



414 Nicollet Mall  
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September 24, 2019

—Via Electronic Filing—

Daniel P. Wolf  
Executive Secretary  
Minnesota Public Utilities Commission  
121 7<sup>th</sup> Place East, Suite 350  
St. Paul, MN 55101

RE: COMMENTS  
UPDATING GENERIC STANDARDS FOR UTILITY TARIFFS FOR  
INTERCONNECTION AND OPERATION OF DISTRIBUTED GENERATION  
FACILITIES ESTABLISHED UNDER MINN. STAT. §216B.1611  
DOCKET NOS. E999/CI-01-1023 & E999/CI-16-521

Dear Mr. Wolf:

Northern States Power Company, doing business as Xcel Energy, submits the enclosed Comments in response to the Commission's August 23, 2019 Notice of Comment Period.

We have electronically filed this document with the Minnesota Public Utilities Commission, and copies have been served on the parties on the attached service list. Please contact Amber Hedlund at [amber.r.hedlund@xcelenergy.com](mailto:amber.r.hedlund@xcelenergy.com) or (612) 337-2268 or me at [holly.r.hinman@xcelenergy.com](mailto:holly.r.hinman@xcelenergy.com). or (612) 330-5941 if you have any questions concerning this filing.

Sincerely,

/s/

HOLLY HINMAN  
REGULATORY MANAGER

Enclosure  
c: Service List

STATE OF MINNESOTA  
BEFORE THE  
MINNESOTA PUBLIC UTILITIES COMMISSION

Katie J. Sieben	Chair
Dan Lipschultz	Commissioner
Valerie Means	Commissioner
Matthew Schuerger	Commissioner
John A. Tuma	Commissioner

IN THE MATTER OF UPDATING THE  
GENERIC STANDARDS FOR THE  
INTERCONNECTION AND OPERATION OF  
DISTRIBUTED GENERATION FACILITIES  
ESTABLISHED UNDER MINN. STAT.  
§216B.1611

DOCKET NO. E999/CI-16-521

IN THE MATTER OF UPDATING GENERIC  
STANDARDS FOR UTILITY TARIFFS FOR  
INTERCONNECTION AND OPERATION OF  
DISTRIBUTED GENERATION FACILITIES  
UNDER MINN. LAWS 2001 CH. 212

DOCKET NO. E999/CI-01-1023

**COMMENTS**

**INTRODUCTION**

Northern States Power Company, doing business as Xcel Energy, submits the enclosed Comments in response to the Commission's August 23, 2019 Notice of Comment Period.

**A. Should the Commission approve the Minnesota Distributed Energy Resource Technical Interconnection and Interoperability Requirements (Minnesota DER TIIR) as submitted by the Distributed Generation Workgroup's Technical Subgroup?**

The Company has a minor suggested change to a definition in the Minnesota DER TIIR. The definition of "MN Technical Requirements" (at page 14 of the TIIR draft) needs to be modified so that it refers to the name on the cover of the Minnesota DER TIIR instead of the previously anticipated name of the TIIR referenced in that definition. Also, changes to this definition are needed to clarify when the TIIR acts as the MN Technical Requirements. Here are the proposed revisions to the definition of MN Technical Requirements in redline format:

The term including all of the DER technical interconnection requirement documents for the state of Minnesota; including: 1) when an application was submitted before the effective date of the MN DIP and therefore is not subject to the MN DIP, the MN Technical Requirements shall mean Attachment 2 Distributed Generation Interconnection Requirements established in the Commission’s September 28, 2004 Order in E999/CI-01-1023); and 2) when an application is subject to the MN DIP, the MN Technical Requirements shall mean ~~until superseded and upon Commission approval of updated Minnesota DER Technical Interconnection and Interoperability Requirements in E-999/CI-16-521 this document – the State of Minnesota Technical Interconnection and Interoperability Requirements (TIIR) – as adopted and amended over time by Commission order.~~

We view this as a non-controversial proposed change.

## **B. Interim Implementation**

1. *Is the language in the Technical Subgroup’s recommended draft sufficient and appropriate on implementation of the statewide technical requirements in the interim as IEEE 1547-2018 implementation to UL 1741 certified equipment is complete (anticipated in 2021)? What, if anything else, should the Commission address related to interim implementation?*

We believe that the language is sufficient.

## **C. Utility Technical Specification Manuals**

1. *Is the language in the Technical Subgroup’s recommended draft sufficient and appropriate on the scope of an individual utility’s Technical Specification Manual (TSM) and the Commission’s oversight? What, if anything else, should the Commission address related to the rate-regulated utilities’ TSMs?*

We believe that the language is sufficient.

## **D. Other Issues?**

One issue not addressed are the minor wording changes needed in the Company tariff to implement the Minnesota DER TIIR. We request that the Commission authorize the Company to make the following changes to its tariff.

## 1. Changes to Tariff Sheet 10-73

Tariff sheet 10-73 currently states in part:

The “Minnesota Distributed Energy Resource Technical Interconnection and Interoperability Requirements (MN Technical Requirements)” are referenced in the MN DIP and MN DIA but are not tariffed.

We recommend the following redlined changes to provide clarity by pointing to the name of the Minnesota DER TIIR as reflected on the cover of that document instead of the previously anticipated name, and create clarity on where this applies in our tariff.

The ~~“Minnesota Distributed Energy Resource Technical Interconnection and Interoperability Requirements (MN Technical Requirements)”~~ “State of Minnesota Technical Interconnection and Interoperability Requirements (TIIR)” are referenced in the MN DIP and MN DIA but are not tariffed.

As used in this tariff, when an application is subject to the MN DIP, the terms “Minnesota Technical Requirements” and “MN Technical Requirements” shall mean the State of Minnesota Technical Interconnection and Interoperability Requirements (TIIR). When an application was submitted before the effective date of the MN DIP and therefore is not subject to the MN DIP, these terms shall mean the “State of Minnesota Distributed Generation Interconnection Requirements” (at Sheet Nos. 10-135 through 10-159.6).

## 2. Changes to Tariff Sheet 10-165

We similarly recommend the following redlined changes on Sheet 10-165 to provide clarity by pointing to the name of the Minnesota DER TIIR.

There are three companion documents: 1) Minnesota Distributed Energy Resource Interconnection Agreement (MN DIA); 2) ~~Minnesota Distributed Energy Resource Technical Interconnection and Interoperability Requirements (the MN Technical Requirements or Minnesota Technical Requirements)~~<sup>2</sup>; and until updated or replaced 3) Attachment 6 Rates from the statewide interconnection standards adopted in 2004 (September 28, 2004 Order in E-999/CI-01-1023.)

<sup>2</sup> See MN DIP Attachment 4: Certification Codes and Standards regarding ~~statewide technical requirements in the interim between~~

~~adoption of MN DIP and adoption of updated MN Technical Requirements applying the MN Technical Requirements to applications that are subject to the MN DIP.~~

3. Changes to Tariff Sheets 10-229 through 10-230 (MN DIP Attachment 4)

These tariff sheets are MN DIP Attachment 4. The current language provides temporary language that applies prior to the adoption of the Minnesota DER TIIR. The language should be replaced and updated to reflect the Minnesota DER TIIR being in place. Here are suggested redline changes which consist of a new first sentence and deletion of the remainder of the MN DIP Attachment 4:

**Attachment 4: Certification Codes and Standards**

~~The Minnesota Technical Requirements (State of Minnesota Technical Interconnection and Interoperability Requirements (TIIR)), as modified over time as authorized by written order of the Minnesota Public Utilities Commission shall be used in conjunction with the Minnesota Interconnection Process (MN DIP) and Minnesota Interconnection Agreement (MN DIA) for Distributed Energy Resources. Prior to Commission approval of the update of Minnesota Technical Requirements (anticipated in February 2019), the existing Minnesota Technical Requirements and the following standards shall be used in conjunction with the Minnesota Interconnection Process (MN DIP) and Minnesota Interconnection Agreement (MN DIA) for Distributed Energy Resources.<sup>4</sup> Once approved, the Minnesota DER Technical Interconnection and Interoperability Requirements will supersede this attachment.~~

~~When the stated version of the following standards is superseded by an approved revision then that revision shall apply:  
IEEE 1547-2003 IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems  
IEEE 1547a-2014 IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems — Amendment 1  
IEEE 1547.1-2005 IEEE Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems  
IEEE 1547.1a-2015 (Amendment to IEEE Std 1547.1 — 2005) IEEE Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems — Amendment 1  
UL 1741 Inverters, Converters, Controllers, and Interconnection System Equipment for Use in Distributed Energy Resources (2010)  
NFPA 70 (2017), National Electrical Code  
IEEE Std C37.90.1(2012) (Revision of IEEE Std C37.90.1-2002), IEEE Standard for Surge Withstand Capability (SWC) Tests for Protective Relays and Relay Systems Associated with Electric Power Apparatus~~

~~IEEE Std C37.90.2 (2004) (Revision of IEEE Std C37.90.2-1995), IEEE Standard for Withstand Capability of Relay Systems to Radiated Electromagnetic Interference from Transceivers~~  
~~IEEE Std C37.108-2002/1989 (Revision of C37.108-1989/2002), IEEE Guide for the Protection of Network Transformers~~  
~~IEEE Std C57.12.44-2014 (Revision of IEEE Std C57.12.44-2005), IEEE Standard Requirements for Secondary Network Protectors~~  
~~IEEE Std C62.41.2-2002, IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000V and Less) AC Power Circuits~~  
~~IEEE Std C62.41.2-2002\_Cor 1-2012 (Corrigendum to IEEE Std C62.41.2-2002)– IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and Less) AC Power Circuits Corrigendum 1: Deletion of Table A.2 and Associated Text~~  
~~IEEE Std C62.45-2002 (Revision of IEEE Std C62.45-1992)– IEEE Recommended Practice on Surge Testing for Equipment Connected to Low-Voltage (1000 V and less) AC Power Circuits~~  
~~ANSI C84.1 (2016) Electric Power Systems and Equipment – Voltage Ratings (60 Hertz)~~  
~~IEEE Standards Dictionary Online, [Online]~~  
~~NEMA MG 1-2016, Motors and Generators~~  
~~IEEE Std 519-2014, IEEE Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems~~

~~<sup>†</sup>This is an interim document while the Commission updates the Minnesota Distributed Energy Resource Interconnection and Interoperability Technical Requirements which includes alignment with the anticipated final IEEE 1547-2018 revision. For the transition period between Minnesota’s existing statewide interconnection standards and the updated standards, both inverters certified to existing 1547.1 and 1547.1a-2015 (most current version); as well as, certified inverters per the expected revised 1547.1 standard should be acceptable.~~

## CONCLUSION

We appreciate the opportunity to provide these Comments. We recommend that the Commission issue an order approving the changes recommended above.

Dated: September 24, 2019

Northern States Power Company

## CERTIFICATE OF SERVICE

I, Paget Pengelly, hereby certify that I have this day served copies of the foregoing document on the attached list of persons.

xx by depositing a true and correct copy thereof, properly enveloped with postage paid in the United States mail at Minneapolis, Minnesota

xx electronic filing

**Docket Nos.        E999/CI-01-1023**  
**E999/CI-16-521**

Dated this 24<sup>th</sup> day of September 2019

/s/

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Paget Pengelly  
Regulatory Administrator

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Hal	Galvin	halgalvin@comcast.net	Provectus Energy Development llc	1936 Kenwood Parkway Minneapolis, MN 55405	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Elaine	Garry	egarry@peoplesrec.com	Peoples Energy Cooperative	1775 Lake Shady Ave S Oronoco, MN 55960-2351	Electronic Service	No	OFF_SL_16-521_Official Service List PUC

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Edward	Garvey	garveyed@aol.com	Residence	32 Lawton St Saint Paul, MN 55102	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Allen	Gleckner	gleckner@fresh-energy.org	Fresh Energy	408 St. Peter Street Ste 220 Saint Paul, Minnesota 55102	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Nitzan	Goldberger	n.goldberger@energystorage.org	Energy Storage Association	1800 M Street NW Suite 400S Washington, DC 20036	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Sarah	Groebner	sgroebner@redwoodelectric.com	Redwood Electric Cooperative	60 Pine St  Clements, MN 56224	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Timothy	Gulden	timothy.gulden@yahoo.com	Winona Renewable Energy, LLC	1449 Ridgewood Dr  Winona, MN 55987	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Tom	Guttormson	Tom.Guttormson@connexusenergy.com	Connexus Energy	14601 Ramsey Blvd  Ramsey, MN 55303	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Tony	Hainault	anthony.hainault@co.hennepin.mn.us	Hennepin County DES	701 4th Ave S Ste 700  Minneapolis, MN 55415-1842	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
James	Haler	jhaler@southcentralelectric.com	South Central Electric Association	71176 Tiell Dr P. O. Box 150 St. James, MN 56081	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Donald	Hanson	dfhanson@ieee.org	Solar Photovoltaic Systems	P. O. Box 44579  Eden Prairie, MN 55344	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
John	Harlander	john.c.harlander@xcelenergy.com	Xcel Energy	N/A	Electronic Service	No	OFF_SL_16-521_Official Service List PUC

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Jared	Hendricks	hendricksj@owatonnautilities.com	Owatonna Public Utilities	PO Box 800 208 S Walnut Ave Owatonna, MN 55060-2940	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Annete	Henkel	mui@mutilityinvestors.org	Minnesota Utility Investors	413 Wacouta Street #230 St. Paul, MN 55101	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Ryan	Hentges	ryanh@mvec.net	Minnesota Valley Electric Cooperative	125 Minnesota Valley Electric Dr  Jordan, MN 55352	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Carrie	Hitt	carrie.hitt@nexteraenergy.com	NextEra Energy Resources	700 Universe Blvd  Juno, CA 33408	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Ronald	Horman	rhorman@redwoodelectric.com	Redwood Electric Cooperative	60 Pine Street  Clements, MN 56224	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Jan	Hubbard	jan.hubbard@comcast.net		7730 Mississippi Lane  Brooklyn Park, MN 55444	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Dean	Hunter	Dean.Hunter@state.mn.us	Minnesota Department of Labor & Industry	443 Lafayette Rd N  St. Paul, MN 55155-4341	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Barb	Jacobs	jaco0270@umn.edu	University of Minnesota	Institute on the Environmen  ,	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Casey	Jacobson	cjacobson@bepc.com	Basin Electric Power Cooperative	1717 East Interstate Avenue  Bismarck, ND 58501	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Ralph	Jacobson	ralphj@ips-solar.com		2126 Roblyn Avenue  Saint Paul, Minnesota 55104	Electronic Service	No	OFF_SL_16-521_Official Service List PUC

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Chris	Jarosch	chris@carrcreekelectricser vice.com	Carr Creek Electric Service, LLC	209 Sommers Street North Hudson, WI 54016	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Brian	Jeremiason	bjeremiason@llec.coop	Lyon-Lincoln Electric Cooperative, Inc.	205 W. Hwy. 14 Tyler, MN 56178	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Nate	Jones	njones@hcpd.com	Heartland Consumers Power	PO Box 248 Madison, SD 57042	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Mahmoud	Kabalan, PhD	mahmoud.kabalan@stthom as.edu		Mail OSS 100 2115 Summit Ave Saint Paul, MN 55105	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Camille	Kadoch	ckadoch@raponline.org	Regulatory Assistance Project	50 State Street Suite 3 Montpelier, VT 05602	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Michael	Kampmeyer	mkampmeyer@a-e- group.com	AEG Group, LLC	260 Salem Church Road Sunfish Lake, Minnesota 55118	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Michael	Krikava	mkrikava@briggs.com	Briggs And Morgan, P.A.	2200 IDS Center 80 S 8th St Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Brian	Lydic	brian@irecusa.org	Interstate Renewable Energy Council, Inc.	PO Box 1156  Latham, NY 12110-1156	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Natalie	McIntire	natalie.mcintire@gmail.com	Wind on the Wires	570 Asbury St Ste 201  Saint Paul, MN 55104-1850	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Dave	McNary	David.McNary@hennepin.us	Hennepin County DES	701 Fourth Ave S Ste 700  Minneapolis, MN 55415-1842	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
John	McWilliams	John.McWilliams@DairylandPower.com	Dairyland Power Cooperative	3200 East Ave SPO Box 817  La Crosse, WI 54601-7227	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Thomas	Melone	Thomas.Melone@AllcoUS.com	Minnesota Go Solar LLC	222 South 9th Street Suite 1600 Minneapolis, Minnesota 55120	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Tim	Mergen	tmergen@meeker.coop	Meeker Cooperative Light And Power	1725 US Hwy 12 E. Suite 100  PO Box 68 Litchfield, MN 55355	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Alan	Miller	N/A		2210 20th St NE  Stewartville, MN 55976	Paper Service	No	OFF_SL_16-521_Official Service List PUC



First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Darrick	Moe	darrick@mrea.org	Minnesota Rural Electric Association	11640 73rd Ave N Maple Grove, MN 55369	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Dalene	Monsebroten	dalene.monsebroten@nmpagency.com	Northern Municipal Power Agency	123 2nd St W Thief River Falls, MN 56701	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Michael	Murtaugh	mmurtaugh@fmcs.coop	Freeborn-Mower Cooperative Services	2501 Main Street East Albert Lea, MN 56007	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Tony	Nelson	tnelson@itasca-mantrap.com	Itasca-Mantrap Coop. Electric Assn.	PO Box 192 Park Rapids, MN 56470	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Ben	Nelson	benn@cmpasgroup.org	CMMPA	459 South Grove Street Blue Earth, MN 56013	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Michael	Noble	noble@fresh-energy.org	Fresh Energy	Hamm Bldg., Suite 220 408 St. Peter Street St. Paul, MN 55102	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Rolf	Nordstrom	rnordstrom@gpsd.net	Great Plains Institute	2801 21ST AVE S STE 220 Minneapolis, MN 55407-1229	Electronic Service	No	OFF_SL_16-521_Official Service List PUC

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Timothy	O'Leary	toleary@llec.coop	Lyon-Lincoln Electric Cooperative, Inc	P.O. Box 639  Tyler, MN 561780639	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Jeff	O'Neill	jeff.oneill@ci.monticello.mn.us	City of Monticello	505 Walnut Street Suite 1 Monticello, Minnesota 55362	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Wendi	Olson	wolson@otpc.com	Otter Tail Power Company	215 South Cascade  Fergus Falls, MN 56537	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Russell	Olson	rolson@hcpd.com	Heartland Consumers Power District	PO Box 248  Madison, SD 570420248	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Bethany	Owen	bowen@mnpower.com	Minnesota Power	30 West Superior Street  Duluth, MN 55802	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Dan	Patry	dpatry@sunedison.com	SunEdison	600 Clipper Drive  Belmont, CA 94002	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Jeffrey C	Paulson	jeff.jcplaw@comcast.net	Paulson Law Office, Ltd.	4445 W 77th Street Suite 224 Edina, MN 55435	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Dean	Pawlowski	dpawlowski@otpc.com	Otter Tail Power Company	PO Box 496 215 S. Cascade St. Fergus Falls, MN 565370496	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Susan	Peirce	Susan.Peirce@state.mn.us	Department of Commerce	85 Seventh Place East  St. Paul, MN 55101	Electronic Service	No	OFF_SL_16-521_Official Service List PUC

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Joyce	Peppin	joyce@mrea.org	Minnesota Rural Electric Association	11640 73rd Ave N Maple Grove, MN 55369	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Mary Beth	Peranteau	mperanteau@wheelerlaw.com	Wheeler Van Sickle & Anderson SC	44 E. Mifflin Street, 10th Floor Madison, WI 53703	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Jeff M	Peters	jeff.peters@mrenergy.com	Missouri River Energy Services	3724 W Avera Dr PO Box 88920 Sioux Falls, MN 57109-8920	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Donna	Pickard	dpickardgsss@gmail.com	Genie Solar Support Services	1215 Lilac Lane Excelsior, MN 55331	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
David G.	Prazak	dprazak@otpc.com	Otter Tail Power Company	P.O. Box 496 215 South Cascade Street Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Gregory	Randa	granda@lakecountrypower.com	Lake Country Power	2810 Elida Drive Grand Rapids, MN 55744	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Mark	Rathbun	mrathbun@greenergy.com	Great River Energy	12300 Elm Creek Blvd Maple Grove, MN 55369	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Michael	Reinertson	michael.reinertson@avantenergy.com	Avant Energy	220 S. Sixth St. Ste 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
John C.	Reinhardt		Laura A. Reinhardt	3552 26Th Avenue South Minneapolis, MN 55406	Paper Service	No	OFF_SL_16-521_Official Service List PUC
Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_16-521_Official Service List PUC

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Robert K.	Sahr	bsahr@eastriver.coop	East River Electric Power Cooperative	P.O. Box 227  Madison, SD 57042	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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Kenric	Scheevel	Kenric.scheevel@dairylandpower.com	Dairyland Power Cooperative	3200 East Ave S PO Box 817 La Crosse, Wisconsin 54602	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Doug	Shoemaker	dougs@charter.net	Minnesota Renewable Energy	2928 5th Ave S Minneapolis, MN 55408	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Felicia	Skaggs	fskaggs@meeker.coop	Meeker Cooperative Light & Power	1725 US Highway 12 E Suite 100 Litchfield, MN 55355	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Glen	Skarbakka	glen@s-pllc.com	Skarbakka PLLC	5411 Bartlett Blvd Mound, MN 55364	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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Rafi	Sohail	rafi.sohail@centerpointener gy.com	CenterPoint Energy	800 LaSalle Avenue P.O. Box 59038 Minneapolis, MN 554590038	Electronic Service	No	OFF_SL_16-521_Official Service List PUC

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Sherry	Swanson	sswanson@noblesce.com	Nobles Cooperative Electric	22636 US Highway 59 PO Box 788 Worthington, MN 56187	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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Adam	Tromblay	atromblay@noblesce.com	Nobles Cooperative Electric	22636 US Hwy. 59 P.O. Box 788 Worthington, MN 56187-0788	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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