

AMENDMENT

to the

MONTICELLO

Effluent and Waste Disposal Semiannual Report

(for the 1st Half of 1987)

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MONTICELLO NUCLEAR GENERATING PLANT
NORTHERN STATES POWER COMPANY

Period: Jan - Jun 1987
License No. DPR-22

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT

Table 1A Gaseous Effluents - Summation of all Releases

	Units	1st Qtr	2nd Qtr	Pcnt Est Error

A. Noble Gases:				
1. Total Release:				
A. Elevated Release	Ci	7.08E+02	9.26E+02	
B. Building Vent Release	Ci	3.51E+02	1.79E+02	
C. Total	Ci	1.06E+03	1.11E+03	5.00E+01
2. Average Release Rate:				
A. Elevated Release	uCi/sec	9.11E+01	1.18E+02	
B. Building Vent Release	uCi/sec	4.52E+01	2.27E+01	
C. Total	uCi/sec	1.36E+02	1.41E+02	5.00E+01
3. Percent Tech Spec Qtrly Reporting Level				
Gamma Radiation		8.54E+00	4.02E+00	
Beta Radiation		5.44E+00	2.50E+00	
B. Iodines:				
1. Total I-131:				
A. Elevated Release	Ci	1.24E-02	1.91E-02	
B. Building Vent Release	Ci	8.89E-03	2.05E-02	
C. Total	Ci	2.13E-02	3.95E-02	5.00E+01
2. Average I-131 Release Rate:				
A. Elevated Release	uCi/sec	1.60E-03	2.42E-03	
B. Building Vent Release	uCi/sec	1.14E-03	2.60E-03	
C. Total	uCi/sec	2.74E-03	5.03E-03	5.00E+01
C. Long Lived Particulates and Gross Alpha Releases:				
1. Total Particulates:				
A. Elevated Release	Ci	1.05E-03	1.08E-03	
B. Building Vent Release	Ci	3.05E-03	2.19E-03	
C. Total	Ci	4.09E-03	3.27E-03	5.00E+01
2. Average Release Rate:				
A. Elevated Release	uCi/sec	1.35E-04	1.37E-04	
B. Building Vent Release	uCi/sec	3.92E-04	2.78E-04	
C. Total	uCi/sec	5.26E-04	4.15E-04	5.00E+01

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Table 1B Gaseous Effluents - Elevated Release (Continued)

Nuclides Released	Units	Continuous Mode		Batch Mode	
		1st Qtr	2nd Qtr	1st Qtr	2nd Qtr
3. Particulates:					
Ce144	Ci	7.97E-06	1.38E-06	0.0	0.0
Ce141	Ci	3.12E-07	3.85E-06	0.0	0.0
Ba140	Ci	7.16E-04	7.49E-04	0.0	0.0
Cs137	Ci	6.43E-06	4.44E-06	0.0	0.0
Sr90	Ci	1.50E-06	1.62E-06	0.0	0.0
Sr89	Ci	3.09E-04	3.10E-04	0.0	0.0
Co60	Ci	2.03E-06	3.62E-06	0.0	0.0
Mn54	Ci	4.31E-07	7.14E-07	0.0	0.0
Cr51	Ci	3.06E-06	1.93E-06	0.0	0.0
Total	Ci	1.05E-03	1.08E-03	0.0	0.0

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Table 1C Gaseous Effluents - Building Vent Releases (Continued)

Nuclides Released	Units	Continuous Mode		Batch Mode	
		1st Qtr	2nd Qtr	1st Qtr	2nd Qtr
3. Particulates:					
Ce141	Ci	1.71E-05	7.40E-06	0.0	0.0
Ba140	Ci	1.40E-03	1.58E-03	0.0	0.0
Cs137	Ci	2.83E-04	1.60E-04	0.0	0.0
Cs136	Ci	2.65E-05	0.0	0.0	0.0
Cs134	Ci	5.55E-05	4.36E-06	0.0	0.0
Sr90	Ci	8.62E-06	7.99E-06	0.0	0.0
Sr89	Ci	1.77E-04	2.52E-04	0.0	0.0
Zn65	Ci	7.66E-05	5.53E-06	0.0	0.0
Co60	Ci	3.16E-04	8.27E-05	0.0	0.0
Co58	Ci	6.89E-05	1.35E-05	0.0	0.0
Co57	Ci	3.41E-06	0.0	0.0	0.0
Mn54	Ci	4.66E-05	0.0	0.0	0.0
Cr51	Ci	5.69E-04	7.97E-05	0.0	0.0
Total	Ci	3.05E-03	2.19E-03	0.0	0.0