupensis</i> ssp. <i>olivacea</i>	Guadalupe waternymph	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Arethusa bulbosa</i>	Dragon's-mouth	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Botaurus lentiginosus</i>	American Bittern	None	Tracked	Bird	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Ceratophyllum echinatum</i>	Spiny Hornwort	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--
<i>Haliaeetus leucocephalus</i>	Bald Eagle	None	Tracked	Bird	--	--	--	--	--	1	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--
<i>Myriophyllum tenellum</i>	Leafless Water Milfoil	None	Tracked	Vascular Plant	--	--	1	--	1	1	--	2	2	--	--	--	--	--	--	--	--	--	--	--	--
<i>Ranunculus gmelinii</i>	Small Yellow Water Crowfoot	None	Tracked	Vascular Plant	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Sparganium glomeratum</i>	Clustered Bur-reed	None	Tracked	Vascular Plant	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Utricularia gibba</i>	Humped Bladderwort	None	Tracked	Vascular Plant	--	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1
Colonial Waterbird Nesting Area	Colonial Waterbird Nesting Site	--	--	Animal Assemblage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Pine Island Variation Area						C2 Segment Option Variation Area						J2 Segment Option Variation Area											
					Proposed Blue Route			Silver Creek WMA Alignment Modification			C2 Segment Option			Airstrip Alignment Modification			Proposed Orange Route			Mizpah Alignment Modification			Proposed Orange Route			Gravel Pit Alignment Modification		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)		
					100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280
<i>Juncus stygius</i> <i>var. americanus</i>	Bog Rush	None	Special Concern	Vascular Plant	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Najas guadalupensis</i> <i>ssp. olivacea</i>	Guadalupe water nymph	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Arethusa bulbosa</i>	Dragon's-mouth	None	Tracked	Vascular Plant	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Myriophyllum tenellum</i>	Leafless Water Milfoil	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Colonial Waterbird Nesting Area	Colonial Waterbird Nesting Site	--	--	Animal Assemblage	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Effie Variation Area												Balsam Variation Area						Dead Man's Variation Area						Blackberry Variation Area					
					Proposed Blue/Orange Route			Bass Lake Alignment Modification			Proposed Blue Route			Wilson Lake Alignment Modification			Proposed Blue Route			Grass Lake Alignment Modification			Proposed Blue Route			Dead Man's Pond Alignment Modification			Proposed Orange Route			Trout Lake Alignment Modification		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)					
					100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280
<i>Juncus stygius</i> <i>var. americanus</i>	Bog Rush	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
<i>Najas guadalupensis</i> <i>ssp. olivacea</i>	Guadalupe waternymph	None	Special Concern	Vascular Plant	--	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
<i>Arethusa bulbosa</i>	Dragon's-mouth	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
<i>Myriophyllum tenellum</i>	Leafless Water Milfoil	None	Tracked	Vascular Plant	--	1	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
Colonial Waterbird Nesting Area	Colonial Waterbird Nesting Site	--	--	Animal Assemblage	--	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Cedar Bend WMA Variation Area			Cedar Bend WMA and Beltrami North Variation Area			Beltrami North Variation Area			Beltrami North Central Variation Area					
					Hop 1			Hop 2			Hop 3			Hop 4			Hop 5		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)		
					100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280	100	1,500	5,280
<i>Botrychium ascendens</i>	Upward-lobed Moonwort	None	Endangered	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
<i>Botrychium lunaria</i>	Common Moonwort	None	Threatened	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
<i>Botrychium pallidum</i>	Pale Moonwort	None	Special Concern	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
<i>Botrychium simplex</i>	Least Moonwort	None	Special Concern	Vascular Plant	--	--	1	--	--	--	--	--	1	--	--	--	--	--	2
<i>Arethusa bulbosa</i>	Dragon's-mouth	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
<i>Botrychium matricariifolium</i>	Matricary Grapefern	None	Tracked	Vascular Plant	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Proposed Blue Route			Proposed Orange Route		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)		
					100	1,500	5,280	100	1,500	5,280
<i>Anthus spragueii</i>	Sprague's Pipit	Candidate	Endangered	Bird	--	--	1	--	--	1
<i>Botrychium ascendens</i>	Upward-lobed Moonwort	None	Endangered	Vascular Plant	--	--	1	--	1	2
<i>Botrychium lunaria</i>	Common Moonwort	None	Threatened	Vascular Plant	--	--	1	--	1	1
<i>Carex sterilis</i>	Sterile Sedge	None	Threatened	Vascular Plant	--	--	1	--	--	2
<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	None	Threatened	Vascular Plant	--	1	4	--	1	4
<i>Eleocharis robbinsii</i>	Robbin's Spike-rush	None	Threatened	Vascular Plant	--	--	1	--	--	--
<i>Eleocharis rostellata</i>	Beaked Spike-rush	None	Threatened	Vascular Plant	--	--	--	--	--	1
<i>Platanthera flava</i> var. <i>herbiola</i>	Tuberclad Rein-orchid	None	Threatened	Vascular Plant	--	--	1	--	--	1
<i>Rhynchospora capillacea</i>	Hair-like Beak-rush	None	Threatened	Vascular Plant	--	--	--	--	--	1
<i>Spilogale putorius</i>	Eastern Spotted Skunk	None	Threatened	Mammal	--	--	--	--	--	--
<i>Spiranthes casei</i> var. <i>casei</i>	Cases's Ladies'-tresses	None	Threatened	Vascular Plant	--	--	1	--	--	1
<i>Accipiter gentilis</i>	Northern Goshawk	None	Special Concern	Bird	1	1	1	1	1	2
<i>Acipenser fulvescens</i>	Lake Sturgeon	None	Special Concern	Fish	--	--	--	--	--	--
<i>Ammodramus nelsoni</i>	Nelson's Sparrow	None	Special Concern	Bird	1	1	1	1	1	1
<i>Asio flammeus</i>	Short-eared Owl	None	Special Concern	Bird	--	--	--	1	1	1
<i>Botrychium minganense</i>	Mingan Moonwort	None	Special Concern	Vascular Plant	--	--	--	--	--	--
<i>Botrychium pallidum</i>	Pale Moonwort	None	Special Concern	Vascular Plant	--	--	5	--	1	5
<i>Botrychium rugulosum</i>	St. Lawrence Grapefern	None	Special Concern	Vascular Plant	--	--	--	--	--	--
<i>Botrychium simplex</i>	Least Moonwort	None	Special Concern	Vascular Plant	--	2	8	--	4	9
<i>Carex exilis</i>	Coastal Sedge	None	Special Concern	Vascular Plant	--	--	--	1	1	1
<i>Carex ormostachya</i>	Necklace Spike Sedge	None	Special Concern	Vascular Plant	--	--	--	--	1	1

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Proposed Blue Route			Proposed Orange Route		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)		
					100	1,500	5,280	100	1,500	5,280
<i>Anthus spragueii</i>	Sprague's Pipit	Candidate	Endangered	Bird	--	--	1	--	--	1
<i>Cladium mariscoides</i>	Twig-rush	None	Special Concern	Vascular Plant	--	1	2	--	1	3
<i>Coturnicops noveboracensis</i>	Yellow Rail	None	Special Concern	Bird	1	1	1	2	2	3
<i>Drosera anglica</i>	English Sundew	None	Special Concern	Vascular Plant	--	--	1	--	--	2
<i>Drosera linearis</i>	Linear-leaved Sundew	None	Special Concern	Vascular Plant	--	--	2	--	--	2
<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	None	Special Concern	Fish	--	--	--	--	--	--
<i>Juncus stygius var. americanus</i>	Bog Rush	None	Special Concern	Vascular Plant	--	--	1	--	--	--
<i>Lasmigona compressa</i>	Creek Heelsplitter	None	Special Concern	Mussel	1	2	4	--	--	3
<i>Ligumia recta</i>	Black Sandshell	None	Special Concern	Mussel	--	1	5	--	--	2
<i>Limosa fedoa</i>	Marbled Godwit	None	Special Concern	Bird	--	--	1	--	--	1
<i>Malaxis monophyllos var. brachypoda</i>	White Adder's-mouth	None	Special Concern	Vascular Plant	--	--	--	--	--	--
<i>Mustela nivalis</i>	Least Weasel	None	Special Concern	Mammal	--	--	--	--	--	--
<i>Najas gracillima</i>	Thread-like Naiad	None	Special Concern	Vascular Plant	--	--	1	--	--	1
<i>Najas guadalupensis ssp. olivacea</i>	Guadalupe water nymph	None	Special Concern	Vascular Plant	--	--	1	--	--	1
<i>Oxyethira itascae</i>	A Caddisfly	None	Special Concern	Insect	--	--	--	--	1	1
<i>Ranunculus lapponicus</i>	Lapland Buttercup	None	Special Concern	Vascular Plant	--	--	1	--	--	1
<i>Torreyochloa pallida</i>	Torrey's Manna-grass	None	Special Concern	Vascular Plant	--	--	--	--	--	--
<i>Arethusa bulbosa</i>	Dragon's-mouth	None	Tracked	Vascular Plant	1	1	6	3	3	6
<i>Bartramia longicauda</i>	Upland Sandpiper	None	Tracked	Bird	--	--	--	--	--	--
<i>Botaurus lentiginosus</i>	American Bittern	None	Tracked	Bird	1	1	2	1	2	3
<i>Botrychium matricariifolium</i>	Matricary Grapefern	None	Tracked	Vascular Plant	--	--	2	--	1	2

Scientific Name ⁽¹⁾	Common Name	Federal Status	State Status	Type	Proposed Blue Route			Proposed Orange Route		
					Buffer ⁽²⁾ (ft)			Buffer ⁽²⁾ (ft)		
					100	1,500	5,280	100	1,500	5,280
<i>Anthus spragueii</i>	Sprague's Pipit	Candidate	Endangered	Bird	--	--	1	--	--	1
<i>Botrychium michiganense</i>	Michigan Moonwort	None	Tracked	Vascular Plant	--	--	--	--	--	--
<i>Carex capillaris</i>	Hair-like Sedge	None	Tracked	Vascular Plant	--	--	2	--	--	3
<i>Ceratophyllum echinatum</i>	Spiny Hornwort	None	Tracked	Vascular Plant	--	--	--	--	--	--
<i>Geocaulon lividum</i>	Northern Comandra	None	Tracked	Vascular Plant	--	1	6	--	1	6
<i>Grus canadensis</i>	Sandhill Crane	None	Tracked	Bird	--	--	3	--	--	4
<i>Haliaeetus leucocephalus</i>	Bald Eagle	None	Tracked	Bird	--	--	--	--	--	1
<i>Hydroptila novicola</i>	A Caddisfly	None	Tracked	Insect	--	--	--	--	1	1
<i>Lycaena epixanthe michiganensis</i>	Bog Copper	None	Tracked	Insect	1	2	4	1	2	4
<i>Myriophyllum tenellum</i>	Leafless Water Milfoil	None	Tracked	Vascular Plant	--	1	3	--	2	3
<i>Ranunculus gmelinii</i>	Small Yellow Water Crowfoot	None	Tracked	Vascular Plant	--	--	--	--	--	2
<i>Rhynchospora fusca</i>	Sooty-colored Beak-rush	None	Tracked	Vascular Plant	--	--	--	1	1	1
<i>Sparganium glomeratum</i>	Clustered Bur-reed	None	Tracked	Vascular Plant	--	--	--	--	--	1
<i>Triglochin palustris</i>	Marsh Arrow-grass	None	Tracked	Vascular Plant	--	--	--	--	--	1
<i>Utricularia gibba</i>	Humped Bladderwort	None	Tracked	Vascular Plant	--	--	--	--	--	2
Colonial Waterbird Nesting Area	Colonial Waterbird Nesting Site	--	--	Animal Assemblage	--	2	3	--	--	1

Appendix G

Rare Communities Data Tables

Sources: MBS 2014 Reference 57

Footnotes: (1) S2 – community is imperiled; S3 – community is vulnerable to extirpation or extinction; S4 – community is apparently secure; S5 – community is demonstrably widespread, abundant, and secure: “CMX” refers to complex

(2) The buffer distances includes both sides of the anticipated alignment. For example, count with a buffer of 100 ft includes 100 ft on each side of the anticipated alignment. Buffer distances are cumulative. For example, impacts accrued within the 100 ft buffer are also included within the 1,500 ft buffer. For this EIS, the 100 ft buffer is the equivalent of the ROW. The 1,500 ft buffer represents the route width used for the GIS analysis in this EIS. The Presidential permit and Route Permit applications use a route width that ranges from 1,500 feet to 3,000 feet.

Type	State Rank ⁽¹⁾	Border Crossing Variation Area										Roseau Lake WMA Variation Area					
		Proposed Border Crossing-Blue/Orange Route		Border Crossing Pine Creek Variation		Border Crossing Hwy 310 Variation		Border Crossing 500kV Variation		Border Crossing 230kV Variation		Proposed Blue/Orange Route		Roseau Lake WMA Variation 1		Roseau Lake WMA Variation 2	
		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)	
		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)	
Graminoid Rich Fen (Water Track), Flark Subtype	S2	--	1	--	--	--	--	20	268	--	2	--	--	--	--	--	--
Alder - (Red Currant - Meadow-Rue) Swamp	S3	--	--	--	--	1	21	--	--	--	--	2	27	--	--	2	27
Graminoid Rich Fen (Water Track), Featureless Water Track Subtype	S3	14	268	14	249	13	240	9	93	--	18	14	249	--	--	--	151
Lowland White Cedar Forest (Northern)	S3	--	--	--	--	6	76	--	--	--	--	--	--	--	--	--	--
Rich Black Spruce Swamp (Water Track)	S3	5	34	--	12	--	40	--	--	--	--	--	12	--	--	--	--
Rich Fen (Peatland)	S3	--	--	--	--	--	--	--	--	--	--	20	312	--	--	20	312
Tamarack - Black Spruce Swamp (Aspen Parkland)	S3	3	38	3	38	--	--	--	--	--	--	3	38	--	--	--	--
White Cedar Swamp (Northwestern)	S3	--	--	--	--	--	34	--	--	--	--	--	--	--	--	--	--
Aspen - Fir Forest	S3/S4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Black Ash - Alder Swamp (Northern)	S4	--	--	--	--	6	40	--	--	--	--	--	--	--	--	--	--
Black Ash - Mountain Maple Swamp (Northern)	S4	--	--	--	--	--	--	--	--	--	34	--	--	--	--	--	--
Lowland Black Ash - Aspen - Balsam Poplar Forest	S4	6	80	6	53	--	--	--	--	--	--	7	98	--	<0.5	2	46
Northern Rich Fen (Water Track)	S4	--	152	--	7	--	--	11	224	--	103	--	7	--	1	--	1
Rich Tamarack (Sundew - Pitcher Plant) Swamp	S4	65	526	13	135	7	111	7	65	--	33	10	134	4	78	4	78
Shrub Rich Fen (Water Track)	S4	5	63	5	63	5	63	4	95	31	309	5	63	--	--	--	<0.5
Sedge Meadow	S4/S5	2	109	2	52	2	47	9	120	--	<0.5	2	47	--	--	2	47
Alder - (Maple - Loosestrife) Swamp	S5	--	65	2	29	5	15	--	13	1	43	--	9	2	8	2	11
Willow - Dogwood Shrub Swamp	S5	24	263	24	248	24	243	1	53	3	45	24	243	--	--	24	243
Felsic Cliff (Northern) / Northern Talus Complex	CMX	--	--	--	--	--	--	--	--	--	1	<0.5	17	--	--	<0.5	17
Shrub Swamp Complex	CMX	--	--	--	--	--	--	--	--	--	1	19	210	--	--	19	210

Type	State Rank ⁽¹⁾	Cedar Bend WMA Variation Area				Beltrami North Variation Area					
		Proposed Blue/Orange Route		Cedar Bend WMA Variation		Proposed Blue/Orange Route		Beltrami North Variation 1		Beltrami North Variation 2	
		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)	
		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)	
Graminoid Rich Fen (Water Track), Flark Subtype	S2	--	--	--	--	--	--	--	--	--	--
Alder - (Red Currant - Meadow-Rue) Swamp	S3	2	27	--	--	--	--	--	--	--	--
Graminoid Rich Fen (Water Track), Featureless Water Track Subtype	S3	--	--	--	--	--	--	--	--	--	--
Lowland White Cedar Forest (Northern)	S3	--	--	--	--	--	--	--	--	--	--
Rich Black Spruce Swamp (Water Track)	S3	--	--	--	--	--	--	--	--	7	134
Rich Fen (Peatland)	S3	20	312	--	--	--	--	--	--	--	--
Tamarack - Black Spruce Swamp (Aspen Parkland)	S3	--	--	--	--	--	--	--	--	--	--
White Cedar Swamp (Northwestern)	S3	--	--	--	--	--	--	--	--	--	--
Aspen - Fir Forest	S3/S4	--	--	--	--	--	--	--	--	<0.5	5
Black Ash - Alder Swamp (Northern)	S4	--	--	--	--	--	--	--	--	--	--
Black Ash - Mountain Maple Swamp (Northern)	S4	--	--	--	--	--	--	--	--	--	--
Lowland Black Ash - Aspen - Balsam Poplar Forest	S4	2	46	--	18	--	--	--	--	--	--
Northern Rich Fen (Water Track)	S4	--	--	--	--	--	--	--	--	2	20
Rich Tamarack (Sundew - Pitcher Plant) Swamp	S4	--	--	--	--	--	--	--	--	8	137
Shrub Rich Fen (Water Track)	S4	--	--	--	--	--	--	--	--	--	21
Sedge Meadow	S4/S5	--	--	--	--	--	--	--	--	--	--
Alder - (Maple - Loosestrife) Swamp	S5	--	--	--	--	--	--	--	--	5	114
Willow - Dogwood Shrub Swamp	S5	--	--	--	--	--	--	--	--	--	--
Felsic Cliff (Northern) / Northern Talus Complex	CMX	<0.5	17	--	--	--	--	--	--	8	90
Shrub Swamp Complex	CMX	19	210	--	32	--	--	--	--	--	--

Type	State Rank ⁽¹⁾	Beltrami North Central Variation Area											
		Proposed Blue/Orange Route		Beltrami North Central Variation 1		Beltrami North Central Variation 2		Beltrami North Central Variation 3		Beltrami North Central Variation 4		Beltrami North Central Variation 5	
		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)		Buffer ⁽²⁾ (ft)	
		100	1,500	100	1,500	100	1,500	100	1,500	100	1,500	100	1,500
		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)		Area (ac)	
Graminoid Rich Fen (Water Track), Flark Subtype	S2	--	--	--	--	--	--	--	--	--	--	--	
Alder - (Red Currant - Meadow-Rue) Swamp	S3	--	--	--	--	--	--	--	--	--	--	--	
Graminoid Rich Fen (Water Track), Featureless Water Track Subtype	S3	--	--	--	--	--	--	--	--	--	--	--	
Lowland White Cedar Forest (Northern)	S3	--	--	--	--	--	--	--	--	--	--	--	
Rich Black Spruce Swamp (Water Track)	S3	--	--	--	--	--	--	--	--	--	--	--	
Rich Fen (Peatland)	S3	--	--	--	--	--	--	--	--	--	--	--	
Tamarack - Black Spruce Swamp (Aspen Parkland)	S3	--	--	--	--	--	--	--	--	--	--	--	
White Cedar Swamp (Northwestern)	S3	--	--	--	--	--	--	--	--	--	--	--	
Aspen - Fir Forest	S3/S4	--	--	--	--	--	--	--	--	--	--	--	
Black Ash - Alder Swamp (Northern)	S4	--	--	--	--	--	--	--	--	--	--	--	
Black Ash - Mountain Maple Swamp (Northern)	S4	--	--	--	--	--	--	--	--	--	--	--	
Lowland Black Ash - Aspen - Balsam Poplar Forest	S4	--	--	--	--	--	--	--	--	--	--	--	
Northern Rich Fen (Water Track)	S4	--	--	--	--	--	--	--	--	--	--	--	
Rich Tamarack (Sundew - Pitcher Plant) Swamp	S4	--	--	--	--	--	--	--	--	--	--	--	
Shrub Rich Fen (Water Track)	S4	--	--	--	--	--	--	--	--	--	--	--	
Sedge Meadow	S4/S5	--	--	--	--	--	--	--	--	--	--	--	
Alder - (Maple - Loosestrife) Swamp	S5	--	--	--	--	--	--	--	--	--	--	--	
Willow - Dogwood Shrub Swamp	S5	--	--	--	--	--	--	--	--	--	--	--	
Felsic Cliff (Northern) / Northern Talus Complex	CMX	--	--	--	--	--	--	--	--	--	--	--	
Shrub Swamp Complex	CMX	--	--	--	--	--	--	--	--	--	--	--	

Appendix H
Noise Supplement

Appendix H Noise Supplement

Noise Overview and Noise Standards

Noise is generally defined as unwanted sound. Sound travels in mechanical wave motion and produces a sound pressure level. Sound pressure level is commonly measured in decibels (dB), representing the logarithmic increase in sound energy relative to a reference energy level. Sound measurement is further refined by using an A-weighted decibel scale (dBA) to emphasize the range of sound frequencies that are most audible to the human ear (i.e., between 1,000 and 8,000 cycles per second). Decibel measurements discussed in this environmental impact statement (EIS) are presented using the dBA scale (MPCA 2008, reference H1).

A noise level change of three dBA is barely discernible to average human hearing. A five dBA change in noise level, however, is clearly noticeable. A ten dBA change in noise levels is perceived as a doubling or halving of noise loudness, while a 20 dBA change is considered a dramatic change in loudness. Cumulative noise increases occur on a logarithmic scale. If a noise source is doubled, there is a three dBA increase in noise, which is barely discernible to the human ear. For cumulative increases in noise resulting from sources of different magnitudes, the rule of thumb is that if there is a difference of greater than ten dBA between noise sources, there will be no additive effect to the overall noise level. Figure H-1 shows noise levels associated with common, everyday sources and provides a context for the magnitude of noise levels discussed here.

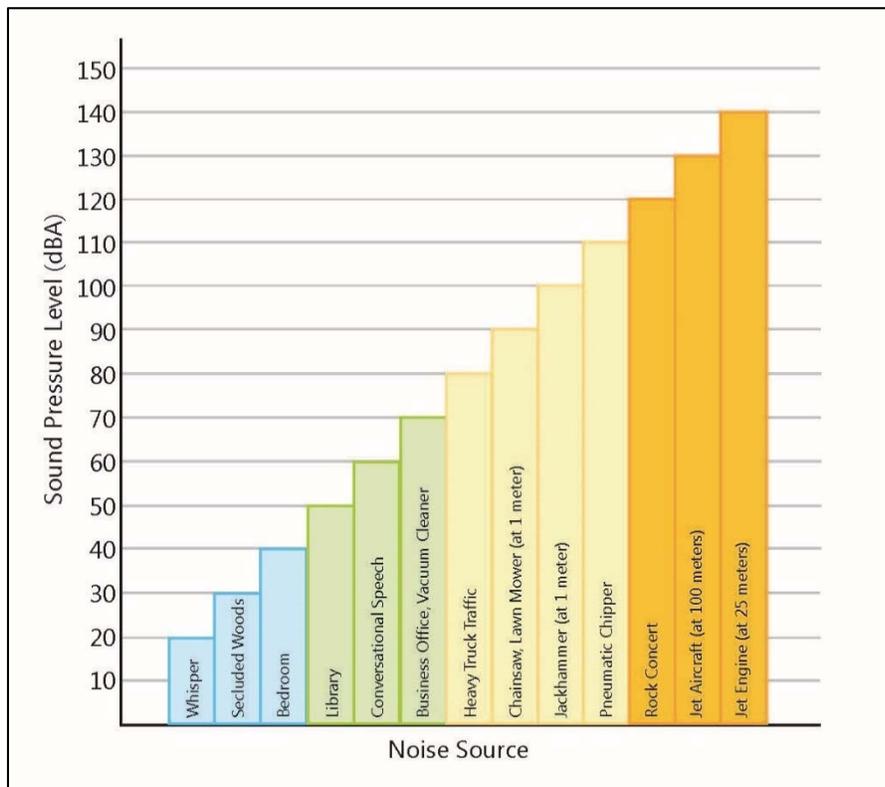


Figure H-1 Noise levels associated with common, everyday sources

Typically, noise is evaluated according to two general criteria: the extent to which noise levels exceed federal, state, or (where applicable) local noise regulations; and the estimated degree of disturbance to people.

The Minnesota Pollution Control Agency (MPCA) has established standards for the regulation of noise levels. Land use activities associated with residential, commercial and industrial land have been grouped together into Noise Area Classifications (NAC;Minn. R. 7030.0050). Each NAC is then assigned both daytime (7 a.m.to 10 p.m.) and nighttime (10 p.m. to 7 a.m.) limits for land use activities within the NAC (Minn. R. 7030.0040).

Table H-1 shows the MPCA daytime and nighttime limits in dBA for each NAC. The limits are expressed as a range of permissible dBA within a one hour period. L₅₀ is the dBA that may be exceeded 50 percent of the time within an hour, while L₁₀ is the dBA that may be exceeded ten percent of the time within one hour. Residences, which are typically considered sensitive to noise, are classified as NAC-1 (MPCA 2008, reference H1).

Table H-1 Applicable Noise Standards for Different Land Uses in Minnesota

Noise Area Classification (NAC)	Noise Standard dB(A)			
	Daytime (7 a.m. to 10 p.m.)		Nighttime (10 p.m. to 7 a.m.)	
	L ₅₀	L ₁₀	L ₅₀	L ₁₀
Residential (NAC-1)	60	65	50	55
Commercial (NAC-2)	65	70	65	70
Industrial (NAC-3)	75	80	75	80
Undeveloped (NAC-4)	None	None	None	None

Minnesota’s state noise level standards are more stringent than the U.S. Department of Housing and Urban Development standards; therefore, noise levels in the project area can conservatively be compared to state standards.

In addition to local, state, and federal standards, the degree of disturbance becomes a key factor in evaluating noise conditions. Typically this includes a focus on residents in the vicinity of the area under evaluation. The concept of human disturbance varies with a number of interrelated factors, including changes in noise levels, the presence of other, non-project-related noise sources in the vicinity, people’s attitudes toward the project, the number of people exposed, and the type of human activity affected (e.g., sleep or quiet conversation as compared to physical work or active recreation).

Project Noise

Noise associated with the project would be produced by construction of the transmission lines and substations, and by its operation.

As discussed in the Section 6.1.3 of this EIS, noise levels associated with construction will be highly localized and intermittent. Table H-2 and Table H-3 provides additional detail regarding typical noise

levels associated with a variety of types of construction equipment that may be used during construction of the proposed project. Receptors (people/residences), though perhaps nearby, would be located outside of the immediate construction area, so sound levels associated with construction equipment shown in Tables H-2 and Table H-3 are not necessarily indicative of noise levels experienced by sensitive receptors.

Table H-2 Typical Noise Levels of Transmission Line Construction Equipment

Equipment Type	Maximum Noise Level (Lmax, dBA)	Utilization Factor	Estimated Noise Level (dBA) at 50 feet
Pickup Truck	55	0.4	51
Crew Cab	55	0.4	51
Compressor Trailer	80	0.4	76
Crane	85	0.16	77
Backhoe/Frontend loader	80	0.4	76
Auger Truck	85	0.2	78
Water Truck	84	0.4	80
Dump Truck	84	0.4	80
Concrete Truck	85	0.4	81
Fork Lift	86	0.4	82
Vibratory Pile Driver	95	0.2	88
Estimated Transmission Line Construction Noise Level (at 50 feet)			91

Sources: (FHWA 2006, Reference H2)

Notes: Noise emission levels and utilization factors are based on FHWA guidelines.

Table H-3 Typical Noise Levels of Substation Construction Equipment

Equipment Type	Maximum Noise Level (dBA)	Distance (feet)	Utilization Factor	Estimated Noise Level (dBA) at 50 feet
Backhoe	80	50	0.4	76
Bobcat	82	50	0.8	81
Flatbed Truck	84	50	0.4	80
Excavator	85	50	0.4	81
Foundation Auger	85	50	0.2	78
Dump Truck	84	50	0.4	80
Concrete Truck	85	50	0.4	81
Loader	80	50	0.4	76
Forklift	86	50	0.4	82
Crane	85	50	0.16	77
Water Truck	84	50	0.4	80
Crew Vehicle	55	50	0.4	51
Manlift	85	50	0.2	78
Paving Roller	85	50	0.2	78
Asphalt Paver	85	50	0.5	82
Tractor	84	50	0.4	80
Compressor	80	50	0.4	76
Generator	82	50	0.5	79
Estimated Substation Construction Noise Level (at 50 feet)				92

Sources: (FHWA 2006, Reference H2)

Notes: Noise emission levels and utilization factors are based on FHWA guidelines.

Construction of the proposed compensation station and regeneration stations is assumed to require similar equipment as those necessary to build the proposed Blackberry 500 kV substation, resulting in similar levels of construction noise

Noise from the operation of transmission lines is primarily associated with the “corona effect,” small electrical discharges which ionize surrounding air molecules, causing a cracking or hissing noise that may be audible from directly below the transmission line, especially during damp conditions. The Applicant has modeled Audible Noise (AN) from the proposed 500 kV transmission lines under rainy conditions (worst case scenario for noise generated from corona effect), considering two configurations: standalone 500 kV transmission line and collocation of the proposed Project with existing transmission lines. The Applicant’s calculations for the audible noise results are provided in Table H-4.

Table H-4 Predicted Audible Noise Levels from the proposed Project Transmission Line in Rainy Weather Conditions

Proposed Transmission Line Configuration	Maximum Audible Noise Level (dBA)		
	Within ROW	At edge of ROW	At 300 feet from centerline
500 kV Transmission Line (Stand-alone, not paralleling existing lines)	51	48	43
500 kV Transmission Line paralleling existing 500 kV Transmission Line ⁽¹⁾	51	48	43
500 kV Transmission Line paralleling existing 230 kV Transmission Line ⁽²⁾	51	50	46
500 kv Transmission Line paralleling existing 115 kV Transmission Line ⁽³⁾	51	48	43
500 kV paralleling two existing 115 kV Transmission Lines ⁽⁴⁾	52	52	51
500 kV paralleling existing 115 kV and 230 kV Transmission Lines ⁽⁵⁾	51	48	44

Source: (Power Engineer 2013, Reference H3); (Power Engineer 2014, Reference H4).

Notes:

- (1) Existing 500 kV D602F transmission line (self-supporting tower structures). For this analysis the applicant calculated audible noise up to 400 feet from the centerline. Results are reported at 300 feet for comparison purposes.
- (2) Existing 230 kV 83L transmission line (H-Frame structures).
- (3) Existing 115 kV 28L tap (H-Frame structures).
- (4) Existing 115 kV 62L and 63L transmission lines (H-Frame structures).
- (5) Existing 115 kV 28L and 230 kV 83L transmission lines (H-Frame structures).

Noise from operation of the proposed Project does not solely emanate from the transmission line; it also includes noise from the proposed Blackberry Substation. Operating noise results from vibrations associated with magnetic forces inside substation transformers and from cooling fans and pumps that control transformer temperature. Most of the other equipment at a substation is either silent or generates minimal noise in comparison to the transformers. It is anticipated that the substation transformers installed at the proposed Blackberry 500 kV Substation would not exceed the values specified by the National Electrical Manufacturers Association (NEMA) Standards. The NEMA Standards maximum sound

levels applicable to the proposed Project oil-immersed transformers are 91 dB at 1 foot (NEMA 2000, reference H5). Based on these assumptions, the predicted noise operational level perceived at 100 feet from the proposed Blackberry 500 kV Substation would be 41 dBA. No residences have been identified in the vicinity of the substation site. The closest non-residential area identified is the Trout Lake Cemetery, located approximately 8,000 feet west from the existing Blackberry 230/115 kV Substation. Noise associated with capacitor banks and other electrical equipment commonly used in compensation stations would be lower than levels associated with substations, since they do not require the use of transformers.

Table H-5 provides the predicted noise levels associated with the proposed Project construction, transmission line operation, and substation operation and how they attenuate over distance.

Table H-5 Predicted Noise Levels for the Proposed Project

Proposed Project Noise Source/ Distance to Receiver (feet)	Predicted Noise Level (dBA)					
	50	100	250	500	1,000	1,500
500 kV Transmission Line Construction	91	85	77	71	65	62
Blackberry 500 kV Substation Construction	92	86	78	72	66	62
500 kV Transmission Line Operation	52	46	38	32	26	22
Blackberry 500 kV Substation Operation	47	41	33	27	21	17

Operational noise levels are below the Minnesota standards and because construction noise is intermittent and levels decrease by 6 dBA with a doubling of distance, noise levels at residences along the route are generally not expected to exceed Minnesota’s daytime noise standards during construction (Table H-1).

References

- H1. Minnesota Pollution Control Agency (MPCA). 2008. A Guide to Noise Control In Minnesota: Acoustical Properties, Measurement, Analysis and Regulation.
- H2. Federal Highway Administration (FHWA). 2006. FHWA Roadway Construction Noise Model User’s Guide. FHWA-HEP-05-054. January.
- H3. Power Engineer 2013. Memorandum: Great Northern Transmission Line Project – EMF and Corona Effects Calculations (includes appendices). August 8, 2013.
- H4. Power Engineer 2014. Memorandum: Great Northern Transmission Line Project – EMF and Corona Effects Calculations with Adjacent Lines. January 27. 2014.
- H5. National Electrical Manufacturers Association (NEMA). 2000. NEMA Standards Publication TR-1-1993 (R2000) Transformers, Regulators and Reactors. Rosslyn, VA.

Appendix I

Applicant's Audible Noise and EMF Calculations

**Predicted Intensity of Electric Fields (kV/m) at Maximum Operating Voltage
Where Not Paralleling Existing Transmission Lines**

Structure Type	Line Voltage	Distance from Project ROW Centerline										
		-300	-200	-100	-50	-25	0	25	50	100	200	300
500 kV Guyed-Delta	550 kV	0.080	0.215	1.330	5.137	6.414	3.071	6.413	5.136	1.329	0.214	0.079
500 kV Guyed-V	550 kV	0.096	0.321	2.325	7.027	5.284	4.907	5.278	7.021	2.320	0.319	0.096
500 kV Self-Supporting	550 kV	0.096	0.321	2.325	7.027	5.284	4.907	5.278	7.021	2.320	0.319	0.096

**Predicted Intensity of Electric Fields (kV/m) at Maximum Operating Voltage
Where Parallel to Existing 500 kV Transmission Line (Self-Supporting Tower)**

Structure Type	Line Voltage	Distance from Project ROW Centerline										
		-200	-100	-50	-25	0	25	50	100	200	300	400
Project: 500 kV Guyed-Delta Existing: 500 kV Self-Supporting	550 kV 550 kV	0.228	1.359	5.170	6.457	3.100	6.290	4.819	0.838	3.803	1.732	0.249
Project: 500 kV Guyed-V Existing: 500 kV Self-Supporting	550 kV 550 kV	0.342	2.358	7.060	5.322	4.888	5.114	6.702	1.487	3.754	1.756	0.264
Project: 500 kV Self-Supporting Existing: 500 kV Self-Supporting	550 kV 550 kV	0.342	2.358	7.060	5.322	4.888	5.114	6.702	1.487	3.754	1.756	0.264

**Predicted Intensity of Electric Fields (kV/m) at Maximum Operating Voltage
Where Parallel to Existing 500 kV Transmission Line (Guyed-Delta Tower)**

Structure Type	Line Voltage	Distance from Project ROW Centerline										
		-200	-100	-50	-25	0	25	50	100	200	300	400
Project: 500 kV Guyed-Delta Existing: 500 kV Guyed-Delta	550 kV 550 kV	0.237	1.347	5.149	6.429	3.049	6.287	4.856	0.415	3.842	1.080	0.213
Project: 500 kV Guyed-V Existing: 500 kV Guyed-Delta	550 kV 550 kV	0.327	2.335	7.041	5.319	4.935	5.177	6.760	1.442	3.896	1.092	0.200
Project: 500 kV Self-Supporting Existing: 500 kV Guyed-Delta	550 kV 550 kV	0.327	2.335	7.041	5.319	4.935	5.177	6.760	1.442	3.896	1.092	0.200

**Predicted Intensity of Electric Fields (kV/m) at Maximum Operating Voltage
Where Parallel to Existing 230 kV Transmission Line (H-Frame Tower)**

Structure Type	Line Voltage	Distance from Project ROW Centerline										
		-300	-200	-100	-50	-25	0	25	50	100	200	300
Project: 500 kV Guyed-Delta Existing: 230 kV H-Frame	550 kV 253 kV	0.080	0.218	1.337	5.146	6.426	3.079	6.377	5.035	0.818	2.495	0.190
Project: 500 kV Guyed-V Existing: 230 kV H-Frame	550 kV 253 kV	0.100	0.327	2.334	7.035	5.295	4.903	5.228	6.914	1.840	2.538	0.221
Project: 500 kV Self-Supporting Existing: 230 kV H-Frame	550 kV 253 kV	0.100	0.327	2.334	7.035	5.295	4.903	5.228	6.914	1.840	2.538	0.221

**Predicted Intensity of Electric Fields (kV/m) at Maximum Operating Voltage
Where Parallel to Existing 115 kV Transmission Line (H-Frame Tower)**

Structure Type	Line Voltage	Distance from Project ROW Centerline										
		-300	-200	-100	-50	-25	0	25	50	100	200	300
Project: 500 kV Guyed-Delta Existing: 115 kV H-Frame	550 kV 127 kV	0.079	0.214	1.329	5.136	6.413	3.073	6.421	5.152	1.388	0.359	0.029
Project: 500 kV Guyed-V Existing: 115 kV H-Frame	550 kV 127 kV	0.096	0.320	2.321	7.021	5.277	4.906	5.287	7.036	2.375	0.369	0.055
Project: 500 kV Self-Supporting Existing: 115 kV H-Frame	550 kV 127 kV	0.096	0.320	2.321	7.021	5.277	4.906	5.287	7.036	2.375	0.369	0.055

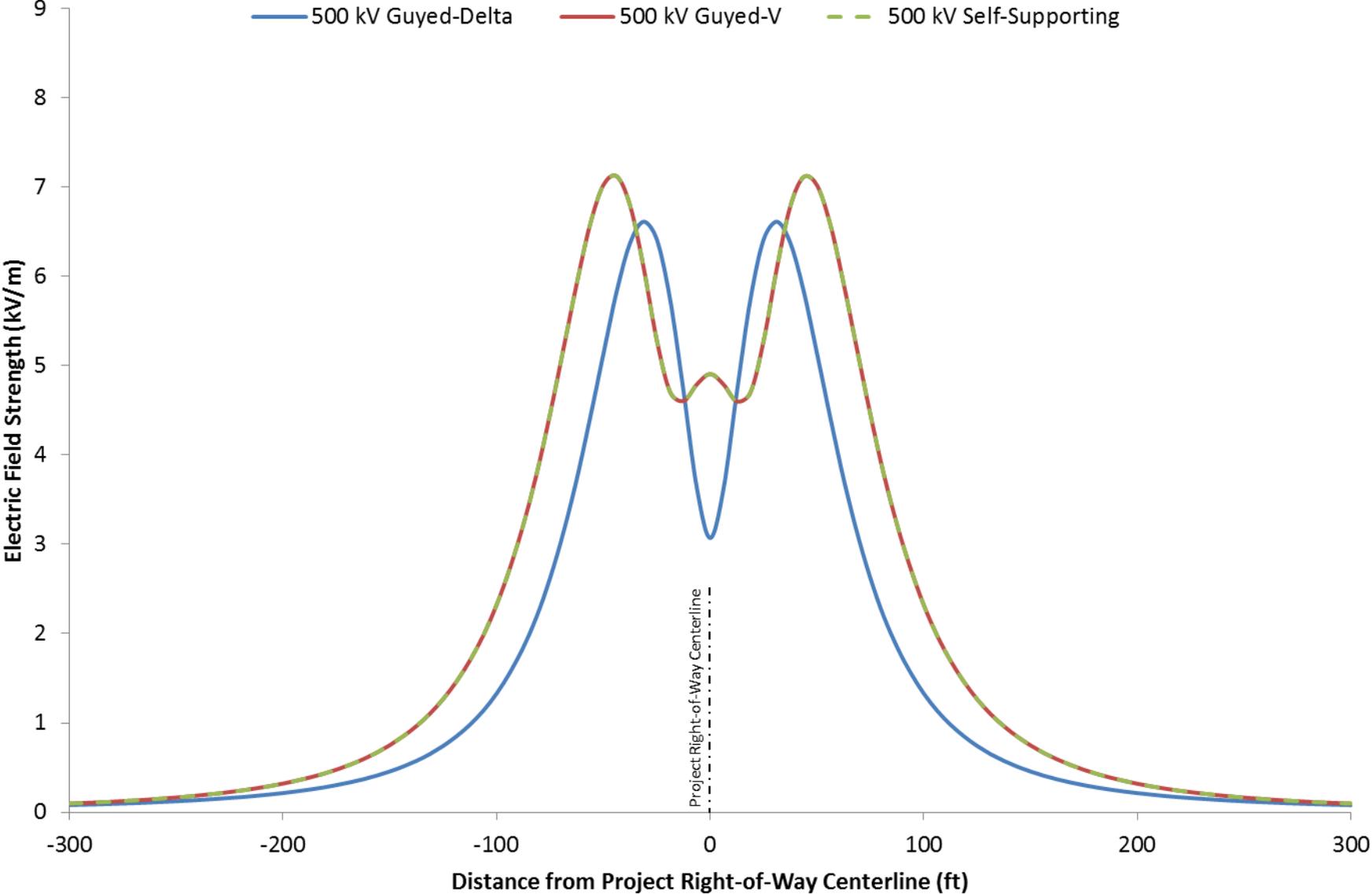
**Predicted Intensity of Electric Fields (kV/m) at Maximum Operating Voltage
Where Parallel to Two Existing 115 kV Transmission Lines (H-Frame Towers)**

Structure Type	Line Voltage	Distance from Project ROW Centerline										
		-300	-200	-100	-50	-25	0	25	50	100	200	300
Project: 500 kV Guyed-Delta	550 kV											
Existing: 115 kV H-Frame	127 kV	0.079	0.214	1.330	5.137	6.414	3.076	6.432	5.184	1.652	0.846	0.062
Existing: 115 kV H-Frame	127 kV											
Project: 500 kV Guyed-V	550 kV											
Existing: 115 kV H-Frame	127 kV	0.097	0.321	2.322	7.022	5.278	4.906	5.290	7.052	2.582	0.873	0.075
Existing: 115 kV H-Frame	127 kV											
Project: 500 kV Self-Supporting	550 kV											
Existing: 115 kV H-Frame	127 kV	0.097	0.321	2.322	7.022	5.278	4.906	5.290	7.052	2.582	0.873	0.075
Existing: 115 kV H-Frame	127 kV											

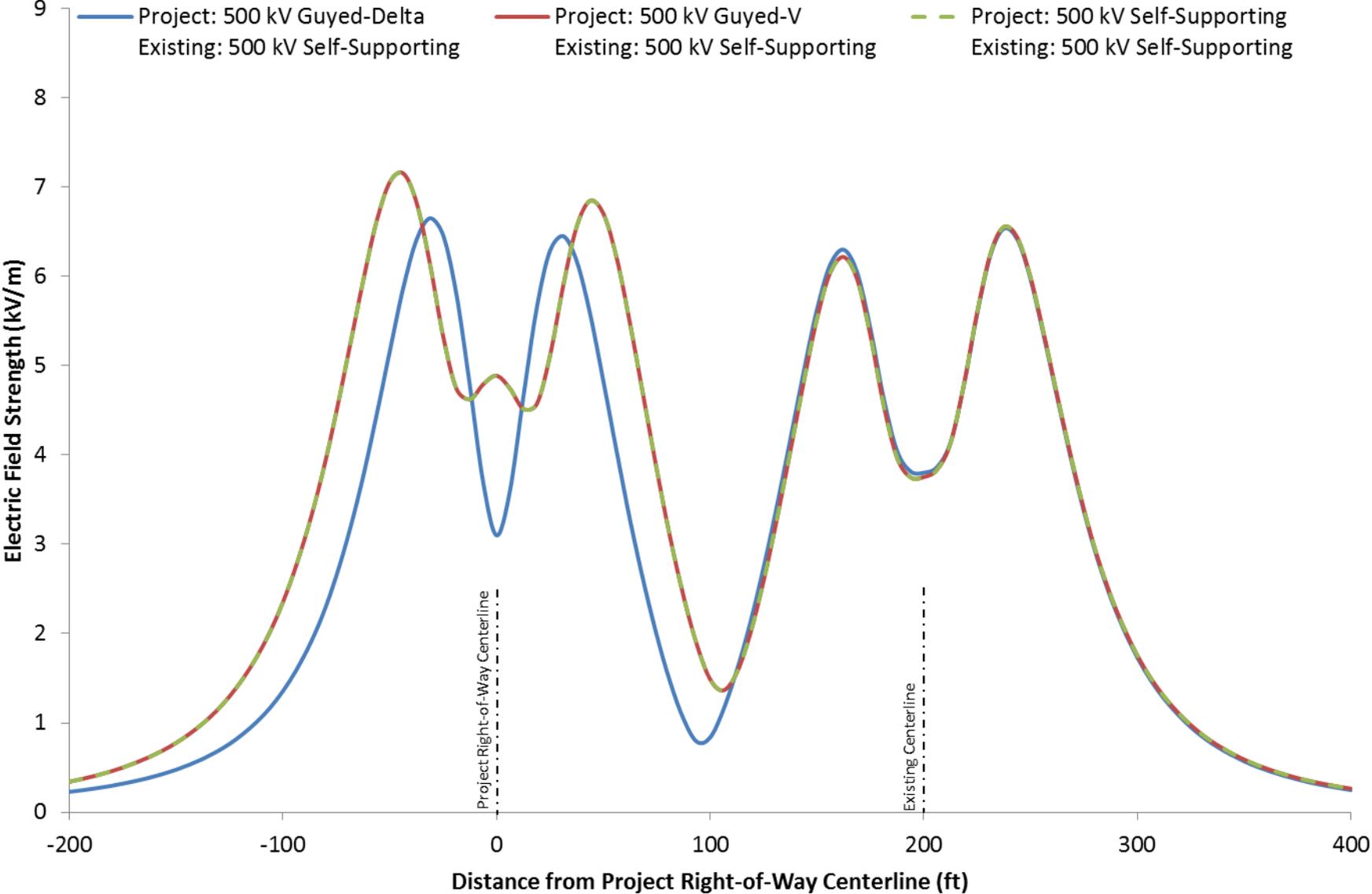
**Predicted Intensity of Electric Fields (kV/m) at Maximum Operating Voltage
Where Parallel to Existing 115 kV & 230 kV Transmission Lines (H-Frame Towers)**

Structure Type	Line Voltage	Distance from Project ROW Centerline										
		-300	-200	-100	-50	-25	0	25	50	100	200	300
Project: 500 kV Guyed-Delta	550 kV											
Existing: 115 kV H-Frame	127 kV	0.080	0.217	1.338	5.147	6.427	3.080	6.375	5.032	0.812	0.292	0.422
Existing: 230 kV H-Frame	253 kV											
Project: 500 kV Guyed-V	550 kV											
Existing: 115 kV H-Frame	127 kV	0.100	0.327	2.332	7.032	5.291	4.904	5.230	6.907	1.785	0.278	0.447
Existing: 230 kV H-Frame	253 kV											
Project: 500 kV Self-Supporting	550 kV											
Existing: 115 kV H-Frame	127 kV	0.100	0.327	2.332	7.032	5.291	4.904	5.230	6.907	1.785	0.278	0.447
Existing: 230 kV H-Frame	253 kV											

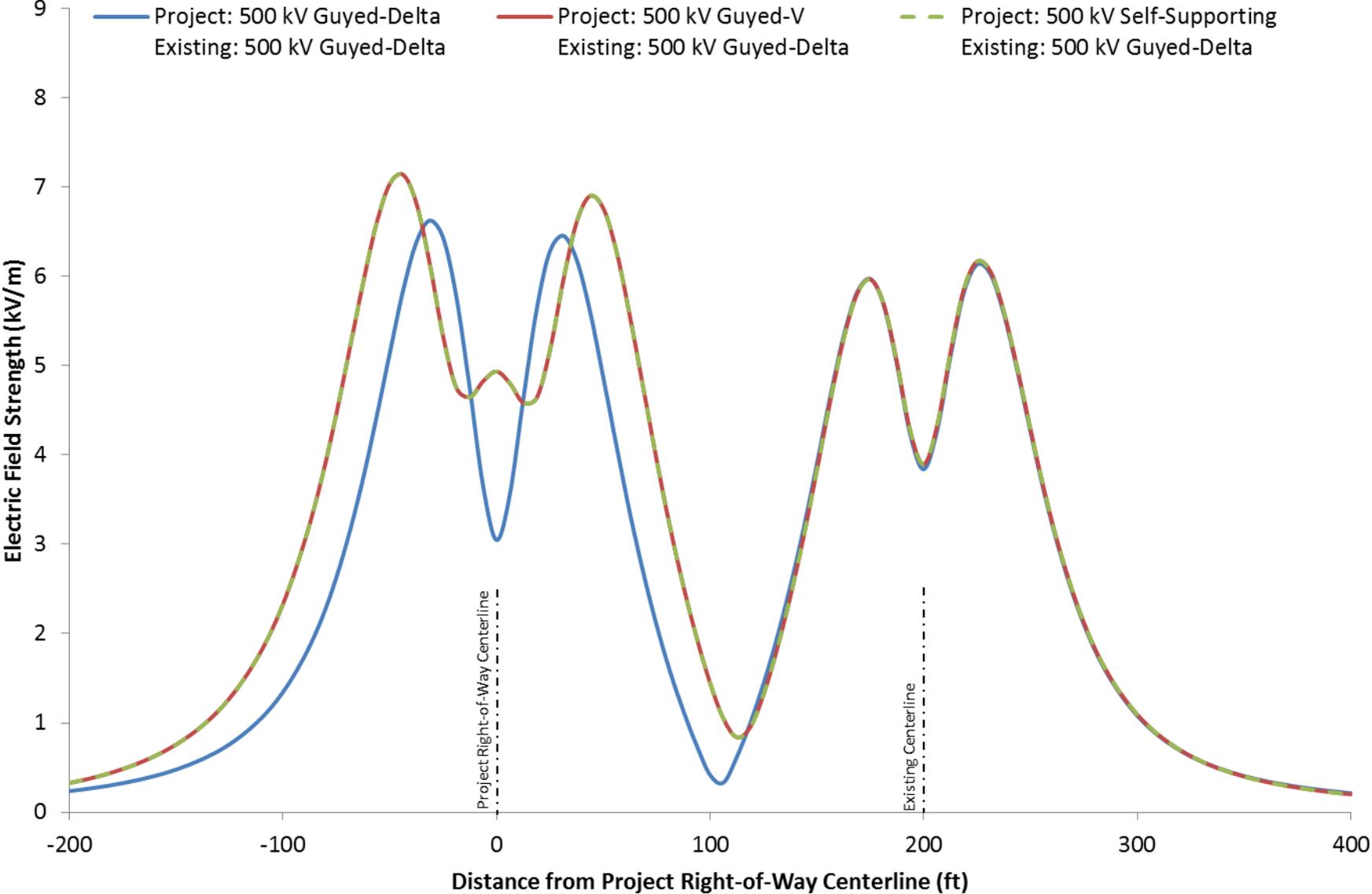
Predicted Intensity of Electric Fields at Maximum Operating Voltage Where Not Paralleling Existing Transmission Lines



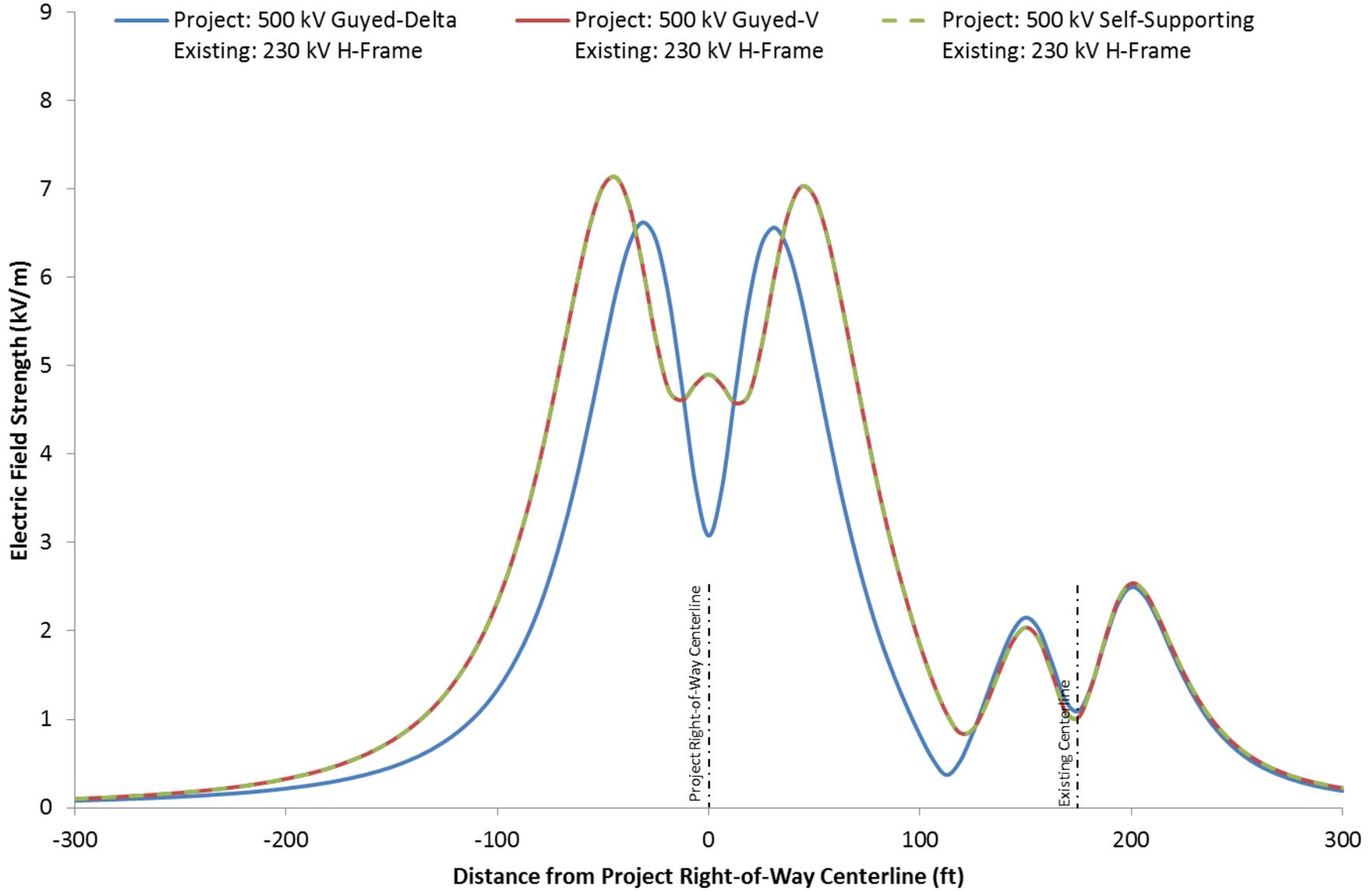
Predicted Intensity of Electric Fields at Maximum Operating Voltage Where Parallel to Existing 500 kV Transmission Line (Self-Supporting Tower)



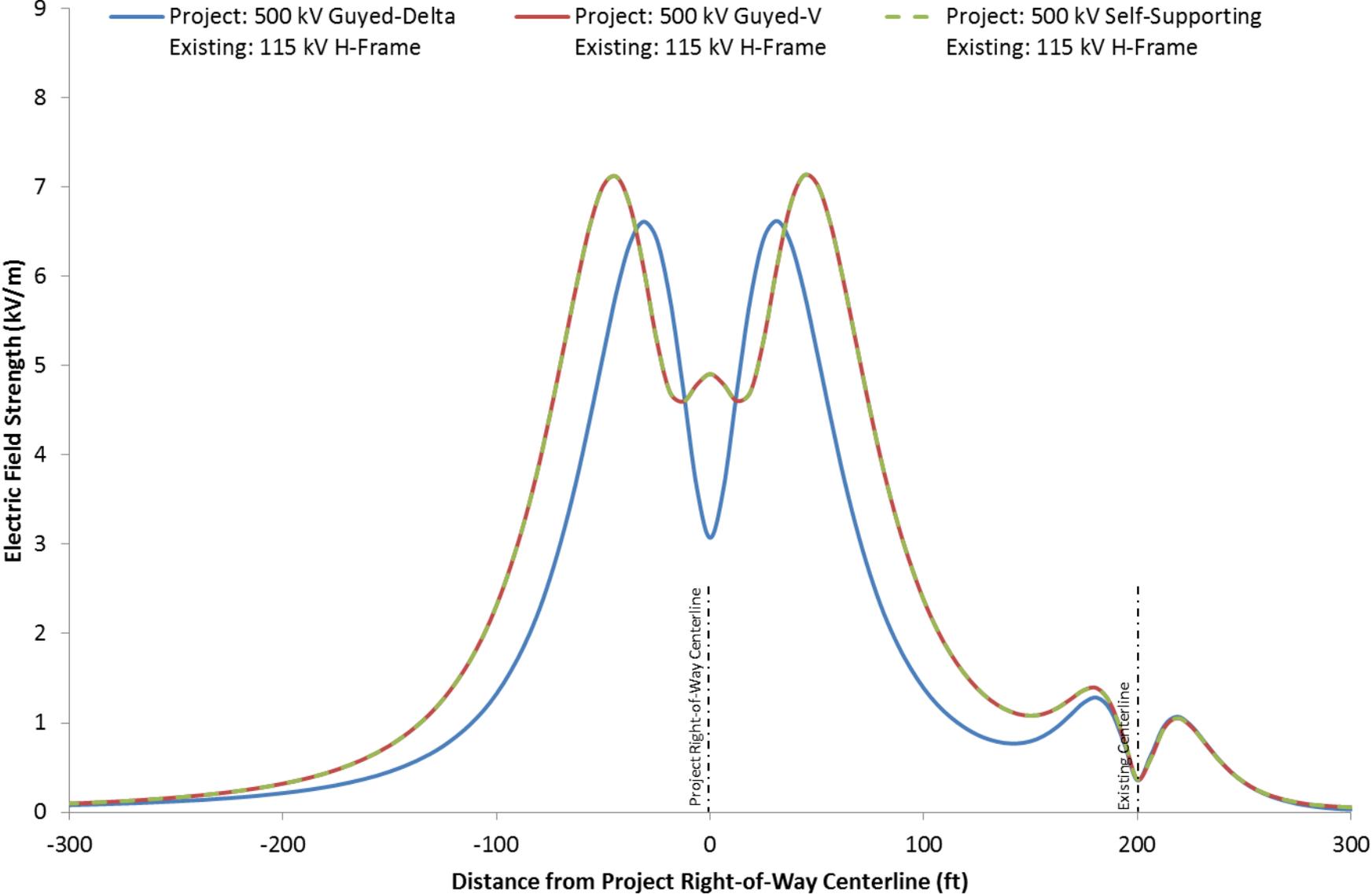
Predicted Intensity of Electric Fields at Maximum Operating Voltage Where Parallel to Existing 500 kV Transmission Line (Guyed-Delta Tower)



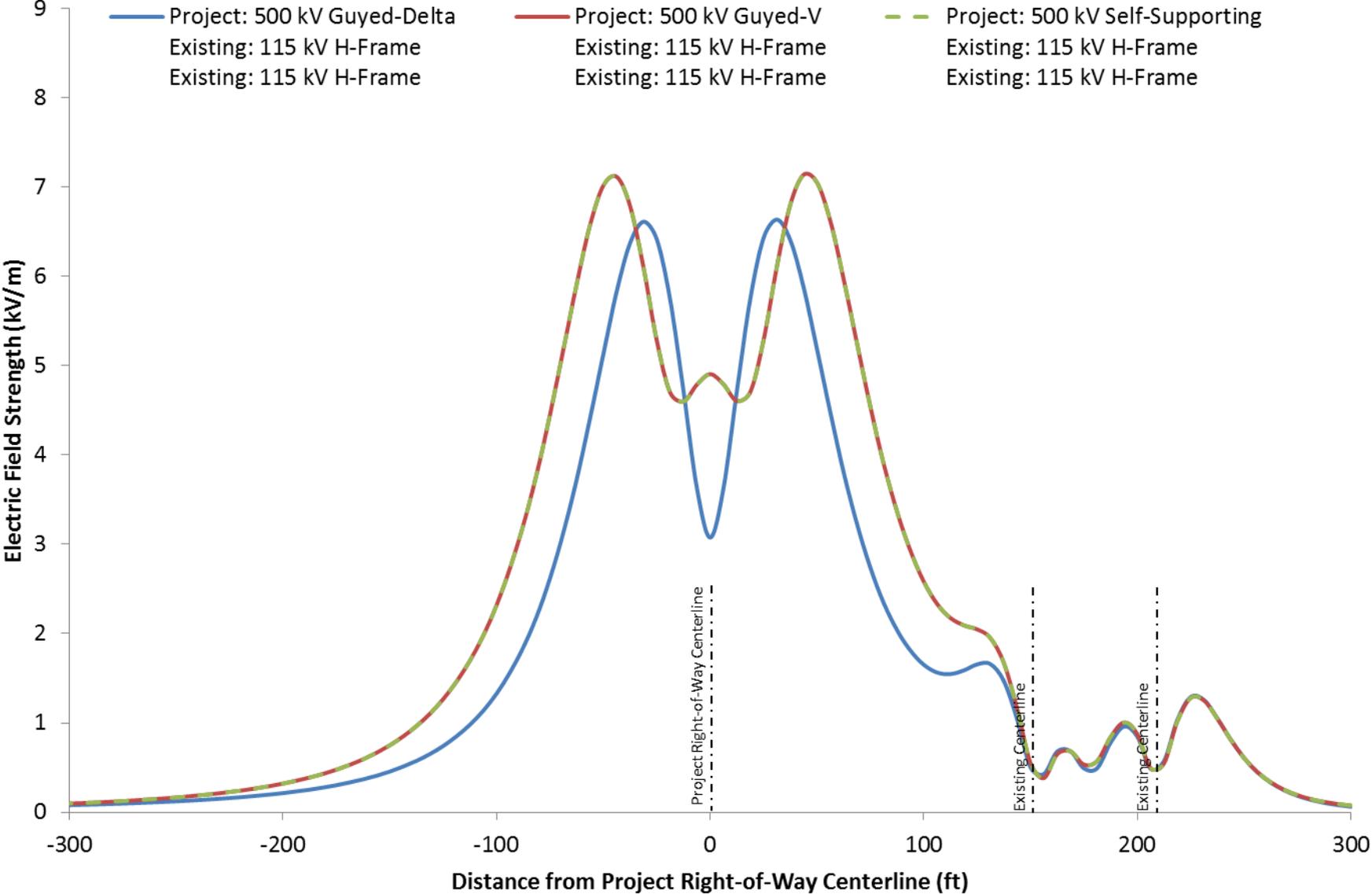
Predicted Intensity of Electric Fields at Maximum Operating Voltage Where Parallel to Existing 230 kV Transmission Line (H-Frame Tower)



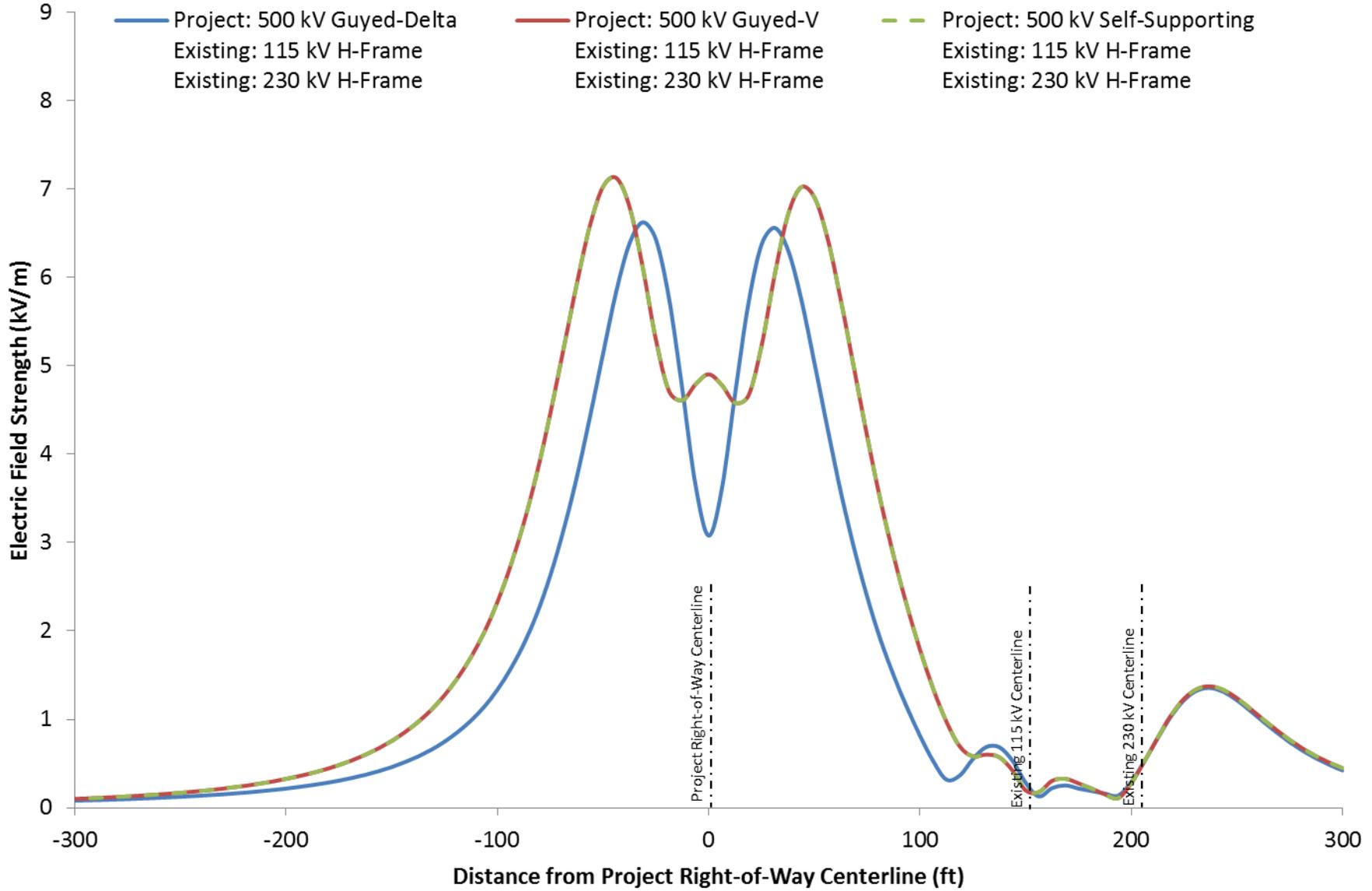
Predicted Intensity of Electric Fields at Maximum Operating Voltage Where Parallel to Existing 115 kV Transmission Line (H-Frame Tower)



Predicted Intensity of Electric Fields at Maximum Operating Voltage Where Parallel to Two Existing 115 kV Transmission Lines (H-Frame Towers)



Predicted Intensity of Electric Fields at Maximum Operating Voltage Where Parallel to Existing 115 kV & 230 kV Transmission Lines (H-Frame Towers)





MEMORANDUM

DATE: August 8, 2013

TO: Larry Henriksen

C: Kurt Bell

FROM: Josh Brown

SUBJECT: 127300 Great Northern Transmission Line Project – EMF and Corona Effects Calculations

MESSAGE

Larry,

Two transmission line configurations for the Great Northern Transmission Line Project (GNTL) were analyzed to determine electric and magnetic field (EMF) and corona effects from the transmission lines. The first set of cases is for a double circuit 345 kV transmission line which was investigated for both single and double circuit operation. The second set of cases is for a single circuit 500 kV transmission line. Included with this memo are Excel files (Field_Plots_345kV_C1-12_08_6_2013.xlsm, Field_Plots_500kV_C1-8_08_6_2013.xlsm) for the 345 kV and 500 kV transmission lines respectively. All values were calculated using BPA's Corona and Field Effects Program (CAFEP), Version 3.0.

DATA INPUT

EMF and corona effects from transmission lines are primarily dependent on the following parameters: conductor geometry, subconductor size/bundling, line phasing (double circuit configuration) current, voltage, and the elevation of the line. Attachments 1 - 4 show the structures analyzed for both the 345 kV and 500 kV transmission lines and includes the span lengths used, conductor types, and phasing (345 kV transmission line only). The 345 kV transmission line cases were analyzed with a maximum operating voltage, 105% of nominal (results in a maximum voltage of 362 kV). The 500 kV transmission line cases were analyzed with a maximum operating voltage, 110% of nominal (results in a maximum voltage of 550 kV). The following environmental factors were used for the investigation:

- Line elevation of 1,200 feet
- Ambient temperature of 30° C
- Latitude of 47°North

Conductor temperatures and sags were calculated based on the currents in Tables 1 and 2 and the span lengths, and environmental factors described above. The temperatures for the conductor sag were calculated using Southwire's SWRate software (Version 3.02). The 345 kV and 500 kV line conductor sags can be found in Attachments 5 and 6 and were calculated using Southwire's SAG10 software (Version 3.10.10).

Tables 1 and 2 identify the data inputs (345 kV and 500 kV configurations respectively) used to calculate the field and corona effects for each case in the included Excel files. The

345 kV analysis was performed using a minimum ground clearance of 30 feet. The 30 foot ground clearance resulted in minimum conductor attachment heights of 69.2 feet and 58.6 feet for the X-7 and X-8 structures respectively. To achieve the guideline of a maximum electric field strength less than 8 kV/m at one meter above the ground surface (required by the State of Minnesota), the attachment points of the 500 kV structures were adjusted by raising the structures approximately two feet. This results in a ground clearance of approximately 40 feet which was needed to achieve the electric field guideline. As a result of the increase in structure heights of approximately two feet, the minimum attachment height increases to 99.5 feet for the 500 kV structures.

Table 1: 345 kV Cases Analyzed

CURRENT	CONDUCTOR TEMP	LINES ENERGIZED	STRUCTURE TYPE	
			X-7	X-8
2,338 A	100° C	1	Case 1	Case 7
2,338 A	100° C	2	Case 2	Case 8
2,040 A	83.8° C	1	Case 3	Case 9
2,040 A	83.8° C	2	Case 4	Case 10
585 A	42.6° C	1	Case 5	Case 11
585 A	42.6° C	2	Case 6	Case 12

Table 2: 500 kV Cases Analyzed

CURRENT	CONDUCTOR TEMP	STRUCTURE TYPE	
		X-2	X-6
3,168 A	75° C	Case 1	Case 5
2,000 A	53.1° C	Case 2	Case 6
1,024 A	43.1° C	Case 3	Case 7
1,506 A	47.2° C	Case 4	Case 8

RESULTS

Results in the Excel files include the following for each case:

- **Magnetic Field** – The reported magnetic field values are the magnetic flux densities at a given point in space reported in units of milligauss. This calculation assumes balanced currents, calculations are performed at the minimum conductor height (mid-span), and is calculated one meter (3.28 feet) above the surface of the earth per IEEE Standard 644-1994 (R2008), IEEE Standard Procedures for Measurement of Power Frequency Electric and Magnetic Fields From AC Power Lines.
- **Electric Field**- The electric field strength is a measure of the force per unit charge at a given point in space relative to a charged object. It is typically measured in kilovolts per meter (kV/m). Values are calculated at the minimum conductor height (mid-span) at a height of one meter above the ground per IEEE Standard 644-1994 (R2008).
- **Audible Noise (Rain L50)** – Audible noise is measured as an equivalent A-weighted sound-pressure level in decibels (dBA). The L₅₀ Audible Noise (Foul Weather) values represent a predicted average (L₅₀) noise levels present when foul weather conditions cause the conductors to become wet. The actual value is expected to be at or below this calculated L₅₀ value 50% of the time, and above the

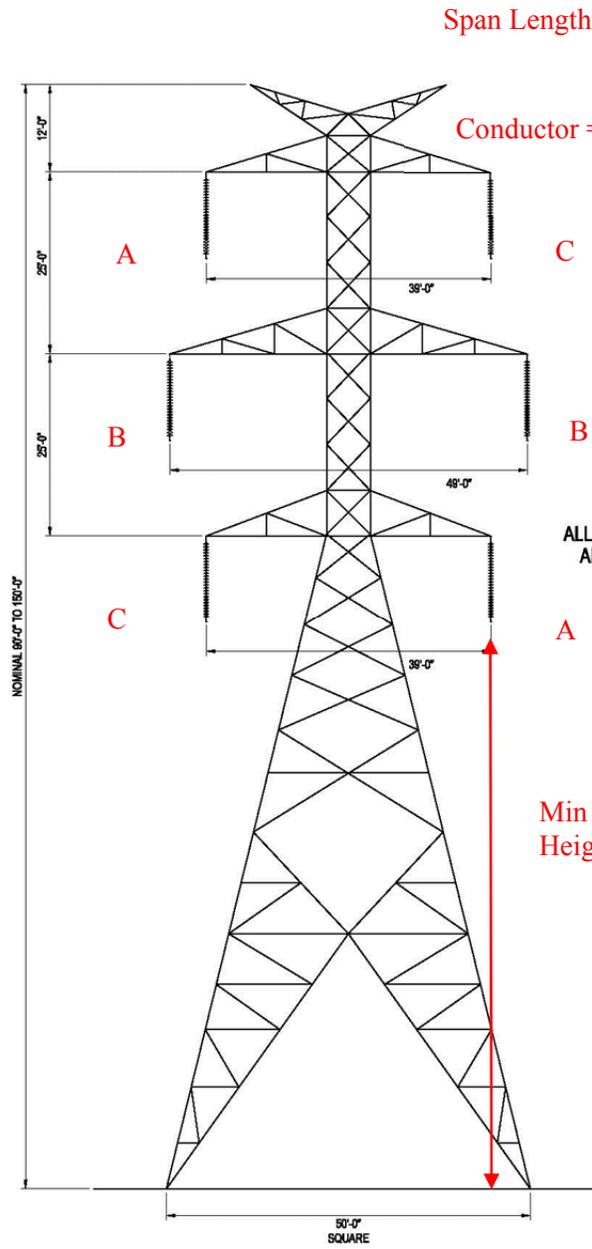
value the other 50% of the time. Values are calculated at a height of five feet above the ground per IEEE Standard 656-1992 (IEEE Standard for the Measurement of Audible Noise From Overhead Transmission Lines).

- **Audible Noise (Rain L₅)** –The L₅ Audible Noise (Foul Weather) values represent a predicted average (L₅) noise levels present when foul weather conditions cause the conductors to become wet. The actual value is expected to be at or below this calculated L₅ value 95% of the time, and above the value the other 5% of the time.
- **Radio Interference**–Radio interference is the degradation of a radio signal by radio frequency electromagnetic disturbances and is reported as the field strength of the interference. It is often measured in decibels (dB) of one microvolt per meter ($\mu\text{V}/\text{m}$), which is a logarithmic scale. The L₅₀ Radio Interference (Fair Weather) values represent the predicted average levels present when conductors are dry. The actual value of radio interference is expected to be at or below this calculated L₅₀ value 50% of the time, and above the value the other 50% of the time. Values are calculated at a height of six feet above the ground and at 1 MHz, using the average conductor height to approximate the average values along the entire line. IEEE Standard 430-1986 (IEEE Standard Procedures for the Measurement of Radio Noise from Overhead Power Lines and Substations) suggests that these measurements should be taken no greater than two meters above the surface.
- **Television Interference** - Television interference (TVI) is the degradation of a television signal by television frequency electromagnetic disturbances and is reported as the field strength of the interference. It is often measured in decibels (dB) of one microvolt per meter ($\mu\text{V}/\text{m}$) which is a logarithmic scale. The values are reported for wet conductor conditions, as TVI is negligible during fair weather. Values are calculated at a height of ten meters above the ground per IEEE Standard 430-1986 and FCC measurement guidelines, using the average conductor height to approximate the average values along the entire line. Television signals cover multiple bands and a large range of frequencies. These calculations are made in a dead band (75 MHz) in the lower VHF band (54-88 MHz), and interference effects will decrease moving into the upper VHF (174-216 MHz) and the UHF (470-698 MHz) bands.

If you have you any questions about the analysis performed please give me a call at 503 892-6714.

THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT, TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT. REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD
D	UPDATED INSULATOR	11/02/12	CM	RB	GK	
C	ISSUED FOR REVIEW	9/20/12	GC	RB	GK	
B	NOTES UPDATED	9/18/12	GC	RB		
A	PRELIMINARY OUTLINE					



Span Length = 1,100 ft

Conductor = Two 954 kcmil Cardinal ACSR, 18 inch bundle spacing

ALL DIMENSIONS ARE APPROXIMATE AND PRELIMINARY. SUBJECT TO CHANGE IN FINAL DESIGN.

Min Attachment Height 69.2 ft

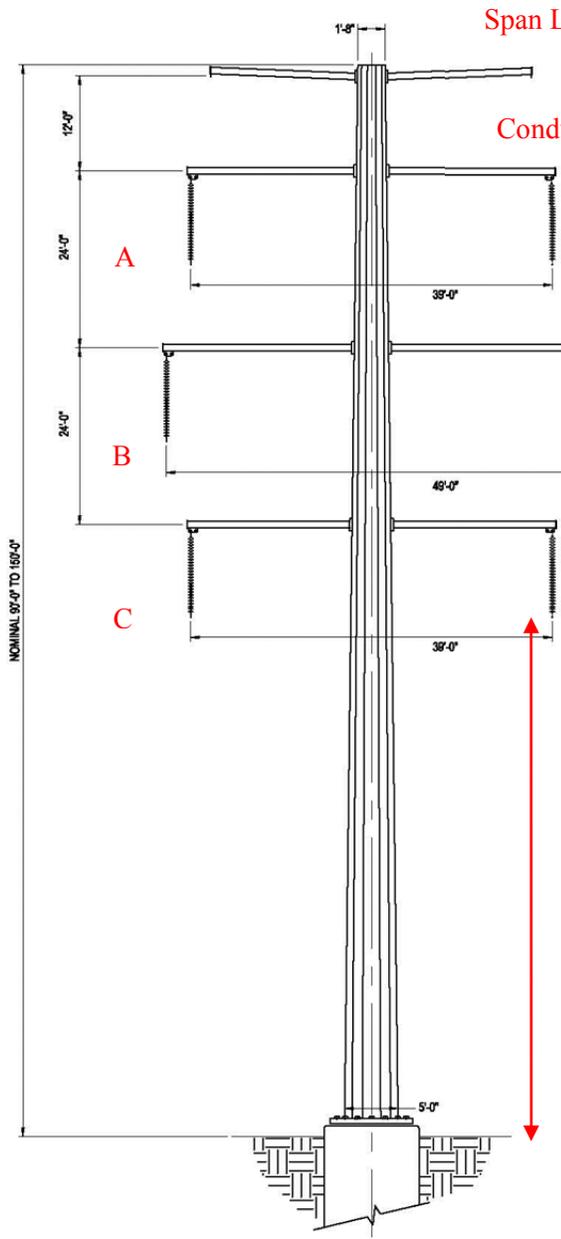
NOTES

1. AVERAGE SPAN:	1,100 FT
WIND SPAN:	1,250 FT
WEIGHT SPAN:	1,700 FT

Structures.dwg	DSGN	RB	9/14/12	POWER ENGINEERS	GREAT NORTHERN TRANSMISSION		JOB NUMBER	REV
	DRN	GC	9/17/12		MINNESOTA POWER		127300	
	CKD			SCALE: N.T.S.	345KV DOUBLE CIRCUIT LATTICE TOWER CONCEPTUAL TANGENT STRUCTURE		DRAWING NUMBER	
	REFERENCE DRAWINGS				FOR 8.5x11 DWD ONLY			X-7

THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT, TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT. REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

D	UPDATED INSULATOR	11/02/12	CM	RB	GK	
C	ISSUED FOR REVIEW	9/20/12	GC	RB	GK	
B	NOTES UPDATED	9/18/12	GC	RB	GK	
A	PRELIMINARY OUTLINE					
REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD



Span Length = 900 ft
 Conductor = Two 954 kcmil Cardinal ACSR, 18 inch bundle spacing

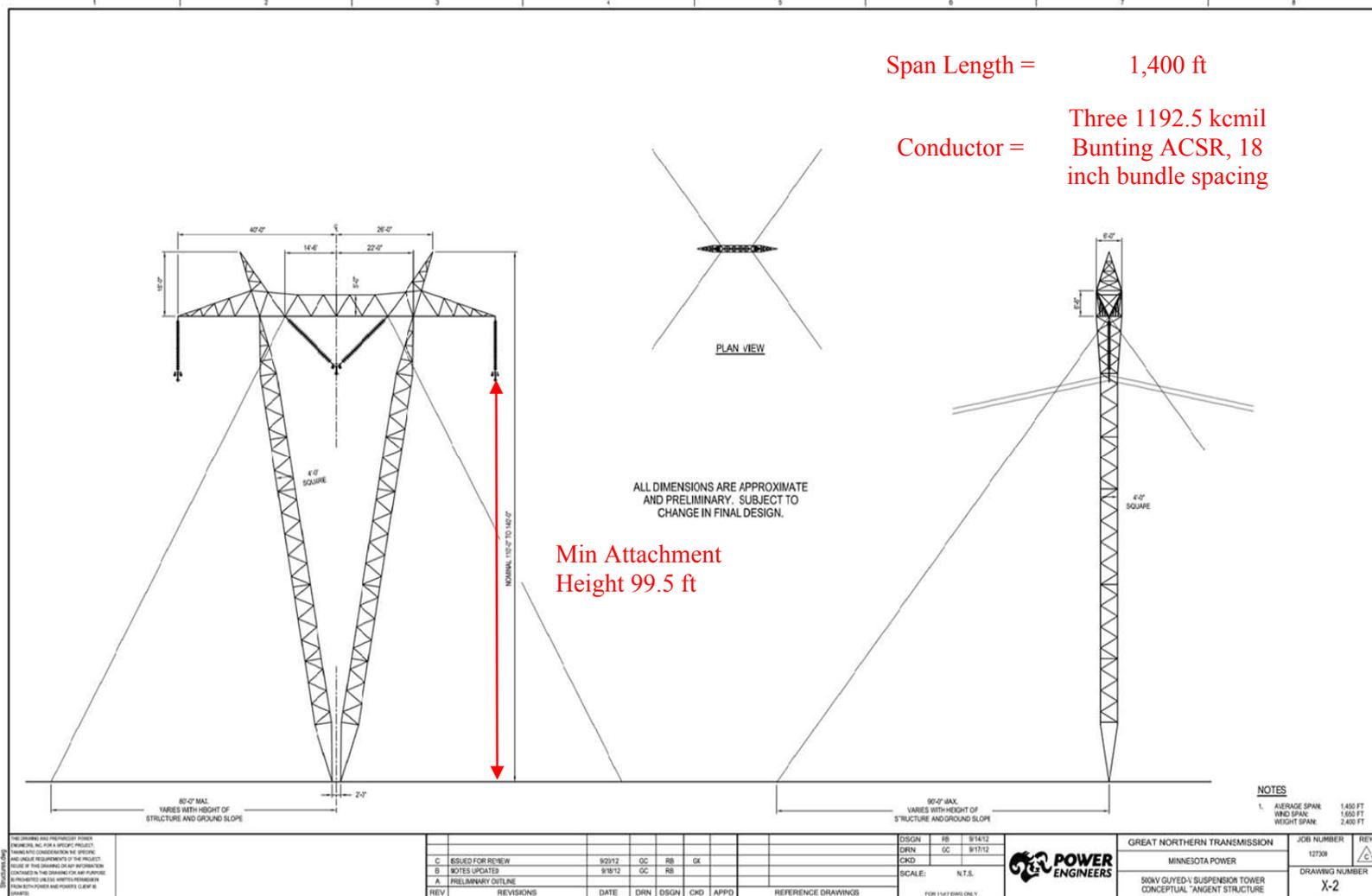
ALL DIMENSIONS ARE APPROXIMATE AND PRELIMINARY. SUBJECT TO CHANGE IN FINAL DESIGN.

Min Attachment Height 58.6 ft

NOTES

- AVERAGE SPAN: 900 FT
 WIND SPAN: 1,050 FT
 WEIGHT SPAN: 1,450 FT

Structures.dwg	DSGN	RB	9/14/12	POWER ENGINEERS	GREAT NORTHERN TRANSMISSION		JOB NUMBER	REV
	DRN	GC	9/17/12		MINNESOTA POWER		127300	
	CKD			SCALE: N.T.S.	345KV DOUBLE CIRCUIT STEEL POLE CONCEPTUAL TANGENT STRUCTURE		DRAWING NUMBER	
	REFERENCE DRAWINGS				FOR 8.5x11 DWG ONLY			X-8



3.10.10v



345 kV

7/31/2013
Power Engineers Inc

Minnesota Power
Great Northern Transmission Line
Approximate Sag Calculations

Conductor: 954.0 Kcmil 54/ 7 Stranding ACSA "CARINAL"
Area = 0.3462 Sq. in Diameter = 1.196 in Weight = 1.229 lb/ft AIS - 33200 lb
Data from Chart No. 1-23E
English Units
Limits and Outputs in Average Tensions.

Span - 1100.0 Feet
Ceasep is WOT a Factor

Special Load Zone
Rolled Rod

X-7

Design Points				Weight		Sag		Final Tension		Initial Tension	
Temp	Ice	Wind	X	lb/ft	lb/ft	Ft	lb	Ft	lb	Ft	lb
0.0	0.50	4.00	0.20	2.698	22.44	12247	20.01	12628			
5.0	0.50	6.40	0.00	2.566	23.22	11857	20.62	12140			
32.0	0.50	0.00	0.00	2.284	24.03	10182	20.56	11712			
60.0	0.00	57.60	0.00	5.871	42.28	20597	42.28	20597			
80.0	0.00	20.70	0.00	2.401	25.85	10142	21.44	11592			
90.0	0.00	6.00	0.00	1.367	22.21	6323	20.21	7876			
-20.0	0.00	0.00	0.00	1.229	26.27	6932	20.54	9061			
0.0	0.00	0.00	0.00	1.229	28.28	6590	21.74	8564			
30.0	0.00	0.00	0.00	1.229	30.24	6145*	22.59	7994			
60.0	0.00	0.00	0.00	1.229	32.22	5769	23.48	7310			
90.0	0.00	0.00	0.00	1.229	34.22	5442	24.22	6805			
95.0	0.00	0.00	0.00	1.229	34.57	5399	24.70	6728			
97.0	0.00	0.00	0.00	1.229	34.69	5380	24.82	6698			
100.0	0.00	0.00	0.00	1.229	34.80	5351	24.91	6652			
100.9	0.00	0.00	0.00	1.229	34.82	5342	24.97	6639			
102.0	0.00	0.00	0.00	1.229	35.06	5323	24.20	6602			
105.0	0.00	0.00	0.00	1.229	35.19	5304	24.22	6579			
105.2	0.00	0.00	0.00	1.229	35.29	5274	24.54	6522			
105.7	0.00	0.00	0.00	1.229	35.42	5270	24.56	6526			
119.9	0.00	0.00	0.00	1.229	36.18	5171	24.26	6270			
120.0	0.00	0.00	0.00	1.229	36.11	5170	24.27	6269			
129.7	0.00	0.00	0.00	1.229	36.69	5089	24.27	6241			
162.0	0.00	0.00	0.00	1.229	37.84	4924	23.17	5795			
182.2	0.00	0.00	0.00	1.229	38.31	4876	23.12	5622			
212.0	0.00	0.00	0.00	1.229	39.17	4795	24.26	5254			
246.0	0.00	0.00	0.00	1.229	40.69	4692	27.22	4926			

* Design Condition

Span - 900.0 Feet
Ceasep is WOT a Factor

Special Load Zone
Rolled Rod

X-8

Design Points				Weight		Sag		Final Tension		Initial Tension	
Temp	Ice	Wind	X	lb/ft	lb/ft	Ft	lb	Ft	lb	Ft	lb
0.0	0.50	4.00	0.20	2.698	22.82	11883	20.82	12142			
5.0	0.50	6.40	0.00	2.566	22.85	11252	20.53	12624			
32.0	0.50	0.00	0.00	2.284	23.60	9925	20.53	11287			
60.0	0.00	57.60	0.00	5.871	21.51	18959	21.51	18959			
80.0	0.00	20.70	0.00	2.401	25.32	9825	22.14	11011			
90.0	0.00	6.00	0.00	1.367	22.57	6147	17.85	7766			
-20.0	0.00	0.00	0.00	1.229	17.09	7290	13.04	9551			
0.0	0.00	0.00	0.00	1.229	18.29	6779	12.90	8907			
30.0	0.00	0.00	0.00	1.229	20.29	6145*	15.51	8022			
60.0	0.00	0.00	0.00	1.229	22.14	5634	17.14	7272			
90.0	0.00	0.00	0.00	1.229	23.92	5217	18.21	6626			
95.0	0.00	0.00	0.00	1.229	24.21	5155	18.09	6529			
97.0	0.00	0.00	0.00	1.229	24.27	5121	18.21	6490			
100.0	0.00	0.00	0.00	1.229	24.48	5085	18.22	6424			
100.9	0.00	0.00	0.00	1.229	24.55	5055	18.42	6417			
102.0	0.00	0.00	0.00	1.229	24.67	5060	18.55	6378			
105.0	0.00	0.00	0.00	1.229	24.78	5037	18.66	6342			
105.7	0.00	0.00	0.00	1.229	24.87	4988	18.66	6282			
102.7	0.00	0.00	0.00	1.229	24.98	4995	18.27	6276			
119.9	0.00	0.00	0.00	1.229	25.82	4872	20.50	6022			
120.0	0.00	0.00	0.00	1.229	25.63	4872	20.50	6021			
129.7	0.00	0.00	0.00	1.229	26.16	4772	21.05	5925			
162.0	0.00	0.00	0.00	1.229	27.32	4562	23.12	5286			
182.2	0.00	0.00	0.00	1.229	27.80	4494	23.98	5202			
212.0	0.00	0.00	0.00	1.229	28.56	4374	25.54	4827			
246.0	0.00	0.00	0.00	1.229	29.92	4276	28.22	4627			

* Design Condition

Certain information such as the data, opinions or recommendations set forth herein or given by Southwire representatives, is intended as a general guide only. Each installation of overhead electrical conductor, underground electrical conductor, and/or conductor accessories involves special conditions creating problems that require individual solutions and, therefore, the recipient of this information has the sole responsibility in connection with the use of the information. Southwire does not assume any liability in connection with such information.

3.10.10v



500 kV

7/31/2013
Power Engineers Inc

Minnesota Power
Great Northern Transmission Line
Approximate Sag Calculations

Conductor: 1192.5 Kcmil 45/ 7 Steanding ACSR "BUSHING"
Area - 1.0010 Sq. in Diameter - 1.302 in Weight - 1.344 lb/ft AIS - 32000 lb
Data from Chart No. 1-957
English Units
Limits and Outputs in Average Tensions.

Span - 1400.0 Feet			Special Load Zone			Initial	
Creep is NOT a Factor			Rolled Rod			Tension	
Temp	Ice	Wind	X	Weight	Sag	Final	Initial
°F	in	psf	lb/ft	lb/ft	ft	lb	lb
0.0	0.50	4.00	0.00	2.521	52.08	12629	44.64
5.0	0.50	6.40	0.00	2.752	52.05	12022	44.20
32.0	0.50	0.00	0.00	2.464	53.06	11445	44.19
60.0	0.00	57.60	0.00	6.292	64.04	24660	64.04
80.0	0.00	20.70	0.00	2.617	55.42	11644	46.74
80.0	0.00	6.00	0.00	1.482	53.05	7066	40.32
-20.0	0.00	0.00	0.00	1.344	45.20	7215	32.87
0.0	0.00	0.00	0.00	1.344	46.25	7060	34.48
30.0	0.00	0.00	0.00	1.344	49.24	6720*	26.92
60.0	0.00	0.00	0.00	1.344	51.56	6421	29.75
90.0	0.00	0.00	0.00	1.344	53.00	6156	41.75
97.0	0.00	0.00	0.00	1.344	54.22	6099	42.21
100.0	0.00	0.00	0.00	1.344	54.54	6075	42.55
100.9	0.00	0.00	0.00	1.344	54.60	6067	42.62
102.7	0.00	0.00	0.00	1.344	55.14	6009	43.20
109.6	0.00	0.00	0.00	1.344	55.22	5999	43.20
117.0	0.00	0.00	0.00	1.344	55.76	5942	43.59
119.8	0.00	0.00	0.00	1.344	55.97	5921	44.11
120.0	0.00	0.00	0.00	1.344	55.99	5920	44.12
127.6	0.00	0.00	0.00	1.344	56.52	5864	44.71
128.7	0.00	0.00	0.00	1.344	56.67	5849	44.82
167.0	0.00	0.00	0.00	1.344	59.26	5597	47.73
***	***	***	***	1.344	61.84	5326	51.05

43.1° C
47.2° C
53.1° C
75° C

Certain information such as the data, opinions or recommendations set forth herein are given by Southwire representatives, is intended as a general guide only. Each installation of overhead electrical conductor, underground electrical conductor, and/or conductor accessories involves special conditions creating problems that require individual solutions and, therefore, the recipient of this information has the sole responsibility in connection with the use of the information. Southwire does not assume any liability in connection with such information.



MEMORANDUM

DATE: March 19, 2014

TO: Larry Henriksen (POWER-HLY)

C: Josh Brown (POWER-PRT)
DMS SR-06/127300.18.01

FROM: Claire Patti (POWER-PRT)

SUBJECT: 127300 Great Northern Transmission Line Project – Magnetic Field Data

MESSAGE

Larry,

Per your request, we have extended the area of analysis for four cases presented in the August 6, 2013 memo (log # 112-1434) for the purpose of determining the distance at which the magnetic field drops below 2mG. In order to maintain the same resolution as the previous results, it was necessary to shift the area of analysis away from the transmission line. The area of analysis begins at the edge of the right-of-way (100 ft from centerline) and extends 700 ft from the centerline of the structure. The data is summarized in the table below and the Excel file included with this memo contains the full results. All values were calculated using BPA's Corona and Field Effects Program (CAFEP), Version 3.0.

Table 1: Magnetic Field Below 2 mG

	STRUCTURE	CURRENT	DISTANCE*
Case 2	X-2	2,000 A	681.2 ft
Case 3	X-2	1,024 A	487.5 ft
Case 6	X-6	2,000 A	537.5 ft
Case 7	X-6	1,024 A	387.5 ft

* Distance from center line of structure.

Appendix J

Property Values Supplement

Appendix J Property Values Supplement

Attempts to correlate proximity to transmission lines with impacts to property values are complicated by the interaction of several relevant factors, including geographic region, land use, variability in perceptions over time, and limited sales data for similar properties before and after construction of transmission lines. Researchers have generally used survey-based techniques and statistical analyses to make inferences and draw conclusions about the relationship between transmission lines and property values. In general, surveys provide useful insights for estimating price effects based on public opinion, yielding what researchers refer to as “stated preferences.” Statistical analyses, on the other hand, reflect the actual behavior of property buyers and sellers in terms of recorded sales prices, providing what researchers refer to as the “revealed preferences.” In other words, there is often incongruity between what people think and how they actually behave. Measuring both perceptions and actual behaviors helps researchers understand the relationship between transmission lines and property values.

A recent literature review (Jackson and Pitts 2010, reference I1) examined 17 studies on the relationship between transmission lines and property values to compare their results and to develop some general conclusions. The 17 studies, spanning the time period between 1956 and 2009, were compiled and reviewed by Real Property Analytics, Inc., a private firm specializing in the valuation of property potentially affected by external environmental factors. The Real Property Analytics review was published in the *Journal of Real Estate Literature*, which is a publication of the American Real Estate Society. The studies evaluated impacts from transmission lines ranging from 69 kilovolts (kV) to 345 kV. They were placed into one of three categories designated by the authors:

- Survey-based studies;
- Statistical sales-based analyses using multivariate analysis to isolate the impact of transmission lines by holding other variables statistically constant; and
- Sales-based analyses not using multivariate analysis, but utilizing factors such as sale/resale analysis, price per square foot comparisons, case studies and “paired sales” analysis, where the values of two homes that are similar in all respects except for proximity to transmission lines are compared.

Upon completion of their review of the studies, Jackson and Pitts (2010, reference I1) concluded the following:

“The studies reviewed...generally pointed to small or no effects on sales prices due to the presence of electric transmission lines. Some studies found an effect but this effect generally dissipated with time and distance. The effects that were found ranged from approximately 2% to 9%. Most studies found no effect and in some cases a premium was observed.”

Jackson and Pitts discussed the utility of both survey-based and statistically-based methods, quoting one of the research papers to note that statistical analyses “reflect what buyers and sellers actually do, opposed to what potential buyers say they might do, under specified hypothetical circumstances”

Selected findings from Jackson and Pitts's literature review are provided below, along with the year and type of study:

Survey-based studies

- Kinnard, 1967 – Questionnaires were sent to property owners intersected by or abutting transmission line right-of-way (ROW) in 17 Connecticut subdivisions. Over 85 percent indicated they would purchase again in the same location. Kinnard concluded that property value is not significantly affected by proximity to transmission lines.
- Morgan et al., 1985 – A questionnaire asked participants to rank the risk from transmission lines, electric blankets and 14 other common hazards. Electric blankets and transmission lines were ranked as presenting the least risk. Participants were then provided with information on electric and magnetic fields (EMF) and associated potential health effects. Subsequent questionnaire responses indicated a change in perception and an increased concern about the risk of EMF.
- Solum, 1985 – Presented a questionnaire to 180 agricultural, recreational, or residential property owners in northwest Wisconsin whose land was encumbered by transmission lines. All three types had some level of concern over the proximity of the lines, but for varying reasons. Further interviews indicated that all but one of the properties sold at a market price comparable to non-encumbered properties and that none of the buyers had reduced their purchase offers due to the presence of the transmission line.
- Delaney and Timmons, 1992 – Survey results from 219 real estate appraisers found that 84 percent believed that transmission line proximity results in an average ten percent lower market value. Ten percent of respondents found no effect and six percent thought transmission lines increased property value due to larger lots for similar price.
- Kung and Seagle, 1992 – Sent a questionnaire to homeowners in Memphis and Shelby Counties, Tennessee. Half of the respondents considered the transmission line an eyesore; however, 72 percent of those who thought the lines were an eyesore also said the lines had no effect on the purchase price. Prices of homes adjacent to the transmission line are similar to prices of other homes in the same neighborhood.
- Priestly and Evans, 1996 – Conducted a survey of 445 homeowners living near transmission lines in the San Francisco area. Eighty-seven percent of the 267 respondents felt the transmission line was a negative element in their neighborhood.

Statistical Sales Price Analyses

- Brown, 1976 – Conducted regression analysis on sales of farm land in Saskatchewan, Canada, between 1965 and 1970 and found that the relationship of land value to the number of power line structures was not statistically significant and that the lines did not negatively affect property value. Brown also found that the structures can be an impediment to farming operations.

- Colwell and Foley, 1979 – Examined 200 property sales over a ten-year period in Decatur, Illinois and found that sales price increases as distance from a transmission line increases. Property values were approximately six percent lower within 50 to 200 feet of the transmission line, but there was no difference in property value beyond 200 feet.
- Colwell, 1990 – Followed up the study above and confirmed that the selling price of residential property increases as distance from the transmission line increases. The rate of increase slows with distance and eventually disappears.
- Rigdon, 1991 – Evaluated 46 properties sold in Marquette County, Michigan over a five-year period and found no statistically significant relationship between sales price and proximity to a transmission line easement.
- Hamilton and Schwann, 1995 – Reviewed previous literature and found that transmission lines can reduce adjacent property values, but that the reduction is generally less than five percent of property value and that the reduction diminishes at 600 feet.
- Des Rosiers, 1998 – Reviewed property values of 507 homes in the Montreal area and found an average drop in property value of 9.6 percent for homes immediately adjacent to the line. He also found an average increase of up to 9.2 percent in value for homes one to two lots away from the transmission line and no effect beyond 500 feet.
- Wolverton and Bottemiller, 2003 and Cowger, Bottemiller and Cahill, 1996 – Two studies, both conducted in Portland, Vancouver, and Seattle, the 2003 work repeating the 1996 study with more rigorous analytical methods. Both applied statistical methods to paired-sales analysis and found no price effect on residential property from proximity to transmission lines. The data also show no difference in appreciation rates between homes near a transmission line and homes further away.
- Chalmers and Voorvaart, 2009 – Studied residential properties sold in Connecticut and Massachusetts between 1999 and 2007 and found proximity to transmission lines to have an insignificant effect on sales prices.

Sales-based analyses

- Carll, 1956 – Compared property values and interviewed owners, buyers and brokers along a transmission line in Los Angeles and found that residences adjoining the ROW had not sold at a discount and that lenders did not adjust loan amounts for lots adjacent to the ROW.
- Bigras, 1964 – Reviewed over 1,900 deeds of sale and mortgages in Quebec and found that prices for vacant land adjacent to transmission lines were generally higher than the average price of all transactions. Land adjacent to transmission lines was sold faster and was developed to a higher degree than land away from the lines.

Jackson and Pitts (2010) concluded from these studies that proximity to transmission lines results in little or no effect on property value. In studies where transmission lines were found to have impacts to property

values, the decrease in values typically ranged from approximately two percent to ten percent. In some instances, increases in property value were found. The following additional studies and reviews generally reach a similar conclusion.

Between 1978 and 1982, Jensen and Weber and the Jensen Management Company conducted three studies in west-central Minnesota. The studies in 1978 and 1982 are of particular interest since they consider effects to agricultural land. The 1978 study found that the landowners cited an inconvenience to the presence of the line, but had not paid less for their land (Weber and Jensen 1978, reference I2). The 1982 study, however, found there was a broad range of effect from no effect to a 20 percent reduction, which depended on the amount of disruption to farm operations (Jensen and Weber 1982, reference I3).

In the final EIS on the Arrowhead-Weston Electric Transmission Line Project, the Wisconsin Public Service Commission (PSC) addressed the issue of property value changes associated with high voltage transmission lines. This document summarized the findings of approximately 30 papers, articles, and court cases covering the period of 1987 through 1999. The Arrowhead-Weston EIS provides six general observations (Reference I4):

- The potential reduction in sale price for single family homes may range from zero to 14 percent.
- Adverse effects on the sale price of smaller properties could be greater than effects on the sale price of larger properties.
- Other amenities, such as proximity to school or jobs, lot size, square footage of a house and neighborhood characteristics, tend to have a much greater effect on sale price than the presence of a power line.
- The adverse effects appear to diminish over time.
- Effects on sale price are most often observed for properties crossed by or immediately adjacent to a power line, but effects have also been observed for properties farther away from the line.
- The value of agricultural property is likely to decrease if the power line poles are placed in an area that inhibits farm operations.

The Arrowhead-Weston Electric Transmission Line Project environmental impact statement (EIS) reported that in Midwest states such as Minnesota, Wisconsin and the Upper Peninsula of Michigan, the average decrease appears to be between four and seven percent. The EIS noted that it is very difficult to make predictions about how a specific transmission line would affect the value of specific properties.

An additional potential adverse effect of transmission lines on adjacent properties is on the ability of homeowners and developers to obtain Federal Housing Administration (FHA) and/or Housing and Urban Development (HUD) loans. Section 2.2(J) of the current HUD guidebook 4150.2 addresses this issue in the following FAQ:

FAQ: Is a property eligible for FHA if there are overhead or high voltage power lines nearby?

The appraiser must indicate whether the dwelling or related property improvements is located within the easement serving a high-voltage transmission line, radio/TV transmission tower, cell phone tower, microwave relay dish or tower, or satellite dish (radio, TV cable, etc).

1) If the dwelling or related property improvement is located within such an easement, the lender must obtain a letter from the owner or operator of the tower indicating that the dwelling and its related property improvements are not located within the tower's (engineered) fall distance in order to waive this requirement.

2) If the dwelling and related property improvements are located outside the easement, the property is considered eligible and no further action is necessary. The appraiser, however, is instructed to note and comment on the effect on marketability resulting from the proximity to such site hazards and nuisances.

In general and for safe operation of the line, a residence cannot be located within a transmission line ROW; thus, all residences near the project would fall into category 2 (a dwelling located "outside the easement"). For this category, the HUD appraiser is directed to comment on any effects on marketability resulting from the transmission line. These comments could affect loan values if an appraiser believes the residence is nevertheless located so near the transmission line that the line could be a hazard or nuisance.

References

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- I2. Weber, William V. and Glenn A. Jensen. 1978. A Study of High Voltage Power Line Easements and their Effect on Farm Land Values in West Central Minnesota. Luverne, Minnesota: Jensen Management Service.
- I3. Jensen, Glenn A. and William V. Weber. 1982. High Voltage Transmission Lines and their Effect on Farm Land Value in West Central Minnesota. Luverne, Minnesota: Jensen Management Service, Inc.
- I4. Final Environmental Impact Statement, Arrowhead –Weston Electric Transmission Line Project, Volume I, Public Service Commission of Wisconsin Docket 05-CE-113, October 2000, pg 212-215.

Appendix K

EMF Supplement

Appendix K Electric and Magnetic Fields Supplement

There is concern about the potential for adverse health effects from exposure to electric and magnetic Fields (EMF) as the result of residing near high voltage transmission lines (HVTLs). Extremely low-frequency (ELF) - EMF that is emitted from HVTLs does not have the energy to ionize molecules or to heat them; however, they are fields of energy and thus have the potential to produce effects.

In the 1970s, epidemiological studies indicated a possible association between childhood leukemia and EMF levels. Since then, various types of research, including animal studies, epidemiological studies, clinical studies and cellular studies, have been conducted to examine the potential health effects of EMF. Scientific panels and commissions have reviewed and studied this research data. These studies have been conducted by, among others, the National Institute of Environmental Health Sciences (NIEHS), the World Health Organization (WHO), the International Agency for Research on Cancer (IARC), the Scientific Committee on Emerging and Newly Identified Health Risks (SCENIHR) and the Minnesota State Interagency Working Group (MSIWG). In general, these studies concur that:

- Based on epidemiological studies, there is a weak association between childhood leukemia and EMF exposure. There is however no consistent association between EMF exposure and other diseases in children or adults.
- Laboratory, animal, and cellular studies fail to show a cause and effect relationship between disease and EMF exposure at common EMF levels. A biological mechanism for how EMFs might cause disease has not been established.

Because a cause and effect relationship cannot be established, yet a weak association between childhood leukemia and EMF exposure has been shown: 1) the potential health effects of EMF are uncertain; 2) no methodology for estimating health effects based on EMF exposure exists; 3) further study of the potential health effects of EMF is needed; and 4) a precautionary approach, including regulations and guidelines, is needed in designing and using all electrical devices.

Researchers continue to study potential health effects related to ELF-EMF and potential causal mechanisms. The following sections provide brief summaries from scientific panels and commissions that have examined the potential health impacts of ELF-EMF.

In 1992, the U.S. Congress authorized the Electric and Magnetic Fields Research and Public Information Dissemination Program (EMF-RAPID program). Congress instructed NIEHS and the U.S. Department of Energy to direct and manage a program of research and analysis aimed at providing scientific evidence to clarify the potential for health risk from exposure to ELF-EMF. The program provided the following conclusions to Congress (NIEHS 1999, reference K1):

- "The scientific evidence suggesting that ELF-EMF exposures pose any health risk is weak.
- Epidemiological studies have serious limitations in their ability to demonstrate a cause and effect relationship whereas laboratory studies, by design, can clearly show that cause and effect are

possible. Virtually all of the laboratory evidence in animals and humans and most of the mechanistic work done in cells fail to support a causal relationship between exposure to ELF-EMF at environmental levels and changes in biological function or disease status. The lack of consistent positive findings in animal or mechanistic studies weakens the belief that this association (the epidemiological association between ELF-EMF and childhood leukemia) is actually due to ELF-EMFs but it cannot completely discount the epidemiological findings.

- The NIEHS concludes that ELF-EMF exposure cannot be recognized as entirely safe because of weak scientific evidence that exposure may pose a leukemia hazard. In our opinion, this finding is insufficient to warrant aggressive regulatory concern. However, because virtually everyone in the United States uses electricity and therefore is routinely exposed to ELF-EMF, passive regulatory action is warranted such as a continued emphasis on education both the public and regulated community on means aimed at reducing exposures. The NIEHS does not believe that other cancers or non-cancer outcomes provide sufficient evidence of a risk to currently warrant concern.”

In 2002, the EMF-RAPID program published a detailed question and answer pamphlet summarizing research on ELF-EMF and potential health effects. The pamphlet is available at:

http://www.niehs.nih.gov/health/materials/electric_and_magnetic_fields_associated_with_the_use_of_electric_power_questions_and_answers_english_508.pdf

World Health Organization

In 1996, the WHO established the International EMF Project to study the potential health impacts of EMF. The project develops and disseminates information on EMF and public health. In 2007, the WHO issued an environmental health monograph on ELF-EMF (WHO 2007, reference K2). The monograph concluded:

- “Scientific evidence suggesting that everyday, chronic low-intensity (above 0.3 – 0.4 μ T) power-frequency magnetic field exposure poses a health risk is based on epidemiological studies demonstrating a consistent pattern of increase risk for childhood leukemia. Uncertainties in the hazard assessment include the role that control selection bias and exposure misclassification might have on the observed relationship between magnetic fields and childhood leukemia. In addition, virtually all of the laboratory evidence and the mechanistic evidence fail to support a relationship between low-level ELF magnetic fields and changes in biological function or disease status. Thus, on balance, the evidence is not strong enough to be considered causal, but sufficiently strong to remain a concern.
- A number of other diseases have been investigated for the possible association with ELF magnetic field exposures. These include cancers in children and adults, depression, suicide, reproductive dysfunction, developmental disorders, immunological modifications and neurological disease. The scientific evidence supporting a linkage between ELF magnetic fields and any of these diseases is much weaker than for childhood leukemia and in some cases (for example, for cardiovascular disease or breast cancer) the evidence is sufficient to give confidence that magnetic fields do not cause the disease.

- The use of precautionary approaches is warranted. However, electric power brings obvious health, social and economic benefits and precautionary approaches should not compromise these benefits. Furthermore, given both weakness of the evidence for a link between exposure to ELF magnetic fields and childhood leukemia and the limited impact on public health if there is a link, the benefits of exposure reduction on health are unclear. Thus, the costs of precautionary measures should be very low. The costs of implementing exposure reductions would vary from one country to another, making it very difficult to provide general recommendation for balancing the costs against the potential risk from ELF fields.”

International Agency for Research on Cancer

Since 1969, the IARC has been evaluating the carcinogenic risks of chemicals and other agents, such as viruses and radiation. In 2001, the IARC convened a working group of scientists to evaluate possible carcinogenic risks to humans from exposure to EMF (IARC 2002, reference K3). These scientists concluded that ELF magnetic fields are possibly carcinogenic to humans (a “Group 2B carcinogen”). Group 2B carcinogens are agents for which there is limited evidence of carcinogenicity in humans and less than sufficient evidence for carcinogenicity in experimental animals. The working group concluded:

- “Since the first report suggesting an association between residential ELF electric and magnetic fields and childhood leukemia was published in 1979, dozens of increasingly sophisticated studies have examined this association. In addition, there have been numerous comprehensive review, meta-analyses and two recent pooled analyses. In one pooled analysis...no excess risk was seen for exposure to ELF magnetic fields below 0.4 μ T and a twofold excess risk was seen for exposure above 0.4 μ T. [In the other study] a relative risk of 1.7 for exposure above 0.3 μ T was reported.
- No consistent relationship has been seen in studies of childhood brain tumors or cancers at other sites and residential ELF electric and magnetic fields.
- While a number of studies are available, reliable data on adult cancer and residential exposure to ELF electric and magnetic fields, including the use of appliances, are sparse and methodologically limited.... Although there have been considerable number of reports, a consistent association between residential exposure and adult leukemia and brain cancer has not been established.”

Scientific Committee on Emerging and Newly Identified Health Risks (SCENIHR)

The SCENIHR serves as an advisory committee to the European Commission. At the request of the Commission, the SCENIHR reviewed possible adverse health impacts due to EMF. In 2007, the committee concluded (SCENIHR 2007, reference K4):

- “The previous conclusion (by a prior advisory committee, the Scientific Committee on Toxicity, Ecotoxicity and the Environment, CSTE) that ELF magnetic fields are possibly carcinogenic, chiefly based on occurrence of childhood leukemia, is still valid. For breast cancer and cardiovascular disease, recent research has indicated that an association is unlikely. For neurodegenerative diseases and brain tumors, the link to ELF fields remains uncertain.”

In 2009, the committee updated its prior opinion after reviewing new studies of ELF-EMF (SCENIHR 2009, reference K5) and concluded:

- “The new information available is not sufficient to changes the conclusions of the 2007 opinion. The few new epidemiological and animal studies that have addressed ELF exposure and cancer do not change the previous assessment that ELF magnetic fields are a possible carcinogen and might contribute to an increase in childhood leukemia. At present, in vitro studies did not provide a mechanistic explanation of this epidemiological finding.
- New epidemiological studies indicate a possible increase in Alzheimer’s disease arising from exposure to ELF. Further epidemiological and laboratory investigations of this observation are needed.”

Minnesota State Interagency Working Group (MSIWG)

In 2002, the MSIWG on EMF issues was formed to examine the potential health impacts of EMF and to provide science-based information to policy makers in Minnesota. Working group members included representatives from the Department of Commerce, Department of Health, Pollution Control Agency, Public Utilities Commission, and Environmental Quality Board. The working group issued a white paper entitled “A White Paper on Electric and Magnetic Field (EMF) Policy and Mitigation Options” (MSIWG on EMF Issues 2002, reference K6). The white paper concluded:

- “Some epidemiological results do show a weak but consistent association between childhood leukemia and increasing exposure to EMF... However, epidemiological studies alone are considered insufficient for concluding that a cause and effect relationship exists and the association must be supported by data from laboratory studies. Existing laboratory studies have not substantiated this relationship... nor have scientists been able to understand the biological mechanism of how EMF could cause adverse effects. In addition, epidemiological studies of various other diseases, in both children and adults, have failed to show any consistent pattern of harm from EMF.
- The Minnesota Department of Health concludes that the current body of evidence is insufficient to establish a cause and effect relationship between EMF and adverse health effects. However, as with many other environmental health issues, the possibility of a health risk from EMF cannot be dismissed. Construction of new generation and transmission facilities to meet increasing electrical needs in the state is likely to increase exposure to EMF and public concern regarding potential adverse health effects.
- Based on its review, the Work Group believes the most appropriate public health policy is to take a prudent avoidance approach to regulating EMF. Based upon this approach, policy recommendations of the Work Group include:
 - Apply low-cost EMF mitigation options in electric infrastructure construction projects;
 - Encourage conservation;

- Encourage distributed generation;
- Continue to monitor EMF research;
- Encourage utilities to work with customers on household EMF issues; and
- Provide public education on EMF issues.”

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