

May 11, 2011

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PUBLIC SERVICE COMMISSION

Secretary to the Commission  
North Dakota Public Service Commission  
State Capitol Building  
Bismarck, North Dakota 58505

Dear Sir:

In accordance with Section 49-22-04 of the North Dakota Century Code, Minnkota Power Cooperative herewith files the enclosed Ten-Year Plan with the North Dakota Public Service Commission.

Any questions concerning the contents of the enclosed document should be directed to me.

Sincerely,

MINNKOTA POWER COOPERATIVE, INC.



Dale Sollom  
Planning Manager

Enclosure

# **TEN-YEAR PLAN**

**MINNKOTA POWER COOPERATIVE, INC.  
Grand Forks, North Dakota**

Prepared for the North Dakota Public Service Commission  
Pursuant to Section 49-22-04 of the  
North Dakota Century Code

MPC  
PLANNING DEPARTMENT

**July 2011**

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# MINNKOTA POWER COOPERATIVE, INC.

## TEN-YEAR PLAN

### INTRODUCTION

Minnkota Power Cooperative, Inc. was organized on March 28, 1940 and incorporated under the laws of the State of Minnesota. It is the wholesale electric power supplier for 11 rural electric cooperatives located in the eastern one-third of North Dakota and the northwestern part of Minnesota. Minnkota serves approximately 133,000 end-use meters in a 34,500 square mile service area that includes 33 counties in the Red River Valley and adjoining areas.

Minnkota operates the Milton R. Young 1 plant, a 250,000 kW lignite-fired steam generator located near Center, North Dakota. Minnkota owns or leases another 34,570 kW of smaller diesel units located throughout its service area. It also has an 84,300 kW contract for firm power with the Western Area Power Administration. Minnkota also receives 128,100 kW from the Coyote plant and 227,500 kW from Square Butte Electric Cooperative's Milton R. Young 2 plant.

Minnkota owns two 900 kW wind turbines, one located near Valley City and one located near Petersburg, North Dakota.

On December 31, 2009 Square Butte Electric Cooperative sold its 463 mile  $\pm$  250 kilovolt D.C. transmission line to Minnesota Power. As part of the sale of the D.C. line, Minnkota will receive an increasing allocation of Young 2 electrical output beginning in 2013 when a new 345 kV transmission line from Center to Grand Forks is expected to be completed. Minnkota's allocation will increase, in varying increments, until 2026, at which point Minnkota will receive 100 percent of the electrical energy produced by Young 2.

Minnkota has 25-year Power Purchase Agreements for 139,500 kW from wind projects located near Langdon, ND and for 217,500 kW from wind projects located near Pillsbury, ND.

Minnkota is the operating agent for the Northern Municipal Power Agency (NMPA), which consists of 12 municipals, 10 located in northwestern Minnesota and 2 located in eastern North Dakota.

**MINNKOTA POWER COOPERATIVE, INC.**  
**Ten-Year Plan**

SECTION A: Existing Energy Conversion Facilities

1. See Exhibit I  
OTP will be responsible for Form EIA-923 for the Coyote facilities.

SECTION B: Energy Conversion Facilities Under Construction

None

SECTION C: Proposed Energy Conversion Facilities on Which Construction is Intended Within The Ensuing Five Years

None

SECTION D: Proposed Energy Conversion Facilities During the Next Ten-Year Time Period

None

SECTION E: Existing Transmission Facilities (Electric)

1. See Exhibit II and Exhibit III
2. See Exhibit IV
3. None

SECTION F: Existing Transmission Facilities (Pipeline)

None

SECTION G: Proposed Transmission Facilities on Which Construction is Intended Within the Ensuing Five Years

Minnkota is planning to construct a 250 mile 345 kV transmission line from Center to Grand Forks by January 1, 2013. The line is needed to deliver the output of the existing Milton R. Young 2 generating plant. The output of Young 2 is presently delivered over the Square Butte D.C. line that runs from Center, ND to near Duluth, MN. The new 345 kV line is needed because the capacity of the D.C. line will be utilized to deliver power from existing and future wind farms in the Center, ND area starting in the 2013 time frame. The new 345 kV line may be a double circuit design which, along with other transmission additions, may be utilized to deliver the output of several wind projects that have been proposed along the route of the line. The exact configuration, route, and sizing of the proposed line and any additional transmission additions will not be known until transmission studies have been completed and generation interconnection agreements have been executed.

SECTION H: Proposed Transmission Facilities on Which Construction is Intended Within the Ensuing Five Years (Pipeline)

None

SECTION I: Proposed Transmission Facilities During the Next Ten-Year Time Period (Electric and Pipeline)

None

SECTION J: Regional coordination

Facilities proposed and committed by Minnkota are coordinated with members of the Mid-Continent Area Power Pool (MAPP). Minnkota participates on various MAPP Subcommittees and working groups that review and approve generation additions, transmission adequacy, and reliability improvements. Minnkota is a member of the MAPP Transmission Planning Committee, whose primary purpose is to perform coordinated long range transmission planning. Minnkota generation and transmission facility additions also require approval of MAPP's Design Review Subcommittee. Minnkota also coordinates its planning efforts with other area utilities by participating in or leading ad-hoc group studies involving local planning issues.

SECTION K: Environmental information

Minnkota Power Cooperative, Inc., is a borrower from the Rural Utilities Services of Washington, D.C. In accordance with national policy as stated in the National Environmental Policy Act and elsewhere, the policies, plans and programs of the Rural Electrification Administration and its borrowers are conducted so as to meet national environmental goals in accordance with the law, Executive Orders, and Guidelines of the Council of Environmental Quality.

The stated purpose of the National Environmental Policy Act is to declare a national policy which will encourage an enjoyable harmony between man and his environment; to promote efforts which will prevent or eliminate damage to the environment and biosphere and stimulate the health and welfare of man; to enrich the understanding of the ecological systems and natural resources important to the nation; and to establish a Council on Environmental Quality.

The Act requires the preparation of a detailed Environmental Statement in connection with every major Federal action significantly affecting the quality of human environment, and requires that such environmental statements shall be made available to the President, the Council on Environmental Quality, and to the public and shall accompany the proposal through agency review processes.

The Rural Utilities Services includes in its loan contracts entered into since passage of the Act, a provision to the effect that the borrower shall observe all applicable Federal and State requirements for the protection of the environment. Environmental Statements are required by the Rural Utilities Services in connection with all loans and other agency actions that will significantly affect the quality of the human environment.

For all of Minnkota's transmission lines of 230 kV and above, knowledgeable consultants prepare an environmental analysis. This analysis is the basis for routing transmission lines in accordance with the National Environmental Policy Act and with the guidelines set jointly by the United States Department of Interior and Agriculture entitled "Environmental Criteria for Electric Transmission Lines".

These guidelines are also used in routing lower voltage transmission lines, although lower voltage lines are usually quite short and therefore, have a lesser impact on the environment. It is Minnkota's policy to route transmission lines in such a location as to cause the least amount of damage and interference to the private landowner while at the same time choose a route that is in the best interest of the general public.

Minnkota cooperates with other area electric utilities so that its high voltage transmission lines are portions of joint projects. This significantly reduces the total number of miles of transmission line otherwise required to be constructed. In the actual route selection, attempts are made to follow the established criteria and place the lines in a manner to be least visible to the general public. This includes such things as, where feasible, staying away from heavily traveled roads, screening road crossings, screening the line behind hills or trees. Special wildlife areas and other formally classified areas are avoided in line routing.

Minnkota cooperates with State and Federal agencies in the route selection process. These agencies review and comment on the Environment Impact Statement and all comments are answered. Private land use and potential use is considered to either avoid irrigatable areas or place the structures in such a way that they will cause the least interference to irrigation. Transmission line structures are placed in non-tillable areas where possible and span lengths are maximized to reduce the total number of structures to cause the least interference to irrigation and other farming activities.

Environmental considerations are placed in their proper perspective along with such other vital factors such as service reliability, cost, and safety. Minnkota considers all these factors in constructing, operating and maintaining its electric transmission system.

#### SECTION L: Projected demand for service

1. Minnkota's 2000-2001 winter peak demand was 662,000 kW as compared to 863,200 kW for the 2010-2011 winter season. Minnkota has projected a 2020-2021 winter peak demand of 1,118,000 kW.

Beginning with relatively modest efforts in 1973, Minnkota and the twelve associated rural electric distribution cooperatives have developed a comprehensive program of load management. This program is comprised of three concurrent efforts: (1) incentive wholesale and retail rates, (2) promotion of use of dual oil/electric space heating systems and (3) a positive, reliable control method that is made available to all consumers. Major goals of substantial annual system load factor improvement, furnishing of economical electric energy and conservation of oil and propane by substituting coal-derived electrical energy are being realized. The strong consumer endorsement of the cooperative's load management program indicates that a

continued significant growth in off-peak electric energy consumption will occur and that there will be a reduction of dependence upon foreign produced oil as a result.

In 1976 Minnkota drastically changed its rate structure from billing on dollars per kW per month of demand to billing on a 100% ratcheted demand on the demand recorded at the time of Minnkota's annual winter peak. This has had the effect of inducing the management of each of the 11 member distribution cooperatives to devise every possible method to keep loads off Minnkota's annual winter peak.

This billing concept on the part of Minnkota is having the effect of slowing down demand growth while not substantially affecting energy growth.

2. Minnkota's generating capacity presently installed or committed plus firm contract commitments are as follows:

	<u>kW</u>
Western Area Power Administration (including reserves)	83,500
Small Diesels	34,570
Milton R. Young 1	250,000
Milton R. Young 2 (Minnkota share)	227,500
Coyote (NMPA share)	128,100
Petersburg Wind	900
Valley City Wind	900
Langdon Wind PPA	99,000
Langdon Wind II PPA	40,500
Ashtabula PPA- I	99,000
Ashtabula PPA - II	49,500
Ashtabula II PPA	<u>69,000</u>
	1,082,470

Minnkota is a member of the Mid-Continent Area Power Pool (MAPP) that has a large amount of winter surplus capacity from which to purchase reserve and peaking capacity. Minnkota also has 242,000 kW of transmission capability on the interconnection tie lines to Manitoba Hydro in Canada. Minnkota will purchase from MAPP, Midwest Independent System Operator (MISO), or Manitoba Hydro to satisfy any future generation capacity deficiencies.

3. Minnkota's load centers are the three distribution cooperatives in eastern North Dakota and the eight distribution cooperatives in northwestern Minnesota.

Minnkota coal resources will last for at least 70 years with the present level of generation. There are no transportation problems since all the base loaded plants are mine mouth plants. The transportation system that Minnkota will rely upon will be the high voltage electrical network in North Dakota.

**EXHIBIT I**

U.S. Department of Energy Form EIA-923  
(Supersedes U.S. Department of Energy Form EIA-767)  
(Supersedes FERC Form 67)

**NOTICE:** This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For further information concerning sanctions and data protections see the provision on sanctions and the provision concerning confidentiality of information in the instructions. **Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.**

**SCHEDULE 1. IDENTIFICATION**

**Survey Contact**

Contact Kay Schraeder  
 Title Accountant  
 Address 1822 Mill Road  
 City/State/Zip Grand Forks ND 58208  
 Email kschrader@minkota.com

Submit By OPSSCID6533  
 Submit Date 08-APR-11  
 Accept By  
 Accept Date

Phone (701) 795-4266 Fax

**Supervisor of Contact Person for Survey**

Contact Craig Rustad  
 Title Accounting Manager  
 Address 1822 Mill Road  
 City/State/Zip Grand Forks ND 58208  
 Email crustad@minkota.com

Phone (701) 795-4261 Fax

**Report For**

Company Name Minnesota Power Coop. Inc  
 Plant Name Milton R Young  
 Plant ID 2823 Plant County Oliver  
 Plant Address 3401 24th Street S.W.  
 Plant City Center Plant State ND

Regulated  Yes  No  
 CHP  Yes  No

CHP Efficiency

For contact detail go to <http://www.eia.doe.gov/loss/forms.html#eta-923>

**SCHEDULE 6. NONUTILITY ANNUAL SOURCE AND DISPOSITION OF ELECTRICITY**  
(Instructions for SCHEDULE 6 are on page 13)

SCHEDULE 6 collects calendar year data (no monthly detail).  
Annual data are due by March 30 following the reporting year.  
Report all generation in megawatthours (MWh) rounded to a whole number.

- (1) Gross Generation (Annual)
- (2) Other Incoming Electricity
- (3) Total Sources (1 + 2)
- (4) Station Use
- (5) Direct Use
- (6) Total Facility Use (4 + 5)
- (7) Retail Sales to Ultimate Customers
- (8) Sales for Resale (MWh)
- (9) Other Outgoing Electricity
- (10) Total Disposition (6 + 7 + 8 + 9)

**Total Sources must equal Total Disposition (3 = 10)**

**Plants that cannot separate Station Use and Direct Use may enter zero in Station Use and the sum of Station Use and Direct Use in the Direct Use field.**

**SCHEDULE 7. ANNUAL REVENUES FROM SALES FOR RESALE**  
(Instruction for SCHEDULE 7 are on page 14.)

SCHEDULE 7 is to be completed by respondents who entered a positive amount on SCHEDULE 6, Disposition of Electricity, Item 8, Sales for Resale. Annual data are due by March 30 following the reporting year.

Sales for Resale is energy supplied to other electric utilities, cooperatives, municipalities, Federal and State electric agencies, or other entities for resale to end-use consumers.

Annual Revenues from Sales for Resale (in thousand dollars)

Year: 2010

Plant: 2823

Milton R Young

OMB No. 1905-0129

Approval Expires 12/31/2010

**SCHEDULE 8. ANNUAL ENVIRONMENTAL INFORMATION**

SCHEDULE 8. PARTS A through F are filed annually and must be reported by steam-electric organic-fueled power plants with a total steam turbine capacity of 100 megawatts and above (only plants that reported boiler-level consumption on SCHEDULE 3, Part A.). All steam-electric organic-fueled power plants with a total steam turbine capacity of 10 megawatts and above are responsible for filing Schedule 8, Parts C, E, and F. Annual data are due by March 30 following the reporting year.

**SCHEDULE 8. PART A. ANNUAL BYPRODUCT DISPOSITION**

(Instructions for SCHEDULE 8 PART A are on page 14)

Enter the quantity of combustion byproducts for the year by type of disposal (to nearest 0.1 thousand tons). Report sales of steam in million Btu (MMBtu). If actual data are not available, provide an estimated value.

No Byproducts

Byproduct	On-site Landfill	Disposal On-site Ponds	Disposal Off-site	Sale or Beneficial Use			Total
				Sold	Used On-site	Used Off-site	
Fly ash from standard boiler/PCD units	75.8	71.1					146.9
Fly ash from units with dry FGD							
Fly ash from FBC units							
Bottom ash from standard boiler units	25.1			63.7	38.6	16.0	143.4
Bottom (bed) ash from FBC units							
FGD Gypsum							
Other FGD byproducts		181.0					181.0
Ash from coal gasification (IGCC) units							
Other (specify via footnote on Schedule 9)							
Steam Sales (MMBtu)							

**SCHEDULE 8. PART B. FINANCIAL INFORMATION**  
 (Instructions for SCHEDULE 8 PART B are on page 15.)

If actual data are not available, provide an estimated value.

**Operation and Maintenance (O&M) Expenditures During Year (Thousand Dollars)**

Type	(1) Fly Ash Collection	(2) Bottom Ash	(3) Flue Gas Desulfurization	(4) Water Pollution Abatement	(5) Other Pollution Abatement	(6) Total (1 + 2 + 3 + 4 + 5)
Collection	2,087	1,211	5,331	1,118	0	9,747
Disposal	652	352	1,035	10	0	2,049
Other	0	0	0	0	896	896

**Capital Expenditures for New Structures and Equipment During Year, Excluding Land and Interest Expense (Thousand Dollars)**

Type	(7) Air Pollution Abatement	(8) Water Pollution Abatement	(9) Solid/Contained Waste	(10) Other Pollution Abatement
Amount	81,634	538	155	0

**Byproduct Sales Revenue During Year (Thousand Dollars)**

Type	(11) Fly Ash	(12) Bottom Ash	(13) Fly and Bottom Ash Sold Intermingled	(14) Flue Gas Desulfurization	(15) Other Byproduct Revenue	(16) Total (11+12+13+14+15)
Amount	0	255	0	0	0	255

**SCHEDULE 8. PART C. BOILER INFORMATION NITROGEN OXIDE EMISSION CONTROLS**  
(Instructions for SCHEDULE 8 PART C are on page 16.)

Complete a separate row for each boiler.

.Note: The Boiler ID must match the Boiler ID as reported on Form EIA-860, "Annual Electric Generator Report."

No NOX Controls

Boiler ID	NOx Control In-Service (hours)	NOx Emission Rate (lbs/MMBtu)	
		Entire Year	May through September
B1	8,514	.54	.524
B2	6,253	.41	.41

**SCHEDULE 8. PART D. COOLING SYSTEM INFORMATION, ANNUAL OPERATIONS**  
 (Instructions for SCHEDULE 8 PART D are on page 16.)

Note: Cooling System ID must match the ID as reported on Form EIA-860, "Annual Electric Generator Report."  
 Complete a separate row for each cooling system.

Cooling System ID	Status	Annual Amount of Chlorine added to Cooling Water (1000 lbs)	Average Annual Rate of Cooling Water (to nearest 0.1 ft <sup>3</sup> /sec)			Maximum Cooling Water Temperature at Intake (F)		Maximum Cooling Water Temperature at Discharge Outlet (F)	
			Withdrawal	Discharge	Consumption	Winter Peak Month	Summer Peak Month	Winter Peak Month	Summer Peak Month
CS1	OP	0	263	263	0				
CS1	OP	1	249.1	249.1	0				
CS1	OP	1	242.9	242.9	0				
CS1	OP	1	263	263	0				
CS1	OP	1	263	263	0				
CS1	OP	1	260	260	0				
CS1	OP	1	239.8	239.8	0				
CS1	OP	2	263	263	0				
CS1	OP	1	263	263	0				
CS1	OP	2	263	263	0				
CS1	OP	1	250.7	250.7	0				
CS1	OP	0	263	263	0				
CS2	OP	1	557	557	0				
CS2	OP	1	506	506	0				
CS2	OP	1	533.8	533.8	0				
CS2	OP	1	557	557	0				
CS2	OP	1	495.1	495.1	0				

CS2	OP	1	557	557	0
CS2	OP	2	540	540	0
CS2	OP	2	547.8	547.8	0
CS2	OP	1	190.3	190.3	0
CS2	OP	0	0	0	0
CS2	OP	0	0	0	0
CS2	OP	0	349.7	349.7	0

Form Approval  
 OMB No. 1905-0129  
 Approval Expires 12/31/2013

**SCHEDULE 6 PART D. COOLING SYSTEM INFORMATION, ANNUAL OPERATIONS**  
**Power Plant Operations Report**

U.S. Department of Energy  
 Energy Information Administration  
 Form EIA-923-2010

All steam electric plants of 100 MW nameplate capacity or greater, including combined cycle plants and nuclear energy plants, must respond to this schedule. Cooling System ID must match the ID as reported on Form EIA-920, "Annual Electric Generator Report." Complete a separate page for each month. Complete a separate row for each cooling system if the flow rate and temperatures are known for the entire plant, but not for each cooling system, choose "PLANT" as the Cooling System ID.

Report Month:

Add a Row 
 Monthly Amount of Chlorine

Cooling System ID	or Plant Status	Hours added to Cooling Water	Service (1000 lbs)	Average Monthly Rate of Cooling Water		Average Monthly Discharge		Cooling Water Temperature (F)		Measured or Estimated? (Double Click for list)	Measured or Estimated? (Double Click for list)	
				Diversion	Withdrawal	Consumption	Average Monthly	Maximum Monthly	Average Monthly			Maximum Monthly
CS1	OP	400	744	0	2630	2630	45	53	63	71	1	Remo
CS2	OP	750	744	0	5370	5370	45	52	59	68	1	Remo
												Remo
												Remo
												Remo
												Remo
												Remo
												Remo
												Remo
												Remo

Data Accepted

U.S. Department of Energy  
 Energy Information Administration  
 Form EIA-923 2010

### Power Plant Operations Report

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#### SCHEDULE 3: PART D: COOLING SYSTEM INFORMATION, ANNUAL OPERATIONS

All steam electric plants of 100 MW or greater capacity or greater, including combined cycle plants and nuclear energy plants, must respond to this schedule. Cooling System ID must match the ID as reported on Form EIA-860, "Annual Electric Generator Report." Complete a separate page for each month. Complete a separate row for each cooling system. If the flow rates and temperatures are known for the entire plant but not for each cooling system, choose "PLANT" as the Cooling System ID.

Report Month:

Add a Row

Cooling System ID or Plant	Status (000lbs)	Hours added to Cooling Water Service	Monthly Amount of Chlorine added to Cooling Water	Average Monthly Rate of Cooling Water in cubic feet per second (to nearest 0.1) (B/Gal)				Cooling Water Temperature (F)				Measured or Estimated? (Double-Click for list)	Maximum Monthly Discharge	Maximum Monthly Temp at Discharge	Measured or Estimated? (Double-Click for list)	Remo
				Diversion	Withdrawal	Discharge	Consumption	Average Monthly Temp at Intake	Average Monthly Temp at Discharge	Maximum Monthly Temp at Intake	Maximum Monthly Temp at Discharge					
CS1	DP	570	689	0	249.1	249.1	0	4	45	53	63	87	1	Remo		
CS2	DP	300	591	0	306.0	306.0	0	4	45	52	58	87	1	Remo		
														Remo		
														Remo		
														Remo		
														Remo		
														Remo		
														Remo		
														Remo		
														Remo		

Prior Year  Next Year  Data Accepted?

Survey Submit  Help

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Power Plant Operations Report

SCHEDULE 8 - PART D. COOLING SYSTEM INFORMATION, ANNUAL OPERATIONS

All steam electric plants of 100 MW nameplate capacity or greater, including combined cycle plants and nuclear energy plants, must respond to this schedule. Cooling System ID must match the ID as reported on Form EIA-923, "Annual Electric Generator Report". Complete a separate page for each month. Complete a separate row for each cooling system. If the flow rates and temperatures are known for this entire plant but not for each cooling system, choose "PLANT" as the Cooling System ID.

Report Month:     
Report Month:

Monthly Amount

Cooling System ID	Status	Hours added to Cooling Water	Monthly Amount of Chlorine (1000 lbs)	Average Monthly Rate of Cooling Water		Cooling Water Temperature (°F)		Measured or Estimated? (Double Click for use)	Maximum Monthly Discharge	
				Withdrawal (cubic feet per second (to nearest 0.1 ft <sup>3</sup> /sec))	Discharge	Intake	Minimum Monthly Temp at Intake			
CS1	OP	520	674	2479	2479	56	65	72	89	Remo
CS2	OP	940	701	5338	5338	54	64	69	81	Remo
										Remo
										Remo
										Remo
										Remo
										Remo
										Remo
										Remo
										Remo

Prior Year:  Next Year:  Date Accepted:  Print:  Survey Submit:  Help:  Save:

Schedule 9A Schedule 9B Schedule 9C Schedule 9D Schedule 9E Schedule 9F Schedule 9G  
**Power Plant Operations Report**

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US Department of Energy  
 Energy Information Administration  
 Form EIA-923 2010

**SCHEDULE 8: PARID; COOLING SYSTEM INFORMATION; ANNUAL OPERATIONS**

All steam electric plants of 100 MW or more capacity or greater, including combined cycle plants and nuclear energy plants, must respond to this schedule. Cooling System ID must match the ID as reported on Form EIA-860, Annual Electric Generator Report. Complete a separate page for each month. Complete a separate row for each cooling system if the flow rate and temperature are known for the entire plant but not for each cooling system, choose 'PLANT' as the Cooling System ID.

Report Month:  Year:   
 Report Month:  Year:

Add a Row

Cooling System ID	Status	Capacity (1000 lbs)	Hours added to Cooling Water	Monthly Amount of Chlorine	Average Monthly Rate of Cooling Water				Cooling Water Temperature (F)				Measured or Estimated?
					Withdrawal	Discharge	Consumption (for fee)	Substance per second (60 nearest 1/63 sec)	Average Monthly	Maximum Monthly	Average Monthly	Maximum Monthly	
CS1	OP	800	720		2630	2650	3	72	80	91	1	Remo	
CS2	OP	1150	720		3570	3570	4	72	77	89	1	Remo	
												Remo	
												Remo	
												Remo	
												Remo	
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Form Approval  
 OMB No 1905-0129  
 Approval Expires 12/31/2013

### Power Plant Operations Report

Department of Energy  
 Energy Information Administration  
 Form EIA-923 2010

#### SCHEDULE 3-PART D: COOLING SYSTEM INFORMATION, ANNUAL OPERATIONS

All steam electric plants of 100 MW or more plate capacity or greater including combined cycle plants and nuclear energy plants must respond to this schedule. Cooling System ID must match the ID as reported on Form EIA-880 Annual Electric Generator Report. Complete a separate page for each month. Complete a separate row for each cooling system. If the flow rates and temperatures are known for the entire plant but not for each cooling system, choose "PLANT" as the Cooling System ID.

Report Month:

Add a Row

Cooling System ID	Plant Status	Hours of Chlorine added to Cooling Water	Average Monthly Rate of Cooling Water (cubic feet per second to nearest 0.1 ft <sup>3</sup> /sec)	Cooling Water Temperature (F)		Measured or Estimated? (Double Click)	Maximum Monthly Temp at Discharge	Average Monthly Temp at Intake	Maximum Monthly Temp at Discharge	Measured or Estimated? (Double Click)	Maximum Monthly Temp at Discharge	Measured or Estimated? (Double Click)
				Average Monthly Temp at Intake	Average Monthly Temp at Discharge							
CS1	OP	940	744	263.0	263.0	4	76	67	85	94	1	Remo
CS2	OP	106	65	493.1	493.1	4	76	66	80	93	1	Remo
												Remo
												Remo
												Remo
												Remo
												Remo
												Remo
												Remo
												Remo



**Power Plant Operations Report**

**SCHEDULE 8. PART D. COOLING SYSTEM INFORMATION, ANNUAL OPERATIONS**

All steam-electric plants of 100 MW nameplate capacity or greater including combined cycle plants and nuclear energy plants, must respond to this schedule. Cooling System ID must match the ID as reported on Form EIA-830, "Annual Electric Generator Report." Complete a separate page for each month. Complete a separate row for each cooling system if the flow rates and temperatures are known for the entire plant but not for each cooling system, choose "PLANT" as the Cooling System ID.

Report Month:      
 Report Month:

Monthly Amount of Chlorine  
 Cooling System ID:  Hours of Chlorine  
 Cooling System ID:  Cooling Water  
 Cooling System ID:  Service

Cooling System ID	Plant	Status	Stabilizer (1000 lbs)	Hours of Chlorine	Monthly Amount of Chlorine	Average Monthly Rate of Cooling Water				Cooling Water Temperature (F)				
						Withdrawal	Discharge	Consumption	for list)	Average Monthly	Maximum Monthly	Average Monthly	Maximum Monthly	Measured or Estimated?
CS1	OP					239.8	239.8	0	4	36	89	102	107	1
CS2	OP					540.0	540.0	0	4	38	89	102	107	1



SUBMIT Print

**Power Plant Operations Report**

Form Approval: \_\_\_\_\_  
 OMB No. 1905-0129  
 Approval Expires: 12/31/2013

**SCHEDULE 8: PART D: COOLING SYSTEM INFORMATION, ANNUAL OPERATIONS**

100 MW capacity or greater, including combined cycle plants and nuclear energy plants, must respond to this schedule for Form EIA-860 Annual Electric Generator Report. Complete a separate page for each month. Complete a separate page for each cooling system, choose "PLANT" as the type and temperature is unknown for the entire plant but not for each cooling system.

Site ID: \_\_\_\_\_  
 Plant Name: \_\_\_\_\_  
 Status:  Add  Edit  New

Reporting Month	Status	Cooling System	Capacity (MW)	Average Monthly Rate of Cooling Water Intake (to nearest 0.1 MB/sec)	Average Monthly Rate of Cooling Water Discharge (to nearest 0.1 MB/sec)	Measured or Estimated?	Cooling Water Temperature (°C)		Measured or Estimated?	Maximum Monthly Temperature	Discharge Discharge	Remarks
							Average Monthly Temperature Intake	Average Monthly Temperature Discharge				
1	OP		1,600	744	263.0	263.0	4	85	92	103	111	1
2	OP		2,340	752	547.8	547.8	4	84	91	101	109	1
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												



Form Approval  
 OMB No. 1905-0129  
 Approval Expires 12/31/2013

### Power Plant Operations Report

Department of Energy  
 Energy Information Administration  
 EIA-923 (2010)

#### SCHEDULE 8: PAKED COOLING SYSTEM INFORMATION, ANNUAL OPERATIONS

For electric plants of 100 MW nameplate capacity or greater, including combined cycle plants and nuclear energy plants, must respond to this schedule. For other plants, respond to this schedule if the plant is a combined cycle plant or nuclear energy plant. Complete a separate page for each month. Complete a separate row for each cooling system. If the flow rates and temperatures are known for the entire plant but not for each cooling system, choose "PLANT" as the cooling system ID.

Re Month: 
 Month:

Add a Row:

Item ID: 
 Status: 
 Cooling Water Service: 
 Hours: 
 Average Monthly Rate of Cooling Water Withdrawal (to nearest 0.1 MG/sec): 
 Average Monthly Rate of Cooling Water Discharge (to nearest 0.1 MG/sec): 
 Cooling Water Temperature (F): 
 Measured or Estimated? (Double Click for list):

Item ID	Status	Cooling Water Service	Hours	Average Monthly Rate of Cooling Water Withdrawal (to nearest 0.1 MG/sec)	Average Monthly Rate of Cooling Water Discharge (to nearest 0.1 MG/sec)	Cooling Water Temperature (F)	Measured or Estimated?
1	OP	990	720	2630	2630	70	1
2	OP	510	730	1903	1903	73	1
						80	
						86	
						90	
						91	
						103	
							Remo
							Remo
							Remo
							Remo
							Remo
							Remo
							Remo
							Remo
							Remo

Form Approval  
 OMB No. 1905-0129  
 Approval Expires 12/6/2013

### Power Plant Operations Report

U.S. Department of Energy  
 Energy Information Administration  
 Form EIA-923 (2010)

All steam electric plants of 100 MW or more in capacity or gas-unit-fueled combined cycle plants and nuclear energy plants, must respond to this schedule. Cooling System ID must match the ID as reported on Form EIA-969. Annual Electric Generator Report. Complete a separate page for each month. Complete a separate row for each cooling system. If the flow rate and temperature are known for the entire plant but not for each cooling system, choose "PLANT" as the Cooling System ID.

Report Month:

Add a Row:

Cooling System ID or Plant Status	Hours of Chlorine added to Cooling Water	Service (100 lbs)	Average Monthly Rate of Cooling Water in cubic feet per second (to nearest 0.1 ft <sup>3</sup> /sec)			Cooling Water Temperature (F)			Measured or Estimated? (Double Click for list)	Minimum Monthly Discharge Temp at	Average Monthly Discharge Temp at	Maximum Monthly Discharge Temp at	Measured or Estimated? (Double Click for list)
			Diversion	Withdrawal	Discharge	Consumption (for list)	Inlet	Average Monthly					
CS1	OP	1296	744	0	263.0	0	4	0	69	79	91	1	Remo
CS2	OP	000	0	0	0	0	4	0	0	0	0	1	Remo
													Remo
													Remo
													Remo
													Remo
													Remo
													Remo
													Remo



Prior Year | Next Year |  Data Accepted | Print | Survey Submit | Help | Save

Form Approval  
 OMB No. 1905-0129  
 Approval Expires 12/31/2013

**Power Plant Operations Report**

Department of Energy  
 Energy Information Administration  
 EIA-923-10

**SCHEDULER-PAIRED-COOLING SYSTEM INFORMATION, ANNUAL OPERATIONS**

All air electric plants of 100 MW nameplate capacity or greater, including combined cycle plants and nuclear energy plants, must respond to this schedule. Cooling System ID must match the ID reported in EIA-860, Annual Electric Generator Report. Complete a separate page for each month. Complete a separate row for each cooling system. If multiple cooling systems are known for the entire plant, but not for each cooling system, choose "PLANT" as the Cooling System ID.

Report: 6 | Pre | Yes

Cooling System ID	Monthly Amount of Chlorine added to Cooling Water	Hours of Chlorine Service	Average Monthly Rate of Cooling Water Withdrawal (in nearest 0.1 ft <sup>3</sup> /sec)		Measured or Estimated? (Double Click)	Cooling Water Temperature (°F)		Measured or Estimated? (Double Click)	Maximum Monthly Discharge	Temperature at Discharge	Remo
			Withdrawal	Discharge		Average Monthly Intake	Maximum Monthly				
OP	620	690	250%	250%	4	45	53	61	72		Remo
OP	000	0	0	0	4	0	0	0	0		Remo
											Remo
											Remo
											Remo
											Remo
											Remo
											Remo
											Remo
											Remo



Next Year     Data Accepted?               

**Power Plant Operations Report**  
 Form Approval: OMB No. 1905-0129  
 Approval Expires 12/31/2015

**SCHEDULE 8, PART D: COOLING SYSTEM INFORMATION, ANNUAL OPERATIONS**

Identify or greater, including combined cycle plants and nuclear energy plants, must respond to this schedule. System ID must match the ID as reported on Form EIA-860 Annual Electric Generator Report. Complete a separate page for each month. Complete a separate row for each cooling system. If the flow rates and temperatures are known for the entire plant but not for each cooling system, choose "PLANT" as the System ID.

Month:        

Row:

Row	System ID	Monthly Amount of Chlorine added, lb	Hours Cooling Water served, 1000 lbs	Average Monthly Rate of Cooling Water, cubic feet per second (do not use 1 ft <sup>3</sup> /sec)	Measured or Estimated (Double Click)	Cooling Water Temperature (°F)			Measured or Estimated (Double Click)	Remo
						Average Monthly	Maximum Monthly	Minimum Monthly		
1	OP	160	744	263.0	4	43	47	60	65	1
2	OP	098	559	349.7	4	45	65	58	91	1
										Remo
										Remo
										Remo
										Remo
										Remo
										Remo
										Remo
										Remo
										Remo

**SCHEDULE 8. PART E. FLUE GAS PARTICULATE COLLECTION INFORMATION**  
 (Instructions for SCHEDULE 8 PART E are on page 17)

Complete a separate row for each flue gas particulate collector.

Does not Apply

Flue Gas Particulate Collector ID	Status	Hours in Service	Typical Particulate Emissions Rate (nearest 0.01 lb/MMBtu)	Removal Efficiency of Particulate Matter (nearest 0.1% by weight)		Date of Most Recent Efficiency Test (e.g., 12-2005)
				At Annual Operating Factor	At 100% Load or Tested Efficiency	
ESP1	OP	8,537	.01	99.8	100	8-1975
ESP2	OP	6,646	.01	99.8	100	8-1977

**SCHEDULE 8. PART F. FLUE GAS DESULFURIZATION UNIT INFORMATION, ANNUAL OPERATIONS**  
 (Instructions for SCHEDULE 8 PART F are on page 19.)

Note: Flue Gas Desulfurization ID must match the ID as reported on Form EIA-860, "Annual Electric Generator Report."  
 Complete a separate row for each Flue Gas Desulfurization Unit.

Flue Gas Desulfurization Unit ID	FGD Unit Status	Hours In Service	Quantity of FGD Sorbent Used (to nearest 0.1 thousand tons)	Electrical Energy Consumption (MWh)	At Annual Operating Factor	At 100% Load or Tested Efficiency	Date of Most Recent Efficiency Test (e.g., 12-2005)	Removal Efficiency of Sulfur Dioxide (nearest 0.1% by wt)	
								Does not Apply	
FGD2	OP	6,253	86.9	23,899	78.9	78.9	12-2010		

**OPERATION AND MAINTENANCE EXPENDITURES DURING YEAR, EXCLUDING ELECTRICITY (THOUSAND DOLLARS)**

Flue Gas Desulfurization Unit ID	FGD2	Feed Materials and Chemicals	\$2,353	Labor and Supervision	\$567	Waste Disposal	\$1,035	Maintenance, Materials and All Other Costs	\$2,411	Total	\$6,366
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**EXHIBIT II**

Federal Energy Regulatory Commission Form FERC-714  
(Supersedes FERC Form 12)



Federal Energy Regulatory Commission  
FERC Form No. 714

# Annual Electric Balancing Authority Area and Planning Area Report

For the Year Ending December 31, 2009

Form Approved  
OMB Numbers: 1902 - 0140  
(Expires: 01-31-2013)

## Part I - Schedule 1. Identification and Certification

1. Respondent Identification:

Code: 12658      Name: Minnkota Power Cooperative, Inc.

2. Respondent Type: (Please check appropriate box and fill in name)

Part I: Balancing Authority Area (Complete Parts I, II, and IV)

Unit dispatch is not based on the economic dispatch of thermal units (i.e., a system lambda is not calculated)

Balancing Authority Area Name:

Part II: Planning Area (Complete Parts I, III, and IV)

Planning Area Name:

Minnkota Power Cooperative, Inc.

3. Respondent Mailing Address:

Minnkota Power Cooperative, Inc.  
1822 Mill Road  
Grand Forks, North Dakota 58208-3200

4. Contact Person:

Name: Cameron Korynta  
Title: Energy Marketer  
E-mail address: ckorynta@minnkota.com

Telephone #: 701-795-4429      Ext:

5. Certifying Official:

Name: Cameron Korynta  
Title: Energy Marketer  
Date: 05/01/2010

This report is an  Original  Revised Filing

**Annual Electric Balancing Authority Area and Planning  
 Area Report**

For the Year Ending December 31, 2009

Utility Code: 12658  
 Utility Name: Minnkota Power Cooperative, Inc.

**Part III - Schedule 1. Electric Utilities That Compose the Planning Area**

Enter the name of each entity, including the respondent, that forms the planning area for which this report is being prepared and their coincident summer and winter peak demands in megawatts. Refer to the Form 714 instructions for specific guidelines.

Line No (a)	Electric Utility Name (b)	Electric Utility Coincident Peak Demand (MW)	
		Summer (c)	Winter (d)
1	Beltrami Electric Coop.	76	116
2	Cass County Electric Coop.	146	220
3	Cavaller Rural Electric Coop.	10	9
4	Clearwater Polk Electric Coop.	14	22
5	Nodak Electric Coop.	124	167
6	North Star Electric Coop.	18	34
7	PKM Electric Coop.	20	28
8	Red Lake Electric Coop.	22	35
9	Red River Electric Coop.	22	37
10	Roseau Electric Coop.	27	42
11	Wild Rice Electric Coop.	45	74
12	Northern Municipal Power Agency	72	95
13			
14			
15			
16			
17			
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19			
20			
21			
22			
23			
24			
25			
26			
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30			

**Annual Electric Balancing Authority Area and Planning  
Area Report**

For the Year Ending December 31, 2009

Utility Code: 12658  
Utility Name: Minnkota Power Cooperative, Inc.

Part III - Schedule 2. Planning Area Hourly Demand

Respondents must provide the following data: the planning area's actual hourly demand, in megawatts, for each hour of the year starting with 1 a.m. January 1 as more fully described in the Form 714 instructions. In column (b) indicate the time zone and the days for which daylight savings time was observed. This schedule will have 365 rows for the report year (366 rows for a leap year). For hours when this information is not available, enter "0.00" and provide, as a footnote to those hours, an explanation describing the reason for the unavailability of the data.

Date (a)	Time Zone (b)	0100 (c)	0200 (d)	0300 (e)	0400 (f)	0500 (g)	0600 (h)	0700 (i)	0800 (j)	0900 (k)	1000 (l)	1100 (m)	1200 (n)	1300 (o)	1400 (p)	1500 (q)	1600 (r)	1700 (s)	1800 (t)	1900 (u)	2000 (v)	2100 (w)	2200 (x)	2300 (y)	2400 (z)
01/01/2009	CST	704	684	666	650	641	643	645	610	612	624	627	628	682	670	670	681	708	723	726	722	709	691	659	705
01/02/2009	CST	694	588	688	691	706	733	772	766	765	760	731	705	749	741	738	749	777	772	767	753	738	714	678	719
01/03/2009	CST	699	680	669	663	660	664	674	655	668	675	677	671	717	696	677	679	697	708	705	701	691	674	649	695
01/04/2009	CST	682	676	680	688	699	715	742	731	741	734	718	705	764	752	738	742	777	801	807	814	799	773	731	777
01/05/2009	CST	768	761	755	755	765	796	841	742	803	808	766	734	785	776	765	767	792	790	793	787	770	742	698	733
01/06/2009	CST	713	699	688	685	688	688	713	779	774	736	719	700	720	699	688	706	738	749	751	744	729	706	667	705
01/07/2009	CST	689	679	673	673	678	707	781	781	744	723	702	678	726	716	707	716	753	774	784	779	765	735	692	724
01/08/2009	CST	706	693	685	682	695	729	803	800	764	735	699	673	718	689	683	707	747	757	766	762	750	724	679	714
01/09/2009	CST	698	684	674	670	675	704	769	766	735	721	708	694	740	727	715	717	735	738	741	731	722	701	672	718
01/10/2009	CST	703	692	689	684	684	696	716	706	721	711	689	668	719	704	691	695	707	701	692	677	660	637	607	643
01/11/2009	CST	626	612	603	599	602	614	635	633	648	638	611	597	644	620	608	621	661	687	696	694	680	653	611	648
01/12/2009	CST	629	618	609	609	620	655	736	742	722	716	711	695	744	733	730	744	763	809	805	776	815	803	754	802
01/13/2009	CST	793	793	794	793	801	833	903	787	679	659	757	807	865	857	846	843	858	839	845	831	811	787	744	786
01/14/2009	CST	776	770	766	771	782	820	894	894	848	821	789	764	817	809	798	791	611	586	577	565	641	636	825	861
01/15/2009	CST	848	837	831	828	831	859	895	716	697	674	666	673	673	674	661	669	613	585	571	558	600	617	641	667
01/16/2009	CST	661	659	665	666	664	659	644	643	666	714	858	824	870	852	829	822	830	803	796	776	752	722	679	710
01/17/2009	CST	682	661	646	638	639	646	669	662	675	681	671	656	692	667	646	643	652	645	643	628	616	599	569	604
01/18/2009	CST	583	563	555	553	553	561	574	570	578	574	552	554	603	594	582	584	607	626	638	630	618	601	574	611
01/19/2009	CST	598	586	580	579	582	607	658	656	643	642	642	635	679	669	660	662	670	668	677	666	648	622	578	611
01/20/2009	CST	598	590	584	585	595	631	707	709	671	653	624	594	632	608	593	602	629	645	661	652	637	612	573	600
01/21/2009	CST	581	571	567	566	575	608	684	690	647	615	594	559	588	566	555	564	591	616	638	638	633	614	573	607
01/22/2009	CST	591	583	579	580	590	620	668	640	608	594	648	625	660	640	626	629	650	632	570	628	647	623	588	620
01/23/2009	CST	608	608	617	633	654	695	776	765	754	729	703	685	741	729	718	724	751	759	777	771	763	744	717	769
01/24/2009	CST	762	753	753	754	760	776	801	782	794	784	754	725	769	747	724	725	753	762	781	778	771	752	721	775
01/25/2009	CST	766	756	751	749	750	760	774	755	765	750	718	694	753	732	708	706	733	751	778	783	774	753	716	763
01/26/2009	CST	757	750	752	755	763	799	873	868	829	794	762	736	781	763	744	743	767	780	811	809	797	774	730	775
01/27/2009	CST	767	762	760	761	769	803	873	864	816	780	747	710	752	733	713	711	735	745	779	780	766	740	697	736
01/28/2009	CST	722	712	702	696	697	721	787	777	729	710	692	677	716	694	677	676	689	680	692	693	688	662	621	661

Annual Electric Balancing Authority Area and Planning  
Area Report

Utility Code: 12658  
Utility Name: Minnkota Power Cooperative, Inc.

For the Year Ending December 31, 2009

Part III - Schedule 2. Planning Area Hourly Demand (continued)

Date (a)	Time Zone (b)	0100 (c)	0200 (d)	0300 (e)	0400 (f)	0500 (g)	0600 (h)	0700 (i)	0800 (j)	0900 (k)	1000 (l)	1100 (m)	1200 (n)	1300 (o)	1400 (p)	1500 (q)	1600 (r)	1700 (s)	1800 (t)	1900 (u)	2000 (v)	2100 (w)	2200 (x)	2300 (y)	2400 (z)
01/29/2009	CST	650	643	644	650	665	704	779	778	742	720	701	680	719	687	668	670	697	714	764	749	742	719	684	731
01/30/2009	CST	723	716	716	715	719	743	808	769	710	754	728	690	725	701	668	680	675	664	671	655	632	611	577	606
01/31/2009	CST	582	564	562	548	548	558	578	570	575	559	533	512	540	526	515	517	537	554	585	581	576	580	535	565
02/01/2009	CST	552	541	537	534	535	547	568	567	571	554	533	521	561	544	533	543	571	582	607	617	620	617	600	646
02/02/2009	CST	643	642	646	656	672	710	790	791	754	730	706	691	747	731	717	717	738	735	741	717	761	780	712	751
02/03/2009	CST	742	739	741	741	754	788	711	615	630	621	606	617	635	631	623	622	631	642	652	662	635	649	715	762
02/04/2009	CST	749	741	739	736	742	764	665	628	729	736	728	709	753	736	718	723	743	737	755	758	746	708	653	680
02/05/2009	CST	660	646	634	627	630	657	730	617	598	535	539	533	564	535	549	565	573	587	625	629	622	602	567	593
02/06/2009	CST	573	562	558	558	564	591	652	634	632	607	583	561	573	546	532	535	550	547	567	557	544	525	502	529
02/07/2009	CST	515	508	510	513	524	542	570	569	597	594	582	567	593	567	538	535	549	555	594	597	594	584	584	612
02/08/2009	CST	604	595	589	587	590	597	613	600	597	573	541	514	546	520	493	486	499	526	573	577	557	545	508	526
02/09/2009	CST	504	487	478	473	476	507	573	578	557	561	559	555	589	576	563	561	568	566	578	563	542	507	489	481
02/10/2009	CST	461	449	442	438	441	470	535	546	530	528	521	515	547	544	541	548	561	562	576	566	550	525	489	506
02/11/2009	CST	481	467	458	455	463	496	567	578	545	537	529	514	543	533	526	542	562	564	589	583	571	550	513	537
02/12/2009	CST	520	516	514	516	528	563	638	643	610	593	573	555	591	576	564	570	587	592	628	629	622	604	572	608
02/13/2009	CST	594	587	586	592	602	636	707	710	670	637	603	575	612	593	576	574	591	594	634	638	634	620	595	640
02/14/2009	CST	630	621	622	623	631	647	676	665	670	650	618	591	628	599	573	568	581	590	640	647	648	637	618	673
02/15/2009	CST	667	661	660	662	667	679	700	676	682	660	624	598	636	605	592	581	598	598	628	627	615	592	555	588
02/16/2009	CST	570	555	547	543	551	579	635	630	638	626	602	586	623	608	598	601	616	617	663	650	638	617	577	608
02/17/2009	CST	593	579	572	575	580	609	653	646	649	626	607	587	622	604	594	596	614	612	640	643	634	617	583	621
02/18/2009	CST	613	608	613	625	640	684	763	753	705	673	648	629	675	656	641	638	659	671	714	708	703	706	690	719
02/19/2009	CST	705	701	705	706	715	751	800	885	835	852	850	825	871	851	829	821	826	857	957	964	956	955	971	706
02/20/2009	CST	687	673	667	660	663	689	630	587	559	547	535	522	586	549	586	638	660	640	684	637	624	604	636	671
02/21/2009	CST	649	636	630	631	636	653	577	505	526	530	517	508	552	527	510	606	601	599	525	553	583	604	635	692
02/22/2009	CST	677	665	659	652	648	659	623	559	597	526	493	486	537	515	495	488	495	491	499	513	508	533	675	701
02/23/2009	CST	695	677	675	674	684	680	621	560	664	698	660	613	617	607	657	665	677	649	619	621	618	623	630	648
02/24/2009	CST	623	604	595	592	598	623	571	551	531	552	531	568	586	561	546	551	565	501	522	527	596	587	538	549
02/25/2009	CST	523	517	521	530	551	593	676	673	640	617	599	581	619	600	588	591	615	631	663	694	701	681	642	686
02/26/2009	CST	674	664	660	658	669	689	769	758	734	729	722	705	753	733	715	718	726	718	762	770	763	740	703	753
02/27/2009	CST	745	737	734	735	745	775	731	718	761	726	694	666	640	626	619	631	637	630	639	657	694	711	684	741
02/28/2009	CST	733	726	723	721	722	736	732	718	715	693	680	628	665	636	611	603	616	612	661	679	677	666	641	691
03/01/2009	CST	685	680	680	684	694	710	736	698	634	643	637	614	665	649	633	635	649	643	676	692	685	662	628	671
03/02/2009	CST	663	656	656	662	672	707	778	754	709	674	639	613	648	628	611	603	615	612	656	669	658	636	598	629
03/03/2009	CST	614	604	600	597	602	630	699	684	637	605	577	555	582	560	545	543	564	572	610	623	613	588	546	569

**Annual Electric Balancing Authority Area and Planning  
 Area Report**

Utility Code: 12658  
 Utility Name: Minnkota Power Cooperative, Inc.

**For the Year Ending December 31, 2009**

**Part III - Schedule 2. Planning Area Hourly Demand (continued)**

Date (a)	Time Zone (b)	0100 (c)	0200 (d)	0300 (e)	0400 (f)	0500 (g)	0600 (h)	0700 (i)	0800 (j)	0900 (k)	1000 (l)	1100 (m)	1200 (n)	1300 (o)	1400 (p)	1500 (q)	1600 (r)	1700 (s)	1800 (t)	1900 (u)	2000 (v)	2100 (w)	2200 (x)	2300 (y)	2400 (z)
03/04/2009	CST	533	539	537	538	546	578	652	644	599	563	538	515	537	519	506	512	528	526	559	578	569	542	504	518
03/05/2009	CST	502	490	484	483	492	526	595	593	558	532	506	484	501	478	466	466	482	491	524	535	525	505	469	482
03/06/2009	CST	466	457	459	463	476	515	587	591	567	552	538	525	561	546	532	534	553	554	585	600	584	579	555	584
03/07/2009	CST	582	574	572	577	587	605	638	617	609	594	573	548	575	545	517	506	510	511	560	591	593	582	567	616
03/08/2009	CST	609	603	0	600	601	609	621	608	619	609	595	565	600	572	544	527	526	514	525	550	556	536	500	512
03/09/2009	CST	489	479	471	473	489	523	597	625	607	606	602	591	631	623	614	616	633	623	636	652	661	640	607	644
03/10/2009	CST	633	627	630	635	647	673	729	732	731	738	739	739	798	774	760	754	755	726	737	754	760	744	707	745
03/11/2009	CST	733	722	720	722	728	746	784	740	784	754	716	705	748	724	698	680	678	651	671	720	748	735	702	749
03/12/2009	CST	742	739	739	742	750	779	835	823	805	761	722	685	725	693	659	637	633	603	619	659	686	673	639	674
03/13/2009	CST	659	651	648	646	653	683	749	750	706	664	624	588	613	581	551	531	527	504	511	543	565	555	527	552
03/14/2009	CST	532	516	510	508	513	525	546	542	551	532	504	478	491	460	435	424	419	409	418	444	471	466	448	470
03/15/2009	CST	456	448	448	453	460	473	494	496	499	478	455	435	460	438	418	410	411	407	422	455	481	465	432	434
03/16/2009	CST	414	409	414	420	435	470	549	571	541	507	485	468	483	465	451	442	442	433	445	466	492	479	444	444
03/17/2009	CST	427	420	418	420	431	466	545	566	529	498	477	462	480	466	457	449	448	438	449	473	504	497	467	481
03/18/2009	CST	466	458	460	467	483	520	604	617	579	550	537	523	557	542	525	515	519	509	523	556	590	579	546	572
03/19/2009	CST	561	554	555	562	576	610	686	689	646	607	578	552	583	561	535	523	520	508	521	548	574	560	525	537
03/20/2009	CST	514	503	500	502	506	535	595	608	588	573	548	524	539	510	484	474	464	442	443	457	483	473	450	462
03/21/2009	CST	444	433	452	449	453	468	485	491	510	522	516	505	520	492	468	458	456	445	449	464	485	477	455	473
03/22/2009	CST	463	441	438	435	436	449	471	475	490	491	476	466	497	484	466	461	467	470	481	498	506	493	460	471
03/23/2009	CST	454	444	438	437	442	470	538	538	535	527	525	517	545	537	524	525	530	518	521	525	527	507	469	476
03/24/2009	CST	452	440	433	434	438	467	536	552	521	514	513	508	536	533	527	527	537	531	535	550	558	538	483	490
03/25/2009	CST	469	461	459	462	473	505	572	574	552	556	551	542	579	568	555	553	560	545	559	575	599	585	545	573
03/26/2009	CST	554	542	540	541	550	578	642	620	577	593	579	554	578	563	546	546	559	550	564	586	612	601	568	595
03/27/2009	CST	577	567	564	566	575	603	661	618	584	562	556	575	578	547	520	506	508	488	497	523	563	565	550	589
03/28/2009	CST	577	572	574	579	591	607	632	610	608	593	564	533	552	519	485	465	460	448	454	473	510	514	496	527
03/29/2009	CST	521	516	516	520	526	539	560	548	550	533	507	482	506	477	449	435	435	432	446	468	498	490	462	479
03/30/2009	CST	465	455	457	458	469	500	565	565	551	540	525	505	531	514	502	508	516	505	512	518	532	522	486	500
03/31/2009	CST	481	472	467	471	481	511	580	581	564	563	557	546	571	545	528	527	536	526	530	534	541	524	485	500
04/01/2009	CST	474	463	456	456	461	488	553	551	533	518	506	488	501	480	469	469	476	466	473	493	519	512	478	497
04/02/2009	CST	481	468	463	464	473	504	569	568	539	515	495	480	501	483	464	459	466	459	468	480	508	500	470	483
04/03/2009	CST	465	458	459	464	475	507	560	547	574	536	503	478	494	475	467	461	449	438	443	455	479	475	454	470
04/04/2009	CST	453	445	442	442	449	460	486	485	468	493	479	467	482	456	436	428	431	425	432	448	481	484	465	492
04/05/2009	CST	479	473	476	480	486	502	523	512	515	492	467	454	477	461	443	435	436	436	452	477	517	513	484	502
04/06/2009	CST	489	486	486	493	500	533	609	601	562	532	511	493	520	507	491	481	477	463	469	486	522	520	484	496

**Annual Electric Balancing Authority Area and Planning  
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For the Year Ending December 31, 2009

Part III - Schedule 2. Planning Area Hourly Demand (continued)

Date (a)	Time Zone (b)	0100 (c)	0200 (d)	0300 (e)	0400 (f)	0500 (g)	0600 (h)	0700 (i)	0800 (j)	0900 (k)	1000 (l)	1100 (m)	1200 (n)	1300 (o)	1400 (p)	1500 (q)	1600 (r)	1700 (s)	1800 (t)	1900 (u)	2000 (v)	2100 (w)	2200 (x)	2300 (y)	2400 (z)
04/07/2009	CST	480	474	475	480	494	530	604	601	551	514	491	474	490	470	455	449	445	436	441	453	489	488	457	464
04/08/2009	CST	450	444	446	455	469	503	574	572	534	506	483	465	487	471	455	453	458	451	455	465	494	490	457	462
04/09/2009	CST	444	444	445	451	466	504	575	567	526	498	481	458	487	471	455	444	443	432	434	444	478	487	460	468
04/10/2009	CST	455	450	450	456	469	498	545	539	521	503	487	470	481	463	439	424	419	405	405	409	436	438	418	428
04/11/2009	CST	413	409	410	415	422	441	466	462	468	455	452	437	448	424	404	391	389	382	384	391	415	419	400	404
04/12/2009	CST	384	373	375	379	387	406	435	444	452	441	423	406	410	380	366	362	366	366	381	400	423	414	385	392
04/13/2009	CST	365	358	357	361	372	405	473	492	483	480	472	464	480	463	450	442	441	434	440	445	465	457	414	404
04/14/2009	CST	384	377	378	378	388	425	497	512	485	470	455	439	448	430	416	407	403	396	395	397	425	428	392	379
04/15/2009	CST	357	352	354	361	376	415	486	497	464	444	428	419	431	416	402	397	396	391	391	395	421	426	385	365
04/16/2009	CST	344	338	338	343	354	389	461	483	464	453	444	434	443	429	419	413	405	400	404	407	427	422	383	362
04/17/2009	CST	340	331	328	326	336	369	434	460	442	436	431	424	433	424	408	405	406	400	400	403	415	413	392	390
04/18/2009	CST	373	366	366	370	381	396	424	440	471	485	486	478	489	470	453	447	449	443	444	444	457	455	431	440
04/19/2009	CST	422	411	408	406	409	418	436	441	457	451	438	432	452	435	417	411	417	425	430	438	444	444	412	408
04/20/2009	CST	390	381	383	390	402	439	512	536	522	513	507	497	513	495	472	459	457	444	441	448	468	475	438	433
04/21/2009	CST	417	413	413	416	427	458	524	522	481	457	443	428	438	424	415	409	406	400	403	404	426	437	400	387
04/22/2009	CST	370	366	374	383	397	440	511	517	480	459	438	430	425	441	429	423	425	421	424	425	440	446	411	399
04/23/2009	CST	377	369	371	375	385	418	482	498	456	442	432	416	422	404	396	396	395	390	393	399	413	415	375	352
04/24/2009	CST	336	331	332	336	348	382	455	487	476	478	479	476	489	490	478	477	466	474	467	459	467	468	443	452
04/25/2009	CST	432	419	416	416	423	437	460	466	474	467	462	454	460	437	415	403	398	392	391	394	410	427	407	407
04/26/2009	CST	391	385	372	365	372	384	396	410	430	437	434	440	467	460	453	452	460	461	467	469	473	464	433	430
04/27/2009	CST	411	401	399	402	411	442	509	524	508	499	486	471	482	484	447	438	438	431	431	428	445	455	421	410
04/28/2009	CST	395	391	392	398	412	449	512	517	478	454	432	420	438	426	412	406	403	397	399	402	421	430	391	370
04/29/2009	CST	349	342	340	343	355	389	458	480	457	453	449	448	456	448	449	454	468	470	468	463	464	454	410	392
04/30/2009	CST	366	353	346	347	356	390	454	473	455	446	440	438	459	452	447	452	463	467	463	461	468	470	436	399
05/01/2009	CST	381	375	380	383	394	428	487	512	478	459	443	429	414	402	391	386	391	395	392	389	403	423	404	377
05/02/2009	CST	359	355	358	366	373	388	404	422	431	429	416	402	386	373	362	362	367	369	369	365	373	392	378	356
05/03/2009	CST	343	340	343	350	368	371	379	396	403	397	385	374	368	358	348	340	346	354	358	367	380	400	370	332
05/04/2009	CST	314	313	316	323	339	375	437	465	439	424	415	403	395	391	382	381	380	382	385	390	401	409	368	325
05/05/2009	CST	306	296	295	295	303	332	399	439	425	421	416	413	406	402	395	392	392	395	394	391	399	412	369	330
05/06/2009	CST	309	305	308	310	321	352	408	438	412	398	392	388	380	373	370	368	368	369	368	368	375	393	357	314
05/07/2009	CST	291	287	289	291	301	334	397	432	415	407	409	407	398	396	390	387	393	399	403	406	415	432	397	358
05/08/2009	CST	341	333	335	340	350	385	447	492	477	466	460	448	434	422	411	412	420	425	425	429	438	449	423	394
05/09/2009	CST	377	369	370	368	374	391	408	437	462	472	470	463	453	437	425	422	422	429	434	436	439	448	424	397
05/10/2009	CST	384	376	375	379	384	399	406	420	427	419	405	388	375	361	347	339	339	344	352	361	382	403	375	339

**Part III - Schedule 2. Planning Area Hourly Demand (continued)**

Date (a)	Time Zone (b)	0100 (c)	0200 (d)	0300 (e)	0400 (f)	0500 (g)	0600 (h)	0700 (i)	0800 (j)	0900 (k)	1000 (l)	1100 (m)	1200 (n)	1300 (o)	1400 (p)	1500 (q)	1600 (r)	1700 (s)	1800 (t)	1900 (u)	2000 (v)	2100 (w)	2200 (x)	2300 (y)	2400 (z)
05/11/2009	CST	322	319	321	327	341	375	435	465	436	424	415	408	396	389	379	369	367	372	380	384	389	397	366	326
05/12/2009	CST	305	296	294	298	306	336	399	443	427	419	417	413	407	400	399	399	404	411	413	401	405	403	363	321
05/13/2009	CST	302	293	286	284	288	316	378	417	399	396	392	386	381	377	372	373	380	388	396	406	415	423	392	361
05/14/2009	CST	346	344	349	357	370	401	475	527	514	506	494	479	465	447	429	414	405	403	404	410	424	442	419	379
05/15/2009	CST	358	349	348	349	360	385	437	469	447	428	413	403	398	397	395	401	414	428	436	439	445	453	433	403
05/16/2009	CST	389	383	365	391	401	421	437	453	462	460	452	440	422	406	385	375	367	365	364	365	378	400	387	363
05/17/2009	CST	351	346	346	350	358	368	375	394	400	395	387	384	378	366	357	346	338	347	356	364	375	388	366	324
05/18/2009	CST	302	295	294	299	309	337	400	435	417	407	400	395	392	388	382	378	378	379	383	380	385	403	375	336
05/19/2009	CST	315	306	303	311	324	357	422	459	440	427	419	413	406	402	391	387	366	387	386	385	391	411	387	339
05/20/2009	CST	312	302	294	295	303	329	386	420	398	392	389	387	383	376	372	370	368	371	374	370	372	391	370	322
05/21/2009	CST	293	282	278	278	287	310	372	410	395	387	384	381	376	373	366	361	362	363	362	363	374	398	379	336
05/22/2009	CST	308	295	290	292	299	327	383	425	424	420	411	401	389	371	363	360	359	360	362	369	378	368	337	
05/23/2009	CST	316	307	302	304	314	325	341	372	398	408	403	392	374	359	344	338	335	334	339	341	346	362	361	329
05/24/2009	CST	306	298	299	304	310	315	321	335	349	355	350	345	344	330	318	317	315	319	321	324	329	345	335	305
05/25/2009	CST	279	263	260	253	253	263	272	296	331	373	389	398	396	389	377	373	375	382	384	389	383	365	354	313
05/26/2009	CST	292	283	278	277	278	307	367	417	415	417	417	418	414	407	400	401	404	405	403	402	400	406	378	334
05/27/2009	CST	312	303	300	298	306	334	398	430	411	402	400	389	380	383	373	366	369	371	372	369	374	391	373	327
05/28/2009	CST	298	288	279	279	288	308	366	402	394	391	388	385	381	377	373	370	368	368	368	370	376	386	368	325
05/29/2009	CST	296	286	283	284	293	311	364	399	395	391	387	382	378	373	362	357	355	347	345	339	336	344	341	308
05/30/2009	CST	281	268	262	261	267	271	290	321	349	362	365	360	353	341	330	327	328	327	328	328	328	346	345	318
05/31/2009	CST	293	278	272	269	273	278	284	314	340	355	361	366	368	365	351	333	335	343	349	353	364	363	349	308
06/01/2009	CST	281	269	268	266	275	296	348	388	392	395	395	396	390	385	370	368	366	361	362	363	368	377	362	316
06/02/2009	CST	287	273	270	263	269	290	346	389	383	386	385	382	379	375	360	356	356	359	351	361	365	377	366	321
06/03/2009	CST	300	290	289	289	299	323	376	404	393	386	381	379	373	369	361	358	358	358	360	355	358	371	359	313
06/04/2009	CST	282	269	262	262	268	286	331	367	369	372	371	372	375	376	371	363	361	360	361	362	364	375	352	309
06/05/2009	CST	283	271	263	263	267	282	328	372	381	382	382	380	371	367	361	360	356	352	348	343	346	362	360	331
06/06/2009	CST	310	305	302	304	309	313	329	356	379	395	399	395	395	376	365	363	362	368	371	371	371	373	358	327
06/07/2009	CST	307	295	291	289	291	292	296	318	341	355	356	356	354	345	336	335	337	346	348	354	357	362	345	304
06/08/2009	CST	282	273	270	271	278	302	352	398	409	415	423	420	414	409	406	402	400	402	401	393	384	387	368	331
06/09/2009	CST	311	301	296	295	302	321	370	405	406	404	402	400	393	385	376	368	364	365	366	367	370	381	362	319
06/10/2009	CST	292	284	281	281	293	312	359	389	383	381	378	376	364	370	364	362	361	360	358	352	356	366	358	317
06/11/2009	CST	291	280	276	277	286	305	355	387	386	384	382	379	373	370	362	356	350	350	346	346	352	369	347	304
06/12/2009	CST	275	268	266	262	265	280	324	365	375	372	375	374	368	369	361	354	352	352	349	343	335	343	339	305
06/13/2009	CST	277	263	255	253	253	253	270	300	330	346	354	353	348	342	334	333	334	339	342	341	334	336	335	307

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For the Year Ending December 31, 2009

Utility Code: 12658  
 Utility Name: Minnkota Power Cooperative, Inc.

Part III - Schedule 2. Planning Area Hourly Demand (continued)

Date	Time Zone	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)	
06/14/2009	CST	280	282	250	245	247	241	245	268	298	317	328	336	340	340	338	342	349	360	366	368	368	370	360	314	
06/15/2009	CST	280	283	255	250	255	284	309	354	368	380	393	398	400	402	397	395	388	389	389	395	389	389	395	374	326
06/16/2009	CST	299	283	271	266	269	281	326	369	378	386	396	398	403	400	397	395	394	397	397	397	392	390	379	353	311
06/17/2009	CST	283	266	260	255	258	274	318	361	370	376	380	383	384	387	386	387	388	387	387	385	382	382	390	372	322
06/18/2009	CST	284	267	256	252	257	274	319	364	381	392	399	413	418	416	412	403	397	392	396	396	390	383	380	356	316
06/19/2009	CST	293	276	264	259	261	271	309	355	373	390	403	407	409	414	415	411	410	409	405	405	392	378	374	368	330
06/20/2009	CST	296	278	277	270	271	265	276	306	347	377	391	398	397	399	401	407	412	418	414	414	401	391	383	375	335
06/21/2009	CST	303	283	270	263	260	252	258	285	317	345	362	372	379	375	369	366	364	371	369	367	363	365	346	307	307
06/22/2009	CST	281	269	265	261	261	277	320	365	380	388	397	409	415	421	423	432	438	446	446	452	447	429	435	419	366
06/23/2009	CST	327	305	292	286	290	300	351	401	418	439	442	438	434	437	439	448	454	468	468	465	454	441	422	405	345
06/24/2009	CST	302	285	273	267	268	279	322	363	376	397	413	426	431	432	426	426	431	438	435	428	428	415	414	399	346
06/25/2009	CST	302	287	278	271	272	282	330	377	404	422	412	446	454	457	458	461	467	471	471	471	461	447	434	419	363
06/26/2009	CST	320	296	281	277	276	285	325	369	392	410	428	441	451	457	462	466	465	455	448	426	426	413	409	385	344
06/27/2009	CST	313	294	301	293	293	285	297	322	350	374	382	391	393	381	376	371	365	363	352	339	328	326	326	301	301
06/28/2009	CST	277	255	254	255	255	250	263	281	314	335	346	353	358	358	354	355	364	375	380	379	374	369	354	313	313
06/29/2009	CST	282	269	262	259	262	277	316	359	371	381	388	393	390	390	385	387	389	392	395	391	386	386	371	326	326
06/30/2009	CST	283	276	269	267	271	285	328	367	377	387	390	392	393	394	402	405	409	416	418	413	413	410	412	392	329
07/01/2009	CST	295	279	268	262	266	276	320	363	374	386	392	390	395	396	396	401	404	409	410	405	398	396	387	338	338
07/02/2009	CST	299	278	269	263	265	273	308	351	369	383	396	396	412	424	425	429	432	435	430	417	403	395	389	350	350
07/03/2009	CST	314	290	277	269	267	262	271	305	340	368	382	387	386	383	380	382	383	383	376	362	362	350	343	340	311
07/04/2009	CST	280	261	252	244	242	235	242	272	314	343	357	360	359	356	350	349	354	363	355	345	331	314	310	303	303
07/05/2009	CST	285	266	255	248	244	237	238	263	296	327	349	363	370	369	368	373	384	397	399	398	388	386	369	325	325
07/06/2009	CST	289	274	265	263	264	279	317	356	375	400	421	433	442	443	443	447	450	455	455	446	432	425	405	348	348
07/07/2009	CST	307	287	277	271	272	282	322	364	384	401	413	420	423	421	418	418	420	424	421	413	405	398	383	333	333
07/08/2009	CST	296	277	265	261	266	279	319	360	379	394	402	409	420	426	427	432	439	443	440	429	417	415	411	391	338
07/09/2009	CST	304	285	274	268	266	285	324	362	378	392	403	414	420	436	443	447	452	456	448	434	419	413	400	350	350
07/10/2009	CST	312	289	272	268	271	281	315	358	375	393	403	412	413	413	405	405	402	396	386	375	366	362	351	311	311
07/11/2009	CST	286	268	258	253	254	254	261	293	324	347	358	359	353	349	343	343	349	357	354	347	342	344	338	307	307
07/12/2009	CST	281	265	256	251	250	247	247	272	300	319	332	343	348	349	348	351	362	375	382	379	368	364	351	304	304
07/13/2009	CST	272	260	253	250	258	273	308	350	366	377	387	392	395	399	392	391	393	395	392	384	380	385	363	317	317
07/14/2009	CST	287	273	263	259	262	273	313	358	369	382	392	396	389	389	389	395	394	394	393	392	386	379	358	310	310
07/15/2009	CST	282	266	260	250	260	273	313	353	363	370	376	380	377	377	372	372	371	374	373	365	360	366	348	305	305
07/16/2009	CST	278	263	260	257	259	276	316	360	372	379	366	388	383	382	375	372	373	372	370	369	369	373	351	313	313
07/17/2009	CST	287	273	265	261	265	281	319	359	374	384	389	393	387	382	374	373	373	370	362	351	344	349	341	310	310

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Utility Code: 12658  
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Part III - Schedule 2. Planning Area Hourly Demand (continued)

Date	Time Zone	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
07/19/2009	CST	266	271	265	259	262	266	272	303	335	359	365	364	366	350	346	346	349	355	356	354	344	348	336	303
07/19/2009	CST	266	271	262	255	255	257	255	283	313	332	345	353	360	361	361	366	375	384	385	385	379	378	359	314
07/20/2009	CST	279	262	252	251	252	272	313	351	364	388	401	409	413	414	411	409	411	425	427	419	405	402	374	329
07/21/2009	CST	299	282	271	263	267	285	322	360	379	393	405	411	414	419	417	420	422	423	423	417	408	411	384	331
07/22/2009	CST	297	279	267	262	263	281	319	361	373	386	398	411	419	424	422	420	422	425	423	411	398	404	375	326
07/23/2009	CST	307	292	282	277	275	290	326	366	384	399	410	419	428	432	437	447	452	452	450	447	440	439	413	364
07/24/2009	CST	326	309	301	295	294	304	332	377	405	415	423	428	429	427	424	423	417	414	407	393	381	379	363	328
07/25/2009	CST	298	278	269	264	263	267	267	295	332	358	371	372	371	369	366	371	377	385	385	374	361	362	350	314
07/26/2009	CST	287	270	260	254	253	254	251	275	307	335	355	373	386	393	396	402	417	427	429	425	415	420	388	334
07/27/2009	CST	303	284	274	270	271	291	324	361	384	408	424	434	437	442	440	443	444	443	436	424	408	405	373	321
07/28/2009	CST	289	271	262	260	261	279	315	350	364	379	390	392	397	397	392	393	395	400	400	393	388	396	369	319
07/29/2009	CST	288	273	266	268	262	278	316	351	362	372	379	383	387	386	382	382	386	389	382	375	371	377	349	307
07/30/2009	CST	276	264	258	253	256	276	312	353	365	383	390	389	386	386	379	378	378	382	382	381	379	389	363	318
07/31/2009	CST	287	271	263	259	262	279	309	343	364	374	374	377	380	376	370	363	357	352	346	338	331	341	320	289
08/01/2009	CST	268	256	249	244	243	252	258	283	314	338	347	348	341	334	326	322	323	330	333	326	321	334	318	291
08/02/2009	CST	267	255	248	244	243	247	249	267	298	321	333	342	349	345	337	340	344	351	356	356	354	364	339	300
08/03/2009	CST	274	261	255	252	256	276	311	350	365	379	392	400	402	407	403	402	401	401	392	384	375	382	350	304
08/04/2009	CST	276	265	258	250	255	275	313	353	362	372	380	378	385	386	384	382	382	385	386	381	378	389	360	314
08/05/2009	CST	284	269	260	256	259	279	318	354	361	371	379	384	382	383	383	384	386	386	384	379	375	389	368	316
08/06/2009	CST	287	270	262	259	261	283	320	357	369	379	388	397	394	392	395	396	393	389	386	377	377	390	360	316
08/07/2009	CST	284	267	259	258	259	277	312	349	364	374	385	388	387	381	389	364	361	360	357	348	348	359	336	305
08/08/2009	CST	282	269	261	275	272	284	290	310	344	372	384	390	386	377	366	375	376	383	379	372	370	371	326	295
08/09/2009	CST	270	256	247	241	241	247	241	261	293	315	327	342	350	352	354	357	365	377	378	377	373	383	349	303
08/10/2009	CST	273	258	251	248	251	272	309	348	370	392	411	425	434	439	441	446	452	457	454	442	430	434	387	333
08/11/2009	CST	298	276	266	260	262	283	318	357	375	394	416	433	444	460	460	464	464	449	415	439	443	450	406	348
08/12/2009	CST	315	293	285	278	277	297	330	366	389	411	433	454	469	483	465	434	444	453	453	458	473	476	440	381
08/13/2009	CST	342	321	306	292	289	310	348	390	411	435	457	478	487	493	494	500	484	452	450	474	481	488	442	389
08/14/2009	CST	353	328	308	300	298	314	347	388	407	427	441	454	460	472	475	485	487	476	457	442	437	417	375	332
08/15/2009	CST	304	285	273	269	267	271	282	303	335	365	383	391	387	386	379	374	378	384	385	379	371	372	348	320
08/16/2009	CST	290	275	268	261	257	260	264	277	304	328	341	353	365	365	359	360	363	371	371	360	358	365	329	287
08/17/2009	CST	261	249	242	240	244	265	302	338	354	369	378	385	381	378	373	371	373	373	374	372	378	381	341	299
08/18/2009	CST	273	260	254	251	256	279	320	353	361	371	378	384	387	390	390	394	398	403	404	395	396	403	359	314
08/19/2009	CST	266	272	264	259	257	279	323	352	358	367	373	366	372	376	370	370	369	371	372	368	373	370	331	292
08/20/2009	CST	272	262	254	249	251	272	317	351	364	373	379	384	382	382	371	375	371	372	374	368	377	372	333	297

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 Utility Name: Minnkota Power Cooperative, Inc.

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Date	Time Zone	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)		
08/21/2009	CST	274	262	253	250	251	270	315	349	362	371	375	374	372	368	359	355	351	349	347	338	341	348	322	289		
08/22/2009	CST	265	252	246	243	243	252	261	280	310	331	336	339	334	329	321	321	329	329	335	335	331	334	333	309	277	
08/23/2009	CST	256	243	239	237	237	241	243	261	292	315	327	342	354	358	364	375	387	387	401	407	403	408	410	363	314	
08/24/2009	CST	266	269	264	259	263	281	325	359	372	388	399	412	419	424	427	431	434	441	445	440	441	427	373	320		
08/25/2009	CST	288	273	264	259	260	279	326	359	364	376	388	400	409	414	415	420	424	430	427	418	418	421	365	309		
08/26/2009	CST	282	267	259	256	258	281	330	361	365	380	391	398	404	412	417	425	435	444	443	429	430	422	369	318		
08/27/2009	CST	291	274	266	257	256	277	327	360	365	379	387	394	400	406	402	405	406	411	410	410	410	410	410	362	318	
08/28/2009	CST	292	272	260	253	253	275	329	365	371	376	379	382	379	374	369	368	368	368	364	364	354	358	359	332	303	
08/29/2009	CST	280	270	261	250	262	267	282	305	336	355	362	362	352	347	337	334	336	341	342	342	336	350	349	322	293	
09/30/2009	CST	277	267	260	258	258	264	270	290	318	331	337	339	343	340	337	337	342	356	363	363	382	375	334	290		
09/31/2009	CST	266	257	252	250	258	286	341	375	376	381	386	390	390	391	390	392	396	400	406	403	418	406	359	314		
09/01/2009	CST	288	274	268	268	273	296	349	381	380	383	390	390	391	396	396	404	407	412	412	406	422	411	367	318		
09/02/2009	CST	292	282	275	271	275	299	353	383	382	389	389	389	402	403	402	409	413	417	419	420	420	423	373	330		
09/03/2009	CST	303	290	281	276	279	304	361	395	398	405	413	419	425	432	433	435	445	448	448	448	437	451	437	390	343	
09/04/2009	CST	314	299	291	285	287	306	352	387	391	406	420	428	432	435	432	436	439	439	439	430	411	416	405	372	335	
09/05/2009	CST	308	293	284	280	280	284	296	315	350	371	388	394	397	397	395	403	410	414	414	402	411	405	396	365	329	
09/06/2009	CST	308	293	282	276	276	281	288	306	340	367	384	397	410	413	415	419	427	434	427	413	419	405	367	332	332	
09/07/2009	CST	307	294	287	282	283	287	294	310	348	383	408	424	425	428	431	440	447	458	462	461	479	450	392	345	345	
09/08/2009	CST	320	308	302	296	296	323	394	428	422	421	424	425	419	413	409	407	404	410	412	421	421	405	361	318	318	
09/09/2009	CST	293	285	278	275	275	300	365	396	386	392	406	412	418	426	427	436	446	454	453	443	459	432	377	333	333	
09/10/2009	CST	310	295	285	279	284	311	376	405	397	403	412	421	431	443	451	460	469	469	465	459	473	444	395	345	345	
09/11/2009	CST	314	297	288	282	285	307	368	410	402	407	409	412	409	411	411	409	412	415	409	400	413	396	365	334	334	
09/12/2009	CST	308	295	295	291	291	299	313	329	360	384	396	398	403	402	403	408	409	416	416	413	407	395	356	330	330	
09/13/2009	CST	309	294	285	278	278	280	288	303	335	358	379	400	419	425	427	435	444	453	452	452	453	467	433	383	339	339
09/14/2009	CST	312	299	290	287	290	314	379	414	413	422	437	450	456	463	468	475	480	483	482	481	495	461	409	362	362	
09/15/2009	CST	333	319	307	303	307	330	395	423	411	420	431	437	450	457	463	471	479	486	486	486	504	468	413	362	362	
09/16/2009	CST	332	318	304	297	300	322	389	425	413	420	432	436	445	455	460	467	474	481	478	480	499	467	414	368	368	
09/17/2009	CST	339	324	313	308	310	334	400	436	426	434	445	450	464	476	484	493	500	503	494	490	506	472	419	374	374	
09/18/2009	CST	342	327	317	312	312	334	397	431	427	435	442	454	469	483	488	494	497	499	491	480	480	449	417	373	373	
09/19/2009	CST	344	330	319	316	315	322	340	358	389	417	438	452	461	466	468	475	479	478	471	462	462	439	402	365	365	
09/20/2009	CST	340	327	317	311	310	313	323	338	369	390	402	416	425	428	427	434	429	440	442	442	452	462	431	388	347	347
09/21/2009	CST	324	319	319	320	321	345	410	445	437	444	446	437	421	421	414	412	415	422	431	442	442	442	412	371	334	334
09/22/2009	CST	311	302	295	289	290	316	383	425	408	409	410	408	407	403	400	401	403	410	412	412	428	441	414	375	333	333
09/23/2009	CST	314	304	297	296	301	331	403	438	417	415	415	418	419	417	422	423	425	430	430	434	448	454	435	385	343	343

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**Part III - Schedule 2: Planning Area Hourly Demand (continued)**

Date	Time Zone	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)	
09/24/2009	CST	318	300	295	296	305	332	400	435	422	420	426	426	427	432	434	437	441	444	449	461	472	439	398	354	
09/25/2009	CST	329	316	305	300	305	330	393	430	421	426	431	434	436	438	434	437	439	436	427	432	436	411	380	346	
09/26/2009	CST	323	309	303	298	298	308	327	353	382	402	406	407	407	405	402	404	405	411	409	421	424	401	369	338	
09/27/2009	CST	311	300	291	285	283	287	299	322	352	373	381	388	390	395	373	372	383	393	401	424	425	399	360	325	
09/28/2009	CST	308	301	298	298	306	336	407	452	443	444	446	439	433	428	417	411	412	419	428	458	468	443	402	365	
09/29/2009	CST	344	337	334	333	341	374	453	497	459	445	434	424	419	413	406	403	403	411	423	464	475	451	409	372	
09/30/2009	CST	353	345	340	341	353	386	463	497	471	457	447	432	423	418	410	406	404	423	438	471	472	446	403	366	
10/01/2009	CST	350	335	326	323	327	359	431	476	454	454	452	449	443	439	431	431	441	455	466	480	468	443	402	366	
10/02/2009	CST	345	339	333	330	337	364	433	476	458	456	451	440	429	425	417	418	422	425	429	443	439	423	397	371	
10/03/2009	CST	349	340	335	334	336	347	372	400	426	441	442	434	422	415	411	405	408	414	424	443	436	417	391	363	
10/04/2009	CST	345	336	330	331	332	342	368	382	404	413	415	413	415	409	402	401	406	415	432	460	451	425	387	354	
10/05/2009	CST	337	332	330	332	340	371	444	484	468	464	462	459	452	445	441	441	441	449	460	477	493	473	450	414	385
10/06/2009	CST	362	353	347	344	351	383	456	498	478	475	473	466	457	450	444	441	441	443	451	465	493	487	471	432	398
10/07/2009	CST	378	372	367	369	378	411	485	520	491	476	475	463	451	445	442	442	455	461	472	484	498	470	432	399	
10/08/2009	CST	384	379	375	377	386	419	490	530	502	544	524	502	485	473	468	469	476	480	488	527	535	513	476	444	
10/09/2009	CST	432	426	424	428	437	470	542	570	544	524	502	486	472	473	472	467	470	481	493	509	525	519	509	483	458
10/10/2009	CST	447	442	446	467	474	490	507	534	553	568	571	564	549	535	525	522	522	522	527	533	545	533	511	484	457
10/11/2009	CST	440	431	428	428	434	444	461	492	512	516	512	505	504	500	494	492	495	495	509	520	549	534	511	477	445
10/12/2009	CST	430	424	426	431	441	473	544	580	553	548	543	529	518	513	509	507	513	519	537	563	555	545	507	474	
10/13/2009	CST	462	461	461	467	479	515	591	623	582	566	531	510	498	487	480	485	483	504	517	549	540	525	483	464	
10/14/2009	CST	453	450	449	450	460	492	558	598	547	533	525	531	532	523	511	515	522	534	541	548	544	516	475	442	
10/15/2009	CST	422	417	410	413	421	449	503	534	528	527	527	532	532	522	514	505	507	509	519	530	540	526	500	461	428
10/16/2009	CST	408	399	394	394	401	429	486	525	522	524	521	511	498	484	477	471	469	475	485	503	540	492	475	451	425
10/17/2009	CST	407	400	399	400	407	421	448	476	496	511	515	510	495	479	466	459	455	463	483	509	499	484	456	432	
10/18/2009	CST	416	407	404	405	408	417	431	459	473	463	448	437	424	402	385	382	386	400	430	464	453	475	387	354	
10/19/2009	CST	338	336	337	343	355	385	456	504	485	482	481	476	461	455	452	444	442	457	491	518	505	480	442	405	
10/20/2009	CST	388	381	375	374	380	413	485	528	505	499	495	487	482	484	479	479	487	497	511	517	503	479	440	407	
10/21/2009	CST	392	386	382	383	388	419	487	530	510	508	507	509	498	492	483	481	488	500	514	525	510	482	450	418	
10/22/2009	CST	401	397	396	398	409	443	507	550	533	516	505	491	476	464	453	449	455	468	500	530	520	497	463	431	
10/23/2009	CST	418	416	415	419	434	468	531	577	566	548	527	511	493	485	472	463	457	460	486	514	506	489	463	437	
10/24/2009	CST	421	411	409	410	414	428	459	497	513	525	520	515	499	483	466	463	463	469	481	487	476	458	435	408	
10/25/2009	CST	389	383	380	381	384	394	414	447	469	475	477	479	471	465	449	451	459	477	500	511	496	469	439	411	
10/26/2009	CST	394	391	396	393	401	434	507	557	524	519	513	497	480	470	458	456	459	474	508	538	527	506	469	436	
10/27/2009	CST	423	419	415	416	425	455	528	571	542	532	519	507	493	485	475	471	475	486	509	515	506	483	445	410	

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Part III - Schedule 2. Planning Area Hourly Demand (continued)

Date	Time Zone	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
10/28/2009	CST	389	381	375	376	389	423	497	546	515	505	499	494	476	464	459	463	470	484	514	524	512	486	443	407
10/29/2009	CST	386	378	371	369	376	407	479	518	501	495	494	487	481	474	469	471	480	493	508	508	495	474	440	407
10/30/2009	CST	388	382	377	381	391	424	493	536	529	522	534	536	532	531	533	535	542	549	559	554	537	514	486	460
10/31/2009	CST	440	429	426	427	431	445	470	505	526	535	528	516	498	482	470	460	461	474	493	497	489	477	454	432
11/01/2009	CST	417	412	415	416	424	440	454	480	497	493	480	469	454	441	434	437	456	495	505	507	484	460	425	405
11/02/2009	CST	400	403	406	415	432	470	550	574	553	548	546	540	533	528	521	520	531	551	571	600	582	556	519	488
11/03/2009	CST	479	476	476	479	493	527	601	619	596	569	561	546	535	525	529	539	552	596	598	572	551	522	477	442
11/04/2009	CST	426	424	420	422	438	478	550	585	556	543	530	522	507	496	485	483	503	559	575	572	559	532	489	458
11/05/2009	CST	446	444	445	450	470	511	587	608	573	549	532	524	508	498	489	492	516	571	586	582	568	542	505	469
11/06/2009	CST	451	442	438	436	447	483	547	575	556	544	526	497	474	459	446	440	456	503	513	503	494	478	446	414
11/07/2009	CST	398	383	382	388	404	437	462	480	490	480	454	440	426	411	403	407	420	478	504	506	497	476	448	423
11/08/2009	CST	412	410	410	414	422	443	460	477	485	503	496	489	481	470	462	464	474	515	535	528	507	483	448	422
11/09/2009	CST	410	408	409	412	428	471	534	562	535	520	505	484	461	449	441	438	456	520	549	541	528	504	467	439
11/10/2009	CST	429	427	432	439	457	496	569	595	552	531	511	481	461	453	444	449	465	518	532	525	512	490	453	420
11/11/2009	CST	402	395	389	391	408	443	502	526	509	485	476	458	449	442	430	430	448	498	515	513	501	475	437	401
11/12/2009	CST	384	370	367	367	377	407	475	504	479	477	485	478	469	465	465	471	486	508	507	497	496	466	434	400
11/13/2009	CST	384	378	378	383	397	430	488	517	512	512	525	523	511	503	502	506	516	531	529	517	528	499	472	443
11/14/2009	CST	425	416	413	414	422	443	468	494	514	520	514	501	486	465	450	448	474	530	540	533	525	512	491	469
11/15/2009	CST	459	455	453	455	462	484	507	530	533	515	496	491	483	467	450	451	480	538	552	554	545	526	492	459
11/16/2009	CST	460	461	466	473	489	528	604	618	577	570	544	528	504	490	480	481	511	564	577	565	574	552	509	477
11/17/2009	CST	463	460	460	465	480	519	595	605	562	568	549	526	501	484	473	480	514	567	581	587	578	548	509	475
11/18/2009	CST	463	461	460	466	482	525	601	615	570	535	546	527	506	485	475	477	511	564	573	564	548	522	483	486
11/19/2009	CST	464	455	453	454	467	506	582	599	562	534	521	505	517	500	492	497	521	558	558	553	541	518	485	489
11/20/2009	CST	472	467	467	474	494	536	609	625	588	585	559	531	504	483	473	476	506	548	553	546	534	518	493	505
11/21/2009	CST	486	476	474	476	479	496	529	538	548	565	546	520	495	475	458	458	486	522	517	507	492	471	449	449
11/22/2009	CST	430	418	416	418	424	441	465	482	499	520	504	492	481	463	447	452	482	533	543	539	528	507	474	489
11/23/2009	CST	470	463	458	459	471	503	575	599	576	562	554	549	519	502	494	501	562	570	564	551	534	505	464	461
11/24/2009	CST	438	427	422	426	442	483	555	578	543	537	540	523	510	502	494	501	536	571	576	586	585	557	518	479
11/25/2009	CST	459	452	450	453	463	496	568	590	573	579	598	591	578	579	580	583	602	608	598	598	592	587	547	513
11/26/2009	CST	493	483	482	484	491	509	534	553	557	566	575	583	530	487	467	470	489	510	514	516	554	535	508	488
11/27/2009	CST	476	473	475	479	489	512	541	548	552	552	568	544	518	498	491	506	535	556	553	540	559	533	505	477
11/28/2009	CST	464	457	459	461	467	486	513	522	539	549	547	530	529	524	524	528	548	562	555	542	528	510	482	484
11/29/2009	CST	473	458	448	448	449	457	483	496	511	521	517	513	544	522	505	502	531	571	577	579	566	545	509	525
11/30/2009	CST	505	497	486	495	504	538	610	631	598	586	570	589	561	546	534	532	556	595	603	599	587	563	521	529

**Annual Electric Balancing Authority Area and Planning  
Area Report**

For the Year Ending December 31, 2009

Part III - Schedule 2. Planning Area Hourly Demand (continued)

Date (e)	Time Zone (b)	0100 (c)	0200 (d)	0300 (e)	0400 (f)	0500 (g)	0600 (h)	0700 (i)	0800 (j)	0900 (k)	1000 (l)	1100 (m)	1200 (n)	1300 (o)	1400 (p)	1500 (q)	1600 (r)	1700 (s)	1800 (t)	1900 (u)	2000 (v)	2100 (w)	2200 (x)	2300 (y)	2400 (z)
12/01/2009	CST	499	483	475	473	465	521	596	615	583	562	559	592	588	583	580	589	611	626	625	619	604	571	529	538
12/02/2009	CST	516	506	497	496	507	540	610	623	594	585	582	613	603	596	597	608	639	656	657	652	640	614	569	588
12/03/2009	CST	560	548	541	554	565	598	669	680	652	638	619	601	644	639	634	650	691	707	700	695	683	659	615	642
12/04/2009	CST	620	605	597	596	604	637	700	701	677	661	635	644	696	678	668	674	661	597	589	588	610	660	647	676
12/05/2009	CST	654	640	634	633	640	658	683	652	544	552	517	642	672	671	650	556	627	574	603	664	695	669	634	663
12/06/2009	CST	641	622	608	597	599	603	622	619	632	631	615	599	654	637	625	631	650	581	560	585	582	619	623	637
12/07/2009	CST	611	596	592	590	597	632	708	697	647	651	601	592	637	625	663	721	722	686	697	703	700	757	712	745
12/08/2009	CST	732	724	719	720	731	767	768	672	652	734	775	769	804	784	781	794	829	829	830	821	804	779	731	764
12/09/2009	CST	744	733	726	740	746	777	819	671	592	595	652	645	685	664	718	817	843	753	642	691	734	775	790	817
12/10/2009	CST	797	781	774	771	780	811	748	667	642	682	705	721	750	766	780	789	810	708	748	790	791	784	762	801
12/11/2009	CST	784	769	763	763	770	799	775	659	631	625	616	631	739	782	754	751	767	681	690	743	738	713	677	712
12/12/2009	CST	688	671	666	663	668	685	715	708	722	715	700	679	722	709	699	711	738	665	732	758	758	745	717	760
12/13/2009	CST	751	746	747	749	755	768	786	771	783	784	773	771	842	826	810	807	830	732	631	624	630	806	748	778
12/14/2009	CST	760	746	739	739	750	766	813	667	638	661	688	714	747	767	801	804	674	601	576	563	551	606	794	816
12/15/2009	CST	778	765	761	761	772	808	824	703	721	710	669	648	739	822	791	802	639	599	572	556	620	694	775	798
12/16/2009	CST	760	740	729	727	730	759	694	658	623	603	619	658	741	726	720	736	731	645	648	621	596	680	736	731
12/17/2009	CST	695	677	666	657	655	685	758	760	709	679	583	570	672	650	634	638	666	625	628	601	594	675	678	698
12/18/2009	CST	670	655	644	645	653	683	718	606	560	561	616	670	743	713	696	697	714	714	711	696	679	657	625	652
12/19/2009	CST	625	603	595	591	594	609	632	634	653	659	651	637	678	659	645	642	647	599	557	581	655	634	596	627
12/20/2009	CST	602	585	585	592	569	583	607	606	622	620	612	601	652	636	626	627	649	660	658	653	639	617	574	598
12/21/2009	CST	576	568	567	570	585	627	699	708	690	673	650	622	666	660	654	672	712	727	736	731	722	697	653	681
12/22/2009	CST	653	634	625	623	633	663	732	733	701	682	651	639	689	671	660	660	682	687	683	677	667	647	606	625
12/23/2009	CST	593	574	565	559	563	591	646	656	644	637	624	612	651	636	624	621	639	640	633	622	610	586	552	573
12/24/2009	CST	543	523	513	510	517	534	565	569	578	591	586	590	625	613	602	600	610	597	581	568	559	549	535	571
12/25/2009	CST	546	524	514	512	515	526	544	537	548	561	557	568	605	582	565	562	578	582	574	565	551	536	511	547
12/26/2009	CST	525	512	507	505	509	520	538	536	552	569	579	586	632	618	607	609	628	635	623	611	603	568	537	566
12/27/2009	CST	542	525	514	511	513	524	544	541	556	571	559	562	599	576	558	562	593	615	615	611	603	568	560	596
12/28/2009	CST	579	569	574	583	592	623	676	677	677	672	652	640	691	675	661	669	707	694	656	650	634	585	569	739
12/29/2009	CST	720	706	704	702	709	731	777	753	756	750	732	732	756	726	708	716	745	753	751	740	725	697	654	688
12/30/2009	CST	669	651	642	638	644	666	712	711	703	699	684	660	706	683	677	683	708	720	720	713	703	681	644	662
12/31/2009	CST	660	649	641	643	653	683	727	725	726	715	698	681	727	710	700	707	740	743	747	724	705	688	665	728

**Annual Electric Balancing Authority Area and Planning  
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**For the Year Ending December 31, 2009**

Utility Code: 12658  
 Utility Name: Minnkota Power Cooperative, Inc.

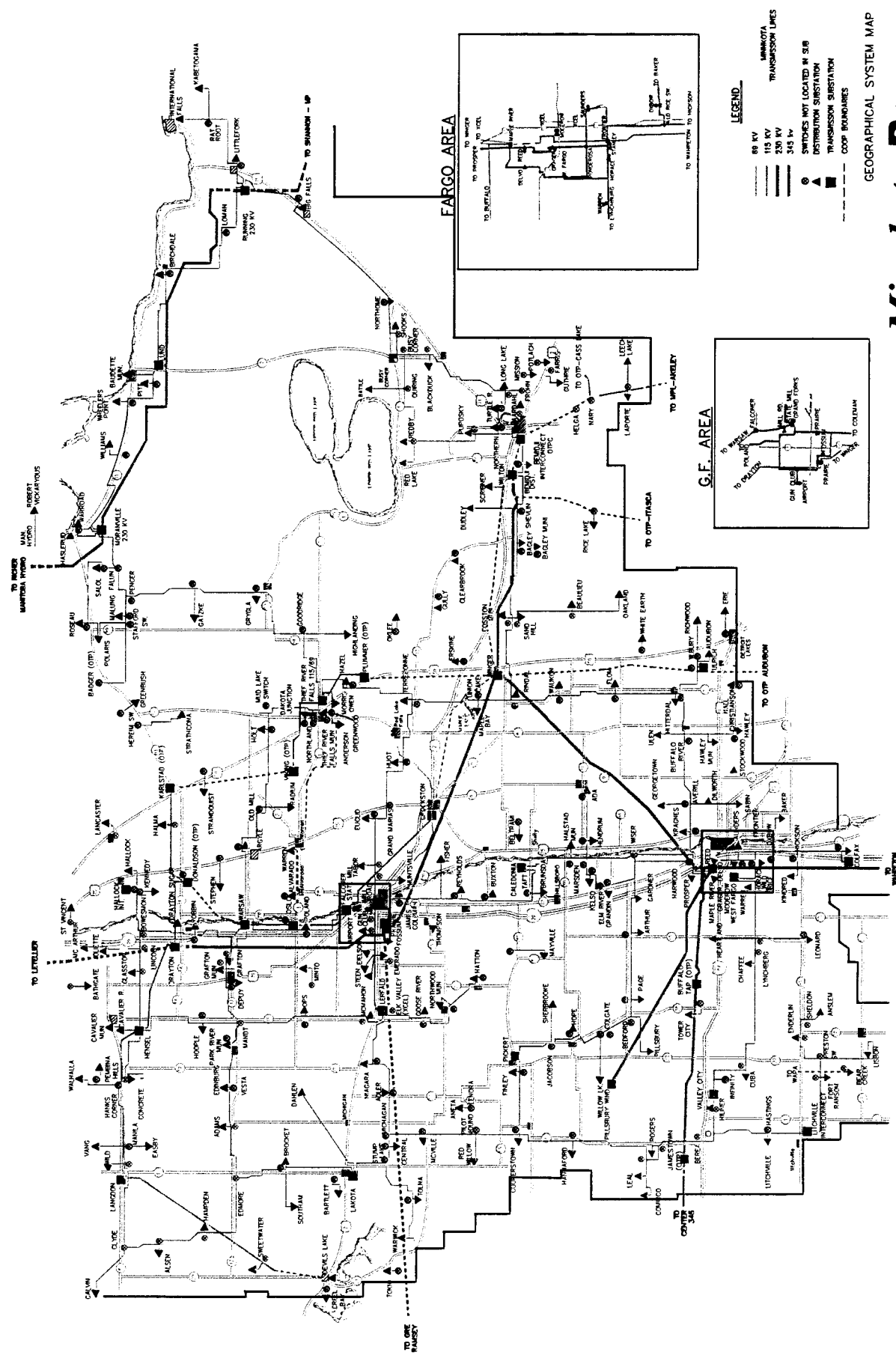
**Part III - Schedule 2. Forecast Summer and Winter Peak Demand and Annual Net Energy for Load**

Provide the planning area's forecast summer and winter peak demand, in megawatts, and annual net energy for load, in megawatthours, for the next ten years.

Line No (a)	Year (b)	Summer Forecast (MW) (c)	Winter Forecast (MW) (d)	Forecast of Annual Net Energy for Load (MWh) (e)
1	2010	558	941	4,340,413
2	2011	583	971	4,517,143
3	2012	591	984	4,573,469
4	2013	602	1,002	4,649,390
5	2014	611	1,018	4,717,750
6	2015	621	1,035	4,791,096
7	2016	630	1,052	4,861,960
8	2017	642	1,072	4,949,369
9	2018	653	1,092	5,035,005
10	2019	664	1,112	5,122,685

**EXHIBIT III**

Minnkota Power Cooperative Electric System Map



**LEGEND**

- 66 KV TRANSMISSION LINES
- 115 KV TRANSMISSION LINES
- 230 KV TRANSMISSION LINES
- 345 KV TRANSMISSION LINES
- SWITCHES NOT LOCATED IN SUB
- DISTRIBUTION SUBSTATION
- TRANSMISSION SUBSTATION
- COOP BOUNDARIES

**MINNKOTA Power**  
**MPC COOPERATIVE, INC.**  
 Your Touchstone Energy Partner

**GEOGRAPHICAL SYSTEM MAP**

FEBRUARY 2010  
 SCALE OF MILES

85335-05-10084-008-01 098

**EXHIBIT IV**

Listing of In-Service Dates for Existing Transmission Facilities

**Minnkota Power Cooperative, Inc.**

**In-Service Dates For Existing Transmission Facilities**

Wahpeton - Maple River	1968
Maple River – Winger	1970
Winger - Prairie	1970
Prairie - Drayton	1970
Center - Heskett	1971
Center - Jamestown	1981
Jamestown – Buffalo	1981
Buffalo - Maple River	1981
Pillsbury – Maple River	2008