

AMENDMENT

to the

MONTICELLO

Effluent and Waste Disposal Semi-Annual Report

(for the Second Half of 1986)

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MONTICELLO NUCLEAR GENERATING PLANT  
NORTHERN STATES POWER COMPANY

Period: Jul - Dec 1986  
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
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A. Noble Gases:				
1. Total Release:				
A. Elevated Release	Ci	4.77E+02	6.07E+02	
B. Building Vent Release	Ci	1.13E+02	1.68E+02	
C. Total	Ci	5.90E+02	7.75E+02	5.00E+01
2. Average Release Rate:				
A. Elevated Release	uCi/sec	6.00E+01	7.63E+01	
B. Building Vent Release	uCi/sec	1.42E+01	2.12E+01	
C. Total	uCi/sec	7.42E+01	9.75E+01	5.00E+01
3. Percent Tech Spec Qtrly Reporting Level				
Gamma Radiation		2.52E+00	3.36E+00	
Beta Radiation		1.61E+00	2.17E+00	
B. Iodines:				
1. Total I-131:				
A. Elevated Release	Ci	3.63E-03	6.46E-03	
B. Building Vent Release	Ci	3.28E-03	1.27E-02	
C. Total	Ci	6.91E-03	1.91E-02	5.00E+01
2. Average I-131 Release Rate:				
A. Elevated Release	uCi/sec	4.57E-04	8.13E-04	
B. Building Vent Release	uCi/sec	4.13E-04	1.59E-03	
C. Total	uCi/sec	8.69E-04	2.41E-03	5.00E+01
C. Long Lived Particulates and Gross Alpha Releases: }				
1. Total Particulates:				
A. Elevated Release	Ci	9.42E-04	8.25E-04	
B. Building Vent Release	Ci	7.97E-04	3.78E-03	
C. Total	Ci	1.74E-03	4.60E-03	5.00E+01
2. Average Release Rate:				
A. Elevated Release	uCi/sec	1.18E-04	1.04E-04	
B. Building Vent Release	uCi/sec	1.00E-04	4.75E-04	
C. Total	uCi/sec	2.19E-04	5.79E-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	6.77E-06	4.81E-06	0.0	0.0
Ce141	Ci	2.00E-06	0.0	0.0	0.0
Ba140	Ci	6.40E-04	5.76E-04	0.0	0.0
Cs137	Ci	1.55E-05	5.53E-06	0.0	0.0
Cs134	Ci	5.09E-07	0.0	0.0	0.0
Sr90	Ci	1.69E-06	1.06E-06	0.0	0.0
Sr89	Ci	2.62E-04	2.37E-04	0.0	0.0
Co60	Ci	1.07E-05	0.0	0.0	0.0
Mn54	Ci	1.67E-06	0.0	0.0	0.0
Total	Ci	9.42E-04	8.25E-04	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	0.0	1.94E-05	0.0	0.0
Ba140	Ci	3.17E-04	1.84E-03	0.0	0.0
Cs137	Ci	1.08E-04	3.77E-04	0.0	0.0
Cs134	Ci	3.25E-06	2.20E-05	0.0	0.0
Sr90	Ci	1.27E-06	6.80E-06	0.0	0.0
Sr89	Ci	5.92E-05	2.30E-04	0.0	0.0
Zn65	Ci	2.23E-06	1.65E-04	0.0	0.0
Co60	Ci	2.62E-04	3.93E-04	0.0	0.0
Co58	Ci	4.49E-06	9.84E-05	0.0	0.0
Co57	Ci	0.0	4.35E-06	0.0	0.0
Mn54	Ci	2.16E-05	7.54E-05	0.0	0.0
Cr51	Ci	1.77E-05	5.50E-04	0.0	0.0
Total	Ci	7.97E-04	3.78E-03	0.0	0.0