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PO Box 496
Fergus Falls, Minnesota 56538-0496
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JUL 27 2010

PUBLIC SERVICE COMMISSION



July 23, 2010

Mr. Alex Hofschulte
Office of Energy Security
85 7th Place East, Suite 500
St. Paul, MN 55101-2198

**PUBLIC DOCUMENT -
TRADE SECRET DATA HAS BEEN EXCISED**

**RE: Nature of Docket: Resource Plan
Docket No. E-017/RP-10-623**

Dear Mr. Hofschulte:

Attached to this electronic response please find Otter Tail Power Company's response to the Minnesota Office of Energy Security's information request number 6 in the above-referenced docket.

The attachments to IR No. 6 are marked as TRADE SECRET and are not for public disclosure, according to Minn. Stat. Sec. 13-37, subd. 1(b). This statute protects certain "government data," as that term is defined at Minn. Stat. Sec. 13.02, subd. 7, from being disclosed by an administrative agency to the public. The agreement is considered to be a compilation of data that (1) was supplied by Otter Tail, (2) is the subject of reasonable efforts by Otter Tail to maintain its secrecy, and (3) derives independent economic value, actual or potential, from not being generally known to or accessible by the public. A PUBLIC version of the attachments is included.

The following attachments are too large to e-file or email:

Attachment B10 and B11 NONPUBLIC
Attachment B30 to B33 NONPUBLIC
Attachment B40 to B44 NONPUBLIC

Pursuant to a conversation with Karen Santori of the Public Utilities Commission, these attachments have been e-filed and emailed as PDF files. The Excel version is being sent by overnight mail.

Mr. Alex Hofschulte
July 23, 2010
Page 2

If you have any questions, regarding these responses, please contact me at 218 739-8417 or bhdraxten@otpc.com.

Yours very truly,

/s/ BRIAN DRAXTEN
Brian Draxten
Manager Resource Planning

wao
Attachments
By electronic filing, email and overnight mail
c: Adam J. Heinen
Hwikwon Ham
Steve Rakow
Chris Davis
Service List

CERTIFICATE OF SERVICE

**RE: Resource Plan
Docket No. E017/RP-10-623**

I, Wendi A. Olson, hereby certify that I have this day served a copy of the following, or a summary thereof, on Dr. Burl W. Haar, and Sharon Ferguson by e-filing and to Alexius M. Hofschulte and all other persons on the attached service list by electronic service or by First Class mail.

**Otter Tail Power Company
Response to Office of Energy Security Information Request Number 6**

Dated this 23rd day of July, 2010.

/s/ WENDI A. OLSON
Wendi A. Olson, Regulatory Assistant
Otter Tail Power Company
215 South Cascade Street
Fergus Falls MN 56537
(218) 739-8699

Docket No. E017/RP-10-623
Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Christopher	Anderson	canderson@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022191	Electronic Service	No	OFF_SL_10-623_RP-10-623
Julia	Anderson	Julia.Anderson@state.mn.us	Office of the Attorney General-DOC	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	No	OFF_SL_10-623_RP-10-623
Peter	Beithon	pbeithon@otpc.com	Otter Tail Power Company	P.O. Box 496 215 South Cascade Street Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_10-623_RP-10-623
Michael	Bradley	bradley@moss-barnett.com	Moss & Barnett	4800 Wells Fargo Ctr 90 S 7th St Minneapolis, MN 554021425	Paper Service	No	OFF_SL_10-623_RP-10-623
Christina	Brusven	cbrusven@fredlaw.com	Fredrikson & Byron, P.A.	200 S 6th St Ste 4000 Minneapolis, MN 554021425	Electronic Service	No	OFF_SL_10-623_RP-10-623
Tammie	Carino	tcarino@GREnergy.com	Great River Energy	12300 Elm Creek Blvd. Maple Grove, MN 55369-4718	Paper Service	No	OFF_SL_10-623_RP-10-623
Gary	Chesnut	gchesnut@agp.com	AG Processing Inc. a cooperative	12700 West Dodge Road PO Box 2047 Omaha, NE 681032047	Paper Service	No	OFF_SL_10-623_RP-10-623
Brian	Draxten		Otter Tail Power Company	P.O. Box 496 215 South Cascade Street Fergus Falls, MN 565380498	Paper Service	No	OFF_SL_10-623_RP-10-623
Paul	Eger	N/A	MN Department of Administration	520 Lafayette Rd St. Paul, MN 55155-4194	Paper Service	No	OFF_SL_10-623_RP-10-623
James C.	Erickson	jericksonkbc@gmail.com	Kelly Bay Consulting	17 Quechee St Superior, WI 54880-4421	Paper Service	No	OFF_SL_10-623_RP-10-623
Sharon	Ferguson	sharon.ferguson@state.mn.us	Department of Commerce	85 7th Place E Ste 500 Saint Paul, MN 551012198	Electronic Service	No	OFF_SL_10-623_RP-10-623

Docket No. E017/RP-10-623
Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Edward	Garvey	garveyed@aol.com		32 Lawton Street St. Paul, MN 55102	Paper Service	No	OFF_SL_10-623_RP-10-623
Sherry	Gaugler	sherry.jcplaw@comcast.net	Jeffrey C. Paulson & Associates, Ltd.	Suite 325 7301 Ohms Lane Edina, MN 55439	Electronic Service	No	OFF_SL_10-623_RP-10-623
Bruce	Gerhardson	bgerhardson@otpc.com	Otter Tail Corporation	PO Box 496 215 S Cascade St Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_10-623_RP-10-623
Elizabeth	Goodpaster	bgoodpaster@mncenter.org	MN Center for Environmental Advocacy	Suite 206 26 East Exchange Street St. Paul, MN 551011667	Paper Service	No	OFF_SL_10-623_RP-10-623
Burt W.	Haar	burl.haar@state.mn.us	Public Utilities Commission	Suite 350 121 7th Place East St. Paul, MN 551012147	Electronic Service	No	OFF_SL_10-623_RP-10-623
William	Harrington	williamh@excelsiorenergy.com	Excelsior Energy Inc.	Suite 200 10900 Wayzata Boulevard Minnetonka, MN 55305	Electronic Service	No	OFF_SL_10-623_RP-10-623
Shane	Hemiksen	shane.hemiksen@enbridge.com	Enbridge Energy Company, Inc.	1409 Hammond Ave FL 2 Superior, WI 54880	Electronic Service	No	OFF_SL_10-623_RP-10-623
Mark	Holsten	mark.holsten@dnr.state.mn.us	Department of Natural Resources	500 Lafayette Road St. Paul, MN 55155	Electronic Service	No	OFF_SL_10-623_RP-10-623
Gene	Hugoson		MN Department of Agriculture	625 North Robert Street St. Paul, MN 55152538	Paper Service	No	OFF_SL_10-623_RP-10-623
Randy	Kramer		Water and Soil Resources Board	1501 Second Avenue South Wheaton, MN 56296	Paper Service	No	OFF_SL_10-623_RP-10-623

Docket No. E017/RP-10-623
Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
James D.	Larson		Avant Energy Services	200 S 6th St Ste 300 Minneapolis, MN 55402	Paper Service	No	OFF_SL_10-623_RP-10-623
Douglas	Larson	dlarson@dakotaelectric.com	Dakota Electric Association	4300 220th St W Farmington, MN 55024	Paper Service	No	OFF_SL_10-623_RP-10-623
Robert S	Lee	RSL@MCMLAW.COM	Mackall, Crounse & Moore Law Offices	1400 AT&T Tower 901 Marquette Ave Minneapolis, MN 554022859	Paper Service	No	OFF_SL_10-623_RP-10-623
John	Lindell	agonud.ecf@state.mn.us	Office of the Attorney General-RUD	900 BRM Tower 445 Minnesota St St. Paul, MN 551012130	Electronic Service	No	OFF_SL_10-623_RP-10-623
Sanne	Magnan		Minnesota Department of Health	P.O. Box 64975 St. Paul, MN 55164-0975	Paper Service	No	OFF_SL_10-623_RP-10-623
Kavita	Mairi	kmairi@wi.rr.com	KM Energy Consulting LLC	961 N Lost Woods Rd Oconomowoc, WI 53066	Paper Service	No	OFF_SL_10-623_RP-10-623
Dan	McElroy	N/A	Department of Employment and Economic Development	500 Metro Square Bldg 121 E Seventh Pl, St. Paul, MN 55101	Paper Service	No	OFF_SL_10-623_RP-10-623
Andrew	Moratzka	apm@mcmlaw.com	Mackall, Crounse and Moore	1400 AT&T Tower 901 Marquette Ave Minneapolis, MN 55402	Paper Service	No	OFF_SL_10-623_RP-10-623
Jenny L.	Myers		Izaak Walton League of America	Suite 202 1619 Dayton Ave. St. Paul, MN 55104	Paper Service	No	OFF_SL_10-623_RP-10-623
Darrell	Nitschke		North Dakota Public Service Commission	600 E. Boulevard Avenue Bismarck, ND 585050480	Paper Service	No	OFF_SL_10-623_RP-10-623

Docket No. E017/RP-10-623
Service List

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Bob	Patton	bob.patton@state.mn.us	MN Department of Agriculture	625 Robert St N Saint Paul, MN 55155-2538	Electronic Service	No	OFF_SL_10-623_RP-10-623
Marcia	Podratz	mpodratz@mpower.com	Minnesota Power	30 W Superior S Duluth, MN 55802	Paper Service	No	OFF_SL_10-623_RP-10-623
Sheila	Reger	N/A		200 Administration Bldg St. Paul, MN 55155	Paper Service	No	OFF_SL_10-623_RP-10-623
Larry L.	Schedin	Larry@LLSResources.com	LLS Resources, LLC	12 S 6th St Ste 1137 Minneapolis, MN 55402	Paper Service	No	OFF_SL_10-623_RP-10-623
Matthew J.	Schuerger P.E.		Energy Systems Consulting Services, LLC	P.O. Box 16129 St. Paul, MN 55116	Paper Service	No	OFF_SL_10-623_RP-10-623
Robert H.	Schulte	rhs@schulteassociates.com	Schulte Associates LLC	15347 Boulder Pointe Road Eden Prairie, MN 55347	Paper Service	No	OFF_SL_10-623_RP-10-623
Tom	Sorel	N/A		MN Dept of Transportation 395 John Ireland Blvd St. Paul, MN 55155	Paper Service	No	OFF_SL_10-623_RP-10-623
Patricia	Van Gerpen	N/A	South Dakota Public Utilities Commission	State Capitol Building 500 E Capitol Ave Pierre, SD 57501-5070	Paper Service	No	OFF_SL_10-623_RP-10-623
Glenn	Wilson		Department of Commerce	Suite 500 85 7th Place East St. Paul, MN 55105	Paper Service	No	OFF_SL_10-623_RP-10-623

OTTER TAIL POWER COMPANY
Docket No. E017/RP-10-623

Response to: Office of Energy Security
Analyst: Adam J. Heinen, Hwikwon Ham, Steve Rakow, Chris Davis
Date Received: 7/9/2010
Date Due: 7/26/2010
Date of Response: 07/23/2010
Responding Witness: Brian Draxten, Manager Resource Planning - (218) 739-8417

Information Request No: MN-OES-6

Subject: Demand Forecast Models
Reference: Initial IRP Filing, Section 3: Forecast Section, Table 8

Please provide the following information related to the above reference:

- a. any, and all, input data, in Microsoft Excel format with all links and formulae intact, used by Otter Tail for the Demand-System in Table 8;
- b. any, and all, data, in Microsoft Excel format with all links and formulae intact, used by Otter Tail to construct the variables used in its Demand forecast models;
- c. the sample period used by Otter Tail for its Demand-System in Table 8; and
- d. the model output including any, and all, relevant regression statistics (e.g., t-statistics, R-Squared, F-Statistic) for the Company's Demand-System models in Table 8.

If this information has already been provided in written comments or in response to an earlier OES information request, please identify the specific testimony cite(s) or OES information request number(s).

RESPONSE:

Item a. - The following Attachment pertains to item a. above:

Attachment A – Demand Forecast Model Inputs

Above each column in Attachment A there is a reference to an attachment below. In that referenced attachment you will find the values in the corresponding Attachment A column.

Item b. - The following attachments pertain to item b. above:

Attachment B1 - Woods and Poole, ques97, Number of Households
Attachment B2 – OTP Counties Served, Population
Attachment B3 - OTP MN Counties Served, Number of Households

Attachment B4 - OTP ND Counties Served, Number of Households
Attachment B5 - OTP SD Counties Served, Number of Households
Attachment B6 - OTP System, Number of Households
Attachment B10 - OTP Hourly Load Data
Attachment B11 - OTP Monthly Peak Demand
Attachment B20 - Bureau of Economic Analysis, GDP
Attachment B21 - Woods and Poole, Total Earnings
Attachment B22 - realgdp Annual Growth Rate
Attachment B23 - realgdp Quarterly Allocation
Attachment B24 - Monthly realgdp
Attachment B30.1992 - HPCC Hourly Weather Data, 1992
Attachment B30.1993 - HPCC Hourly Weather Data, 1993
Attachment B30.1994 - HPCC Hourly Weather Data, 1994
Attachment B30.1995 - HPCC Hourly Weather Data, 1995
Attachment B30.1996 - HPCC Hourly Weather Data, 1996
Attachment B30.1997 - HPCC Hourly Weather Data, 1997
Attachment B30.1998 - HPCC Hourly Weather Data, 1998
Attachment B30.1999 - HPCC Hourly Weather Data, 1999
Attachment B30.2000 - HPCC Hourly Weather Data, 2000
Attachment B30.2001 - HPCC Hourly Weather Data, 2001
Attachment B30.2002 - HPCC Hourly Weather Data, 2002
Attachment B30.2003 - HPCC Hourly Weather Data, 2003
Attachment B30.2004 - HPCC Hourly Weather Data, 2004
Attachment B30.2005 - HPCC Hourly Weather Data, 2005
Attachment B30.2006 - HPCC Hourly Weather Data, 2006
Attachment B30.2007 - HPCC Hourly Weather Data, 2007
Attachment B30.2008 - HPCC Hourly Weather Data, 2008
Attachment B30.2009 - HPCC Hourly Weather Data, 2009
Attachment B31 - Daily Weather Variables
Attachment B32 - Monthly Peak Weather Variables – Historical
Attachment B33 - Monthly Peak Weather Variables – Forecast
Attachment B40 - OTP Hourly Dry Bulb Temperatures
Attachment B41 - OTP Daily Minimum and Maximum Dry Bulb Temperatures
Attachment B42 - OTP Daily HDD and CDD Buildup
Attachment B43 - OTP Monthly Peak HDD and CDD Buildup Variables – Historical
Attachment B44 - OTP Monthly Peak HDD and CDD Buildup Variables – Forecast

Item c. – The sample period used by Otter Tail for its Demand-System in Table 8 is January 1, 1992 through September 30, 2009.

Item d. - The following attachments pertain to item d. above:

Attachment D1 - Demand Forecast Model Output
Attachment D2 - Demand Forecast Model Statistics
Attachment D3 - Adjusted Demand Forecast Model Output

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Attachment A - Demand Forecast Model Inputs
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED
[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B1 - Woods and Poole, ques97, Number of Households

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B2 - OTP Counties Served, Population

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B3 - OTP MN Counties Served, Number of Households

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B4 - OTP ND Counties Served, Number of Households

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-622

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B5 - OTP SD Counties Served, Number of Households

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B6 - OTP System, Number of Households

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B10 - OTP Hourly Load Data

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B11 - OTP Monthly Peak Demand

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B20 - Bureau of Economic Analysis, GDP

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B21 - Woods and Poole, Total Earnings
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISEI

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B22 - realgdp Annual Growth Rate
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B23 - realgdp Quarterly Allocation
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISEE

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand I
Item b. Demand Forecast Model Variables
Attachment B24 - Monthly realgdp
PUBLIC DOCUMENT - TRADE SECRET DATA H.

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.1992 - HPCO Hourly Weather Data, 1992
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.1993 - HPCC Hourly Weather Data, 1993
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.1994 - HPCC Hourly Weather Data, 1994
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.1995 - HPCC Hourly Weather Data, 1995
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.1996 - HPCC Hourly Weather Data, 1996
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.1997 - HPCC Hourly Weather Data, 1997
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.1998 - HPCC Hourly Weather Data, 1998
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.1999 - HPCC Hourly Weather Data, 1999
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.2000 - HPCC Hourly Weather Data, 2000
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.2001 - HPCC Hourly Weather Data, 2001
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.2002 - HPC Hourly Weather Data, 2002
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.2003 - HPCC Hourly Weather Data, 2003
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.2004 - HPCC Hourly Weather Data, 2004
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.2005 - HPCC Hourly Weather Data, 2005
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.2006 - HPCC Hourly Weather Data, 2006
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.2007 - HPCC Hourly Weather Data, 2007
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.2008 - HPCC Hourly Weather Data, 2008
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B30.2009 - HPCC Hourly Weather Data, 2009
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

FADB - Fargo Dry Bulb Temperature
FARH - Fargo Relative Humidity
FAWS - Fargo Wind Speed
FATHI - Fargo Temperature Humidity Index
FAWET - Fargo Wind Effective Temperature
FAWC - Fargo Wind Chill Index
FAWC2 - Fargo Wind Chill Index (NOAA formula 11/1/2001)

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B31 - Daily Weather Variables

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B32 - Monthly Peak Weather Variables - Historical

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B33 - Monthly Peak Weather Variables - Forecast

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Item b. Demand Forecast Model Variables
Attachment B40 - OTP Hourly Dry Bulb Temperatures
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B41 - OTP Daily Minimum and Maximum Dry Bulb Temperatures

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B42 - OTP Daily HDD and CDD Buildup

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B43 - OTP Monthly Peak HDD and CDD Buildup Variables - Historical

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Item b. Demand Forecast Model Variables

Attachment B44 - OTP Monthly Peak HDD and CDD Buildup Variables - Forecast

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Attachment D1 - Demand Forecast Model Output

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

Docket Number E017/RP-10-623

Utility Information Request Number 6, Demand Forecast Models

Attachment D2 - Demand Forecast Model Statistics

PUBLIC DOCUMENT – TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...

...TRADE SECRET DATA ENDS]

Docket Number E017/RP-10-623
Utility Information Request Number 6, Demand Forecast Models
Attachment D3 - Adjusted Demand Forecast Model Output
PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

[TRADE SECRET DATA BEGINS...