



Northern States Power Company

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February 11, 1994

10CFR 20.407 and
Monticello
Technical Specification
Sections 6.7.A.2 & 6.7.A.6

US Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555

MONTICELLO NUCLEAR GENERATING PLANT
Docket No. 50-263 License No. DPR-22

Annual Report of Occupational Radiation Exposure and Safety
Relief Valve Challenges - January 1 through December 31, 1993

Attached are three reports for 1993:

- 1) Annual Report of Personnel Whole Body Exposure (Required by 10 CFR Part 20, Section 20.407(a)(1) and Section 20.407(b))
- 2) Annual Report of Occupational Exposure (Required by Technical Specification 6.7.A.2)
- 3) Annual Report of Safety and Relief Valve Failures and Challenges (Required by Technical Specification 6.7.A.6 and NUREG 0737, Item II.K.3.3)

This letter contains no new NRC commitments, nor does it modify any prior commitments.

Please contact Marv Engen at (612) 295-1291 if you require additional information concerning these reports.

Roger O Anderson
Director
Licensing and Management Issues

cc: Director, Office of Nuclear Regulatory Research
Regional Administrator-III, NRC
NRR Project Manager, NRC
Resident Inspector, NRC
State of Minnesota,
Attn: Kris Sanda

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ATTACHMENT 1

License: DPR-22
PERSONNEL WHOLE BODY EXPOSURE REPORT
FOR CALENDAR YEAR 1993

ANNUAL DOSE RANGES REM	NUMBER OF INDIVIDUALS IN EACH RANGE
No measurable exposure	446
<0.100	274
0.100 - 0.249	146
0.250 - 0.499	148
0.500 - 0.749	96
0.750 - 0.999	105
1.000 - 1.999	181
2.000 - 3.000	4
>3.000	0

TOTAL NUMBER OF INDIVIDUALS REPORTED 1402

TOTAL PERSON-REM 493.966

The information submitted is for the total number of individuals for whom personnel monitoring was required during the calendar year.

ATTACHMENT 2

MONTICELLO NUCLEAR GENERATING PLANT

ANNUAL REPORT OF OCCUPATIONAL RADIATION EXPOSURE

1993

Number of Personnel and Man-Rem by Work and Job Function (1993)

Work & Job Function	Number of Persons > .100			Total Man-Rem		
	Station	Utility	Contract	Station	Utility	Contract
Rx Ops & Surv						
Operations	45	0	0	30.052	0.0	0.0
Maintenance	40	93	3	9.378	28.287	2.421
Supv & Engr	40	3	10	21.642	1.165	3.887
Health Physics	23	0	18	10.573	0.0	4.416
Instr & Control	8	0	0	4.868	0.0	0.0
Security	0	0	0	0.0	0.0	1.320
Routine Maintenance						
Operators	10	0	0	3.208	0.0	0.0
Maintenance	45	240	29	25.831	81.861	8.049
Supv & Engr	6	0	11	2.158	0.339	3.669
Health Physics	10	0	16	2.906	0.0	4.434
Instr & Control	0	0	0	0.245	0.0	0.0
Security	0	0	0	0.0	0.0	0.0
* Special Maintenance						
Operators	34	0	0	11.260	0.0	0.0
Maintenance	26	144	29	12.633	88.667	9.018
Supv & Engr	19	2	15	6.405	1.057	4.226
Health Physics	10	0	21	5.876	0.0	10.078
Instr & Control	8	0	0	4.885	0.0	0.0
Security	0	0	0	0.0	0.0	0.0
Waste Processing						
Operators	0	0	0	0.188	0.0	0.0
Maintenance	0	8	0	0.218	2.785	0.059
Supv & Engr	1	0	8	0.241	0.010	2.529
Health Physics	0	0	2	0.073	0.0	0.605
Instr & Control	0	0	0	0.005	0.0	0.0
Security	0	0	0	0.0	0.0	0.0
Refueling						
Operators	48	0	0	14.503	0.0	0.0
Maintenance	9	30	0	2.238	7.293	0.0
Supv & Engr	2	0	5	0.594	0.143	1.159
Health Physics	3	0	3	1.257	0.0	1.256
Instr & Control	0	0	0	0.071	0.0	0.0
Security	0	0	0	0.0	0.0	0.014
Inservice Inspection						
Operators	0	0	0	0.341	0.0	0.0
Maintenance	1	45	20	0.254	15.791	13.233
Supv & Engr	1	0	32	0.320	0.122	23.045
Health Physics	2	0	3	0.444	0.0	1.017
Instr & Control	0	0	0	0.026	0.0	0.0
Security	0	0	0	0.0	0.0	0.0
Unassigned Exposure				-0.682	0.0	0.0

** Sub Totals							
Operators	137	0	0	59.552	0.0	0.0	
Maintenance	121	560	81	50.552	224.684	32.780	
Supv & Engr	69	5	81	31.360	2.836	38.515	
Health Physics	48	0	63	21.129	0.0	21.806	
Instr & Control	16	0	0	10.100	0.0	0.0	
Security	0	0	0	0.0	0.0	1.334	
Unassigned				-0.682	0.0	0.0	
Grand Totals	391	565	225	172.011	227.520	94.435	

* Special Maintenance Items: 1) Plant Painting
 2) Hard Pipe Drywell Vent Project
 3) Refueling Outage

** INDIVIDUALS MAY BE LISTED UNDER MORE THAN ONE WORK AND JOB FUNCTION

ATTACHMENT 3

MONTICELLO NUCLEAR GENERATING PLANT

ANNUAL REPORT OF SAFETY/RELIEF VALVE FAILURES AND CHALLENGES

1993

This report is made in accordance with NUREG-0737, Item II.K.3.3 and Monticello Technical Specification 6.7.A.6 and covers the period from January 1 through December 31, 1993.

Failures

03/25/93 The topworks (pilot and second stage assembly) associated with safety/relief valve RV-2-71B was changed out due to excessive pilot/second stage leakage.

The topworks associated with safety/relief valve RV-2-71H was changed out due to a suspected small leak on the pilot stage bellows.

Challenges

03/23/93 Safety/relief valve RV-2-71H lifted automatically once at a reactor pressure of 1052 psig following a reactor scram during plant startup. The lift was initiated by the valve's low-low set logic. The valve lift setpoint under this logic scheme is 1052 psig. The self actuation setpoint of the valve is 1109 psig. This safety relief valve challenge was previously reported in Monticello Licensee Event Report 93-006.