



PDR



Northern States Power Company

414 Nicolet Mall  
Minneapolis, Minnesota 55401  
Telephone (612) 330-5500

March 15, 1983

Mr. James R. Tourtellotte  
Chairman  
Regulatory Reform Task Force  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Tourtellotte:

This letter is in response to your letter of February 8, 1983, to Mr. Donald W. McCarthy concerning backfitting costs of our nuclear power plants. The attached information is for two nuclear plants, Monticello and Prairie Island, operated by the Northern States Power Company. The Monticello unit and the two Prairie Island units have a combined capability of 1539 MWE (summer) net.

If you have any questions concerning this information, please contact me at 612/330-6563.

Sincerely,

*C.D. Hadley*  
C.D. Hadley  
Capital Budget Administrator

CDH/ts  
Attachments

cc: D E Gilberts

XA

XA Copy Has Been Sent to PDR

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ATTACHMENT

Cost of NRC Actions on the Construction and Operation of  
NSP Nuclear Power Plants from Operating License Dates  
through January 1983

	<u>Monticello</u>	<u>Prairie Island</u>
1. Actual Costs of Units at Operating License Date	118,342,000 (1 unit) (BWR)	412,660,000 (2 Units) (PWR)
2. Operating License Dates	9/8/70	8/9/73 Unit 1 10/29/74 Unit 2
3. Actual Expenditures of Backfitting:		
a. NRC Imposed	71,864,000	39,078,000
b. NRC TMI	<u>39,372,000</u>	<u>25,683,000</u>
Totals	<u>111,236,000</u>	<u>64,761,000</u>
4. Approved Authorizations to Be Spent		
a. NRC Imposed	28,403,000	15,955,000
b. NRC TMI	<u>15,271,000</u>	<u>26,668,000</u>
Totals	<u>43,674,000</u>	<u>42,623,000</u>
5. Actual Expenditures of State and Local Environmental Reg.	1,173,000	17,404,000
6. Approved Authorizations to Be Spent on State and Local Environemtnal Regulations	0	3,000,000

CDH/ts  
3/11/83

MONTICELLO

Significant TMI Projects > \$200,000	<u>Authorized</u>	<u>Actual</u>
Post LOCA H <sub>2</sub> Control Penetrations	314,500	314,472
High Radiation Monitoring Equipment	1,740,000	1,649,407
Post Accident Containment and Monitor	2,248,968	2,269,755
On Site Technical Support Center	20,900,000	20,390,961
Post Accident Sampling System	1,513,000	1,653,113
Post LOCA Combustible Gas Control	8,400,000	4,477,397
On Site/Near Site Emergency Support Center	1,999,800	1,939,772
Off Site Dose Computation System	1,630,000	442,635
Nuclear Plant Simulator	8,535,000	3,789,547
Torus Temperature Monitoring System	1,500,000	1,265,537
Ten Mile Emergency Notification System	644,000	645,138
Emergency Response Information System	3,000,000	-
Reactor Water Level Instrumentation	1,800,000	58
Miscellaneous Projects < \$200,000	418,800	534,655
Total	<u>54,644,068</u>	<u>39,372,447</u>

Environmental

Modify Cooling Towers for Winter Operation	214,000	214,495
Cooling Water Discharge Modification	760,000	762,204
Miscellaneous Projects < 200,000	189,320	196,289
Total	<u>1,163,320</u>	<u>1,172,988</u>

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MONTICELLO

Significant Projects > \$200,000 NRC

	<u>Authorized</u>	<u>Actual</u>
Drywell Install Nitrogen System	200,000	199,994
Plant Security Provision Update	214,200	214,177
Reactor Bldg. Crane Modification	760,800	776,874
Revise Security Facilities	7,303,000	7,342,759
ATWS Hardware Modification	209,000	220,447
Relief Valve Discharge Line Vacuum Breakers	305,000	326,115
Additional Site Property	357,000	370,492
Fire Protection Modifications	4,200,000	4,138,775
New Administration Building	1,050,000	1,006,606
Torus Load Mitigation	1,644,900	1,672,745
Additional Supports to the Safety Relief Valves	8,100,000	8,311,061
Replace Control Rods	281,300	281,225
Work Platforms, Gratings, Ladders	1,022,000	816,118
SRV Control System	1,326,000	742,147
Install External Torus Supports	3,200,000	3,218,750
79-02 Pipe Hangers and Anchor Bolts	3,126,500	3,047,213
Core Spray Piping Replacement	1,182,500	774,728
80-11 Upgrade Masonary Walls	977,000	866,697
Seismic Reevaluation Program Modifications	4,495,000	1,825,405
Feedwater Safeend Sparger Parts	5,652,000	5,665,232
Jet Pump Hold Down Beam Assembly	438,000	230,066
Scram Discharge Volume Modification	2,305,000	2,967,040
79-14 As Built Piping System Modification	1,710,000	1,675,493
Radwaste Storage Shielding and New Storage Bldg	2,170,000	1,984,894
Mark I Containment Modifications	1,500,000	1,610,915
Mark I Containment (Operating & Maintenance)	3,198,900	2,987,000
Administration Bldg. Addition	1,300,000	1,021,812
Anchorage of Safety-Related Elec Equipment	515,000	384,584
MSIV Lapping and Welding Machine	264,300	-
VAX Computer Upgrade	325,600	71,878
Replace Control Rods	370,000	239,589
Equipment Qualification and Modification	2,359,200	2,284,020
Core Spray Sparger Clamps	230,200	-
Radwaste Handling Bldg.	300,000	1,027
Torus Internal Modifications	1,750,000	1,649,922
Torus Attached Piping	14,450,000	8,822,513
Appendix "R" Modifications	11,300,000	1,184
IE & Non-IE Uninterruptible Power Supply	2,054,600	305
Air/Nitrogen System Upgrade	254,400	-
Miscellaneous Projects < 20,000	7,866,260	6,111,661
<b>Total</b>	<b><u>100,267,660</u></b>	<b><u>71,864,012</u></b>

PRAIRIE ISLAND

Significant Projects NRC > \$200,000	<u>Authorized</u>	<u>Actual</u>
Expand Spent Fuel Storage	1,988,200	1,991,940
Revise Security Facility	7,550,000	7,710,600
Spare Main Sta. Aux Transformer	233,000	251,193
Fire Protection Modifications	696,700	784,086
Phase II Expansion of Spent Fuel	6,300,000	6,355,975
Second Reserve Sta. Aux Transformer	5,250,000	5,134,806
Upgrade Fire Protection	3,210,000	3,212,748
High Radiation Monitoring Equip	1,405,000	1,535,777
79-02 Pipe Hangers & Anchor Bolts	2,000,000	2,526,405
79-14 As Built Piping System Modifications	2,641,000	2,882,037
Containment Isolation Signal Instrument Air	270,000	22,690
Environmental Qualification of Elec Equip	1,500,000	1,392,518
New Protection System Transmitters	554,400	-
Plant Process Computer Replacement	5,000,000	421,922
Storage Yard Enclosure	1,320,000	1,398,916
Metal Impact Monitoring System Unit I	384,500	231,647
Internal Hydrogen Recombiner	1,900,000	503,758
Fire Protection - Appendix R Reg.	1,372,000	325,281
DC Capacity and Distrib. Additions	1,142,000	158
Service Building Addition	1,925,000	9,480
Emergency AC Capacity Additions	1,959,000	223
Electric Equip Seismic Analysis	200,000	-
Pressurizer SRV Discharge Piping Mod	1,358,700	-
Nuclear Instrumentation System Upgrade	683,400	
Replace CT-1 Transformer	491,000	
Turbine Building Crane Modification	708,700	
Miscellaneous Projects < \$20,000	2,990,960	2,385,966
Total	<u>55,033,560</u>	<u>39,078,126</u>

PRAIRIE ISLAND

Significant Projects TMI > \$200,000	<u>Authorized</u>	<u>Actual</u>
Administration Building Addition	1,610,000	1,647,041
Primary System Subcooling Meter	788,700	811,286
Reactor Vessel Level Instrumentation	5,500,000	298,523
Plant Radiation Shielding Upgrade	3,450,000	3,415,886
Post LOCA Sampling Upgrade	500,000	596,953
High Radiation Monitoring Equipment	1,405,000	1,535,777
Containment Instrumentation Upgrade	4,254,000	4,081,867
Reactor Coolant System Venting	959,600	955,182
On Site Technical Support Center	891,000	1,011,249
On Site/Near Site Technical Support Center	2,000,000	1,976,189
Free AFWP Steamer of AC Power	677,000	676,895
Off Site Dose Computation System	3,000,000	2,059,974
Nuclear Simulator	8,535,000	3,322,866
Training Facility Outfitting	236,000	145,457
Safety System Status Monitoring	4,000,000	51,027
Emergency Facility Computer Addition	3,000,000	724,044
Ten Mile Emergency Notification System	444,000	444,216
Control Room Habitability	500,000	441,353
Upgrade Meteorological Tower	220,000	226,092
Multiplexor for Plant Data Base	7,500,000	300,738
Steam Generator Training Equipment	223,000	243,615
Control Room Modification & Evaluation	880,500	-
Uninterruptible Power Supply	897,000	32
Miscellaneous Projects < 20,000	880,100	716,692
<b>Total</b>	<b><u>52,350,900</u></b>	<b><u>25,682,954</u></b>

Environmental

Noise Abatement Equipment on Power Relief Valves	225,000	245,396
Modify Circulating Water Inlet and Discharge	27,135,000	16,352,710
Miscellaneous Projects < 20,000	787,870	805,509
<b>Total</b>	<b><u>28,147,870</u></b>	<b><u>17,403,615*</u></b>

\*Expected to be 3,000,000 more