

- Non Public Document – Contains Trade Secret Data**
 Public Document – Trade Secret Data Excised
 Public Document

Xcel Energy

Docket No.: EL12-046

Response To: South Dakota Public
Utilities Commission

Data Request No.

Requestor:

2-10

Date Received: July 30, 2012

Question:

Referring to the Monticello 2013 Life Cycle Management/Extended Power Uprate (LCM/EPU) adjustment:

- a) Please provide copies of work order authorizations.
- b) Please provide a detailed breakdown of the major components undertaken at the Monticello Nuclear Generating Plant for the Life Cycle Management/Extended Power Uprate project. For each component, please provide a detailed description, amount spent to date, remaining expenditures, forecasted total costs, in-service date or projected in-service date, etc.
- c) Please provide revised work papers PF24 to reflect actual costs incurred for each component currently in-service.
- d) Provide a bridge schedule for each component identified in (b) above that shows the calculation of the adjustment on work paper PF24-4 through PF24-8. Please provide the same bridge schedule incorporating the revised adjustments requested in (c) above. Please provide similar bridge schedules as NSP submitted in response to data request 6-5 (e) in Docket EL11-019.
- e) Has the NRC approved the extended power uprate project at Monticello? If no, does the NRC have a statutory deadline to issue its approval of the project?
- f) Please explain how another delay in the Monticello EPU licensing process may impact the planned in-service dates of each specific component identified in (b) above.
- g) Please refer to NSP's response to staff data request 1-30 in Docket EL11-019. Are there any assurances that the equipment will meet required performance specifications?

Response:

Request for Confidential Treatment of Information

In accordance with ARSD §§ 20:10:01:39 through 42, Xcel Energy respectfully requests confidential treatment of Attachments A and B to this response in their entirety. In compliance with ARSD § 20:10:01:40, we have clearly marked the pages of this response and Attachments A and B as “CONFIDENTIAL.” Xcel Energy addresses the requirements for confidential treatment under ARSD §§ 20:10:01:41 as follows:

- (1) An identification of the document and the general subject matter of the materials or the portions of the document for which confidentiality is being requested;

Xcel Energy seeks confidential treatment of the information in Attachments A and B to this response in their entirety. Attachment A is our confidential response to 5-2 in Docket No. EL11-019 and includes project authorization forms generated by nuclear plant personal and containing descriptions, purpose and cost estimates for various activities implemented as part of the Monticello LCM/EPU project. Attachment B is a redacted copy of Board Minutes that the Company considers to be sensitive, trade secret information. The Company maintains these documents as confidential.

- (2) The length of time for which confidentiality is being requested and a request for handling at the end of that time. This does not preclude a later request to extend the period of confidential treatment;

Xcel Energy requests these documents be maintained as confidential forever.

- (3) The name, address, and phone number of a person to be contacted regarding the confidentiality request;

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-CONFIDENTIAL-

- (4) The statutory or common law grounds and any administrative rules under which confidentiality is requested. Failure to include all possible grounds for confidential treatment does not preclude the party from raising additional grounds in the future.

The material is sensitive and trade secret information the disclosure of which may result in an adverse impact to Xcel Energy's financial or competitive position. See ARSD §§ 20:10:01:39 and 20:10:01:42.

- (5) The factual basis that qualifies the information for confidentiality under the authority cited.

Xcel Energy treats the information as trade secret, not released to the public. Releasing this information provides actual and potential vendors with a potentially unfair competitive advantage that could affect Xcel Energy's future like projects to the detriment of ratepayers.

- a) Please see NSP's response to staff data request 5-2 in Docket EL11-019 included as Attachment A to this response. Attachment A includes the authorizations supporting the recovery of the costs of the Monticello LCM/EPU project included in our last case. The scope of the Monticello LCM/EPU project has been further reviewed by Company management and the scope of the project has increased. The costs associated with the increased scope required additional Board approval. Attachment B provides the Board Resolution approving the increase to the Monticello EPU/LCM project budget on December 14, 2011.
- b) In response to staff data request 5-2 in Docket EL11-019, we provided a detailed description of the Monticello LCM/EPU project components at the child work order level through December 2011. Please see Attachment A to this data request. Attachment C to this response provides the same information updated through July 2012.
- c) Please see Attachment C for updated work papers PF24-1 through PF24-8 which reflects the total project with actual costs expenditures through June, 2012.
- d) The information needed to complete a bridge schedule at the component level is being developed and will be submitted when available as a supplement to this information request.

-CONFIDENTIAL-

- e) The Nuclear Regulatory Commission (NRC) has not yet approved the extended power uprate project at Monticello. We are addressing the outstanding issues related to our license amendment request and will submit additional information to the NRC in September 2012. We anticipate the NRC will conclude its review and approve our license amendment request in 2013. The NRC does not have a statutory deadline by which time it must approve the project.
- f) The delay in the extended power uprate licensing process will not have an impact on the planned in-service dates components identified in item (b). All components being installed are required to produce electricity following the 2013 refueling outage regardless of whether the plant operates at the current power level or the increased power level once approved by the NRC. As such, each component will be placed in service when installed.
- g) With regard to the new pumps needed to accomplish the uprates that were identified as failing to meet Xcel Energy's performance specifications during testing at the vendor's facility in staff data request 1-30 in Docket EL11-019, NSP has successfully worked with the vendor and they have agreed to rework the motors and pumps to meet the specifications.

Preparer: Terry A. Pickens \ Thomas E. Kramer
Title: Director, Regulatory Policy \ Principal Rate Analyst
Department: Nuclear Policy & Planning \ Revenue Requirements – North
Telephone: 612-330-1906 \ 612-330-5866
Date: August 16, 2012

Parent 10245258

work_order_description	status	in_service_date	est_in_service_date	Without AFUDC &			total_charges	plant_additions
				RWIP	AFUDC	RWIP		
10859413 MNGP EPU Steam Dryer Acoustic Mon	posted to CPR	06/01/2008 0:00	06/01/2008 0:00	\$7,284,497.72	\$360,428.34	(\$0.87)	\$7,644,925.19	\$7,644,926.06
10884258 MNGP EPU Certificate of Need	posted to CPR	01/01/2011 0:00	09/04/2009 0:00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10942850 MNGP EPU-Power Range/Neutron Monit	posted to CPR	09/04/2009 0:00	09/04/2009 0:00	\$17,384,936.08	\$467,141.96	\$151,395.44	\$18,003,473.48	\$17,852,078.04
10943047 MNGP EPU GE2JP Installation	posted to CPR	05/25/2011 0:00	05/25/2011 0:00	\$2,635,490.59	\$452,203.69	\$2,353.95	\$3,090,048.23	\$3,087,694.28
11132414 MNGP EPU Expansion Joints	posted to CPR	05/08/2009 0:00	05/15/2009 0:00	\$6,849,402.17	\$52,984.59	\$169,455.55	\$7,071,852.33	\$6,902,396.78
11133668 MNGP EPU Turbine Replacement	posted to CPR	05/08/2009 0:00	05/15/2009 0:00	\$53,498,653.27	\$29,087.38	\$477,947.92	\$54,005,688.57	\$53,527,740.65
11133705 EPU Condensate Demin Sys Repl	posted to CPR	05/25/2011 0:00	05/25/2011 0:00	\$63,463,708.38	\$4,351,591.35	\$16,310,864.50	\$84,126,164.23	\$67,815,299.73
11133713 EPU CARV Replacement	posted to CPR	05/08/2009 0:00	05/15/2009 0:00	\$18,269,759.32	\$72,030.84	\$104,689.38	\$18,446,479.54	\$18,341,790.16
11133719 EPU FW Heater Drain & Dump Vlv	posted to CPR	05/08/2009 0:00	05/15/2009 0:00	\$4,544,422.75	\$14,937.80	\$162,314.47	\$4,721,675.02	\$4,559,360.55
11133731 EPU MS Flow Transmitters Repl	posted to CPR	05/08/2009 0:00	05/15/2009 0:00	\$451,991.75	\$969.30	\$5,006.50	\$457,967.55	\$452,961.05
11133856 EPU FW Flow Transmitters/PC Inst	posted to CPR	05/08/2009 0:00	05/15/2009 0:00	\$335,414.90	\$223.67	\$5,006.50	\$340,645.07	\$335,638.57
11133865 EPU EQ Transmitters & Detectors	posted to CPR	05/08/2009 0:00	05/15/2009 0:00	\$820,619.32	\$6,194.75	\$20,026.00	\$846,840.07	\$826,814.07
11133871 EPU MSIV Solenoid Valve Repl	posted to CPR	05/08/2009 0:00	05/15/2009 0:00	\$337,957.61	\$0.00	\$3,148.98	\$341,106.59	\$337,957.61
11133877 EPU Remove DW Bricks in Bioshield	posted to CPR	05/08/2009 0:00	05/15/2009 0:00	\$215,817.92	\$926.43	\$5,006.50	\$221,750.85	\$216,744.35
11133931 EPU Drywell Spray Flow Valve Repl	posted to CPR	05/08/2009 0:00	05/15/2009 0:00	\$630,108.44	\$5,177.83	\$0.00	\$635,286.27	\$635,286.27
11194611 EPU Off Gas Dilution Fan Cable Repl	posted to CPR	08/28/2009 0:00	05/25/2011 0:00	\$30,326,665.84	\$2,407,803.19	\$48,150.76	\$32,782,619.79	\$32,734,469.03
11225964 EPU Acoustic Monitoring Instr Repl	posted to CPR	05/08/2009 0:00	05/01/2009 0:00	\$443,594.50	\$349.79	\$5,006.50	\$448,950.79	\$443,944.29
11284286 MNGP EPU Rpl 4 FW Drain & Dump Vlv	posted to CPR	05/25/2011 0:00	05/25/2011 0:00	\$17,416,473.55	\$1,252,440.76	\$155,992.87	\$18,824,907.18	\$18,668,914.31
11286986 MNGP EPU Rewind Generator	posted to CPR	05/25/2011 0:00	05/25/2011 0:00	\$4,970,095.93	\$250,607.69	\$1,694,011.99	\$6,914,715.61	\$5,220,703.62
11286985 MNGP EPU Stator Water Cooler Repl	posted to CPR	05/24/2011 0:00	05/24/2011 0:00	\$2,342,214.24	\$216,179.00	\$87,878.18	\$2,646,271.42	\$2,558,393.24
11376086 MNGP Drain Cooler Piping Mod Proj	posted to CPR	01/06/2012 0:00	05/31/2013 0:00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11376103 MNGP Turbine Bldg Elev 951' Rplc	posted to CPR	01/06/2012 0:00	05/31/2013 0:00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10943007 MNGP EPU Main Power Transformer	completed	05/25/2011 0:00	05/25/2011 0:00	\$26,086,228.30	\$4,021,966.40	\$404,771.49	\$30,512,966.19	\$30,108,194.70
11286973 MNGP EPU Replace Exciter	completed	09/12/2011 0:00	05/15/2011 0:00	\$118,396.85	\$0.00	\$0.00	\$118,396.85	\$118,396.85
11335729 MNGP EPU Turbine Generator Vlb Sys	completed	05/25/2011 0:00	05/25/2011 0:00	\$3,476,075.11	\$286,503.95	\$0.00	\$3,762,579.06	\$3,762,579.06
11286961 MNGP EPU Rpl 14A/B 15A/B FW Heaters	in service	05/25/2011 0:00	05/25/2011 0:00	\$14,848,375.87	\$297,683.85	\$535,538.53	\$15,681,598.25	\$15,146,059.72
11410738 MNGP EPU PCT Vent & Purge Valves	suspended	05/31/2013 0:00	05/31/2013 0:00	\$165,993.34	\$17,819.97	\$0.00	\$183,813.31	\$0.00
10435578 MNGP Extended Power Uprate	open	06/30/2013 0:00	06/30/2013 0:00	\$25,448,372.72	\$28,183,116.24	(\$20,111.87)	\$53,611,377.09	\$0.00
10943052 MNGP EPU Condensate Impeller/Pump	open	05/31/2013 0:00	05/31/2013 0:00	\$8,215,542.61	\$954,393.72	\$3,126.03	\$9,173,062.36	\$0.00
11213813 EPU FAR Cable Replacement	open	05/31/2013 0:00	05/31/2013 0:00	\$2.67	\$0.00	\$0.00	\$2.67	\$0.00
11257804 MNGP EPU 13.8 KV Distribution Sys	open	05/31/2013 0:00	05/31/2013 0:00	\$42,271,950.26	\$4,826,740.61	\$536,211.44	\$47,634,902.31	\$0.00
11286955 MNGP EPU Replace Reactor FW Pumps	open	05/31/2013 0:00	05/31/2013 0:00	\$33,756,486.07	\$2,849,148.95	\$30,581.69	\$36,636,216.71	\$0.00
11286981 MNGP EPU MSD Tank Mods	open	05/31/2013 0:00	05/31/2013 0:00	(\$13,618.23)	\$0.00	\$10,228.57	(\$3,389.66)	\$0.00
11286992 MNGP EPU RWCU Capacity Improvements	open	09/30/2012 0:00	09/30/2012 0:00	\$4,150,222.95	\$303,010.52	\$461.23	\$4,453,694.70	\$0.00
11388720 E & S for EPU	open	12/31/2011 0:00	12/31/2011 0:00	(\$375.46)	\$0.00	\$0.00	(\$375.46)	\$0.00
11536446 MNGP EPU License Development	open	08/30/2013 0:00	08/30/2013 0:00	\$52,659,715.98	\$12,936,327.28	\$126,213.71	\$65,722,256.97	\$0.00
11638897 MNGP EPU 13A&B Feed Wtr Heaters	open	05/31/2013 0:00	05/31/2013 0:00	\$17,316,682.40	\$750,001.82	\$652,221.11	\$18,718,905.33	\$0.00
183,804,981.97		50,802,739.14	1,338,931.91	235,946,653.02	0.00			0.00
Parent 10245258 Total				465,590,785.69	65,388,311.30	22,403,155.31	553,382,252.30	296,187,562.57

Parent 10245381

work_order_description	status	in_service_date	est_in_service_date	Without AFUDC &			total_charges	plant_additions
				RWIP	AFUDC	RWIP		
10735617 MNGP EPU-1AR Transformer Repl	posted to CPR	09/20/2009 0:00	01/15/2010 0:00	3,348,494.21	55,577.96	64,484.59	3,468,556.76	3,404,072.17
3,348,494.21		55,577.96	64,484.59	3,468,556.76				3,404,072.17
Parent 10245381 Total				3,348,494.21	55,577.96	64,484.59	3,468,556.76	3,404,072.17
EPU LTD July 2012 Total				468,939,279.90	65,443,889.26	22,467,639.90	556,850,809.06	299,591,634.74

- Non Public Document – Contains Trade Secret Data
 Public Document – Trade Secret Data Excised
 Public Document

Xcel Energy

Docket No.: EL12-046

Response To: South Dakota Public
Utilities Commission

Data Request No. 6-6

Date Received: August 24, 2012

Question:

Please refer to the Company's response to DR 2-10 regarding the Monticello EPU 2013 adjustment.

- a. Please refer to work order 11286961 on Attachment C and Attachment A, page 9 of 54. Please explain why the plant addition is \$15,146,059 on Attachment C and \$30,077,278 on Attachment A, page 9 of 54. Please explain how the plant cost could change significantly when the plant was placed in-service on 5/25/2011.
- b. Please explain the plant addition cost differences for the following work orders in comparing the costs between Attachment C and Attachment A, page 9 of 54:
 - i. 11286985
 - ii. 10943007
 - iii. 11133705
 - iv. 11215274
 - v. 11284286
 - vi. 11286966
 - vii. 11335729
- c. Referring to Attachment C, please explain why the cost of the plant additions that went into service by 2011 does not equal the December 2011 ending balance for plant in-service listed on the "Rainbow-Actual (SD)" tab in the excel spreadsheet "2-010 Attachment C RB 10245258 Monticello EPU 2013 June Actual Costs.xls" provided by Mr. Kramer to Mr. Thurber via email on 8/23/2012.
- d. Please explain why there was a \$15,078,199 reduction in plant additions in 2012 listed on the "Rainbow-Actual (SD)" tab in the excel spreadsheet "2-010

Attachment C RB 10245258 Monticello EPU 2013 June Actual Costs.xls” provided by Mr. Kramer to Mr. Thurber via email on 8/23/2012.

- e. Please indicate where work order 11286992 listed on Attachment C, scheduled to be placed in-service in 2012, is reflected on the “Rainbow-Actual (SD)” tab in the excel spreadsheet “2-010 Attachment C RB 10245258 Monticello EPU 2013 June Actual Costs.xls” provided by Mr. Kramer to Mr. Thurber via email on 8/23/2012.
- f. Please provide a revised Attachment C that reconciles with the “Rainbow-Actual (SD)” tab in the excel spreadsheet “2-010 Attachment C RB 10245258 Monticello EPU 2013 June Actual Costs.xls” provided by Mr. Kramer to Mr. Thurber via email on 8/23/2012.
- g. Please revise the excel spreadsheet “2-010 Attachment C RB 10245258 Monticello EPU 2013 June Actual Costs.xls” provided by Mr. Kramer to Mr. Thurber via email on 8/23/2012 to reflect actual costs incurred, removing all projected expenditures.

Response:

- a. The Feed Water Heater (FWH) work order originally consisted of replacing FWH 13, 14, and 15. During the spring outage of 2011, Monticello replaced FWH 14 and 15 and was unable to replace FWH 13 at that time. Since FWH 14 and 15 were installed and being used, FWH 14 and 15 were properly placed in-service. The charges for current work on FWH 13 were recorded to work order 11286961 MNGP EPU Rpl 14A/B 15A/B FW Heaters and inadvertently in-serviced with the FWH 14 and 15 costs. When it was determined that the work for FWH 13 should be recorded to a new work order with a later in-service date, the FWH 13A costs were split out to new work order 11638897, which moved those costs from plant in-service back to CWIP. The projected in-service date for the FWH 13 work order is May 2013.

For your convenience, Attachment B to this response repeats portions of SDPUC DR-2-10, Attachment A, page 9 of 54 and SDPUC DR-2-10, Attachment C (as originally filed 8/16/12 before revision filed 8/23/12) to clearly illustrate the movement between the two work order numbers.

- b. SDPUC DR-2-10, Attachment A, page 9 of 54 reflects life-to-date activity through December 2011. SDPUC DR-2-10, Attachment C reflects activity as of July 2012. The work orders listed all had a status that still allowed charges to occur (“in service” or “completed”) when shown on Attachment A, which means that the work orders were receiving trailing charges, as the work is closed

out, such as site cleanup or final bills. Once a work order has a status of “in service” or “completed”, any trailing charges recognized are added to plant additions in that month. Thus the plant additions in Attachment C would be different than those in Attachment A, page 9 of 54.

- c. SDPUC DR-2-10, Attachment C (as originally filed 8/16/12) contains life-to-date plant additions through July 2012. The rainbow file contains additions from January 2011 through June 2012 only. The difference between the two files is due to additions that occurred previous to January 2011 and after June 2012.
 - d. The majority of this difference was the change in FWH work as described in the response to Part a. above. As indicated, when it was determined that the work for FWH 13 should be recorded to a new work order with a later in-service date, the FWH 13 costs were split out to new work order 11638897, which moved those costs from plant in-service back to CWIP. This activity appears as negative plant addition.
 - e. Child work order 11286992 is one of many child work orders that fall under the parent work order 10245258. The in-service pattern used in the rainbow file did not include a September 2012 addition as indicated on SDPUC DR-2-10, Attachment C for this child. The rainbow file included the construction for this child work order as part of the addition shown in May 2013.
 - f. Please refer to the response to Part c. above. Because the “Rainbow-Actual (SD)” tab in the excel spreadsheet “2-010 Attachment C RB 10245258 Monticello EPU 2013 June Actual Costs.xls” provided by Mr. Kramer to Mr. Thurber via email on 8/23/2012 was prepared for only January 2011 through June 2012 plant additions at the parent project level, it will not (and should not) reconcile to SDPUC DR-2-10, Attachment C (as originally filed 8/16/12) which is a summary of life to date activity at the work order level.
 - g. Please see Attachment A to this response for revised work papers PF24-1 through PF24-8 reflecting actual costs through June 2012. As requested by South Dakota Public Utilities Commission Staff, all projected expenditures have been excluded. Exclusion of the projected expenditures through 2013 will result in an understatement of the total revenue requirements associated with this project in the 2011 pro forma test year.
-

Response By: Jake Miller / Michael Bliss / Thomas E. Kramer
Title: Sr. Financial Analyst / Associate Accounting Analyst /
Principal Rate Analyst
Department: Capital Asset Accounting / Revenue Requirements - North
Telephone: 612-330-1959 / 612-330-6216 / 612-330-5866
Date: September 13, 2012

Monti EPU - 2013 - With Actual Costs Thru June 2012 Only

Template V1.2

	Period	Mn Co Electric			Jur Electric			
		Production			MN	ND	SD	Whls
		MN	ND	SD				
Rate Base								
Plant Investment	BOY			74,580			4,304	
Plant Investment	EOY			74,580			4,304	
Depreciation Reserve	BOY			7,294			421	
Depreciation Reserve	EOY			7,294			421	
C.W.I.P.	BOY							
C.W.I.P.	EOY							
Accumulated Deferred Taxes	BOY			20,224			1,167	
Accumulated Deferred Taxes	EOY			20,224			1,167	
Materials & Supplies	BOY							
Materials & Supplies	EOY							
Fuel Inventory	BOY							
Fuel Inventory	EOY							
Non-Plant Assets & Liab	BOY							
Non-Plant Assets & Liab	EOY							
Prepays & Other	BOY							
Prepays & Other	EOY							

Statement of Income

Operating Expenses:								
Fuel & Purchased Energy	Annual							
Power Production	Annual							
Transmission	Annual							
Distribution	Annual							
Customer Accounting	Annual							
Customer Service & Information	Annual							
Sales, Econ Dvlp & Other	Annual							
Administrative & General	Annual							
Total Operating Expenses:	Annual	0	0	0	0	0	0	0

Depreciation	Annual			4,642			268	
Amortization	Annual							

Taxes:								
Property	Annual			2,022			117	
Gross Earnings Tax	Annual							
Deferred Income Tax & ITC	Annual			(42,572)			(2,457)	
Payroll & other	Annual							
Total Taxes:	Annual	0	0	(40,550)	0	0	(2,340)	0

AFUDC	Annual							
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Juris Income Tax

Tax Additions:								
Nuclear Fuel Burn (ex D&D)	Annual							
Nuclear Outage Accounting	Annual							
Avoided Tax Interest	Annual			(10,193)			(588)	
Open	Annual							
Open	Annual							
Open	Annual							
Open	Annual							
Open	Annual							
Other Book Additions	Annual							
Total Tax Additions	Annual	0	0	(10,193)	0	0	(588)	0

Tax Deductions:								
Tax Depreciation & Removal	Annual			(105,476)			(6,087)	
Manufacture Production Deduction	Annual							
Open	Annual							
Open	Annual							
Open	Annual							
Other Tax/Book Timing Differences	Annual							
Total Tax Deductions	Annual	0	0	(105,476)	0	0	(6,087)	0

Tax Credits:								
State R&E Credits								
Other State Credits								
Federal Production Tax Credit (PTC)								
Other Federal Tax Credits								
Total Tax Credits	Annual	0	0	0	0	0	0	0

Exhibit__(JPT-11)
Page 11 of 18

Northern States Power, a Minnesota corporation
Annual Revenue Requirement
Monti EPU - 2013 - With Actual Costs Thru June 2012 Only
2011 Test Year South Dakota Electric Rate Case - 2011 Rev Requirement
(000's)

Docket EL12-046
Revised Work Paper PF24-2
South Dakota PUC Data Request No. 6-6 - Attachment A

Rate Analysis

	Total Company	SD Jurisdiction
Plant Investment	131,508	6,360
Depreciation Reserve	(4,805)	(232)
CWIP	-	-
Accumulated Deferred Taxes	50,884	2,461
	<u>85,429</u>	<u>4,131</u>
Average Rate Base	85,429	4,131
Tax Preferenced Items:		
Tax Depreciation & Removal Expense	134,109	6,486
Avoided Tax Interest	12,164	588
Debt Return	2,460	119
Equity Return	4,195	203
Current Income Tax Requirement	(32,767)	(1,585)
Book Depreciation	6,883	333
Annual Deferred Tax	50,015	2,419
ITC Flow Thru	-	-
AFUDC Expenditure	-	-
Property Taxes	-	-
Total Revenue Requirements	30,786	1,489

Last Authorized			
Capital Structure	Rate	Ratio	Weighted Cost
Long Term Debt	6.1300%	46.9600%	2.8800%
Short Term Debt	0.0000%	0.0000%	0.0000%
Preferred Stock	0.0000%	0.0000%	0.0000%
Common Equity	9.2500%	53.0400%	4.9100%
Required Rate of Return			<u>7.7900%</u>
Tax Rate (SD)	35.0000%		

Ave RB * Weighted Cost of St & LT Debt
Ave RB * Weighted Cost of Equity
(Eq Ret+Bk Depre+Def Tx+ITC-Tax Depre-ADUDC+Avoid Tax)* T/(1-T)

Dt Ret+Eq Ret+Cur Tax+Bk Depre+Def Tax+ITC+ADUDC+Prop Tax

Exhibit___(JPT-11)
Page 14 of 18

Northern States Power, a Minnesota corporation
Annual Revenue Requirement
Monti EPU - 2013 - With Actual Costs Thru June 2012 Only
2011 Test Year South Dakota Electric Rate Case - 2013 Step Rev Requirement
(000's)

Docket EL12-046
Revised Work Paper PF24-4
South Dakota PUC Data Request No. 6-6 - Attachment A

Rate Analysis

	Total Company	SD Jurisdiction
Plant Investment	88,996	4,304
Depreciation Reserve	8,704	421
CWIP	-	-
Accumulated Deferred Taxes	24,133	1,167
	<u>56,159</u>	<u>2,716</u>
Average Rate Base	56,159	2,716
Tax Prefereced Items:		
Tax Depreciation & Removal Expense	(125,863)	(6,087)
Avoided Tax Interest	(12,164)	(588)
Debt Return	1,617	78
Equity Return	2,757	133
Current Income Tax Requirement	38,335	1,854
Book Depreciation	5,539	268
Annual Deferred Tax	(50,801)	(2,457)
ITC Flow Thru	-	-
AFUDC Expenditure	-	-
Property Taxes	2,412	117
Total Revenue Requirements	(140)	(6)

Last Authorized			
Capital Structure	Rate	Ratio	Weighted Cost
Long Term Debt	6.1300%	46.9600%	2.8800%
Short Term Debt	0.0000%	0.0000%	0.0000%
Preferred Stock	0.0000%	0.0000%	0.0000%
Common Equity	9.2500%	53.0400%	4.9100%
Required Rate of Return			7.7900%
Tax Rate (SD)	35.0000%		

Ave RB * Weighted Cost of St & LT Debt
Ave RB * Weighted Cost of Equity
(Eq Ret+Bk Depre+Def Tx+ITC-Tax Depre-ADUDC+Avoid Tax)* T/(1-T)

Per 2012 Step tab
Dt Ret+Eq Ret+Cur Tax+Bk Depre+Def Tax+ITC+ADUDC+Prop Tax

Exhibit___(JPT-11)
Page 15 of 18

Northern States Power, a Minnesota corporation
Annual Revenue Requirement
Monti EPU - 2013 - With Actual Costs Thru June 2012 Only
2011 Test Year South Dakota Electric Rate Case - 2013 Rev Requirement
(000's)

Docket EL12-046
Revised Work Paper PF24-5
South Dakota PUC Data Request No. 6-6 - Attachment A

Rate Analysis

	Total Company	SD Jurisdiction
Plant Investment	220,504	10,664
Depreciation Reserve	3,899	189
CWIP	-	-
Accumulated Deferred Taxes	75,017	3,628
	<u>141,588</u>	<u>6,847</u>
Average Rate Base	141,588	6,847
Tax Preferenced Items:		
Tax Depreciation & Removal Expense	8,246	399
Avoided Tax Interest	-	-
Debt Return	4,078	197
Equity Return	6,952	336
Current Income Tax Requirement	5,569	269
Book Depreciation	12,422	601
Annual Deferred Tax	(786)	(38)
ITC Flow Thru	-	-
AFUDC Expenditure	-	-
Property Taxes	2,412	117
Total Revenue Requirements	30,646	1,483

Last Authorized			
Capital Structure	Rate	Ratio	Weighted Cost
Long Term Debt	6.1300%	46.9600%	2.8800%
Short Term Debt	0.0000%	0.0000%	0.0000%
Preferred Stock	0.0000%	0.0000%	0.0000%
Common Equity	9.2500%	53.0400%	4.9100%
Required Rate of Return			7.7900%
Tax Rate (SD)	35.0000%		

Ave RB * Weighted Cost of St & LT Debt
Ave RB * Weighted Cost of Equity
(Eq Ret+Bk Depre+Def Tx+ITC-Tax Depre-ADUDC+Avoid Tax)* T/(1-T)

Per 2012 Step tab
Dt Ret+Eq Ret+Cur Tax+Bk Depre+Def Tax+ITC+ADUDC+Prop Tax

Exhibit__(JPT-11)
Page 16 of 18

Northern States Power, a Minnesota corporation
2013 Step Adjustment
Monti EPU - 2013 - With Actual Costs Thru June 2012 Only

Docket EL12-046
Revised Work Paper PF24-6
South Dakota PUC Data Request No. 6-6 - Attachment A

Demand Prod SD Jur % 5.5961%
Demand MN Co % (1) 83.6422%
South Dakota Post I/A 4.6807%

CWIP (Not Allowed in SD)	Total Company		Total Company after IA		SD Jurisdiction		'(1) Adjustment Included in Interchange Calculation
	BOY	EOY	BOY	EOY	BOY	EOY	
Production	-	-	-	-	-	-	
COSS Adj (000's)	-	-	-	-	-	-	-
Plant	Total Company		Total Company after IA		SD Jurisdiction		
	BOY	EOY	BOY	EOY	BOY	EOY	
Production	88,995,893.00	88,995,893.00	74,580,249.26	74,580,249.26	4,304,175.35	4,304,175.35	
COSS Adj (000's)	88,996	88,996	74,580	74,580	4,304	4,304	4,304
Reserve	Total Company		Total Company after IA		SD Jurisdiction		
	BOY	EOY	BOY	EOY	BOY	EOY	
Production	8,704,255.00	8,704,255.00	7,294,331.07	7,294,331.07	420,970.43	420,970.43	
COSS Adj (000's)	8,704	8,704	7,294	7,294	421	421	421
Accumulated Deferred	Total Company		Total Company after IA		SD Jurisdiction		
	BOY	EOY	BOY	EOY	BOY	EOY	
Production	24,132,858.00	24,132,858.00	20,223,793.53	20,223,793.53	1,167,155.57	1,167,155.57	
COSS Adj (000's)	24,133	24,133	20,224	20,224	1,167	1,167	1,167
Book Depreciation	Total Company		Total Company after IA		SD Jurisdiction		
	Annual		Annual		Annual		
Production	5,538,959.73		4,641,753.49		267,884.88		
COSS Adj (000's)	-	5,539	-	4,642	-	268	
Annual Deferred	Total Company		Total Company after IA		SD Jurisdiction		
	Annual		Annual		Annual		
Production	(50,800,736.13)		(42,571,982.09)		(2,456,914.23)		
COSS Adj (000's)	-	(50,801)	-	(42,572)	-	(2,457)	
Tax Depreciation	Total Company		Total Company after IA		SD Jurisdiction		
	Annual		Annual		Annual		
Production	(125,862,990.21)		(105,475,577.19)		(6,087,206.51)		
COSS Adj (000's)	-	(125,863)	-	(105,476)	-	(6,087)	
AFUDC	Total Company		Total Company after IA		SD Jurisdiction		
	Annual		Annual		Annual		
Production	-		-		-		
COSS Adj (000's)	-	-	-	-	-	-	
Avoided Tax	Total Company		Total Company after IA		SD Jurisdiction		
	Annual		Annual		Annual		
Production	(12,163,618.98)		(10,193,343.81)		(588,278.26)		
COSS Adj (000's)	-	(12,164)	-	(10,193)	-	(588)	
Property Tax	Total Company		Total Company after IA		SD Jurisdiction		
	Annual		Annual		Annual		
Production	2,412,316.33		2,021,566.92		116,668.67		
COSS Adj (000's)	-	2,412	-	2,022	-	117	

Exhibit___(JPT-11)
Page 17 of 18

Northern States Power, a Minnesota corporation
2011 Test-Year - Year 2013
Monti EPU - 2013 - With Actual Costs Thru June 2012 Only

Docket EL12-046
Revised Work Paper PF24-7
South Dakota PUC Data Request No. 6-6 - Attachment A

Property Tax Rate 1.0940%
Demand Prod SD Jur % 5.7712%
Demand MN Co % (1) 83.8019%
South Dakota Post I/A 4.8364%

	Total Company		Total Company after IA		SD Jurisdiction		(1) Adjustment Included in Interchange Calculator
	BOY	EOY	BOY	EOY	BOY	EOY	
CWIP (Not Allowed in SD)							
Production	-	-	-	-	-	-	
COSS Adj (000's)	-	-	-	-	-	-	-
Plant							
Production	220,504,235.00	220,504,235.00	184,786,738.51	184,786,738.51	10,664,412.25	10,664,412.25	
COSS Adj (000's)	220,504	220,504	184,787	184,787	10,664	10,664	10,664
Reserve							
Production	3,899,232.00	3,899,232.00	3,267,630.50	3,267,630.50	188,581.49	188,581.49	
COSS Adj (000's)	3,899	3,899	3,268	3,268	189	189	189
Accumulated Deferred							
Production	75,016,572.00	75,016,572.00	62,865,312.65	62,865,312.65	3,628,082.92	3,628,082.92	
COSS Adj (000's)	75,017	75,017	62,865	62,865	3,628	3,628	3,628
Book Depreciation							
Production		12,421,754.78		10,409,666.52	-	600,762.67	
COSS Adj (000's)	-	12,422	-	10,410	-	601	
Annual Deferred							
Production		(786,089.07)		(658,757.58)	-	(38,018.22)	
COSS Adj (000's)	-	(786)	-	(659)	-	(38)	
Tax Depreciation							
Production		8,245,865.29		6,910,191.78	-	398,800.99	
COSS Adj (000's)	-	8,246	-	6,910	-	399	
AFUDC (Not allowed in SD)							
Production		-		-	-	-	
COSS Adj (000's)	-	-	-	-	-	-	
Avoided Tax							
Production		-		-	-	-	
COSS Adj (000's)	-	-	-	-	-	-	
Property Tax							
Production		2,412,316.33		2,021,566.92	-	116,668.67	
COSS Adj (000's)	-	2,412	-	2,022	-	117	

Northern States Power Company, a Minnesota corporation
Electric Utility - State of South Dakota

Docket No. EL12-046
South Dakota PUC Data Request No. 6-6
Attachment B - Page 1 of 1

Per 2-10 Attachment A, page 9 of 54
Life to Date Through December 2011

work_order_number	description	status	in_service_date	est_in_service_date	Without AFUDC & RWIP	AFUDC	RWIP	total_charges	plant_additions
11286961	MINGP EPU Rpl 14A/B 15A/B FW Heaters	in service	5/25/2011 0:00	5/25/2011 0:00	\$29,779,594.35	\$297,683.85	\$647,418.43	\$30,724,696.63	\$30,077,278.20
Per 2-10 Attachment C as originally filed 8/16/12 (before revision filed 8/23/12)									
Life to Date Through July 2012									
work_order_number	description	status	in_service_date	est_in_service_date	Without AFUDC & RWIP	AFUDC	RWIP	total_charges	plant_additions
11286961	MINGP EPU Rpl 14A/B 15A/B FW Heaters	in service	5/25/2011 0:00	5/25/2011 0:00	\$14,848,375.87	\$297,683.85	\$535,538.53	\$15,681,598.25	\$15,146,059.72
11638897	MINGP EPU 13A&B Feed Wtr Heaters	open	5/31/2013 0:00	5/31/2013 0:00	\$17,316,682.40	\$750,001.82	\$652,221.11	\$18,718,905.33	\$0.00
								<u>\$34,400,503.58</u>	