



September 15, 2015

Daniel P. Wolf
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, MN 55101-2147

**Re: Written Responses by Dominion Voltage, Inc. to Questions Posted in the
Commission Investigation into Grid Modernization, Docket No. E999/CI-15-556**

Dear Mr. Wolf:

Pursuant to the *Notice of Grid Modernization Stakeholder Meeting and Request for Stakeholder Perspectives* (“Notice”) issued August 27, 2015 by the Minnesota Public Utilities Commission (“Commission”) in the above referenced docket, Dominion Voltage, Inc. (“DVI”), a subsidiary of Dominion Resources, Inc. (“DRI”), respectfully submits these Comments to the following question posed in the Commission’s Notice:

What specific national examples of grid modernization and emerging best practices could inform Minnesota’s discussion of electric distribution system modernization?

Voltage optimization (VO) has been studied, reviewed, and endorsed as a best practice for its distribution efficiency and as a platform for further smart grid development and, consequently, could greatly inform the Commission’s discussion on grid modernization. VO, when combined with advanced metering infrastructure (“AMI”), provides automated voltage control that can manage voltage delivery at the meter within the lower, more efficient range of the voltage standard., providing 24x7 energy savings, reducing customers’ bills while ensuring that voltage is maintained at safe and reliable levels for customers’ equipment and appliances. In addition, automated voltage control technology with the dual capability of communicating with smart inverters, as well as AMI, can provide voltage stabilization, allowing more renewable DG installation on distribution circuits while providing greater reliability for all customers, regardless of their DG ownership. Consequently, DVI would respectfully suggest that the Commission include VO in the scope of its grid modernization investigation.

While DVI’s substantive comments on VO included below are short, the other components of this letter (e.g., background and contact information for DVI, along with footnote citations) cause it to exceed the Commission’s requested 3 page limit. Notwithstanding, DVI respectfully asks the Commission to accept its Comments as informative to the scope and the subject of this investigation.

I. BACKGROUND

DVI is a subsidiary of DRI, a holding company that is publicly traded and which operates as an integrated energy company and significant producer and transporter of energy. DRI's portfolio of assets includes approximately 23,500 MW of generation; 11,000 miles of natural gas transmission, gathering, and storage pipeline; 56,900 miles of electric distribution lines; and 6,300 miles of electric transmission lines.

DVI holds, licenses, and sells software in the field of voltage optimization ("VO"), and also maintains the intellectual property rights to such software. To this end, DVI has developed an innovative, state-of-the-art software solution for voltage and volt-ampere reactive (var) control and optimization called EDGE[®] (which stands for Energy Distribution & Grid Efficiency) that can achieve advanced conservation voltage control ("CVR") that is translatable into energy savings for a utility and its customers and provides a foundational platform for further smart grid enhancements of the distribution grid, including DVI's grid voltage stabilization solution for increasing intermittent renewable energy DG.

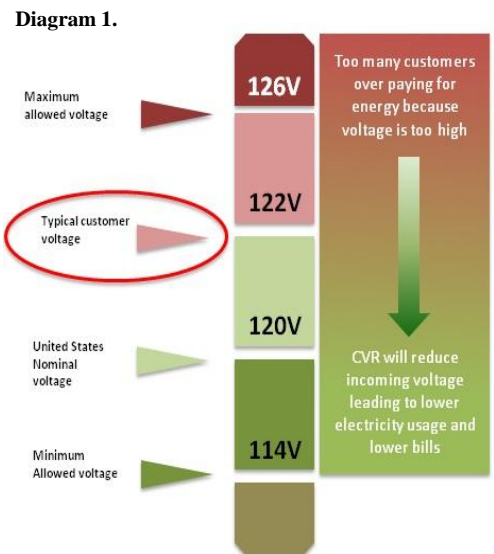
II. COMMENTS

A. The Distribution Efficiency and Enhanced Reliability of AMI-enabled VO:

Energy conservation through voltage reduction has been used for several decades. Higher voltage levels result in higher energy consumption behind the meter. Reducing voltage means less energy consumed. These early CVR programs, however, used a low-tech solution involving physical adjustment of a transformer setting that established voltage at the substation level for delivery of energy within the lower one-half of the 10% voltage band required by American National Standards Institute ("ANSI") equipment standards. However, it was difficult to sustain lower settings without knowing the voltage conditions on the primary circuits and at the meter.

Lacking real-time operating information at the meter, utilities generally deliver energy at a conservative 120V to account for distribution line losses that could cause the voltage delivered to customers to drop below regulated levels. However, AMI-enabled VO technology can manage voltage settings at the lower range indicated on the scale in Diagram 1 safely and reliably without any noticeable change in customers' equipment or appliance performance. Voltage management within the lower range can produce long-term sustainable energy savings – 24 hours a day, 7 days a week– or contribute to a utility's demand response ("DR") capacity by the operator's turning on the VO software during periods of peak load.

Because VVO would be a distribution efficiency program that does not require any change in customer behavior or initial investment by customers, it serves the Commission's



public policy interest in expanding access to energy efficiency benefit to low-income customers. In its report on the results of its VVO pilot project funded by the DOE, Central Lincoln People's Utility District ("Central Lincoln") noted that all socioeconomic groups benefited as the saving occurred without regard to homeowner or renter status. In fact, the utility said that the "results of the pilot project were so impressive that Central Lincoln is undergoing plans for a full system wide implementation."¹ VVO as a grid-side energy efficiency program ensures equitable participation of ratepayers in its energy savings and environmental benefits, as well as the operational benefits gained through greater and expanded grid visibility.

VO that integrates AMI data into its software automated response will also directly contribute to increased reliability on the distribution grid. VO provides greater stability through the tightening of the bandwidth of voltage being delivered to the end user. Grid operators have enhanced visibility of what is happening at the customer meter, enabling them to identify significant voltage outliers and act on them prior to their becoming an operational issue or customer complaint. Having an advanced platform for voltage planning and monitoring reduces the occurrence of voltage dips and surges that cause service interruptions for customers. The value of the transparency that AMI provides to grid operations at a granular level is evidenced as the grid operator is alerted to outages much earlier, allowing for faster response times. The customer level data on voltage can be maximized by preventing costly outages and facilitating more effective planning for system upgrades that make the greatest impact.

B. Maintaining Grid Stability for Greater Integration of Solar DG:

Voltage management is key to addressing grid stability issues associated with increasing penetration of intermittent and non-dispatchable renewable DG. To address the volatility of voltage fluctuations in solar DG due to cloud transience, for example, DVI is adding a voltage stabilization module to its VO platform that (i) monitors solar DG using AMI voltage data; (ii) creates a voltage profile for solar homes or businesses, and then, (iii) using the same voltage automated control of its VO software, manages the secondary circuit's voltage based on the voltage profile. The stabilization software safely and reliably mitigates the voltage effects of cloud transience and helps maintain circuit stability. In addition, when a VO platform includes monitoring and planning modules, such as are components of DVI's VO platform, the data it collects can inform the decision-making process for planners and operators in modernizing the distribution system so that the system is prepared to accommodate the inevitable upsurge of variable renewable DG penetration.

C. Organizational Support of VO as a Best Practice

The National Association of Regulatory Utility Commissioners ("NARUC") expressly identified VO as a critical component of the electric power grid's modernization in its *Resolution Supporting the Rapid Deployment of Voltage Optimization Technologies* ("Resolution"),² recognizing the advancement of adaptive VO technologies over conventional

¹ Central Lincoln, *Voltage Management at Central Lincoln PUD*, "Smart Grid Investment Grant 2014 Report Project ID 09-0269.

² National Association of Regulatory Utility Commissioner (NARUC), *EL-2/ERE-3 Resolution Supporting the Rapid Deployment of Voltage Optimization Technologies*, (November 14, 2012); can be found at

conservation voltage reduction (“CVR”) practices. The Department of Energy (“DOE”) sponsored VO demonstration pilots in twenty-six of its Smart Grid Investment Grant projects and, in a 2012 report, noted demonstrated benefits that included an average 2% reduction in peak load.³ In its recent *Guide to Action*⁴, the Environmental Protection Agency (“EPA”) recognized technological advancement in VO as a best practice for energy efficiency and included it as an example of distribution efficiency in its Final Rule for the Clean Power Plan (“CPP”).⁵ Other supportive organizations include the Council of State Governments (“CSG”), in its *Resolution Supporting Electric Power Grid Modernization to Achieve Energy Efficiency and Demand Reduction Benefits*;⁶ the National Rural Electric Cooperative Association (“NRECA”);⁷ and the American Council for an Energy-Efficiency Economy (“ACEEE”) in its 2013 report, *Frontier of Energy Efficiency: Next Generation Programs Reach for High Energy Savings*.⁸

IV. DVI Contacts and Communications

Any communications and correspondence related to DVI’s Comments and/or its participation in this proceeding should be directed to the following representatives:

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<http://www.naruc.org/Resolutions/Resolution%20Supporting%20the%20Rapid%20Deployment%20of%20Voltage%20Optimization%20Technologies.pdf>, p. 6-7.

³ DOE, *Application of Automated Controls for Voltage and Reactive Power Management – Initial Result*, Smart Grid Investment Grant Program (Dec. 2012), at ii; can be found at https://www.smartgrid.gov/files/VVO_Report_-_Final.pdf.

⁴ EPA, *Energy and Environmental Guide to Action: State Policies and Best Practices for Advancing Energy Efficiency, Renewable Energy, and Heat and Power*, (2015) (hereinafter “Guide to Action”), which can be found at: http://epa.gov/statelocalclimate/documents/pdf/guide_action_full.pdf.

⁵ EPA’s Final Rule, *Carbon Pollution Emission Guidelines For Existing Stations Sources Electric Utility Generating Units* (“Final Rule”), (issued Aug. 3, 2015)

⁶ CSG, *Resolution Supporting Electric Power Grid Modernization to Achieve Energy Efficiency and Demand Reduction Benefits*, (Dec. 2012) can be found at <http://www.csg.org/2012NationalConference/documents/Resolution%20Supporting%20Electric%20Power%20Grid%20Modernization.pdf>.

⁷ NRECA, *Costs and Benefits of Conservation Voltage Reduction: CVR Warrants Careful Examination*, (Nov. 15, 2013) p.16; can be found at http://www.nreca.coop/wp-content/uploads/2014/01/NRECA_DOE_Costs_Benefits_of_CVR_b.pdf.

⁸ ACEEE, *Frontier of Energy Efficiency: Next Generation Programs Reach for High Energy Savings* (Jan. 9, 2013) found at <http://aceee.org/research-report/u131>.

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DVI appreciates the opportunity to provide these Comments to the Commission in response to its Notice. The Company would also appreciate the opportunity to participate in one of the upcoming meetings scheduled by the Commission in the Notice and to provide more information on VO, its benefits and the energy efficiency business case that demonstrates the cost-effective deployment of VO as a foundational technology for further grid modernization development.

Respectfully,

DOMINION VOLTAGE, INC.

By: /s/ Maria M. Seidler

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CERTIFICATE OF SERVICE

I, Maria Seidler, hereby certify that I have this day served copies of the following document on the attached list of persons by electronic filing, e-mail, or by depositing a true and correct copy thereof properly enveloped with postage paid in the United States mail at Richmond, Virginia.

DOMINION VOLTAGE, INC. – COMMENTS

Docket No. **E999/CI-15-556**

Dated this **15th** day of **September, 2015**.



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Casey	Jacobson	cjacobson@bepc.com	Basin Electric Power Cooperative	1717 East Interstate Avenue Bismarck, ND 58501	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
John S.	Jaffray	jjaffray@jirpower.com	JJR Power	350 Highway 7 Suite 236 Excelsior, MN 55331	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Alan	Jenkins	aj@jenkinsatlaw.com	Jenkins at Law	2265 Roswell Road Suite 100 Marietta, GA 30062	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Eric	Jensen	ejensen@iwla.org	Izaak Walton League of America	Suite 202 1619 Dayton Avenue St. Paul, MN 55104	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Richard	Johnson	Rick.Johnson@lawmoss.com	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Nate	Jones	njones@hcpd.com	Heartland Consumers Power	PO Box 248 Madison, SD 57042	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Michael	Kampmeyer	mkampmeyer@a-e-group.com	AEG Group, LLC	260 Salem Church Road Sunfish Lake, Minnesota 55118	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Mark J.	Kaufman	mkaufman@ibewlocal949.org	IBEW Local Union 949	12908 Nicollet Avenue South Burnsville, MN 55337	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Jennifer	Kefer	jennifer@dgardiner.com	Alliance for Industrial Efficiency	David Gardiner & Associates, LLC 2609 11th St N Arlington, VA 22201-2825	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Julie	Ketchum	N/A	Waste Management	20520 Keokuk Ave Lakeville, MN 55044	Paper Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Madeleine	Klein	mklein@socoreenergy.com	SoCore Energy	225 W Hubbard Street Suite 200 Chicago, IL 60654	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Brad	Klein	bklein@elpc.org	Environmental Law & Policy Center	35 E. Wacker Drive, Suite 1600 Suite 1600 Chicago, IL 60601	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
John	Kluempke	jwkluempke@winlectric.com	Elk River Winlectric	12777 Meadowvale Rd Elk River, MN 55330	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Thomas	Koehler	TGK@IBEW160.org	Local Union #160, IBEW	2909 Anthony Ln St Anthony Village, MN 55418-3238	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Brian	Krambeer	bkrամbeer@tec.coop	Tri-County Electric Cooperative	PO Box 626 31110 Cooperative Way Rushford, MN 55971	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Jon	Kramer	jk2surf@aol.com	Sundial Solar	4708 york ave. S Minneapolis, MN 55410	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Michael	Krause	michaelkrause61@yahoo.com	Kandiyo Consulting, LLC	433 S 7th Street Suite 2025 Minneapolis, Minnesota 55415	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
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_15-556_OFF_SL_15-556_Official Service List
Matthew	Lacey	mlacey@greenergy.com	Great River Energy	12300 Elm Creek Boulevard Maple Grove, MN 553694718	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Holly	Lahd	lahd@fresh-energy.org	Fresh Energy	408 St. Peter Street Ste 220 St. Paul, MN 55102	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
James D.	Larson	james.larson@avantenergy.com	Avant Energy Services	220 S 6th St Ste 1300 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Douglas	Larson	dlarson@dakotaelectric.com	Dakota Electric Association	4300 220th St W Farmington, MN 55024	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Dean	Leischow	dean@sunriseenergyventures.com	Sunrise Energy Ventures	601 Carlson Parkway, Suite 1050 Minneapolis, MN 55305	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Deborah Fohr	Levchak	dlevchak@bepc.com	Basin Electric Power Cooperative	1717 East Interstate Avenue Bismarck, ND 585030564	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Annie	Levenson Falk	annie.levensonfalk@lec.leg.mn	Legislative Energy Commission	State Office Building, Room 65 100 Rev MLK Jr. Blvd St. Paul, MN 55155	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
John	Lindell	agorud.ecf@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012130	Electronic Service	Yes	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Susan	Ludwig	sludwig@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Rebecca	Lundberg	rebecca.lundberg@powerfullygreen.com	Powerfully Green	11451 Oregon Ave N Champlin, MN 55316	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Casey	MacCallum	casey@appliedenergyinnovations.org	Applied Energy Innovations	4000 Minnehaha Ave S Minneapolis, MN 55406	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Kavita	Maini	kmaini@wi.rr.com	KM Energy Consulting LLC	961 N Lost Woods Rd Oconomowoc, WI 53066	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E St. Paul, MN 55106	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Samuel	Mason	smason@beltramelectric.com	Beltrami Electric Cooperative, Inc.	4111 Technology Dr. NW PO Box 488 Bemidji, MN 56619-0488	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Erica	McConnell	emcconnell@kfwlaw.com	Keyes, Fox & Wiedman LLP	436 14th Street, Suite 1305 Oakland, California 94612	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Dave	McNary	David.McNary@hennepin.us	Hennepin County DES	701 Fourth Ave S Ste 700 Minneapolis, MN 55415-1842	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
John	McWilliams	jmm@dairy.net	Dairyland Power Cooperative	3200 East Ave SPO Box 817 La Crosse, WI 54601-7227	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Thomas	Melone	Thomas.Melone@AllcoUS.com	Minnesota Go Solar LLC	222 South 9th Street Suite 1600 Minneapolis, Minnesota 55120	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Andrew	Moratzka	apmoratzka@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Martin	Morud	mmorud@trunorthsolar.com	Tru North Solar	5115 45th Ave S Minneapolis, MN 55417	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Ron	Nelson	ron.nelson@ag.state.mn.us	Office of the Attorney General-RUD	Bremer Tower, Suite 1400 445 Minnesota Street Saint Paul, Minnesota 55101	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Carl	Nelson	cnelson@mncee.org	Center for Energy and Environment	212 3rd Ave N Ste 560 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Ben	Nelson		CMMPA	459 South Grove Street Blue Earth, MN 56013	Paper Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
David W.	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	Suite 300 200 South Sixth Street Minneapolis, MN 55402	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Rolf	Nordstrom	rnordstrom@gpisd.net	Great Plains Institute	2801 21ST AVE S STE 220 Minneapolis, MN 55407-1229	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
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_15- 556_OFF_SL_15- 556_Official Service List
Gary	Oetken	goetken@agp.com	Ag Processing, Inc.	12700 West Dodge Road P.O. Box 2047 Omaha, NE 681032047	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Russell	Olson	rolson@hcpd.com	Heartland Consumers Power District	PO Box 248 Madison, SD 570420248	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Dan	Patry	dpatry@sunedison.com	SunEdison	600 Clipper Drive Belmont, CA 94002	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Jeffrey C	Paulson	jeff.jcplaw@comcast.net	Paulson Law Office, Ltd.	7301 Ohms Ln Ste 325 Edina, MN 55439	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Mary Beth	Peranteau	mperanteau@wheelerlaw.com	Wheeler Van Sickle & Anderson SC	Suite 801 25 West Main Street Madison, WI 537033398	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Jennifer	Peterson	jjpeterson@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Donna	Pickard	dpickard@aladdinsolar.com	Aladdin Solar	1215 Lilac Lane Excelsior, MN 55331	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
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_15- 556_OFF_SL_15- 556_Official Service List
Gayle	Prest	gayle.prest@minneapolismn.gov	City of Mpls Sustainability	350 South 5th St, #315 Minneapolis, MN 55415	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Gregory	Randa	granda@lakecountrypower.com	Lake Country Power	2810 Elida Drive Grand Rapids, MN 55744	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Mark	Rathbun	mrathbun@grenergy.com	Great River Energy	12300 Elm Creek Blvd Maple Grove, MN 55369	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
John C.	Reinhardt		Laura A. Reinhardt	3552 26Th Avenue South Minneapolis, MN 55406	Paper Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
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_15- 556_OFF_SL_15- 556_Official Service List
Michael	Riewer	MRiewer@otpc.com	Otter Tail Power Company	PO Box 4496 Fergus Falls, MN 56538-0496	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Michelle	Rosier	michelle.rosier@sierraclub.org	Sierra Club	2327 E. Franklin Avenue Minneapolis, MN 554061024	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Craig	Rustad	crustad@minnkota.com	Minnkota Power	1822 Mill Road PO Box 13200 Grand Forks, ND 582083200	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Robert K.	Sahr	bsahr@eastriver.coop	East River Electric Power Cooperative	P.O. Box 227 Madison, SD 57042	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Richard	Savelkoul	rsavelkoul@martinsquires.com	Martin & Squires, P.A.	332 Minnesota Street Ste W2750 St. Paul, MN 55101	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Thomas	Scharff	thomas.scharff@newpagecorp.com	New Page Corporation	P.O. Box 8050 610 High Street Wisconsin Rapids, WI 544958050	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Larry L.	Schedin	Larry@LLSResources.com	LLS Resources, LLC	12 S 6th St Ste 1137 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Christopher	Schoenherr	cp.schoenherr@smmpa.org	SMMPA	500 First Ave SW Rochester, MN 55902-3303	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Dean	Sedgwick	N/A	Itasca Power Company	PO Box 457 Bigfork, MN 56628-0457	Paper Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
William	Seuffert	Will.Seuffert@state.mn.us		75 Rev Martin Luther King Jr Blvd 130 State Capitol St. Paul, MN 55155	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Patricia	Sharkey	psharkey@environmentallawcounsel.com	Midwest Cogeneration Association.	180 N. LaSalle Street Suite 3700 Chicago, Illinois 60601	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Doug	Shoemaker	dougs@mnRenewables.org	MRES	2928 5th Ave S Minneapolis, MN 55408	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Mrg	Simon	mrgsimon@mrenergy.com	Missouri River Energy Services	3724 W. Avera Drive P.O. Box 88920 Sioux Falls, SD 571098920	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Brendon	Slotterback	brendon.slotterback@minneapolismn.gov	City of Minneapolis	350 S 5th Street, Room M315 Minneapolis, MN 55415	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Ken	Smith	ken.smith@districtenergy.com	District Energy St. Paul Inc.	76 W Kellogg Blvd St. Paul, MN 55102	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Ken	Smith	ken.smith@evergreenenergy.com	Ever Green Energy	1350 Landmark Towers 345 St. Peter St St. Paul, MN 55102	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Beth H.	Soholt	bsoholt@windonthewires.org	Wind on the Wires	570 Asbury Street Suite 201 St. Paul, MN 55104	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Tom	Stanton	tstanton@nrri.org	NRRI	1080 Carmack Road Columbus, OH 43210	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Byron E.	Starns	byron.starns@leonard.com	Leonard Street and Deinard	150 South 5th Street Suite 2300 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
James M.	Strommen	jstrommen@kennedy-graven.com	Kennedy & Graven, Chartered	470 U.S. Bank Plaza 200 South Sixth Street Minneapolis, MN 55402	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Eric	Swanson	eswanson@winthrop.com	Winthrop Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Thomas P.	Sweeney III	tom.sweeney@easycleane nergy.com	Clean Energy Collective	P O Box 1828 Boulder, CO 80306-1828	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
SaGonna	Thompson	Regulatory.records@xcele nergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Steve	Thompson	stevet@cmmpa.org	Central Minnesota Municipal Power Agency	459 S Grove St Blue Earth, MN 56013-2629	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Stuart	Tommerdahl	stommerdahl@otpc.com	Otter Tail Power Company	215 S Cascade St PO Box 496 Fergus Falls, MN 56537	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Pat	Treseler	pat.jcplaw@comcast.net	Paulson Law Office LTD	Suite 325 7301 Ohms Lane Edina, MN 55439	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Lise	Trudeau	lise.trudeau@state.mn.us	Department of Commerce	85 7th Place East Suite 500 Saint Paul, MN 55101	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Karen	Turnboom	karen.turnboom@newpage corp.com	NewPage Corporation	100 Central Avenue Duluth, MN 55807	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Darryl	Tveitbakk	dalene@mncable.net	Northern Municipal Power Agency	123 2nd St W Thief River Falls, MN 56701	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Lisa	Veith	lisa.veith@ci.stpaul.mn.us	City of St. Paul	400 City Hall and Courthouse 15 West Kellogg Blvd. St. Paul, MN 55102	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List
Roger	Warehime	warehimer@owatonnautiliti es.com	Owatonna Public Utilities	208 South WalnutPO Box 800 Owatonna, MN 55060	Electronic Service	No	OFF_SL_15- 556_OFF_SL_15- 556_Official Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Paul	White	paul.white@prcwind.com	Project Resources Corp./Tamarac Line LLC/Ridgewind	618 2nd Ave SE Minneapolis, MN 55414	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Jason	Willett	jason.willett@metc.state.mn.us	Metropolitan Council	390 Robert St N Saint Paul, MN 55101-1805	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Daniel	Williams	DanWilliams.mg@gmail.com	Powerfully Green	11451 Oregon Avenue N Champlin, MN 55316	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Robyn	Woeste	robynwoeste@alliantenergy.com	Interstate Power and Light Company	200 First St SE Cedar Rapids, IA 52401	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Daniel P	Wolf	dan.wolf@state.mn.us	Public Utilities Commission	121 7th Place East Suite 350 St. Paul, MN 551012147	Electronic Service	Yes	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Thomas J.	Zaremba	TZaremba@wheelerlaw.com	WHEELER, VAN SICKLE & ANDERSON	Suite 801 25 West Main Street Madison, WI 537033398	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List
Christopher	Zibart	czibart@atcllc.com	American Transmission Company LLC	W234 N2000 Ridgeview Pkwy Court Waukesha, WI 53188-1022	Electronic Service	No	OFF_SL_15-556_OFF_SL_15-556_Official Service List