BRIGGS
BRIGGS AND MORGAN

2200 IDS Center
80 South 8th Street
Minneapolis MN 55402-2157
tel 612.977.8400
fax 612.977.8650

September 30, 2011

Lisa M. Agrimonti
(612) 977-8656
LAgrimonti@Briggs.com

VIA ELECTRONIC FILING

Hon. Beverly Jones Heydinger
Administrative Law Judge
Office of Administrative Hearings
600 North Robert Street
PO Box 64620
St. Paul, MN 55164-0620

Re: In the Matter of the Application of Northern States Power Company, a Minnesota corporation, for a Certificate of Need for Two High Voltage 115 kV Transmission Lines in the Midtown Area of South Minneapolis, Hennepin County
MPUC Docket No. E002/CN-10-694

Dear Beverly:

Enclosed for electronic filing are the direct testimonies and schedules of Northern States Power Company, a Minnesota corporation, as follows:

1. Direct Testimony of Paul J Lehman and Schedule 1;
2. Direct Testimony of Pamela J. Rasmussen and Schedule 1; and
3. Direct Testimony of Scott Zima and Schedules 1, 2 and 3.

If you have questions or need additional information, please contact me at 612-977-8656.

Sincerely,

s/Lisa Agrimonti

Lisa Agrimonti

cc: Service List

STATE OF MINNESOTA
OFFICE OF ADMINISTRATIVE HEARINGS
FOR THE PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION OF NORTHERN STATES POWER COMPANY, A MINNESOTA CORPORATION, FOR A CERTIFICATE OF NEED FOR TWO HIGH VOLTAGE 115 KV TRANSMISSION LINES IN THE MIDTOWN AREA OF SOUTH MINNEAPOLIS, HENNEPIN COUNTY	PUC DOCKET NO. E002/CN-10-694

TESTIMONY OF

Paul J Lehman

On Behalf of

APPLICANT

NORTHERN STATES POWER COMPANY, A MINNESOTA CORPORATION

September 30, 2011

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I. INTRODUCTION AND QUALIFICATIONS

Q. PLEASE STATE YOUR NAME AND YOUR BUSINESS ADDRESS.

A. My name is Paul J Lehman and my business address is 414 Nicollet Mall, Minneapolis, Minnesota 55401.

Q. BY WHOM ARE YOU EMPLOYED AND WHAT IS YOUR POSITION?

A. I am employed by Xcel Energy Services Inc. ("XES"), the service company provider for Northern States Power Company, a Minnesota corporation ("Xcel Energy" or "Company"), and my current position is Manager of Regulatory Administration.

Q. PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND PROFESSIONAL EXPERIENCE.

A. I received a Bachelor of Science in Electrical Engineering from the University of Minnesota in 1977. After receiving my degree, I began my career at the Company as a Planning Engineer in its Power Supply Planning department. In 1980, I became the Superintendent of Transmission Planning for Northern States Power Company, a Wisconsin corporation ("NSPW"), responsible for all power supply planning efforts for the NSPW's transmission needs in Wisconsin. In 1984, I moved to the Energy Supply Planning department of the Company with various responsibilities and titles, centered on planning activities associated with the Company's generating plants. In 1990, I became the Manager of a new department within the Company, Power Contracts, with responsibility for all the contracting activities for the power supply business needs of the Company.

In 1991, I became Manager, Electric Rate Design and was responsible for all the retail electric design activities and requirements for the Company. In 2000, I became an internal consultant providing services to other areas of the Company on pricing and regulatory issues. In 2008, I assumed my current position. My resume is attached as Schedule 1.

Q. FOR WHOM ARE YOU TESTIFYING?

A. I am testifying on behalf of Xcel Energy, the applicant for a Certificate of Need in this proceeding.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

A. The purpose of my testimony is to provide information regarding 2011 system loads occurring on the Upper Midwest NSP Service Territory ("NSP System"), which includes parts of Minnesota, North Dakota, South Dakota, Wisconsin and Michigan.

Q. WHAT SCHEDULES ARE ATTACHED TO YOUR TESTIMONY?

A. Schedule 1: CV of Paul J Lehman

Q. ARE YOU AVAILABLE TO PROVIDE TESTIMONY IN SUPPORT OF PARTICULAR SECTIONS OF THE CERTIFICATE OF NEED APPLICATION?

A. Yes. I was responsible for preparing the Certificate of Need Application and can generally answer questions regarding chapters 1 (Introduction and Summary), 2 (Project Description), and 6 (Engineering Design, Construction and Right-of-Way Acquisition).

II. UPDATED LOAD INFORMATION, NSP SYSTEM

Q. IN THE CERTIFICATE OF NEED APPLICATION, THE COMPANY PROVIDED ACTUAL PEAK LOADING INFORMATION FOR THE NSP SYSTEM. WHAT ADDITIONAL DATA IS NOW AVAILABLE?

A. The Company has now compiled a preliminary determination of the actual peak data for the NSP System for 2011.

Q. PLEASE DESCRIBE THE ACTUAL NSP SYSTEM PEAK LOAD SERVED IN 2011.

A. On July 20, 2011, the Company served the most load it has ever served on its NSP System. The actual load served on that day at 5 p.m. reached 9,544 MW.

Q. HOW DOES THIS ACTUAL PEAK LOAD SERVED COMPARE TO HISTORICAL PEAK LOAD SERVED BY THE NSP SYSTEM?

A. As I said, this level of peak load served set a record for the NSP system and exceeded the previous record for actual peak load served set in 2010 by 413 MW (the actual peak load served by the NSP System in 2010 was 9,131 MW). By comparison, the actual peak load served by the NSP system in 2006 was 9,027 MW.

Q. WERE NEW PEAK LOADS REACHED IN OTHER AREAS THIS SUMMER?

A. Yes. The peak load served on the Midwest Independent Transmission System Operator, Inc.'s system which includes 12 states and Manitoba, Canada, reached an all-time peak on July 20, 2011 at approximately 104 gigawatts.

Q. UP TO THIS POINT YOU HAVE SPOKEN OF ACTUAL PEAK LOAD SERVED, IS THIS THE ONLY LEVEL OF LOAD FOR THE NSP SYSTEM THAT NEEDS TO BE CONSIDERED?

A. No. In addition to the level of load actually served by the NSP System, the Company also needs to be aware of the level of load that could potentially be served by the system.

Q. PLEASE EXPLAIN THE DISTINCTION BETWEEN THESE TWO TERMS.

A. The actual level of load served is a measure of the actual load that the system was required to serve, whereas the potential level of load that could be served is an estimate of what the system may have actually served if the Company had not taken steps to reduce load on the system (customer load interruption). In using land speed trials for a car as an analogy, the actual level of load served would be similar to the fastest speed a car actually reached during its test runs while the potential level of load served would be similar to the speed the designers of the car estimate the car could achieve if everything happened as designed.

Q. HAS THE COMPANY EVALUATED THE POTENTIAL LOAD LEVEL FOR THE NSP SYSTEM?

A. Yes. For 2011, the Company estimates that the maximum potential load level on the NSP system was 9,792 MW. This level is the Company's best estimate of what the load on the system would have been if the Company had not called for customer load interruption at the time.

Q. HAVE YOU EVALUATED HOW THE ESTIMATED POTENTIAL LOAD LEVEL OF 2011 COMPARES TO HISTORIC LEVELS OF ESTIMATED POTENTIAL LOAD ON THE NSP SYSTEM?

A. Yes. In 2006, the estimated potential load on the NSP System was 9,859 MW. This level still stands as the highest level of estimated potential load on the NSP System. Therefore, the estimated potential load level for 2011 was less than 1% below the all time maximum estimated potential load of 2006.

III. CONCLUSION

Q. DOES THIS CONCLUDE YOUR PRE-FILED DIRECT TESTIMONY?

A. Yes.

4288530v1

MR. PAUL J LEHMAN
Manager, Regulatory Administration
414 Nicollet Mall, Minneapolis, Minnesota

CURRENT RESPONSIBILITIES (August 2008 – Present)

Manage regulatory projects related to transmission facilities for Xcel Energy.

PREVIOUS EMPLOYMENT (Northern States Power Company)

Pricing Consultant	2000 - 2008
Manager, Electric Rate Design	1991 – 2000
Manager, Power Contracts	1990 – 1991
Various positions, Energy Supply Planning Including Superintendent, Power Systems Development And Superintendent, Bulk Power Planning	1984 – 1990
Superintendent, Transmission Planning	1980 – 1984
Planning Engineer, Power Supply Planning and Transmission Planning	1977 – 1980

PREVIOUS TESTIMONY

Jurisdiction	Subject	Docket/Case No.
Minnesota	Rate Design	E002/GR-05-1428
Colorado	Rate Design	04S-164E
Minnesota	Rate Design and Cost Allocation	E002/GR-92-1185
Minnesota	Legislative Committee Hearings on Wind Generation	NA
Minnesota	Power Purchase and Cogeneration Litigation	E002/GR-91-001
Minnesota	Joint Petition of Dakota County and Winona County	E002/CG-88-489
North Dakota	Rate Design and Cost Allocation	PU-400-92-399
North Dakota	Rules Governing Cogeneration and Small Power Production	PU-439-89-374
Wisconsin	Advance Plan 5	05-EP-5
Wisconsin	Advance Plan 4	05-EP-4
Wisconsin	Advance Plan 3	05-EP-3

EDUCATION

University of Minnesota – Institute of Technology Bachelor of Science in Electrical Engineering	1977
University of Minnesota – Continuing Education and Extension Pricing for Profits Strategies and Tactics	1992
University of Minnesota – Carlson School of Management Strategic Pricing Program	1997
Professional Pricing Society Fundamentals and Advanced Workshops of the Professional Pricing Skills Certificate Program	1999
University of Wisconsin, Madison – College of Engineering EEI Transmission Pricing School	2001

PROFESSIONAL REGISTRATIONS AND ASSOCIATIONS

Registered Professional Engineer in Minnesota and Wisconsin
Member, Institute of Electrical and Electronic Engineers

ARTICLES OR PAPERS PUBLISHED OR PRESENTED

Paul J. Lehman, et al, "MAPP Bulk Transmission Outage Data Collection and Analysis", IEEE Transactions on Power Apparatus and Systems, Volume PAS-103, Number 1, January 1984, p. 213-221.

Paul J. Lehman, et al, "Effects of Pooling Weather Associated MAPP Bulk Transmission Outage Data on Calculated Forced Outage Rates", IEEE Transactions on Power Apparatus and Systems, Volume PAS-103, Number 8, August 1984, p. 2345-2351.

Paul J. Lehman, et al, "Analysis of Pooling 345 kV Transmission Outage Data Between the Mid-Continent Area Power Pool and Northeast Utilities", IEEE Transactions on Power Apparatus and Systems, Volume PAS-104, Number 9, September 1985, p. 2427-2435.

Paul J. Lehman, et al, "The Procedure Used in the Probabilistic Transfer Capability Analysis of the MAPP Region Bulk Transmission System", IEEE Transactions on Power Apparatus and Systems, Volume PAS-104, Number 11, November 1985, p. 3013-3019.

Paul J. Lehman, et al, "The Effects of Terminal Complexity and Redundancy on the Frequency and Duration of Forced Outages", IEEE Transactions on Power Apparatus and Systems, Volume PWRS-2, Number 4, November 1987, p. 856-863.

STATE OF MINNESOTA
OFFICE OF ADMINISTRATIVE HEARINGS
FOR THE PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION OF NORTHERN STATES POWER COMPANY, A MINNESOTA CORPORATION, FOR A CERTIFICATE OF NEED FOR TWO HIGH VOLTAGE 115 KV TRANSMISSION LINES IN THE MIDTOWN AREA OF SOUTH MINNEAPOLIS, HENNEPIN COUNTY	PUC DOCKET NO. E002/CN-10-694

TESTIMONY OF

Pamela J. Rasmussen

On Behalf of

APPLICANT

NORTHERN STATES POWER COMPANY, A MINNESOTA CORPORATION

September 30, 2011

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I. INTRODUCTION AND QUALIFICATIONS

Q. PLEASE STATE YOUR NAME AND EMPLOYMENT ADDRESS.

A. My name is Pamela Jo Rasmussen and my business address is 1414 West Hamilton Avenue, Post Office Box 8, Eau Claire, Wisconsin 54702-0008.

Q. BY WHOM ARE YOU EMPLOYED AND WHAT IS YOUR POSITION?

A. I am employed as Manager, Siting and Land Rights, with Xcel Energy Services Inc. ("XES"), the service company provider for Northern States Power Company, a Minnesota corporation ("Xcel Energy").

Q. PLEASE SUMMARIZE YOUR QUALIFICATIONS AND EXPERIENCE.

A. I received a Bachelor's degree from the University of Wisconsin – Eau Claire in 1987 with majors in Business Administration and Biology. Since 1989, I have worked for Xcel Energy in the land rights, regulatory compliance, and environmental and permitting areas of the Company. My primary job responsibilities include land rights and permit activities for Xcel Energy covering Northern States Power Company-Minnesota and Northern States Power Company-Wisconsin for electric transmission line and substation projects in Minnesota, North Dakota, South Dakota, Wisconsin and Michigan. In addition, I direct the acquisition, management and transfer of land rights and real property for both companies' gas, electric, transmission and distribution systems. I am also responsible for staff who prepare assessments of project environmental impacts, assembling of all necessary environmental information required for permit approvals and recommending methods to minimize construction impacts for all transmission and substation proposals. My resume is attached as Schedule 1.

Q. FOR WHOM ARE YOU TESTIFYING?

A. I am testifying on behalf of Xcel Energy, the Applicant in this proceeding. Xcel Energy is seeking a Certificate of Need to construct the two new 115 kV transmission lines and two new substations in the Midtown area ("Hiawatha Project").

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

A. The purpose of my testimony is to provide information regarding the Company's efforts to acquire the lands necessary to construct the two new proposed substations on the sites that were recommended by the Administrative Law Judge Beverly Heydinger in her October 8, 2010 Findings of Fact, Conclusions and Recommendation for the Hiawatha Project ("ALJ Report").

Q. WHY IS THE COMPANY WORKING ON ACQUISITION AT THIS TIME?

A. For the Midtown North site, we began acquisition efforts this summer due to unforeseen circumstances—the condemned and unoccupied triplex was sold for refurbishment. The Hiawatha West site is now owned by the Minnesota Department of Transportation ("Mn/DOT") and it is our understanding that Hennepin County Metro Transit has plans to upgrade and reutilize the rail spur currently located on the site by the winter of 2012 to provide for light rail car delivery. Consequently, we have been meeting with Mn/DOT and Metro Transit regarding using the site for both light rail and the substation.

Q. ARE YOU AVAILABLE TO PROVIDE TESTIMONY IN SUPPORT OF PARTICULAR SECTIONS OF THE APPLICATION?

A. Yes. I am sponsoring chapters 7 (Transmission Line Operating Characteristics), 8 (Environmental Information) and Appendix E (cultural resources).

Q. WHAT SCHEDULES ARE ATTACHED TO YOUR TESTIMONY?

A. Schedule 1: CV of Pamela J. Rasmussen

II. SUBSTATIONS

Q. WHAT SITES DID THE ALJ RECOMMEND FOR THE TWO SUBSTATIONS?

A. For the Midtown Substation on the west end of the Project, the ALJ recommended the Midtown North site at 29th Street (Midtown Greenway) and Oakland Avenue. For the Hiawatha Substation on the east end of the Project, the ALJ recommended the Hiawatha West site at 28th Street and Hiawatha Avenue. (ALJ Report, p. 97).

Q. **WHAT PROPERTIES HAS THE COMPANY ACQUIRED FOR THE MIDTOWN NORTH SITE?**

A. The Midtown North site is comprised of the Company owned-former Oakland Substation at 2840 Oakland Avenue, a triplex located at 2833 Portland Avenue and a vacant lot at 28411 Portland Avenue. The Company purchased the triplex property on May 23, 2011 after learning that the property had been sold by the owner bank to an individual who began working on the triplex. The Company has also had preliminary discussions with the owner of the Brown Campbell site.

Q. PLEASE DESCRIBE THE COMPANY'S ON-GOING COORDINATION EFFORTS WITH MN/DOT AND METRO TRANSIT.

A. We have had several meetings with Mn/DOT and Metro Transit to discuss the technical details of a substation on the site as well as Metro Transit's rail line requirements. We have also had preliminary discussions about the potential transfer of the property by Mn/DOT to accommodate both uses. These discussions are ongoing and no specific agreement has been reached.

III. CONCLUSION

Q. DOES THIS CONCLUDE YOUR PRE-FILED DIRECT TESTIMONY?

A. Yes.

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Pamela Jo Rasmussen

WORK EXPERIENCE

Xcel Energy Services, Inc. – Northern States Power Company
22 years experience

- **Manager, Siting & Land Rights, 2008-present**
- **Supervisor, Siting & Permitting,** 2003 - 2008
- **Permitting Analyst; Team Lead, Permitting Analyst,** 1990 - 2003
- **Licensing Coordinator,** 1989 - 1990

- Manages land rights and permit activities for NSP-Minnesota and NSP-Wisconsin, for electric transmission line and substation projects in Minnesota, North Dakota, South Dakota, Wisconsin and Michigan.
- Directs the acquisition, management and disposal of land rights and real property for the Companies' gas, electric, transmission & distribution systems.
- Directs liaison with government agencies and public during construction project permitting which includes public involvement, permit development and permit compliance.
- Responsible for staff who prepare assessments project environmental impacts, assembling of all necessary environmental information required for permit approvals as well as recommendations to minimize construction impacts for all transmission and substation projects.
- Has presented on a variety of environmental issues at EEI, EPRI and other industry conferences on avian issues regarding transmission lines, public involvement and multi-state permitting processes.
- Leader in promoting company environmental stewardship efforts for the transmission area and land management. Led Xcel Energy efforts to sign the first voluntary MOU with the U.S. Fish & Wildlife Service to develop bird protection plans for all Xcel Energy's operating companies which are in effect.
- Member of NSPW hydro relicensing team that secured new licenses for seven NSPW hydropower facilities.

EDUCATION

- **University of Wisconsin – Eau Claire, WI,** Bachelor of Business Administration degree, December, 1987. Magna Cum Laude, University Honors Program. Biology and Business Administration Majors
- Fundamentals in Electric Power Certificate, May 1995

ORGANIZATIONS/INTERESTS/ACTIVITIES

- Xcel Energy United Way Committee (1994 to present)
- Xcel Energy Earth Day Committee (Circle of Excellence Team in 2008)
- NSPW Employees' Association (1993 to 1995)
- International Right-of-Way Association
- Friends of Beaver Creek Reserve, Board of Directors (1997 to present), President (2005 to 2009)
- Beaver Creek Foundation, Board (2010 to present)
- Eau Claire Community Beautification Association (2005 to 2009)

PROFESSIONAL DEVELOPMENT

- Xcel Energy Leadership Pipeline, 2007-2008
- Leadership Eau Claire, 2004
- NSP Corporate Finance Seminar, 1991

▪ pamela.jo.rasmussen@xcelenergy.com
▪ work: 715.737.4661

STATE OF MINNESOTA

**OFFICE OF ADMINISTRATIVE HEARINGS
FOR THE PUBLIC UTILITIES COMMISSION**

IN THE MATTER OF THE APPLICATION OF NORTHERN STATES POWER COMPANY, A MINNESOTA CORPORATION, FOR A CERTIFICATE OF NEED FOR TWO HIGH VOLTAGE 115 KV TRANSMISSION LINES IN THE MIDTOWN AREA OF SOUTH MINNEAPOLIS, HENNEPIN COUNTY	PUC DOCKET NO. E002/CN-10-694

TESTIMONY OF

Scott Zima

On Behalf of

APPLICANT

NORTHERN STATES POWER COMPANY, A MINNESOTA CORPORATION

September 30, 2011

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I. INTRODUCTION AND QUALIFICATIONS

Q. PLEASE STATE YOUR NAME AND YOUR BUSINESS ADDRESS.

A. My name is Scott Zima and my business address is 8701 Monticello Lane, Maple Grove, Minnesota 55369.

Q. BY WHOM ARE YOU EMPLOYED AND WHAT IS YOUR POSITION?

A. I am employed as a Principal Specialty Engineer by Northern States Power Company, a Minnesota corporation ("Xcel Energy" or the "Company").

Q. PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND PROFESSIONAL EXPERIENCE.

A. I earned a Bachelor of Science degree in Electrical Engineering from Iowa State University in 1979. I joined Xcel Energy's predecessor in 1984 and have been employed by the Company since that time. Throughout my career, I have been employed in various engineering positions throughout the Company including, as a Distribution Engineer, as a Manager of Distribution Engineering Services and as a Principal Engineer for the Area Engineering department. Since 2006, I have been employed by Xcel Energy as a Principal Engineer in the Distribution Planning department and as team leader of the NSPM planning team. My responsibilities include technically supporting the construction and operation of distribution infrastructure improvements. I am also responsible for forecasting loads for Minneapolis and Edina to develop five-year electric distribution forecasts and for scheduling and coordinating major capacity projects.

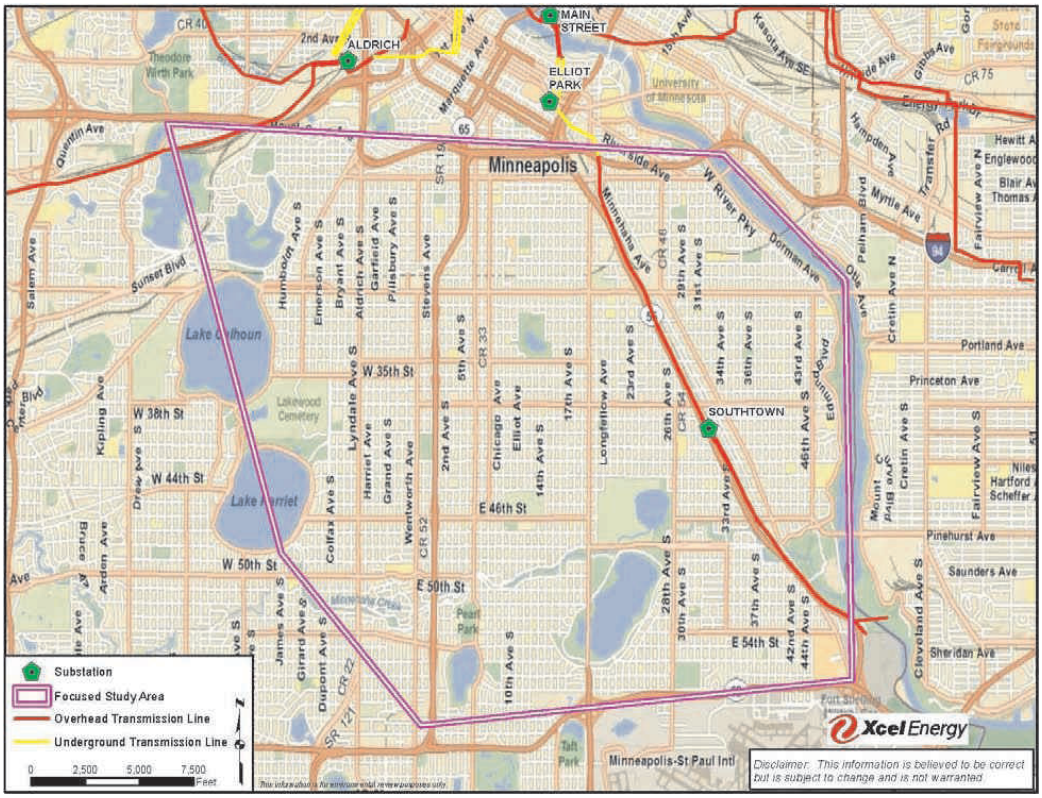
In 2009, I retired from the U.S. Army Reserves as a Colonel. Prior to my retirement, I was deployed in support of Operation Iraqi Freedom from March 2007 to May 2008. During my deployment, I served as the division Chief of Network Operations for the 1st Theater Sustainment Command. My resume is attached as **Schedule 1**.

Q. FOR WHOM ARE YOU TESTIFYING?

A. I am testifying on behalf of Xcel Energy, the applicant for a Certificate of Need in this proceeding.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

A. The purpose of my testimony is to provide updated information regarding peak demand in the Focused Study Area shown below:



Q. WHAT SCHEDULES ARE ATTACHED TO YOUR TESTIMONY?

A. Schedule 1: CV of Scott Zima

Schedule 2: Feeder Circuit Loads, Focused Study Area, 2000-2028

Schedule 3: Greater Study Area-Substation Transformer Loads (including Southtown Substation Transformers), 2000-2028

Q. ARE YOU AVAILABLE TO PROVIDE TESTIMONY IN SUPPORT OF PARTICULAR SECTIONS OF THE CERTIFICATE OF NEED APPLICATION?

A. Yes. I am testifying in support of chapters 3 (electrical system overview), 4 (distribution load serving need analysis) and 5 (other alternatives) and Appendix A (South Minneapolis Electric Distribution Delivery System Long-Term Study).

II. UPDATED LOAD INFORMATION, FOCUSED STUDY AREA

Q. IN THE CERTIFICATE OF NEED APPLICATION, THE COMPANY PROVIDED ACTUAL PEAK LOADING INFORMATION FOR FEEDERS IN THE FOCUSED STUDY AREA AND THE TRANSFORMERS AT THE SOUTH TOWN SUBSTATION THROUGH 2009. WHAT ADDITIONAL DATA IS NOW AVAILABLE?

A. The Company has now compiled actual peak data for 2010 and preliminary peak information for 2011.

Q. PLEASE DESCRIBE THE PEAKS FOR 2010 AND 2011.

A. The feeders in the Focused Study Area reached actual non-coincident peak loading of 323 MW in 2010 and 336 MW in 2011. The three Southtown Substation transformers peaked at 167 MW in 2010 and 179 MW in 2011. For

2011, the 39 feeder peaks in the Focused Study Area and the 3 Southtown Substation transformer peaks generally coincided with the electrical system peaks that occurred on the NSP System over the course of several days on July 18, 19 and 20, 2011. The NSP System is comprised of parts of Minnesota, Wisconsin, North Dakota, South Dakota and Michigan.

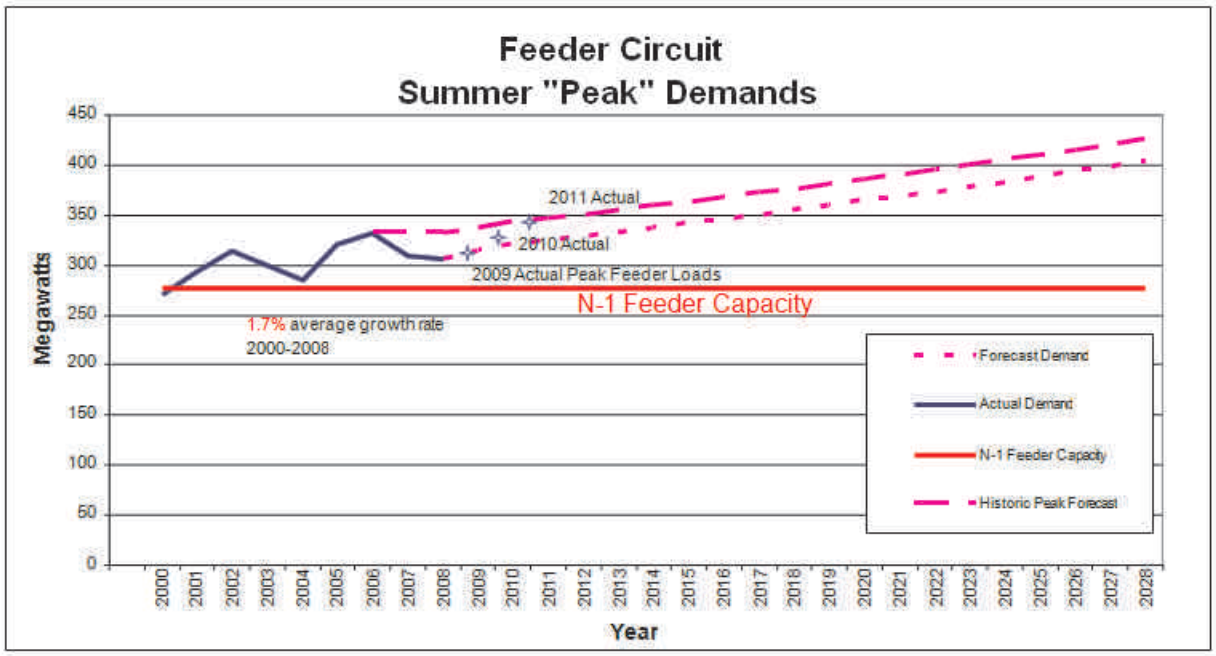
Q. HOW DO THESE PEAKS COMPARE TO HISTORICAL PEAKS EXPERIENCED IN THE FOCUSED STUDY AREA?

A. These peaks are very close to the all time peaks reached in 2006. That year feeder peak loading was 331 MW. For the Southtown Substation transformers, the peak was 183 MW.

Q. IN YOUR 2008 SOUTH MINNEAPOLIS ELECTRIC DISTRIBUTION DELIVERY SYSTEM LONG-TERM STUDY, YOU PROVIDED DEMAND FORECASTS FOR THE FOCUSED STUDY AREA FROM 2009 TO 2028. HOW HAVE THE ACTUAL NUMBERS COMPARE TO YOUR FORECAST FOR FEEDERS?

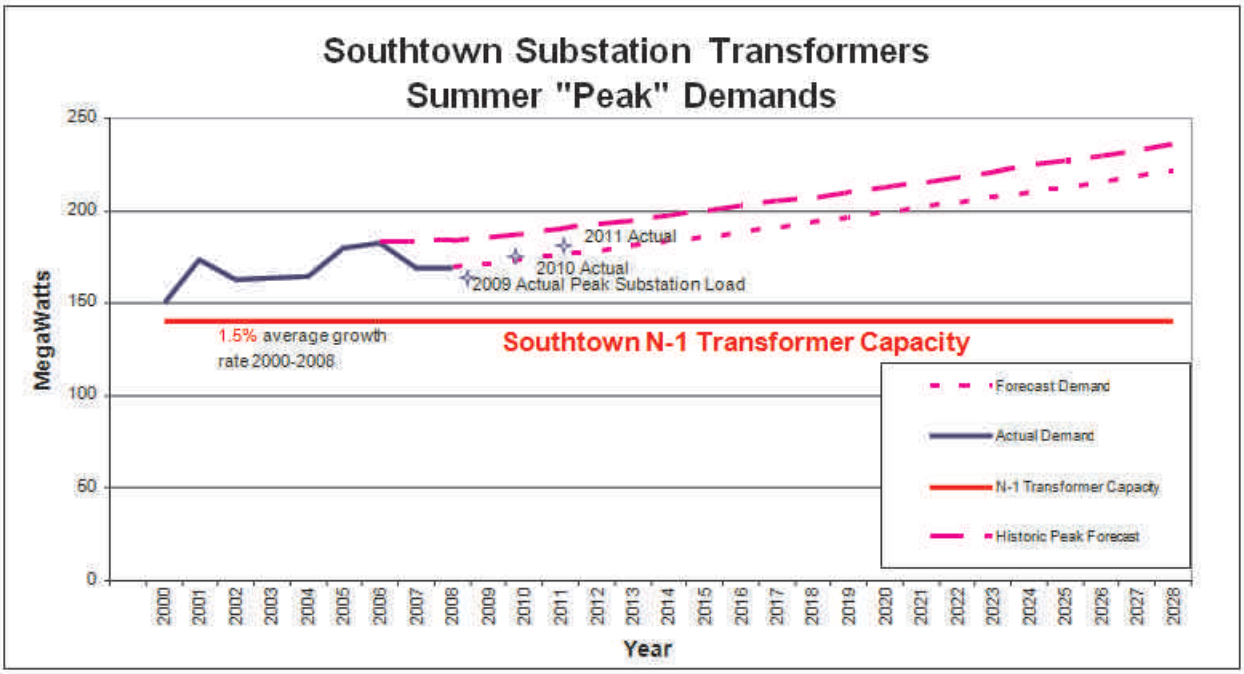
A. The actual loads for 2010 and 2011 have been within the range of loading I forecasted. As part of the study, I identified a 1.7 percent historical peak load growth rate from 2000 to 2008 and then created two future load forecasts from 2009 to 2020 for the Focused Study Area. Both forecasts applied a 1.3 percent annual growth rate which reflects a lower growth rate than the historic growth rate.

I first applied the 1.3 percent rate from the 2006 peak load level of 331 MW. I then applied the same 1.3 percent rate from the 2008 peak of 307 MW to create a more conservative forecast. The actual loads experienced in the years 2008, 2009 and 2010 are within these two forecasts:



Q. WERE ACTUAL TRANSFORMER LOADS AT THE SOUTHTOWN SUBSTATION ALSO WITHIN THE LOADING RANGES YOU FORECAST?

A. Yes. As I did with feeder circuits, in my study I developed two forecasts for Southtown Substation transformers based on the historical growth rate from 2000 to 2008 (1.5 percent adjusted for load transfers). I first applied the 1.3 percent rate from the 2006 peak load level of 183 MW. I then applied the same 1.3 percent conservative forecast from the 2008 peak of 173 MW to create a more conservative forecast. The actual loads for 2009, 2010 and 2011 approximate these two forecasts:



Q. HAVE YOU UPDATED THE EXCEL SPREADSHEETS IN APPENDIX B AND APPENDIX D TO YOUR STUDY TO REFLECT THE LOADING VALUES FOR 2009 THROUGH 2011?

A. Yes. They are attached to my testimony as Schedule 2 (loading on feeder circuits for the Focused Study area) and Schedule 3 (loading on Greater Study Area transformers, including Southtown Substation transformers).

Q. HAVE YOU EVALUATED HOW THE LOAD LEVELS EXPERIENCED IN 2011 AFFECT THE STATED NEED FOR THIS PROJECT?

A. Yes. As stated in our application, the load levels experienced in 2006 exceeded the capability of the distribution system under contingency by 55 MW. Because the peak loading experienced in 2011 was similar to the level experienced in 2006 (5 MW higher in peak feeder loading and within 4 MW of peak transformer loading), the 2011 load levels experienced reaffirm the need for this project based on the level of system deficiency experienced in 2006.

III. CONCLUSION

Q. DOES THIS CONCLUDE YOUR PRE-FILED DIRECT TESTIMONY?

A. Yes.

4291455v1

SCOTT B. ZIMA, P.E.

EXPERIENCE: Xcel Energy, 8701 Monticello Lane, Maple Grove, MN 55369.

Oct 2006 to Mar 2007, May 2008 to Present - ***Principal Engineer,*** *Distribution Capacity Planning, Maple Grove.*

- Distribution Capacity planning to identify risks, develop mitigations, secure funding, and technically support the construction and operation of distribution infrastructure improvements.
- Accurately forecast loads for Minneapolis, and Edina to develop a five-year electric distribution forecast.
- Schedule, coordinate and plan for major capacity projects. Distribution engineering subject matter expert for the $15 million plus south Minneapolis infrastructure project.

Mar 2007 to May 2008 – Colonel, US Army Reserve. Deployed in Support of Operation Iraqi Freedom. Division Chief, Network Operations–1st Theater Sustainment Command.

- Leads, plans, monitors operation and continuity of US Army strategic communication for Full Spectrum Operations across the 27 countries of southwest Asia to the horn of Africa.
- Developed, implemented, and refined processes to ensure effective continuous communication supporting 7500 logistics soldiers responsible to deliver every commodity (food, water, fuel, etc.) required by of force of 160,000 in support of combat operations.
- Developed and evolved knowledge management for the Theater Logistics Headquarters to document, store, and present critical information in support of logistics operations.
- Developed, secured funding, and project managed a $2.5 million project to build the state-of-the-art Logistics Operation Center for 1st Theater Sustainment Command.

Oct 2000 to Jun 2006 ***Principal Engineer,*** *Area Engineering, Minneapolis, Eau Claire.*

- Professional Engineering (PE) review and screen projects of 8 assigned designers to ensure highest value projects proceed and the work meets engineering standards.
- Detail engineering for Minneapolis network; establishing a new network in 2002.
- Reliability engineering for Minneapolis area, which includes about 260,000 customers, 16 substations and 250 plus feeder circuits
- Forecast and manage capital budget expenditures for new business and reconstruction for Minneapolis area totaling about $12 million annually. Approves projects over $25,000.
- Initiated and worked as part of a team to prioritize cable projects across Xcel North.

Dec 1993 to Oct 2000 ***Principal Engineer*****,** *Project Management.*

- Validating plans and screening projects to insure highest value projects proceed.
- Developing and implementing 30 to 40 substation, transmission, and distribution projects with total cost over $25 million annually. As part of the team, met team goal of managing $170 million capital budget to within 5% each year for seven years.
- Refining work management tools for more effective project management.
- Working closely with resource managers, construction supervisors, designers and crews to ensure projects are accomplished in a timely and cost effective manner.
- Developing and Implementing operating budget by function for distribution sustainment with a total cost over $10 million annually since 1999.

Aug 1991 to Nov 1993 ***Manager Distribution Engineering Services.***

- Oversight, Engineering and Planning, for 6 Electric Utility Regions.
- Developing engineering and analysis tools for reliability improvement.

- Teamed to initiate, document, and implement feeder tune-ups.
- Developing next steps for mapping automation based on operating needs.

Aug 1989 to Jul 1991 ***Planning and Engineering Supervisor,*** *Brooklyn Center.*

- Distribution engineering, construction scheduling, planning and capital budget ($8 million).
- Resolved materials problems for faulty, long lead time, and high dollar.
- Supervised regional planner, assistant engineer, and 2 designers for detailed engineering. Worked closely with field supervisors and construction crews.
- Project engineer for distribution automation pilot project to control/monitor field switches (presented to Edison Electric Institute and published in T&D 89-90).

Aug 1987 to Aug 1989 ***Software Project Manager****, Information Technology*

Led a cross functional team of crews, engineers, and management to develop, test, train, document, and implement the load monitoring and work scheduling software (Power Equipment Management). Delivered on time and under budget.

May 1986 to Dec 1988 ***Distribution Engineer****, Distribution Standards & Engineering.*

- Project manager for software systems (Crew Dispatch and Reliability Data capture). Expanded system use from Minneapolis, St Paul to five states. Trained users and wrote User Manual.
- Led cross functional teams to develop policies, implement procedures, provide training and technical consulting to address engineering issues including: new cost effective residential design procedures for underground construction (presented results to the Edison Electric Institute in Oct 1987); computerized mapping system and Neutral to Earth Voltage issues.

Dec 1985 to May 1986 ***Operations Engineering****, St. Paul Electric Service.*

Engineering and the operation of NSP substations and feeders, capacitor controls, voltage problem investigations, and outage restoration.

Apr 1985 to Dec 1985 ***Division Engineering****, Minneapolis Division.*

Led team to consolidate and write the NSP Network Planning and Design Guide. Planning, engineering, and budgeting for feeder load relief. Worked with designers, customer service representatives, and crews for network and area engineering.

United States Army, Commissioned Officer, Multiple locations.
Jun 2009 Army Reserve, Colonel (Retired)
Nov 1979 to Jun 2009 Army Reserve, Colonel

Thirty plus years experience in various command and staff positions including:

Jun 2008 to Jun 2009 – Director of Force Management –88th Regional Readiness Command – Force Management – Leads planning and implementation for actions across 19 mid-west and western states as the Army Reserve transforms from cold war structure to a modular structure in support of the Global War on Terrorism.

Feb 2007 to May 2008 – Division Chief, Network Operations, Command, Control, Communications, Computers, Information –1st Theater Sustainment Command – Leads, plans, monitors operation and continuity of communications, computers, and knowledge management for Full Spectrum Operations across the 27 countries of southwest Asia to the horn of Africa.

Aug 2005 to Feb 2007 – Deputy Director of Force Management –88th Regional Readiness Command – Staff Officer – Force Management – Leads planning and implementation for actions across 6 midwest states affecting 32 Battalions, 242 units total as the Army Reserve transforms from cold war structure to Global War on Terrorism structure.

Jun 2003 to Aug 2005 - Battalion Commander, Combat Engineer Battalion. Full time staff of 33 with 685 soldiers in 5 companies across 6 locations in WI and MI. Responsible for all actions including training, personnel actions, deployments and redeployments. Deployed more than 400 soldiers to Iraq and Afghanistan.

Sep 2001 to Jun 2003 – Brigade Deputy Commander – Staff of 56 with responsibility for 2500+ soldiers, 13 full time staff, in 4 Battalions across the state of Minnesota.

May 2000 to Jun 2001 - Brigade Director of Operations and Plans with a staff of 8 to plan and execute operations and training for a 2500+ member brigade.

May 1998 to May 2000 – Division Chief - Force Integration, 88th Region – Leads staff of 8 responsible for implementing unit stationing actions for 250+ units across 6 states.

Nov 1984 to May 1998 Army Reserve Major and Captain

Jun 1996 to May 1998 – Division Operations and Training Officer, 88th RRC
Feb 1993 to Jun 1996 - Resource Management Officer, US Army Information Sys Cmd
Feb 1990 to Feb 1993 – Theater Tactical Planning Officer, US Army Info Sys Cmd
Nov 1986 to Feb 1990 – Engineering Actions Officer, US Army Info Sys Cmd
Jan 1985 to May 1986 – Battalion Personnel and Admin Officer, 124th Signal Battalion

Active Duty, United States Army, Commissioned Officer

Jun 1983 to Nov 1984 ***Battalion Maintenance Officer (Captain),*** *Signal Battalion*.

Led battalion and four company maintenance operations of 6 officers and 89 repairmen. Maintained mobile communication equipment (570 vehicles and power generation equipment) with an annual material budget of $520,000. Initiated operator training and equipment scheduled services to improve readiness. Negotiated changes to work practices which helped eliminate maintenance backlogs and improved quality assurance. Improved readiness from 70% to 90%.

Aug 1982 to Jun 1983 Company *Executive Officer/Platoon Leader (First Lieutenant)**, Signal Company*

- Led company repair operations of 18 repairmen. Maintained mobile communication equipment (210 vehicles and power generation equipment) with an annual material budget of $120,000. Initiated procedures to solve short range problems while correcting long term systemic problems.
- Led platoon of 85 soldiers and noncommissioned officers. Provided mobile field communications to the Division Commander and his primary staff. Negotiated process changes which improved field communications for division headquarters and cut installation time in half.

Jan 1980 to Aug 1982 ***Communication Officer/Platoon Leader****, Armor Battalion.*
Led 25 soldiers and noncommissioned officers. Communication expert to the Armor Battalion Commander. Implemented preventive maintenance procedures. Planned, engineered and executed effective communications during an extended desert exercise at the national training center.

EDUCATION: BSEE, May 1979, Iowa State University,

CERTIFICATIONS: Licensed Professional Engineer, State of Minnesota

TRAINING:

- Engineer Project Management budgeting and accounting.
- Command and General Staff Officer Course (Senior Leadership and Staff Effectiveness).
- Combined Arms Services Staff School, Effective Communication (Speaking/Writing) and Problem Solving.
- Engineer and Communications Officer Basic and Advanced Leadership Training as a US Army Officer.

South Minneapolis STUDY

Feeder Circuit Load (kVA) History and Forecast

Appendix B, Table 1

Historical Peak Loads | Forecast Peak Loads

Feeder	00 Cap	04 Cap	2008 Capacity	2000 Peak	2001 Peak	2002 Peak	2003 Peak	2004 Peak	2005 Peak	2006 Peak	2007 Peak	2008 Peak	2009 Peak	2009 Fcst	2010 Actuals	2010	2011 Actuals (prelim)	2011	2012	2013	2018	2023	2028	% Growth	
ALD071	7600	7600	7600	10135	10100	10800	9900	8100	8330	8550	8560	6191	7920	7284	6859	7393	7712	7504	7617	7731	8328	8971	9664	1.077222	
ALD072	7600	7600	7600	9514	9600	10900	9600	10700	10910	7930	7730	7770	7760	8048	9220	8128	9312	8209	8292	8374	9246	10209	11272	1.104132	
ALD073	7600	7600	7600	8697	9600	12900	12600	10100	5490	6050	5660	5690	6720	5947	7980	6006	8060	6066	6127	6188	6504	6836	7185	1.051067	
ALD074	7600	7600	7600	7513	1950	2000	2600	6700	7730	6710	5950	5720	6320	6527	6470	6592	7085	6658	6725	6792	7139	7504	7887	1.05109	
ALD081	7800	7800	7800	8412	5300	6700	8300	6700	6960	10940	10220	10630	10030	10736	9870	10844	10469	10952	11062	11172	11742	12341	12971	1.05102	
ALD083	9600	9600	9600	7799	6700	9500	3700	4800	4970	5280	5180	4980	4950	5230	4210	5282	4252	5335	5388	5442	5720	6012	6319	1.051084	
ALD085	9894	9894	9894	9800	9800	11000	10200	6100	6100	9070	8380	7770	8380	8148	8320	8229	9153	8311	8395	8479	8911	9365	9842	1.050949	1.3
ALD088	10100	10100	10100	5798	4600	4600	9200	5100	7700	6140	6190	6050	5690	6110	4920	6172	5719	6233	6296	6359	6683	7024	7381	1.050951	1.1
ALD091	7700	7700	7700	8493	6700	6700	8800	9300	9450	9120	8520	7490	7750	7565	7650	7641	9727	7717	7794	7872	8442	9053	9709	1.072409	1.5
ALD092	10100	10100	10100	8657	9000	9000	9200	12500	12930	10480	10370	12480	10290	13105	10000	13236	10400	13368	13502	13637	14333	15065	15833	1.051038	1.3
ALD093	7700	7700	7700	6942	7800	9000	1200	2000	2490	5510	3950	8220	8420	8302	6100	8385	6161	8469	8554	8639	9080	9544	10031	1.051048	1.1
ALD095	10690	10690	10690	12413	14000	15900	14000	13100	14420	9940	11800	9285	9070	9424	8180	9566	8703	9709	9855	10003	10663	11367	12117	1.06598	1.5
ELP071	7700	7700	7700	9800	10500	11500	10200	7100	6960	10320	9430	8733	8760	8818	8490	8906	8575	8996	9085	9176	9644	10136	10653	1.051003	1.1
ELP081		10197	10197	0	0	0	0	7600	11700	8860	8360	7620	8180	7696	9310	7773	9403	7851	7929	8009	8417	8846	9296	1.050943	1.1
ELP084		10575	10575	0	0	0	3000	6500	7200	6620	7180	7070	7440	7176	8530	7284	8658	7393	7504	7616	8282	9006	9794	1.087447	1.9
MST074	10600	10600	10600	8167	10800	8000	8000	9400	10190	10574	9670	9117	10996	9208	8171	9300	9003	9393	9487	9582	10071	10585	11125	1.051033	1.1
SOU060	10200	10200	10200	5880	6600	6900	7500	8200	6220	6807	6220	4890	5331	4939	6836	4988	6904	5038	5089	5139	5402	5678	5969	1.051177	1.1
SOU061		14300	14300	1225	3200	0	5100	5100	11930	13109	11497	8950	12905	8995	7101	9040	7137	9085	9130	9176	9408	9646	9890	1.025283	0.5
SOU063	12500	12500	12500	8412	8800	10700	12500	9600	12630	10050	8463	10167	10200	10269	9742	10371	10239	10475	10580	10686	11231	11804	12406	1.051001	1.1
SOU064	13900	13900	13900	10628	12600	16900	16900	14000	12430	13990	8870	8521	8404	7189	8695	7333	8872	7483	7633	7782	8592	9486	10474	1.104086	1.1
SOU065	9600	9600	9600	4982	6800	9500	6100	6100	6710	7059	6205	6341	7320	6404	6176	6468	6738	6533	6598	6664	7004	7361	7737	1.05102	1.1
SOU066	9400	9400	9400	2695	5000	7700	5100	5100	5700	6933	5040	6394	7292	7322	6020	7468	6940	7618	7770	7925	8750	9661	10667	1.104101	3.3
SOU068	10000	10000	10000	8657	10300	10700	10400	10800	9450	9642	9691	9584	8972	9680	9931	9777	10033	9874	9973	10073	10587	11127	11695	1.051027	1.1
SOU069	13900	13900	13900	8085	8500	8500	7000	4600	5970	5146	4544	3981	6830	4319	3962	4363	4002	4406	4450	4495	4724	4965	5218	1.050945	1.6
SOU072	10200	10200	10200	8085	8100	8100	10500	10300	7460	7240	8090	8001	7525	8081	9895	8162	9994	8243	8326	8409	8838	9289	9763	1.051017	1.1
SOU073	11400	11400	11400	7187	7600	7700	7500	7500	12430	12500	11882	12196	10876	12436	11779	12686	12419	12945	13204	13463	14857	16395	18093	1.103543	2.4
SOU075	9300	9300	9300	10372	10800	12500	13000	10900	8500	9231	9156	9011	8710	9591	10332	9783	10539	9979	10178	10382	11462	12654	13971	1.104026	2.8
SOU076	8600	8600	8600	8657	11100	12200	10500	7400	8450	10196	8603	7778	5564	8334	9623	8500	9815	8670	8844	9021	9959	10995	12138	1.10398	2.8
SOU077	13600	13600	13600	7758	8700	9200	9200	11400	10940	10837	10429	10914	9458	11023	11623	11133	11739	11245	11357	11471	12056	12671	13317	1.050998	1.1
SOU078			13900	2450	3700	0	0	0	4970	5205	5620	5884	6156	6002	7050	6122	7191	6244	6369	6496	7173	7921	8746	1.104218	2.4
SOU079			13500	2450	5100	1300	0	0	7460	7778	7793	7152	6482	7674	7603	7750	7697	7828	7906	7985	8392	8820	9269	1.050971	1.5
SOU081	8600	8600	8600	9188	10000	10700	11200	6800	6710	7933	7186	7860	8710	8017	9963	8178	10162	8341	8508	8678	9581	10578	11679	1.104056	2.4
SOU082	8000	8000	8000	11678	11800	12900	10200	10200	6710	5554	5487	5690	7545	5804	10118	5920	10320	6038	6159	6282	6936	7658	8455	1.104107	2.4
SOU083	14000	14000	14000	6043	6200	6700	7600	8800	12780	14662	12186	12779	12060	12907	13089	13036	13220	13166	13298	13431	14116	14836	15593	1.051001	1.1
SOU084	12500	12500	12500	8330	9900	9500	10000	7700	8950	8205	7822	7472	7676	7547	8040	7622	8120	7698	7775	7853	8254	8675	9118	1.051063	1.1
SOU085	13900	13900	13900	8032	9100	9000	9400	6200	7060	7110	7584	8545	8710	8630	8798	8717	8886	8804	8892	8981	9439	9920	10426	1.050997	1.1
SOU086	12500	12500	12500	5553	11500	11500	7500	7300	9940	10662	10766	12104	12090	12225	13360	12347	13494	12471	12595	12721	13370	14052	14769	1.051018	1.1
SOU087	9200	9200	9200	7105	7600	9500	8300	8100	9450	9341	9176	8040	5700	8201	8283	8365	8449	8532	8703	8877	9801	10821	11948	1.104089	2.4
SOU088			13900	0	0	0	0	0	0	6510	6220	5928	6510	5987	7274	6047	7347	6108	6169	6230	6419	6614	6814	1.030337	0.7
Capacity	333584	368656	409956	275592	299450	320200	306000	291900	326380	337794	315680	312998	319702	320900	329573		342649								39
# Fdrs	33	36	39	33	36	34	35	36	38	39	39	39	39	39	39		39								

Feeder	00 Cap	04 Cap	2008 Capacity	2000	2001	2002	2003	2004 peak	2005 Peak	2006 Peak	2007 Peak	2008 Peak	2009 Peak	2009 Fcst	2010 Actuals	2010	2011 Actuals (prelim)	2011	2012	2013	2018	A	2028		
																									1.6
kVA	333584	368656	409956	275592	299450	320200	306000	291900	326380	337794	315680	312998	319702	320900	329573	326923	342649	330999	335130	339304	361574	383490	411260		312998
kW	326912	361283	401757	270080	293461	313796	299880	286062	319852	331038	309366	306738	313308	314482	322982	320385	335796	324379	328427	332518	354343	375820	403035		306738
kVA/ Feeder		39		8351	8318	9418	8743	8108	8589	8661	8094	8026	8197	8228	8451	8383	8786	8487	8593	8700	9271	9833	10545		308538
		8yr % Growth										1.7%	0.8%	2.5%	3.1%	1.9%	4.0%	1.2%	1.2%	1.2%	1.3%	1.2%	1.4%		Totals
		annual % Growth										24300													
	DAA kVA Annual Growth			-14708	23858	20750	-14200	-14100	34480	11414	-22114	-2682	6704	7941		5984		4076	4131	4174	22270	23939	25748		
	DAA % Annual Growth Rate			-4.0%	6.4%	5.6%	-4.1%	-4.0%	9.4%	2.9%	-5.4%	-0.7%	1.6%	1.9%		1.9%		1.2%	1.2%	1.2%	1.2%	1.2%	1.2%		
	DAA % Utilization			83%	80%	93%	86%	79%	83%	83%	77%	76%	78%	78%		80%		81%	82%	83%	88%	94%	100%		
DAA	kVA Over 75%			-3926	19933	61833	39101	17354	31284	32273	8213	5531	12235	13472		19456		23532	27663	31837	54107	78046	103793		
kW				-3847	19534	60596	38319	17006	30658	31627	8049	5420	11990	13203		19067		23061	27110	31200	53025	76485	101718		
	Demand for 1/2% Annual Growth Rate											312998	319702	314563		316136		317716	319305	320902	329005	337313	345830		

South Minneapolis STUDY

	1/2% Growth Rate % Utilization								76%	78%	77%		77%		78%	78%	78%	80%	82%	84%		
Peak	Difference (in kVA) from DAA to 1/2%								0	0	6376		10787		13283	15825	18402	32569	48200	65430		

Greater Area - Substation Transformer Load History, Forecast

	# of feeders	Nameplate	Normal	2000 Peak	2001 Peak	2002 Peak	2003 Peak	2004 peak	2005 Peak	2006 Peak	2007 Peak	2008 Peak	2009 Peak	2009 Fcst	2010 Actuals	2010	2011 Actuals (prelim)	2011	2012	2013	2018	2023	2028	
SOUTR1			71709	44100	59600	59100	65800	63000	64000	66260	56100	54400	60830	54683		55323		55974	56632	57295	60770	64456	68365	1.060651
SOUTR2			74099	49000	53900	48000	46300	55000	57500	55490	54714	55270	49460	56195		57081		57987	58904	59832	64737	70044	75786	1.08198
SOUTR3			68327	60400	63700	59000	55000	50000	62146	62970	61910	62850	56800	63773		64613		65466	66331	67209	71683	76455	81544	1.066568
ALDTR2	5	70000	71709	32200	32000	38000	36700	38200	34603	28970	29690	27730	30400	30192		30576		30965	31360	31760	34256	36948	39852	1.078589
ALDTR3	8	70000	71709	55600	55500	50400	51000	40300	43000	47260	52960	49220	50570	52218		52736		53264	54180	54731	57500	60409	63465	1.050593
ALDTR4	8	70000	71709	66400	71300	50300	46300	57000	58268	56870	55430	62880	60260	62217		64739		65479	66213	66956	70799	74863	79159	1.057396
ELPTR1	6	47000	51054	31900	34300	34300	30200	34000	37785	33730	34420	38140	35910	34951		35396		35845	36302	36766	39186	41765	44514	1.065822
ELPTR2	6	47000	51870	30600	32700	31400	29000	32900	33000	32520	36210	37910	36660	34307		34649		34995	35345	35699	37520	39434	41445	1.05101
ELPTR3	7	47000	51054	29800	32100	28000	26000	33000	42632	47180	37031	42910	42910	41372		43655		44282	44920	45568	49030	52755	56763	1.075974
SOUTR1	8	70000	71709	44100	59600	59100	65800	63000	64000	66880	56100	54400	60830	54683	57720	55323	55388	55974	56632	57295	60770	64456	68365	1.060651
SOUTR2	7	70000	74099	49000	53900	48000	46300	55000	57500	56600	54714	55270	49460	56195	51570	57081	61745	57987	58904	59832	64737	70044	75786	1.08198
SOUTR3	8	62500	68327	60400	63700	59000	55000	50000	62146	63230	61910	62850	56800	63773	61620	64613	65598	65466	66331	67209	71683	76455	81544	1.066568
SLPTR4	7	70000	76527	51400	44000	49000	53000	54800	62146	57430	53340	53840	52720	56759		57768		58808	59872	60951	66629	72836	79621	1.093157
SLPTR5	7	70000	71709	52300	54700	48700	53500	56300	54000	45940	53360	51790	51480	54009		55013		56036	57079	58142	63773	69949	76724	1.096849
SLPTR6	7	70000	71709	45700	57200	43900	46500	46600	49717	49710	41030	39420	36560	40818		41578		42349	43138	43939	48177	52824	57919	1.096452
WILTR1	1	42000	42183	37600	42500	38100	40200	34800	42350	0	0	0	0	0										
WILTR2	1	42000	42183	24000	27000	22600	29700	42000	31270	0	0	0	0	0										
WILTR3	9	70000	71709	63000	68600	65800	65100	67000	75440	74810	63260	65450	56600	68576		69633		70707	71799	72909	78741	85040	91842	1.07999
WILTR4	9	70000	76527	49000	57200	51300	52500	54700	55540	68190	69636	70690	61750	71900		73044		74208	75394	76602	82987	89904	97398	1.083353
WILTR5	8	70000	76527					0	0	62070	57214	56052	57080	55015		55687		56368	57057	57756	61394	65261	69372	1.062989
Big Box Total			1112314	723000	786300	717900	726800	759600	803397	791390	756305	768552	739990	776985		791491		802733	814526	826115	887182	952943	1023771	
1/2% Growth											795347	799324	803320	803320		807337		811374	815430	819508	840201	861417	883169	
ALD	21	210000	215127	154200	158800	138700	134000	135500	135871	133100	138080	139830	141230	144627		148051		149708	151753	153447	162555	172220	182477	
ELP	19	141000	153978	92300	99100	93700	85200	99900	113417	113430	107661	118960	115480	110630		113700		115122	116567	118033	125736	133954	142723	
SOU	23	202500	214135	153500	177200	166100	167100	168000	183646	186710	172724	172520	167090	174651	170910	177017	182731	179427	181867	184336	197190	210955	225696	
SLP	21	210000	219945	149400	155900	141600	153000	157700	165863	153080	147730	145050	140760	151586		154359		157193	160089	163032	178579	195609	214264	
WIL	26	210000	224763	173600	195300	177800	187500	198500	204600	205070	190110	192192	175430	195491		198364		201283	204250	207267	223122	240205	258612	
Big Total	110	973500	1027948	723000	786300	717900	726800	759600	803397	791390	756305	768552	739990	776985		791491		802733	814526	826115	887182	952943	1023771	
SOU Tota	23	210000	214135	153500	177200	166100	167100	168000	183646	186710	172724	172520	167090	174651	170910	177017	182731	179427	181867	184336	197190	210955	225696	
Big kW		954030	1007389	708540	770574	703542	712264	744408	787329	775562	741179	753181	725190	761445		775661		786678	798235	809593	869438	933884	1003295	
SOU kW		205800	209852	150430	173656	162778	163758	164640	179973	182976	169270	169070	163748	171158	167492	173477	179076	175838	178230	180649	193246	206736	221182	
% Utilization-big box				70%	76%	70%	71%	74%	78%	77%	74%	75%	72%	76%		77%		78%	79%	80%	86%	93%	100%	
No 35kV																								
1/2% SOU Growth														173383		174250		175121	175996	176876	181343	185922	190617	
1/2% Big Box Growth														772395		776257		780138	784039	787959	807856	828255	849170	
1/2%SOU kW														169915		170765		171618	172476	173339	177716	182203	186804	
1/2%Big kW														756947		760732		764535	768358	772200	791699	811690	832186	
% Utilization-big box 1/2 % growth				70%	76%	70%	71%	74%	78%	77%	74%	75%	72%	75%		76%		76%	76%	77%	79%	81%	83%	

IN THE MATTER OF THE APPLICATION OF NORTHERN STATES POWER COMPANY, A MINNESOTA CORPORATION, FOR A CERTIFICATE OF NEED FOR TWO HIGH VOLTAGE 115Kv TRANSMISSION LINES IN THE MIDTOWN AREA OF SOUTH MINNEAPOLIS, HENNEPIN COUNTY

MPUC DOCKET NO. E002/CN-10-694

CERTIFICATE OF SERVICE

Jill N. Yeaman certifies that on the 30th day of September, 2011, she filed a true and correct copy of Northern States Power Company's Direct Testimonies and Schedules of Paul J. Lehman, Pamela J. Rasmussen and Scott Zima, filed today via eDocket (www.edockets.state.mn.us). Said document(s) were also served via U.S. Mail and emailed as designated on the Official Service List on file with the Minnesota Public Utilities Commission and as attached hereto.

/s/ Jill N. Yeaman

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Service List Member Information

Electronic Service Member(s)

Last Name	First Name	Email	Company Name	Delivery Method	View Trade Secret
Agrimonti	Lisa	lagrimonti@briggs.com	Briggs And Morgan, P.A.	Electronic Service	No
Anderson	Julia	Julia.Anderson@ag.state.mn.us	Office of the Attorney General-DOC	Electronic Service	No
Benson	Douglas	douglas.benson@state.mn.us	Department of Health	Electronic Service	No
Conover	Corey	corey.conover@ci.minneapolis.mn.us	City Of Minneapolis	Electronic Service	No
DeBleeckere	Patricia	tricia.debleeckere@state.mn.us	Public Utilities Commission	Electronic Service	Yes
Doneen	Randall	randall.doneen@dnr.state.mn.us	Department of Natural Resources	Electronic Service	No
Elwood	Ron	relwood@mnlsap.org	Legal Services Advocacy Project	Electronic Service	No
Ferguson	Sharon	sharon.ferguson@state.mn.us	Department of Commerce	Electronic Service	No
Freeman	Jeff	Jeff.Freeman@state.mn.us	DEED	Electronic Service	No
Germundson	Travis	travis.germundson@state.mn.us	N/A	Electronic Service	No
Gunn	Bradley	bjg@mgmllp.com	Malkerson Gunn Martin LLP	Electronic Service	No
Gustafson	Eric	eric@corcoranneighborhood.org	Corcoran Neighborhood Organization	Electronic Service	No
Haar	Burl W.	burl.haar@state.mn.us	Public Utilities Commission	Electronic Service	No
Hammel	Karen Finstad	Karen.Hammel@ag.state.mn.us	Office of the Attorney General-DOC	Electronic Service	Yes
Hart	Eric	hart3151@tcq.net	Longfellow Community Council	Electronic Service	No
Hayashida	Leslie	Leslie.M.Hayashida@wellsfargo.com	Wells Fargo & Company	Electronic Service	No
Herring	Valerie	vherring@briggs.com	Briggs and Morgan, P.A.	Electronic Service	No
Heydinger	Beverly	beverly.heydinger@state.mn.us	Office of Administrative Hearings	Electronic Service	Yes
Heyer	Shirley	shirleymidtownphillips@msn.com	Midtown Phillips Neighborhood Association, Inc.	Electronic Service	No
Jenkins	Alan	aj@jenkinsatlaw.com	Jenkins at Law	Electronic Service	No
Koeller	Mara	mara.n.koeller@xcelenergy.com	Xcel Energy	Electronic Service	No
Kromar	Karen	karen.kromar@state.mn.us	MN Pollution Control Agency	Electronic Service	No
Larson	Douglas	dlarson@dakotaelectric.com	Dakota Electric Association	Electronic Service	No
Lindell	John	agorud.ecf@state.mn.us	Office of the Attorney General-RUD	Electronic Service	No
Mains	Sheldon	smains@visi.com	Seward Neighborhood Group, Incorporated	Electronic Service	No
Pass	Carol	cpass@runbox.com	East Phillips Improvement Coalition	Electronic Service	No
Patton	Bob	bob.patton@state.mn.us	MN Department of Agriculture	Electronic Service	No
Ross	Jennie	jennie.ross@state.mn.us	N/A	Electronic Service	No
Roston	Howard	har@mgmllp.com	Malkerson Gunn Martin LLP	Electronic Service	No
Salter	Charles	chuck.salter@co.hennepin.mn.us	Hennepin County Attorneys Office	Electronic Service	No
Sautter	Gregory	gregory.sautter@ci.minneapolis.mn.us	City of Minneapolis	Electronic Service	No
Shaddix Elling	Janet	jshaddix@janetshaddix.com	Shaddix And Associates	Electronic Service	Yes
Springer	Tim	tim@midtowngreenway.org	Midtown Greenway Coalition	Electronic Service	No
Storm	William	bill.storm@state.mn.us	Department of Commerce	Electronic Service	Yes
Thompson	SaGonna	Regulatory.Records@xcelenergy.com	Xcel Energy	Electronic Service	No
Thulien Smith	Jennifer	jennifer.thuliensmith@xcelenergy.com	Xcel Energy Services, Inc.	Electronic Service	No
Watkins	Rhyddid	rwatkins@faegre.com	Faegre & Benson	Electronic Service	No

Paper Service Member(s)

Last Name	First Name	Company Name	Address	Delivery Method	View Trade Secret
Bertrand	James J.	Leonard Street & Deinard	Suite 2300, 150 South Fifth Street, Minneapolis, MN-55402	Paper Service	No
Bosacker	Steven	City of Minneapolis	City Hall, Room 301M, 350 South Fifth Street, Minneapolis, MN-554151376	Paper Service	No
Clark	Christopher	Xcel Energy	5th Floor, 414 Nicollet Mall, Minneapolis, MN-554011993	Paper Service	No
Daugherty	Jeffrey A.	CenterPoint Energy	800 LaSalle Ave, Minneapolis, MN-55402	Paper Service	No
Ellis	Lori	Little Earth of United Tribes	2495 18th Avenue S, Minneapolis, MN-55404	Paper Service	No
Lee	Robert S	Mackall Crounse & Moore Law Offices	1400 AT&T Tower, 901 Marquette Ave, Minneapolis, MN-554022859	Paper Service	No

Lehman	Paul J.	Xcel Energy	414 Nicollect Mall, Minneapolis, MN-554011993	Paper Service	No
Maccabee	Paula	Just Change Law Offices	1961 Selby Avenue, St. Paul, MN-55104	Paper Service	No
Marshall	Pam	Energy CENTS Coalition	823 7th St E, St. Paul, MN-55106	Paper Service	No
Niles	David W.	Avant Energy Services	Suite 300, 200 South Sixth Street, Minneapolis, MN-55402	Paper Service	No
Overland	Carol A.	Legalectric - Overland Law Office	1110 West Avenue, Red Wing, MN-55066	Paper Service	No
Savelkoul	Richard	Felhaber, Larson, Fenlon & Vogt, P.A.	444 Cedar St Ste 2100, St. Paul, MN-55101-2136	Paper Service	No
Schmiesing	Elizabeth H.	Faegre & Benson LLP	2200 Wells Fargo Center, 90 S. Seventh Street, Minneapolis, MN-55402	Paper Service	No
Starns	Byron E.	Leonard Street and Deinard	150 South 5th Street, Suite 2300, Minneapolis, MN-55402	Paper Service	No
Strommen	James M.	Kennedy & Graven, Chartered	470 U.S. Bank Plaza, 200 South Sixth Street, Minneapolis, MN-55402	Paper Service	No
Veith	Lisa	City of St. Paul	400 City Hall and Courthouse, 15 West Kellogg Blvd., St. Paul, MN-55102	Paper Service	No

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