



January 19, 2024

Will Seuffert
Executive Secretary
Minnesota Public Utilities Commission
121 Seventh Place East, Suite 350
St. Paul, MN 55105

Re: In the Matter of Updating the Generic Standards for the Interconnection and Operation of Distributed Generation Facilities Established Under Minn. Stat. § 216B.1611 (Docket E999/CI-16-521)

Mr. Seuffert,

Please find the Initial Comments of the Coalition for Community Solar Access related to the issue, “What changes to the Minnesota Distributed Energy Resources Interconnection Process (MN DIP) should the Commission make to achieve the purpose of Minnesota Law 2023, Ch. 60, Art. 12, Sec. 75 (HF 2310),” noticed for comment on September 1, 2023, in this docket.

Sincerely,

/s/ Samantha Weaver

Director of Interconnection & Grid Integration Policy
CCSA

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Attachment: Service List

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PUBLIC UTILITIES COMMISSION**

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John 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

**INITIAL COMMENTS
REGARDING QUALIFIED
FACILITIES WITH CAPACITY
UP TO 40 KW**

January 19, 2024

Docket No. E999/CI-16-521

I. Introduction

CCSA submits the following comments in response to Xcel’s proposal dated November 1, 2023. Xcel submitted its proposal in response to the Commission’s Notice of Comment Period issued September 1, 2023 by the Commission. The Notice stated that the issue was, “What changes to the Minnesota Distributed Energy Resources Interconnection Process (MN DIP) should the Commission make to achieve the purpose of Minnesota Law 2023, Ch. 60, Art. 12, Sec. 75 (HF 2310)?”

HF 2310 reads as follows:

Sec. 75. Public Utilities Commission Docket; Interconnection

No later than September 1, 2023, the commission shall open a proceeding to establish interconnection procedures that allow customer-sited distributed generation projects up to 40 kilowatts alternating current in capacity to be processed according to schedules specified in the Minnesota Distributed Energy Resources Interconnection Process, giving such projects priority over larger projects that may enjoy superior positions in the processing queue.¹

¹ House File 2310 (Law 2023, Ch. 60). Art. 12; Section 75

II. The Company's Proposal

In its November 1 proposal, Xcel emphasizes the significant challenges faced by projects in the interconnection queue, which are currently 'on hold' due to several factors. Firstly, projects are delayed because they must undergo sequential reviews, as mandated by the Minnesota Distributed Energy Resources Interconnection Process ("MN DIP"). Additionally, Xcel states that existing capacity on the grid is insufficient and "significant upgrades are necessary to interconnect."

The Company's proposed solution to the challenges noted above has two components. First, Xcel proposes to create two separate interconnection queues: a Priority Queue for customer-sited projects up to 40 kW-AC ("small DERs"), and a General Queue for all other interconnection applications. Secondly, the Company proposes to reserve 50% of feeder or substation capacity for projects in the Priority Queue.

III. CCSA Comments

a. Xcel's proposal to reserve 50% of feeder/substation capacity won't solve the grid congestion problem.

The Company's distribution constraints are such that even interconnection requests from small projects are expected to trigger costly upgrades that will result in project withdrawals. So, while this proposal may allow small projects to move through the queue faster, the outcome will be the same as if they'd kept their original queue position. Xcel's own recent Compliance Report acknowledges that adding any new projects will require substantial system modifications:

"Regardless of DER system size, projects are affected by grid impacts on constrained areas. ***Adding any new projects on these feeders, even smaller on-site projects, will require substantial system modifications*** such as replacing or adding substation transformers or creating new or substantially modified feeders. As a result, more and more rooftop applications will require new or upgraded substation transformers and new or substantially modified feeders. These costs typically range in the millions of dollars, making the addition of small DER systems for residential customers unobtainable." ***[Emphasis added.]***²

This situation not only undermines the intended benefits of prioritizing small projects but also raises concerns about the viability of any projects under the proposed system. Therefore, it is crucial to address these underlying infrastructure issues comprehensively rather than relying on a proposal that, in practice, may not effectively alleviate the challenges faced by small projects seeking interconnection.

² Xcel Annual Compliance Report, Docket Nos. E999/CI-01-1023 and E999/CI-16-521, March 1, 2023, at p. 28.

b. Xcel’s proposal to reserve 50% of feeder/substation capacity for small DERs is overly restrictive and goes beyond the purpose of legislation.

HF 2310 aims to expedite the processing of small DER interconnection applications. However, Xcel fails to justify why reserving capacity for projects under 40 kW-AC will ultimately achieve this objective, especially considering the level of grid congestion discussed above. HF 2310 is clearly *not* intended to limit which DER projects can interconnect to the grid in the first place. Yet, Xcel’s proposal would do just that – it would restrict the ability of larger DERs to interconnect at all by requiring cost prohibitive feeder and/or substation upgrades, without consideration of whether smaller projects are even interested in interconnecting at a given location to begin with. The result would be a de facto cap on community solar project development.

Even if Xcel’s proposal *were* consistent with the intent of the legislation, the plan to restrict capacity on 50% of Xcel’s entire distribution system is arbitrary and overly broad. Any limits on feeder capacity should be site-specific and in response to a demonstrated need for reserve capacity – due to, for example, considerations related to customer density, type of area served, or customer demographics of the circuit.

The Company’s plan to rely on administratively-set circuit capacity limits deviates from standard practice across the country and represents a significant barrier to achieving the state’s ambitious clean energy goals. This approach to interconnection is highly unconventional and nearly unprecedented among states with similar clean energy aspirations. To date, CCSA is aware of only two other states -- New Mexico and Maryland -- where utilities have previously imposed such broad limits. It’s worth noting that the New Mexico Public Service Commission invalidated this practice in 2023, recognizing the importance of reforming interconnection policies. And the Maryland Public Service Commission adopted revised regulations in January of 2024 that require any circuit capacity limits to be based on site-specific analyses, rather than broad rules of thumb.

c. Proactive distribution system planning and investment is necessary to improve interconnection.

To better facilitated interconnection of high penetrations of DERs, regulators should require distribution utilities to adopt planning frameworks whereby they ultimately propose proactive investments in the grid to enable future expected DER growth, promote electrification of customer load, and achieve other similar policy objectives. Such a proactive distribution system planning framework would help the state achieve longer-term policy goals, improve existing challenges with the interconnection process, allow utilities to proactively plan for DER integration and electrifying load, while identifying least-cost solutions to grid needs, including distribution capacity and reliability. CCSA recognizes that this issue is in scope for the Integrated Distribution System Planning proceeding and looks forward to engaging there as well on this overlapping topic.

To better illustrate how these frameworks look in practice, CCSA provides below three examples from states that have adopted or proposed proactive distribution planning frameworks. These states are appropriate examples given the issue at hand, since they represent areas that have experienced high DER growth in recent years. Massachusetts, in particular, has community solar growth on par with Minnesota's. CCSA believes that any one of the following approaches would be more appropriate for Minnesota than Xcel's current proposal:

Massachusetts – Capital Investment Plans

The Massachusetts Department of Public Utilities adopted a Capital Investment Plan (“CIP”) Provisional Program in 2021 in order to “address imminent short-term DG interconnection cost allocation concerns” and to help ensure the state meets its clean energy and climate goals.³ This framework was established to provide a pathway for projects that may otherwise not be able to move forward due to significantly high interconnection costs.

The Massachusetts CIP program framework allows utilities to submit investment plans that are reviewed on a case-by-case basis, through an adjudicatory process. Massachusetts CIP proposals must meet five eligibility criteria in order to be considered, including:

1. Be limited in scope;
2. Enable the interconnection of multiple facilities;
3. Have a maximum CIP fee of \$500/kW
4. Demonstrate that aspects of construction can be completed within four years; and
5. Demonstrate that DG will likely be interconnected in the proposed area within the coming years.

New Jersey – Proactive System Upgrade Planning

The New Jersey Board of Public Utilities issued proposed regulations in 2023 requiring utilities to identify targeted upgrades designed to expand opportunities for DER interconnection. The proposed rules state:

"Each electric distribution company (EDC) shall make a Proactive System Upgrade Planning (PSUP) filing on January 1 of each even numbered year, starting on January 1, 2024. The PSUP shall identify congested areas on each EDC system that are significantly limiting the ability to interconnect new resources to the EDC's distribution system and identify proposed upgrades that would proactively alleviate those constraints."⁴

Maryland – Hosting Capacity Upgrade Plans

Maryland utilities have experienced challenges related to high DER penetration that are similar to those described by Xcel. At a rulemaking session held on January 9, 2024, the Maryland

³ See DPU Order 20-75-B. November 24, 2021. *Order on Provisional System Planning Program*. Available at <https://fileservice.eea.comacloud.net/FileService.Api/file/FileRoom/14232299>

⁴ See NJ Board of Public Utilities Notice. March 2, 2023. *Revised Notice: Interconnection Proposed Rule Language*. Docket QO21010085: https://publicaccess.bpu.state.nj.us/CaseSummary.aspx?case_id=2109704

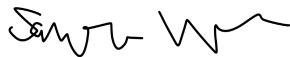
Public Service Commission adopted recommendations put forward by the state’s Interconnection Workgroup that would allow utilities to file hosting capacity upgrade plans.⁵ The plans are intended to “address or otherwise increase” the utilities' existing capacity limits on a set of feeders across the system, or in a specific area of an electric utility’s system that are forecasted to be the most congested in the future – i.e., those locations where the utility's forecast of DER growth most exceeds existing hosting capacity.

d. Conclusion

Xcel’s proposal will harm larger DERs without solving the challenge at the root of this discussion: Minnesota’s electrical grid needs to be upgraded to allow for future DER growth. Numerous other states have encountered similar challenges without resorting to administratively-set circuit capacity reservations. Xcel’s concerns about distribution system constraints and the high cost of upgrades are valid, but their proposed solution is not appropriate. Based on lessons learned from other states that have examined how to address high DER penetration, the best way to solve that problem in a holistic and least-cost manner is by moving towards a methodology of forecasting DER growth and proactively planning for grid upgrades – not via the arbitrary capacity limits Xcel has proposed here.

CCSA appreciates the opportunity to comment and looks forward to continuing to work with the Commission and other stakeholders on this important issue.

Respectfully submitted,



Samantha Weaver
Director of Interconnection and Grid Integration Policy
Coalition for Community Solar Access

⁵ See Hosting Capacity Upgrade plans as described in *PC44 Interconnection Work Group Phase V Final Report and Petition for a Rulemaking Proceeding*. Available at <https://webpsc.psc.state.md.us/DMS/rm/rm81>

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Cheri	Lenzmeier	cheril@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

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Amy	Liberkowski	amy.a.liberkowski@xcelenergy.com	Xcel Energy	414 Nicollet Mall 7th Floor Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Carl	Linville	clinville@raponline.org	Regulatory Assistance Project	50 State Street Suite #3 Montpelier, VT 05602	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Phillip	Lipetsky	greenenergyproductsllc@gmail.com	Green Energy Products	PO Box 108 Springfield, MN 56087	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Jody	Londo	jody.l.londo@xcelenergy.com	Xcel Energy	414 Nicollet Mall 7th Floor Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
William	Lovelace	wlovelace@minnkota.com	Minnkota Power Cooperative	5301 32nd Ave S Grand Forks, ND 58201	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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
Richard	Macke	macker@powersystem.org	Power System Engineering, Inc.	10710 Town Square Dr NE Ste 201 Minneapolis, MN 55449	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 E 7th St St Paul, MN 55106	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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Sara G	McGrane	smcgrane@felhaber.com	Felhaber Larson	220 S 6th St Ste 2200 Minneapolis, MN 55420	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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
Matthew	Melewski	matthew@nokomisenergy.com	Nokomis Energy LLC & Ole Solar LLC	2639 Nicollet Ave Ste 200 Minneapolis, MN 55408	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, MN 55120	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Tim	Mergen	tmergen@meeke.coop	Meeke 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
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Luther	Miller	Luther.C.Miller@xcelenergy.com	Xcel Energy	N/A	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Stacy	Miller	stacy.miller@minneapolismn.gov	City of Minneapolis	350 S. 5th Street Room M 301 Minneapolis, MN 55415	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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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
Sergio	Navas	snavas@sundialsolarenergy.com	Sundial Energy, LLC	3363 Republic Ave Saint Louis Park, MN 55426	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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Michael	Noble	noble@fresh-energy.org	Fresh Energy	408 Saint Peter St Ste 350 Saint Paul, MN 55102	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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Samantha	Norris	samanthanorris@alliantenergy.com	Interstate Power and Light Company	200 1st Street SE PO Box 351 Cedar Rapids, IA 524060351	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Logan	O'Grady	logrady@mNSEIA.org	Minnesota Solar Energy Industries Association	2288 University Ave W St. Paul, MN 55114	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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Jeff	O'Neill	jeff.oneill@ci.monticello.mn.us	City of Monticello	505 Walnut Street Suite 1 Monticello, MN 55362	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
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
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
Cezar	Panait	Cezar.Panait@state.mn.us	Public Utilities Commission	121 7th Place East Suite 350 St. Paul, MN 55101	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
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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
Elizabeth	Psihos	elizabeth.psihos@idealenergies.com		N/A	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
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John C.	Reinhardt	N/A	Laura A. Reinhardt	3552 26th Ave S 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
Kevin	Reuther	kreuther@mncenter.org	MN Center for Environmental Advocacy	26 E Exchange St, Ste 206 St. Paul, MN 551011667	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Isabel	Ricker	ricker@fresh-energy.org	Fresh Energy	408 Saint Peter Street Suite 220 Saint Paul, MN 55102	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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Michael	Ruiz	michael.ruiz@xcelenergy.com	Xcel Energy	N/A	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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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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Kay	Schraeder	kschraeder@minnkota.com	Minnkota Power	5301 32nd Ave S Grand Forks, ND 58201	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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Ronald J.	Schwartau	rschwartau@noblesce.com	Nobles Cooperative Electric	22636 U.S. Hwy. 59 Worthington, MN 56187	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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Rafi	Sohail	rafi.sohail@centerpointenergy.com	CenterPoint Energy	800 LaSalle Avenue P.O. Box 59038 Minneapolis, MN 554590038	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Beth	Soholt	bsoholt@cleangridalliance.org	Clean Grid Alliance	570 Asbury Street Suite 201 St. Paul, MN 55104	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Marcia	Solie	m.solie@bcrea.coop	Brown County Rural Electrical Assn.	24386 State Hwy. 4, PO Box 529 Sleepy Eye, MN 56085	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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Robyn	Sonstegard	robyn.s@northstarelectric.coop	North Star Electric Cooperative, Inc.	PO BOX 719 Baudette, MN 56623	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
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Emma Marshall	Torres	emarshall-torres@convergentep.com		N/A	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Pat	Treseler	pat.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
Jeff	Triplett	triplettj@powersystem.org	MREA	10710 Town Square Dr NW St 201 Minneapolis, MN 55449	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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Wendy	Vorasane	wendy.vorasane@idealenergy.com		N/A	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Robert	Walsh	bwalsh@mnvalleyrec.com	Minnesota Valley Coop Light and Power	PO Box 248 501 S 1st St Montevideo, MN 56265	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Roger	Warehime	roger.warehime@owatonnautilities.com	Owatonna Municipal Public Utilities	208 S Walnut Ave PO BOX 800 Owatonna, MN 55060	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Elizabeth	Wefel	eawefel@flahertyhood.com	Flaherty & Hood, P.A.	525 Park St Ste 470 Saint Paul, MN 55103	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
John	Williamson	John.Williamson@state.mn.us	Minnesota Department of Labor and Industry	443 Lafayette Rd N St. Paul, MN 55155-4341	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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Terry	Wolf	terry.wolf@mrenergy.com	Missouri River Energy Services	3724 W Avera Dr PO Box Sioux Falls, SD 571098920	Electronic Service	No	OFF_SL_16-521_Official Service List PUC
Brian	Zavesky	brianz@mrenergy.com	Missouri River Energy Services	3724 West Avera Drive P.O. Box 88920 Sioux Falls, SD 57108-8920	Electronic Service	No	OFF_SL_16-521_Official Service List PUC