



Northern States Power Company

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10 CFR Part 20

U S Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
Docket Nos. 50-282 License Nos. DPR 42
50-306 DPR-60

1990 Annual Report

This submittal consists of the three reports that make up the Annual Report (Required by Technical Specification 6.7.A.2) and the radiation exposure report required by 10 CFR Part 20, Section 20.407:

Annual Report:

Occupational Exposure Report
Report of Safety/Relief Valve Failures and Challenges
Primary Coolant Spike Report

Personnel Whole Body Exposure Report

There were no safety/relief valve failures or challenges in 1990, nor were there any Iodine spikes exceeding the limits specified in Technical Specification 3.1.D.1 to report.

Please contact us if you have questions concerning these reports.

Thomas M Parker
Manager
Nuclear Support Services

c: Regional Administrator Region III, NRC
Senior Resident Inspector, NRC
NPR Project Manager, NRC
J E Silberg

Attachments:

1. Occupational Exposure Report
2. Personnel Whole Body Exposure Report

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Attachment 1

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Occupational Exposure Report

Number of Personnel and Man-Rem by Work and Job Function

FEB 06 1991

License No. DPR-42/DPR-60 (Unit 1 and Unit 2)

Number of Personnel and Man-Rem by Work and Job Function
1990

Work & Job Function	Number of Persons > 0.100			Total Man-Rem		
	Station	Utility	Contract	Station	Utility	Contract
Reactor Ops & Surv						
Operators	2	0	0	2.067	0.0	0.0
Maintenance	2	0	0	1.435	0.613	0.133
Supv & Engr	1	0	0	0.383	0.127	0.265
Health Physics	5	0	1	1.756	0.0	0.816
Instr & Control	0	0	0	0.108	0.0	0.0
Security	0	0	0	0.0	0.0	0.012
Routine Maintenance						
Operators	0	0	0	0.033	0.0	0.0
Maintenance	19	26	3	5.878	10.090	1.414
Supv & Engr	7	0	10	1.424	0.080	3.202
Health Physics	0	0	0	0.071	0.0	0.135
Instr & Control	9	1	0	1.853	0.182	0.020
Security	0	0	0	0.0	0.0	0.0
Special Maintenance						
Operators	10	0	0	3.256	0.0	0.0
Maintenance	33	103	17	8.913	34.860	4.112
Supv & Engr	8	1	46	2.335	0.302	21.185
Health Physics	10	0	35	2.375	0.0	9.125
Instr & Control	2	0	1	0.755	0.023	0.157
Security	0	0	0	0.0	0.0	0.0
Waste Processing						
Operators	0	0	0	0.118	0.0	0.0
Maintenance	2	0	0	1.011	0.327	0.002
Supv & Engr	0	0	0	0.006	0.0	0.0
Health Physics	3	0	1	1.248	0.0	0.304
Instr & Control	0	0	0	0.0	0.0	0.0
Security	0	0	0	0.0	0.0	0.0
Refueling						
Operators	0	0	0	0.938	0.0	0.0
Maintenance	24	25	0	7.888	7.370	0.0
Supv & Engr	2	0	0	0.851	0.016	0.138
Health Physics	0	0	1	0.049	0.0	0.266
Instr & Control	0	0	0	0.158	0.0	0.0
Security	0	0	0	0.0	0.0	0.0

Inservice Inspection

Operators	0	0	0	0.0	0.0	0.0
Maintenance	6	29	39	2.249	12.576	19.276
Supv & Engr	1	0	22	0.530	0.055	9.159
Health Physics	1	0	16	0.210	0.0	3.933
Instr & Control	0	0	0	0.048	0.0	0.0
Security	0	0	0	0.0	0.0	0.0
Sub totals						
Operators	12	0	0	6.410	0.0	0.0
Maintenance	86	183	59	27.374	65.836	24.937
Supv & Engr	19	1	78	5.529	0.580	33.949
Health Physics	19	0	54	5.709	0.0	14.579
Instr & Control	11	1	1	2.922	0.205	0.177
Security	0	0	0	0.0	0.0	0.012
Grand Total	147	185	192	47.944	66.621	73.654

Total Dose 188.219

Attachment 2

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Personnel Whole Body Exposure Report
Annual 10 CFR Part 20.407 Reporting

NUCLEAR
SUPPORT SVCS.

FEB 06 1991

NORTHERN STATES POWER COMPANY
Prairie Island Nuclear Generating Plant
1717 Wakonade Drive East
Welch, MN 55089

License No. DPR-42/DPR-60 (Unit 1 and Unit 2)

ANNUAL 10CFR PART 20.407 REPORTING
1990

DOSE RANGE (REM)	NUMBER OF INDIVIDUALS IN EACH RANGE
No Measureable -----	632
Measureable exposure less than 0.10 -----	276
0.1 to 0.25 -----	200
0.25 to 0.50 -----	135
0.50 to 0.75 -----	78
0.75 to 1.00 -----	31
1.00 to 2.00 -----	17
2.00 to 3.00 -----	0
3.00 to 4.00 -----	0
4.00 to 5.00 -----	0
5.00 to 6.00 -----	0
6.00 to 7.00 -----	0
7.00 to 8.00 -----	0
8.00 to 9.00 -----	0
9.00 to 10.0 -----	0
10.0 to 11.0 -----	0
11.0 to 12.0 -----	0
Greater than 12.0 -----	0
Total number of individuals reported	1369
Total Dose	188.219