



NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

June 3, 1977

## Regulatory Docket File



Mr D K Davis, Acting Director  
Operating Reactors Branch #2  
Division of Operating Reactors  
U S Nuclear Regulatory Commission  
Washington, DC 20555

Dear Mr Davis:

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

Appendix 1 Filing  
Supplement 2 - Revised

Our letter of September 15 submitted Supplement 2 to our Appendix 1 filing.

Subsequently, an error has been discovered in the computer program used to calculate the release of individual noble gases from the gross activity measurements. There is no change in the gross release levels, but merely a change in the distribution of isotopic levels that make up the gross activity.

A number of pages in the supplement require revision and for convenience, we are submitting with this letter 40 copies of the complete supplement appropriately revised.

Yours very truly,

L O Mayer, PE  
Manager of Nuclear Support Services

LOM/ECW/deh

cc: J G Keppler  
G Charnoff  
MPCA  
Attn: J W Ferman

Attachment

9105140473 770603  
PDR ADDCK 05000263  
P PDR

NORTHERN STATES POWER COMPANY  
MONTICELLO NUCLEAR GENERATING PLANT  
DOCKET NO. 50-265      LICENSE NO. DPR-22

APPENDIX I ANALYSIS

SUPPLEMENT NO. 2

Revision Dated: June 3, 1977

# INTRODUCTION

Supplement No. 2 includes the additional data committed by the Enclosure 1 Item 5 response in our June 4, 1976 filing. This supplement was originally submitted on September 15, 1976. Since that time, we have discovered an error in the computer program used to calculate the release of individual noble gases from gross activity measurements. We have corrected this error and have reissued Supplement No. 2. Revisions to the original data are indicated by a side line.

ENCLOSURE 1

MONTICELLO

Item 5

Effluent Release Data from previous reactor operation should be provided if available, for use in evaluating the source term calculations. Such data should include at least one full year of effluent release data tabulated by effluent release point, month, mode of operation (e.g., full power operation, refueling shutdown), excluding the first year of reactor operation.

Response

Gaseous and liquid effluent release data have been summarized for the period July 1, 1975 through June 30, 1976, and are presented in the following described Tables:

Table 1.5-1

100-Meter Plant Stack Releases

Effluents from this release point consist of releases from the condenser offgas treatment system, the turbine gland seal system, and stack dilution air. Stack dilution air is normally supplied from the air ejector pipe tunnel and the Compressed Gas Storage Building. During Standby Gas Treatment operation, dilution air also includes a contribution from this system. All containment purges are processed by the Standby Gas Treatment System.

Table 1.5-2

Reactor Building Vent Releases

Included in the effluents from this release point are ventilation exhaust air from the Reactor Building, the Turbine Building, and the Radwaste Building.

Table 1.5-3

Liquid Waste Released

As noted in this Table, there were no liquid releases during the period July 1, 1975 through June 30, 1976

This Supplement No 2, consisting mainly of additional data, is formatted to replace the information presented on Pages 1-3, 1-4, and 1-5 of the June 4, 1976 submittal.

TABLE 1.5-1

MONTICELLO NUCLEAR GENERATING PLANT  
GASEOUS RELEASES - 100 METER PLANT STACK

	JUL 75		AUG 75		SEP 75	
	POWER OP	TOTAL	POWER OP	TOTAL	POWER OP	TOTAL
<b>A. NOBLE GASES (CII)</b>						
KE133	1.49E-04	1.49E-04	1.54E-04	1.54E-04	5.72E-03	8.59E-03
KE135	9.83E-04	9.83E-04	1.29E-03	1.29E-03	3.84E-04	6.32E-04
KR85M	0.0	0.0	0.0	0.0	0.0	0.0
KR88	0.0	0.0	0.0	0.0	0.0	0.0
KR87	0.0	0.0	0.0	0.0	0.0	0.0
KE138	0.0	0.0	0.0	0.0	0.0	0.0
KR90	0.0	0.0	0.0	0.0	0.0	0.0
KE139	0.0	0.0	0.0	0.0	0.0	0.0
KR89	0.0	0.0	0.0	0.0	0.0	0.0
KE137	0.0	0.0	0.0	0.0	0.0	0.0
KE135M	0.0	0.0	0.0	0.0	0.0	0.0
KR83M	0.0	0.0	0.0	0.0	0.0	0.0
KE133M	6.40E-01	6.40E-01	7.17E-01	7.17E-01	2.33E-01	3.56E-01
KE131M	6.45E-01	6.45E-01	1.03E-02	1.03E-02	3.32E-01	5.00E-01
KR85	2.98E-03	2.98E-03	3.08E-03	3.08E-03	9.53E-02	1.41E-03
TOTAL	1.80E-04	1.80E-04	1.87E-04	1.87E-04	6.73E-03	1.01E-04
<b>C. IODINES (CI)</b>						
I-131	8.66E-02	8.66E-02	6.72E-02	6.72E-02	8.16E-02	3.21E-01
I-133	1.52E-01	1.52E-01	1.40E-01	1.40E-01	2.60E-02	5.33E-02
I-135	9.69E-02	9.69E-02	7.12E-02	7.12E-02	7.60E-03	1.45E-02
<b>D. GT 8 DAY PART (CI)</b>						
NO147	0.0	0.0	0.0	0.0	0.0	0.0
CE144	9.58E-05	9.58E-05	1.15E-04	1.15E-04	2.10E-05	1.02E-04
CE141	3.13E-06	3.13E-06	3.33E-06	3.33E-06	1.65E-06	1.65E-06
BA140	1.82E-03	1.82E-03	2.49E-03	2.49E-03	4.42E-04	4.92E-04
CS137	2.65E-05	2.65E-05	4.15E-05	4.15E-05	1.07E-05	1.02E-02
CS136	0.0	0.0	0.0	0.0	5.75E-07	8.64E-04
CS134	4.64E-06	4.64E-06	3.20E-06	3.20E-06	2.34E-06	9.10E-03
SB126	0.0	0.0	0.0	0.0	0.0	7.07E-06
SB124	9.80E-07	9.80E-07	0.0	0.0	9.48E-07	4.78E-06
AG110M	0.0	0.0	0.0	0.0	0.0	0.0
RU106	0.0	0.0	0.0	0.0	0.0	0.0
RU103	0.0	0.0	0.0	0.0	4.30E-07	1.00E-06
ZR95	0.0	0.0	0.0	0.0	0.0	0.0
NR95	0.0	0.0	0.0	0.0	0.0	0.0
SP90	7.30E-05	7.30E-05	3.72E-04	3.72E-04	1.20E-04	3.36E-04
SP89	9.79E-04	9.79E-04	1.36E-03	1.36E-03	4.37E-04	1.23E-03
ZN65	1.89E-06	1.89E-06	5.76E-06	5.76E-06	3.19E-06	2.64E-05
CO60	1.97E-06	1.97E-06	4.81E-06	4.81E-06	5.58E-07	5.58E-07
FE59	0.0	0.0	0.0	0.0	2.32E-06	5.42E-06
CO58	0.0	0.0	0.0	0.0	0.0	0.0
CO57	8.84E-07	8.84E-07	2.23E-06	2.23E-06	5.13E-07	5.13E-07
MN54	4.94E-06	4.94E-06	0.0	0.0	2.24E-07	1.71E-05
CR51	0.0	0.0	0.0	0.0	2.62E-06	6.11E-06
TOTAL	3.01E-03	3.01E-03	4.40E-03	4.40E-03	1.05E-03	2.24E-02
<b>E. TRITIUM (CI)</b>						
	1.73E-00	1.73E-00	6.26E-01	6.26E-01	2.64E-01	7.91E-01
<b>F. GROSS ALPHA (CI)</b>						
	1.91E-07	1.91E-07	1.07E-07	1.07E-07	2.53E-07	3.05E-06

TABLE 1.5-1 (continued)

MONTICELLO NUCLEAR GENERATING PLANT  
GASEOUS RELEASES - 100 METER PLANT STACK

	OCT 75			NOV 75			DEC 75		
	POWER	OP	TOTAL	POWER	OP	TOTAL	POWER	OP	TOTAL
A. NOBLE GASES (C1)									
XEL133	0.0	8.76E-01	8.76E-01	1.59E-01	4.62E-01	6.21E-01	6.99E-01	0.0	6.99E-01
XEL135	0.0	0.0	0.0	1.02E-01	9.63E-01	1.49E-01	1.55E-01	0.0	1.55E-01
KR85M	0.0	0.0	0.0	1.20E-00	5.27E-01	1.72E-00	1.88E-00	0.0	1.88E-00
KR88	0.0	0.0	0.0	4.59E-00	2.03E-00	6.62E-00	6.77E-00	0.0	6.77E-00
KR87	0.0	0.0	0.0	7.11E-00	3.21E-00	1.03E-01	1.32E-01	0.0	1.32E-01
XEL138	0.0	0.0	0.0	9.86E-01	7.51E-00	1.06E-02	3.02E-02	0.0	3.02E-02
KR90	0.0	0.0	0.0	5.61E-00	2.68E-00	8.30E-00	8.91E-00	0.0	8.91E-00
XEL139	0.0	0.0	0.0	1.67E-01	7.99E-00	2.47E-01	2.65E-01	0.0	2.65E-01
KR89	0.0	0.0	0.0	1.70E-02	8.22E-01	2.52E-02	2.62E-02	0.0	2.62E-02
XEL137	0.0	0.0	0.0	2.23E-02	1.08E-02	3.31E-02	3.42E-02	0.0	3.42E-02
XEL135M	0.0	0.0	0.0	1.36E-01	6.76E-00	2.04E-01	1.99E-01	0.0	1.99E-01
KR83M	0.0	0.0	0.0	2.07E-00	1.08E-00	3.15E-00	2.61E-00	0.0	2.61E-00
XEL133M	0.0	0.0	0.0	2.84E-01	1.68E-01	4.52E-01	2.16E-01	0.0	2.16E-01
XEL131M	0.0	0.0	0.0	8.59E-01	5.27E-01	1.39E-00	4.96E-01	0.0	4.96E-01
KR85	0.0	0.0	0.0	1.90E-00	1.21E-00	3.11E-00	8.59E-01	0.0	8.59E-01
TOTAL	0.0	8.76E-01	8.76E-01	5.71E-02	2.75E-02	8.46E-02	1.07E-03	0.0	1.07E-03
C. IODINES (C1)									
I-131	0.0	2.48E-03	2.48E-03	8.69E-04	1.92E-04	1.06E-03	1.55E-03	0.0	1.55E-03
I-133	0.0	1.02E-05	1.02E-05	6.39E-03	2.07E-03	8.47E-03	7.21E-03	0.0	7.21E-03
I-135	0.0	0.0	0.0	4.67E-03	1.37E-03	6.05E-03	2.48E-03	0.0	2.48E-03
D. GT 8 DAY PART (C1)									
NO147	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE144	0.0	5.47E-06	5.47E-06	3.07E-05	1.20E-05	4.27E-05	6.24E-05	0.0	6.24E-05
CE141	0.0	9.58E-07	9.58E-07	1.03E-06	9.86E-07	2.01E-06	6.35E-07	0.0	6.35E-07
BA140	0.0	2.07E-06	2.07E-06	5.60E-04	1.02E-04	6.62E-04	1.43E-03	0.0	1.43E-03
CS137	0.0	1.44E-04	1.44E-04	3.53E-05	4.24E-05	7.76E-05	2.27E-05	0.0	2.27E-05
CS136	0.0	4.53E-06	4.53E-06	1.36E-04	2.27E-05	1.58E-04	3.46E-04	0.0	3.46E-04
CS134	0.0	1.13E-04	1.13E-04	2.06E-05	2.89E-05	4.95E-05	1.71E-06	0.0	1.71E-06
SR126	0.0	4.44E-07	4.44E-07	0.0	7.27E-07	7.27E-07	0.0	0.0	0.0
SR124	0.0	0.0	0.0	2.16E-05	1.64E-05	3.80E-05	1.81E-06	0.0	1.81E-06
AG110M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	0.0	1.35E-07	1.35E-07	0.0	5.20E-07	5.20E-07	0.0	0.0	0.0
ZR95	0.0	1.50E-06	1.50E-06	0.0	1.07E-06	1.07E-06	0.0	0.0	0.0
N895	0.0	2.36E-06	2.36E-06	5.88E-06	5.89E-06	1.18E-05	0.0	0.0	0.0
SP90	0.0	1.69E-06	1.69E-06	4.87E-07	9.75E-07	1.46E-06	8.69E-06	0.0	8.69E-06
SR89	0.0	1.44E-05	1.44E-05	2.90E-06	6.81E-06	9.71E-06	9.86E-05	0.0	9.86E-05
ZN65	0.0	6.26E-07	6.26E-07	0.0	1.01E-06	1.01E-06	0.0	0.0	0.0
CO60	0.0	1.92E-06	1.92E-06	0.0	3.76E-07	3.76E-07	0.0	0.0	0.0
FE59	0.0	4.19E-07	4.19E-07	0.0	1.40E-06	1.40E-06	0.0	0.0	0.0
CO58	0.0	0.0	0.0	0.0	6.45E-07	6.45E-07	0.0	0.0	0.0
CO57	0.0	3.56E-07	3.56E-07	4.76E-07	2.09E-07	6.85E-07	0.0	0.0	0.0
MN54	0.0	6.37E-06	6.37E-06	1.25E-06	3.17E-06	4.42E-06	4.59E-06	0.0	4.59E-06
CR51	0.0	1.15E-06	1.15E-06	0.0	6.10E-07	6.10E-07	0.0	0.0	0.0
TOTAL	0.0	3.02E-04	3.02E-04	8.15E-04	2.49E-04	1.06E-03	1.98E-03	0.0	1.98E-03
E. TRITIUM (C1)									
	0.0	2.96E-01	2.96E-01	3.04E-02	5.96E-02	9.00E-02	2.95E-02	0.0	2.95E-02
F. GROSS ALPHA (C1)									
	0.0	2.83E-07	2.83E-07	2.33E-07	3.56E-07	5.89E-07	2.10E-07	0.0	2.10E-07

TABLE 1.5-1 (continued)

MONTICELLO NUCLEAR GENERATING PLANT  
GASEOUS RELEASES - 100 METER PLANT STACK

	JAN 76			FEB 76			MAR 76		
	POWER	OP	TOTAL	POWER	OP	TOTAL	POWER	OP	TOTAL
A. NOBLE GASES (Ci)									
XE133	7.71E	01	0.0	4.25E	01	0.0	6.03E	01	0.0
XE135	1.33E	01	0.0	8.18E	00	0.0	1.06E	01	0.0
KR85M	1.54E	00	0.0	8.87E	-01	0.0	1.26E	00	0.0
KR88	5.40E	00	0.0	3.04E	00	0.0	4.42E	00	0.0
KR87	9.39E	00	0.0	6.09E	00	0.0	8.10E	00	0.0
XE138	2.79E	02	0.0	1.67E	02	0.0	2.19E	02	0.0
KR90	7.34E	00	0.0	4.38E	00	0.0	5.80E	00	0.0
XE139	2.18E	01	0.0	1.30E	01	0.0	1.73E	01	0.0
KR89	2.15E	02	0.0	1.29E	02	0.0	1.70E	02	0.0
XE137	2.80E	02	0.0	1.68E	02	0.0	2.22E	02	0.0
XE135M	1.63E	01	0.0	9.77E	00	0.0	1.30E	01	0.0
KR83M	2.12E	00	0.0	1.28E	00	0.0	1.70E	00	0.0
XE133M	1.87E	-01	0.0	1.15E	-01	0.0	1.51E	-01	0.0
XE131M	5.56E	-01	0.0	3.16E	-01	0.0	4.10E	-01	0.0
KR85	1.01E	01	0.0	3.87E	00	0.0	4.72E	00	0.0
TOTAL	9.39E	02	0.0	5.57E	02	0.0	7.39E	02	0.0
C. IODINES (Ci)									
I-131	1.46E	-03	0.0	1.05E	-02	0.0	1.47E	-03	0.0
I-133	8.15E	-03	0.0	6.07E	-03	0.0	1.11E	-02	0.0
I-135	2.32E	-03	0.0	2.84E	-04	0.0	3.70E	-03	0.0
D. GT 8 DAY PART (Ci)									
ND147	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE144	5.03E	-05	0.0	8.47E	-06	0.0	4.63E	-05	0.0
CE141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA140	1.37E	-03	0.0	5.43E	-04	0.0	9.43E	-04	0.0
CS137	1.44E	-05	0.0	2.54E	-04	0.0	1.01E	-05	0.0
CS126	3.46E	-04	0.0	1.36E	-04	0.0	1.35E	-04	0.0
CS134	0.0	0.0	0.0	1.69E	-04	0.0	1.27E	-06	0.0
SB126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB124	0.0	0.0	0.0	1.75E	-04	0.0	1.33E	-06	0.0
AG110M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NR95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR90	2.44E	-05	0.0	1.96E	-05	0.0	1.14E	-05	0.0
SR89	2.94E	-04	0.0	3.24E	-04	0.0	5.09E	-04	0.0
ZN65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FE59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO57	7.26E	-06	0.0	1.21E	-06	0.0	0.0	0.0	0.0
MN54	9.57E	-07	0.0	1.39E	-06	0.0	4.67E	-07	0.0
CR51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	2.81E	-03	0.0	1.63E	-03	0.0	1.66E	-03	0.0
E. TRITIUM (Ci)									
	1.02E	-01	0.0	2.94E	-01	0.0	1.15E	-01	0.0
F. GROSS ALPHA (Ci)									
	1.34E	-07	0.0	2.36E	-07	0.0	8.59E	-08	0.0



TABLE 1.5-1 (continued)

MONTICELLO NUCLEAR GENERATING PLANT  
GASEOUS RELEASES - 100 METER PLANT STACK

	APR 76			MAY 76			JUN 76		
	POWER	OP	TOTAL	POWER	OP	TOTAL	POWER	OP	TOTAL
A. NOBLE GASES (Ci)									
XE133	6.75E	01 0.0	6.75E 01	7.33E	01 0.0	7.33E 01	7.13E	01 0.0	7.13E 01
XE135	1.00E	01 0.0	1.00E 01	1.09E	01 0.0	1.09E 01	1.14E	01 0.0	1.14E 01
KR85M	1.17E	00 0.0	1.17E 00	1.20E	00 0.0	1.20E 00	1.33E	00 0.0	1.33E 00
KR86	4.02E	00 0.0	4.02E 00	4.13E	00 0.0	4.13E 00	4.51E	00 0.0	4.51E 00
KR87	7.18E	00 0.0	7.18E 00	8.47E	00 0.0	8.47E 00	9.08E	00 0.0	9.08E 00
XE138	1.99E	02 0.0	1.99E 02	2.33E	02 0.0	2.33E 02	2.29E	02 0.0	2.29E 02
KR90	5.72E	00 0.0	5.72E 00	6.21E	00 0.0	6.21E 00	6.13E	00 0.0	6.13E 00
XE139	1.55E	01 0.0	1.55E 01	1.85E	01 0.0	1.85E 01	1.83E	01 0.0	1.83E 01
KR89	1.53E	02 0.0	1.53E 02	1.82E	02 0.0	1.82E 02	1.80E	02 0.0	1.80E 02
XE137	2.00E	02 0.0	2.00E 02	2.37E	02 0.0	2.37E 02	2.35E	02 0.0	2.35E 02
XE135M	1.17E	01 0.0	1.17E 01	1.37E	01 0.0	1.37E 01	1.37E	01 0.0	1.37E 01
KR83M	1.54E	00 0.0	1.54E 00	1.78E	00 0.0	1.78E 00	1.79E	00 0.0	1.79E 00
XE133M	1.43E	01 0.0	1.43E 01	1.63E	01 0.0	1.63E 01	1.58E	01 0.0	1.58E 01
XE131M	4.16E	01 0.0	4.16E 01	5.41E	01 0.0	5.41E 01	4.42E	01 0.0	4.42E 01
KR85	6.01E	00 0.0	6.01E 00	1.29E	01 0.0	1.29E 01	6.12E	00 0.0	6.12E 00
TOTAL	6.83E	02 0.0	6.83E 02	8.04E	02 0.0	8.04E 02	7.88E	02 0.0	7.88E 02
C. IODINES (Ci)									
I-131	1.65E	03 0.0	1.65E 03	6.70E	03 0.0	6.70E 03	2.19E	03 0.0	2.19E 03
I-133	8.68E	03 0.0	8.68E 03	1.89E	02 0.0	1.89E 02	6.56E	03 0.0	6.56E 03
I-135	3.74E	03 0.0	3.74E 03	2.42E	03 0.0	2.42E 03	2.30E	03 0.0	2.30E 03
D. GT 8 DAY PART (Ci)									
NO147	0.0	0.0	0.0	0.0	0.0	0.0	2.27E	07 0.0	2.27E 07
CE144	1.92E	05 0.0	1.92E 05	1.58E	05 0.0	1.58E 05	1.59E	05 0.0	1.59E 05
CE141	0.0	0.0	0.0	2.00E	06 0.0	2.00E 06	4.90E	07 0.0	4.90E 07
SA140	7.18E	04 0.0	7.18E 04	8.47E	04 0.0	8.47E 04	8.15E	04 0.0	8.15E 04
CS137	8.67E	06 0.0	8.67E 06	3.98E	05 0.0	3.98E 05	3.25E	05 0.0	3.25E 05
CS136	0.0	0.0	0.0	0.0	0.0	0.0	1.92E	07 0.0	1.92E 07
CS134	0.0	0.0	0.0	2.12E	05 0.0	2.12E 05	1.28E	05 0.0	1.28E 05
SR126	0.0	0.0	0.0	0.0	0.0	0.0	1.22E	07 0.0	1.22E 07
SR124	0.0	0.0	0.0	0.0	0.0	0.0	1.34E	05 0.0	1.34E 05
AG110M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	0.0	0.0	0.0	0.0	0.0	0.0	2.38E	07 0.0	2.38E 07
ZR95	0.0	0.0	0.0	2.36E	06 0.0	2.36E 06	2.00E	07 0.0	2.00E 07
MB95	0.0	0.0	0.0	2.24E	06 0.0	2.24E 06	1.03E	07 0.0	1.03E 07
SR90	1.35E	05 0.0	1.35E 05	7.36E	05 0.0	7.36E 05	5.33E	05 0.0	5.33E 05
SR89	4.92E	04 0.0	4.92E 04	2.46E	04 0.0	2.46E 04	2.05E	04 0.0	2.05E 04
ZR65	0.0	0.0	0.0	1.21E	06 0.0	1.21E 06	2.53E	07 0.0	2.53E 07
CO60	8.47E	07 0.0	8.47E 07	1.03E	06 0.0	1.03E 06	1.44E	07 0.0	1.44E 07
FE59	0.0	0.0	0.0	0.0	0.0	0.0	2.43E	07 0.0	2.43E 07
CO58	0.0	0.0	0.0	1.94E	05 0.0	1.94E 05	1.46E	07 0.0	1.46E 07
CO57	0.0	0.0	0.0	0.0	0.0	0.0	4.69E	08 0.0	4.69E 08
MN54	6.78E	07 0.0	6.78E 07	0.0	0.0	0.0	9.12E	08 0.0	9.12E 08
CR51	0.0	0.0	0.0	0.0	0.0	0.0	8.11E	07 0.0	8.11E 07
TOTAL	1.25E	03 0.0	1.25E 03	1.27E	03 0.0	1.27E 03	1.15E	03 0.0	1.15E 03
E. TRITIUM (Ci)									
	2.48E	01 0.0	2.48E 01	6.25E	01 0.0	6.25E 01	2.15E	01 0.0	2.15E 01
F. GROSS ALPHA (Ci)									
	7.39E	08 0.0	7.39E 08	1.04E	07 0.0	1.04E 07	2.66E	07 0.0	2.66E 07



MONTICELLO NUCLEAR GENERATING PLANT  
GASEOUS RELEASES - 140 FT REACTOR BUILDING VENT

TABLE 1.5.2

	JUL 75			AUG 75			SEP 75		
	POWER	OP	REFUEL	POWER	OP	REFUEL	POWER	OP	REFUEL
TOTAL									
<b>A. NOBLE GASES (CI)</b>									
KE133	1.25E	01	0.0	1.25E	01	0.0	1.19E	01	1.19E
KE135	3.77E	01	0.0	3.77E	01	0.0	4.45E	01	4.45E
KR85M	6.77E	00	0.0	6.77E	00	0.0	8.24E	00	8.24E
KR88	1.52E	01	0.0	1.52E	01	0.0	1.89E	01	1.89E
KR87	2.88E	01	0.0	2.88E	01	0.0	2.90E	01	2.90E
KE139	4.06E	02	0.0	4.06E	02	0.0	5.73E	02	5.73E
KR90	1.57E	01	0.0	1.57E	01	0.0	1.89E	01	1.89E
KE139	4.68E	01	0.0	4.68E	01	0.0	5.62E	01	5.62E
KR89	4.61E	02	0.0	4.61E	02	0.0	5.55E	02	5.55E
KE137	6.02E	02	0.0	6.02E	02	0.0	1.09E	03	1.09E
KE135M	3.56E	01	0.0	3.56E	01	0.0	4.28E	01	4.28E
KR83M	5.36E	00	0.0	5.36E	00	0.0	6.32E	00	6.32E
KE133M	3.76E	01	0.0	3.76E	01	0.0	3.75E	01	3.75E
KE131M	3.55E	02	0.0	3.55E	02	0.0	3.43E	02	3.43E
KR85	5.50E	01	0.0	5.50E	01	0.0	5.16E	01	5.16E
TOTAL	1.67E	03	0.0	1.67E	03	0.0	2.45E	03	2.45E
<b>C. IODINES (CI)</b>									
I-131	6.51E	01	0.0	6.51E	01	0.0	5.11E	01	5.11E
I-133	1.61E	00	0.0	1.61E	00	0.0	1.39E	00	1.39E
I-135	9.51E	01	0.0	9.51E	01	0.0	8.27E	01	8.27E
<b>D. GE 8 DAY PART (CI)</b>									
NO147	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE144	0.0	0.0	0.0	0.0	0.0	0.0	1.69E	04	1.69E
CE141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA140	1.29E	02	0.0	1.29E	02	0.0	9.50E	03	9.50E
CS137	7.93E	03	0.0	7.93E	03	0.0	2.61E	03	2.61E
CS136	0.0	0.0	0.0	0.0	0.0	0.0	1.70E	04	1.70E
CS134	6.70E	03	0.0	6.70E	03	0.0	2.25E	03	2.25E
SB126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB124	9.50E	06	0.0	9.50E	06	0.0	1.14E	05	1.14E
AG110M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	2.18E	04	0.0	2.18E	04	0.0	1.08E	03	1.08E
ZR95	5.03E	04	0.0	5.03E	04	0.0	1.68E	03	1.68E
NB95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR90	8.12E	04	0.0	8.12E	04	0.0	4.42E	04	4.42E
SP89	4.03E	03	0.0	4.03E	03	0.0	1.24E	03	1.24E
ZN65	1.49E	03	0.0	1.49E	03	0.0	3.63E	04	3.63E
CO60	3.41E	04	0.0	3.41E	04	0.0	1.87E	04	1.87E
FE59	1.52E	05	0.0	1.52E	05	0.0	0.0	0.0	0.0
CO58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MN54	7.12E	05	0.0	7.12E	05	0.0	7.00E	05	7.00E
CR51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.50E	02	0.0	3.50E	02	0.0	1.98E	02	1.98E
<b>E. TRITIUM (CI)</b>									
	2.09E	00	0.0	2.09E	00	0.0	4.83E	00	4.83E
<b>F. GROSS ALPHA (CI)</b>									
	2.57E	04	0.0	2.57E	04	0.0	1.24E	04	1.24E

TABLE 1.5-2 (continued)

MONTICELLO NUCLEAR GENERATING PLANT  
GASEOUS RELEASES - 140 FT REACTOR BUILDING VENT

	OCT 75			NOV 75			DEC 75		
	POWER OP	REFUEL	TOTAL	POWER OP	REFUEL	TOTAL	POWER OP	REFUEL	TOTAL
<b>A. NOBLE GASES (Ci)</b>									
XE133	0.0	2.03E-02	2.03E-02	1.94E-02	1.25E-02	1.25E-02	1.77E-01	0.0	1.77E-01
XE135	0.0	0.0	0.0	1.43E-00	4.12E-01	1.84E-00	4.57E-00	0.0	4.57E-00
KR85M	0.0	0.0	0.0	1.69E-01	4.70E-02	2.16E-01	5.48E-01	0.0	5.48E-01
KR88	0.0	0.0	0.0	6.46E-01	1.81E-01	8.27E-01	2.00E-00	0.0	2.00E-00
KR87	0.0	0.0	0.0	9.93E-01	2.86E-01	1.28E-00	3.84E-00	0.0	3.84E-00
XE138	0.0	0.0	0.0	2.00E-01	6.69E-01	2.07E-01	8.66E-01	0.0	8.66E-01
KR90	0.0	0.0	0.0	7.57E-01	2.39E-01	9.97E-01	2.62E-00	0.0	2.62E-00
XE139	0.0	0.0	0.0	2.26E-00	7.14E-01	2.97E-00	7.79E-00	0.0	7.79E-00
KR89	0.0	0.0	0.0	2.28E-01	7.34E-00	3.0 E-01	7.69E-01	0.0	7.69E-01
XE137	0.0	0.0	0.0	2.97E-01	9.62E-00	3.93E-01	1.00E-02	0.0	1.00E-02
XE135M	0.0	0.0	0.0	1.80E-00	6.04E-01	2.41E-00	5.85E-00	0.0	5.85E-00
KR83M	0.0	0.0	0.0	2.64E-01	9.65E-02	3.61E-01	7.68E-01	0.0	7.68E-01
XE133M	0.0	0.0	0.0	5.89E-03	2.66E-03	8.55E-03	1.14E-02	0.0	1.14E-02
XE131M	0.0	0.0	0.0	2.19E-04	1.07E-04	3.27E-04	3.36E-04	0.0	3.36E-04
KR85	0.0	0.0	0.0	1.58E-04	8.33E-05	2.42E-04	1.94E-04	0.0	1.94E-04
TOTAL	0.0	2.03E-02	2.03E-02	8.08E-01	1.45E-02	2.26E-02	2.92E-02	0.0	2.92E-02
<b>C. IODINES (Ci)</b>									
I-131	0.0	3.04E-02	3.04E-02	1.72E-03	6.83E-04	2.40E-03	7.21E-03	0.0	7.21E-03
I-133	0.0	0.0	0.0	6.39E-03	2.07E-03	8.47E-03	4.81E-02	0.0	4.81E-02
I-135	0.0	3.0	0.0	4.67E-03	1.37E-03	6.05E-03	1.91E-02	0.0	1.91E-02
<b>D. GT 8 DAY PART (Ci)</b>									
ND147	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE144	0.0	2.52E-03	2.52E-03	0.0	1.01E-04	1.01E-04	0.0	0.0	0.0
CE141	0.0	7.67E-04	7.67E-04	0.0	3.66E-05	3.66E-05	0.0	0.0	0.0
RA140	0.0	2.29E-04	2.29E-04	0.0	1.80E-05	1.80E-05	0.0	0.0	0.0
CS137	0.0	1.60E-03	1.60E-03	1.78E-04	3.15E-04	4.93E-04	2.69E-04	0.0	2.69E-04
CS136	0.0	1.14E-04	1.14E-04	7.82E-05	1.98E-05	9.80E-05	2.37E-04	0.0	2.37E-04
CS134	0.0	1.21E-03	1.21E-03	1.10E-04	1.94E-04	3.04E-04	1.60E-04	0.0	1.60E-04
SB126	0.0	2.29E-05	2.29E-05	0.0	7.01E-06	7.01E-06	0.0	0.0	0.0
SB124	0.0	7.05E-06	7.05E-06	1.15E-04	9.67E-05	2.12E-04	1.67E-04	0.0	1.67E-04
AG110M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	0.0	4.97E-03	4.97E-03	0.0	1.63E-05	1.63E-05	0.0	0.0	0.0
ZR95	0.0	1.01E-03	1.01E-03	0.0	5.36E-05	5.36E-05	0.0	0.0	0.0
NR95	0.0	2.30E-03	2.30E-03	1.22E-05	1.31E-04	1.43E-04	7.34E-06	0.0	7.34E-06
SR90	0.0	2.18E-04	2.18E-04	2.04E-05	4.74E-05	6.78E-05	3.40E-05	0.0	3.40E-05
SR89	0.0	1.01E-03	1.01E-03	2.12E-05	5.64E-05	7.16E-05	7.83E-05	0.0	7.83E-05
ZN65	0.0	5.27E-04	5.27E-04	0.0	2.39E-05	2.39E-05	8.40E-06	0.0	8.40E-06
CO60	0.0	6.25E-04	6.25E-04	3.42E-05	1.39E-04	1.74E-04	2.33E-05	0.0	2.33E-05
FES9	0.0	2.96E-05	2.96E-05	0.0	1.84E-05	1.84E-05	0.0	0.0	0.0
CSH	0.0	7.74E-05	7.74E-05	0.0	1.94E-05	1.94E-05	0.0	0.0	0.0
CO57	0.0	1.11E-05	1.11E-05	6.95E-05	2.14E-05	9.09E-05	1.37E-04	0.0	1.37E-04
MN54	0.0	9.52E-05	9.52E-05	3.04E-05	5.50E-05	8.54E-05	1.10E-04	0.0	1.10E-04
CR51	0.0	0.0	0.0	0.0	3.05E-06	3.05E-06	0.0	0.0	0.0
TOTAL	0.0	1.73E-02	1.73E-02	6.69E-04	1.37E-03	2.04E-03	1.23E-03	0.0	1.23E-03
<b>E. TRITIUM (Ci)</b>									
	0.0	4.92E-00	4.92E-00	6.27E-01	1.25E-00	1.88E-00	1.00E-00	0.0	1.00E-00
<b>F. GROSS ALPHA (Ci)</b>									
	0.0	1.90E-04	1.90E-04	2.60E-06	9.56E-06	1.22E-05	7.81E-06	0.0	7.81E-06

TABLE 1.5-2 (continued)

MONTICELLO NUCLEAR GENERATING PLANT  
GASEOUS RELEASES - 140 FT REACTOR BUILDING VENT

	JAN 76			FEB 76			MAR 76		
	POWER	OP	TOTAL	POWER	OP	TOTAL	POWER	OP	TOTAL
<b>A. NOBLE GASES (C1)</b>									
XE133	3.24E-01	0.0	3.24E-01	2.25E-01	0.0	2.25E-01	2.77E-01	0.0	2.77E-01
XE135	6.36E-00	0.0	6.36E-00	4.72E-00	0.0	4.72E-00	5.63E-00	0.0	5.63E-00
KR85M	7.31E-01	0.0	7.31E-01	5.15E-01	0.0	5.15E-01	6.71E-01	0.0	6.71E-01
KR88	2.54E-00	0.0	2.54E-00	1.77E-00	0.0	1.77E-00	2.36E-00	0.0	2.36E-00
KR87	4.30E-00	0.0	4.30E-00	3.44E-00	0.0	3.44E-00	4.34E-00	0.0	4.34E-00
XE138	1.30E-02	0.0	1.30E-02	9.50E-01	0.0	9.50E-01	1.16E-02	0.0	1.16E-02
KR90	3.43E-00	0.0	3.43E-00	2.49E-00	0.0	2.49E-00	3.08E-00	0.0	3.08E-00
XE139	1.02E-01	0.0	1.02E-01	7.40E-00	0.0	7.40E-00	9.17E-00	0.0	9.17E-00
KR89	1.31E-02	0.0	1.31E-02	7.31E-01	0.0	7.31E-01	9.06E-01	0.0	9.06E-01
XE137	7.64E-00	0.0	7.64E-00	9.54E-01	0.0	9.54E-01	1.18E-02	0.0	1.18E-02
XE135M	9.98E-01	0.0	9.98E-01	5.56E-00	0.0	5.56E-00	6.89E-00	0.0	6.89E-00
KR83M	1.62E-02	0.0	1.62E-02	7.33E-01	0.0	7.33E-01	9.06E-01	0.0	9.06E-01
XE133M	6.19E-04	0.0	6.19E-04	1.20E-02	0.0	1.20E-02	1.44E-02	0.0	1.44E-02
XE131M	3.70E-03	0.0	3.70E-03	4.36E-04	0.0	4.36E-04	4.99E-04	0.0	4.99E-04
KR85	3.99E-02	0.0	3.99E-02	1.99E-03	0.0	1.99E-03	1.91E-03	0.0	1.91E-03
TOTAL				2.90E-02	0.0	2.90E-02	3.58E-02	0.0	3.58E-02
<b>C. IODINES (C1)</b>									
I-131	4.38E-03	0.0	4.38E-03	1.04E-02	0.0	1.04E-02	4.54E-03	0.0	4.54E-03
I-133	2.98E-02	0.0	2.98E-02	5.61E-02	0.0	5.61E-02	3.73E-02	0.0	3.73E-02
I-135	8.40E-03	0.0	8.40E-03	7.29E-02	0.0	7.29E-02	1.30E-02	0.0	1.30E-02
<b>D. CT 8 DAY PART (C1)</b>									
ND147	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE141	3.95E-04	0.0	3.95E-04	2.43E-04	0.0	2.43E-04	6.11E-04	0.0	6.11E-04
BA140	0.0	0.0	0.0	9.43E-04	0.0	9.43E-04	0.0	0.0	0.0
CS137	2.24E-04	0.0	2.24E-04	2.29E-04	0.0	2.29E-04	1.49E-04	0.0	1.49E-04
CS136	1.78E-04	0.0	1.78E-04	9.19E-04	0.0	9.19E-04	5.81E-05	0.0	5.81E-05
CS134	1.21E-04	0.0	1.21E-04	1.89E-04	0.0	1.89E-04	1.06E-04	0.0	1.06E-04
SB126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB124	1.26E-04	0.0	1.26E-04	1.92E-04	0.0	1.92E-04	1.33E-04	0.0	1.33E-04
AG110M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR95	3.19E-06	0.0	3.19E-06	0.0	0.0	0.0	0.0	0.0	0.0
NB95	8.84E-06	0.0	8.84E-06	2.32E-05	0.0	2.32E-05	6.29E-05	0.0	6.29E-05
SR90	1.45E-04	0.0	1.45E-04	1.09E-04	0.0	1.09E-04	4.99E-05	0.0	4.99E-05
SP89	1.12E-05	0.0	1.12E-05	0.0	0.0	0.0	0.0	0.0	0.0
ZN65	6.98E-06	0.0	6.98E-06	0.0	0.0	0.0	3.34E-05	0.0	3.34E-05
CO60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FE59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO58	1.50E-05	0.0	1.50E-05	0.0	0.0	0.0	1.69E-05	0.0	1.69E-05
CO57	9.13E-05	0.0	9.13E-05	6.46E-05	0.0	6.46E-05	8.98E-05	0.0	8.98E-05
MN54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CR51	1.33E-03	0.0	1.33E-03	2.91E-03	0.0	2.91E-03	1.31E-03	0.0	1.31E-03
TOTAL				2.40E-03	0.0	2.40E-03	1.01E-03	0.0	1.01E-03
<b>E. TRITIUM (C1)</b>									
	2.40E-03	0.0	2.40E-03	4.54E-06	0.0	4.54E-06	3.62E-06	0.0	3.62E-06
<b>F. GROSS ALPHA (C1)</b>									
	4.13E-06	0.0	4.13E-06	3.52E-06	0.0	3.52E-06			

TABLE 1.5-2 (continued)

MONTICELLO NUCLEAR GENERATING PLANT  
GASEOUS RELEASES - 140 FT REACTOR BUILDING VENT

	APR 76			MAY 76			JUN 76		
	POWER	OP	TOTAL	POWER	OP	TOTAL	POWER	OP	TOTAL
A. NOBLE GASES (Ci)									
XE133	2.26E-01	0.0	2.26E-01	1.94E-01	0.0	1.94E-01	1.95E-01	0.0	1.95E-01
XE135	3.88E-00	0.0	3.88E-00	3.32E-00	0.0	3.32E-00	3.58E-00	0.0	3.58E-00
KR85M	4.53E-01	0.0	4.53E-01	3.67E-01	0.0	3.67E-01	4.19E-01	0.0	4.19E-01
KR88	1.56E-00	0.0	1.56E-00	1.26E-00	0.0	1.26E-00	1.42E-00	0.0	1.42E-00
KR87	2.77E-00	0.0	2.77E-00	2.58E-00	0.0	2.58E-00	2.86E-00	0.0	2.86E-00
XE138	7.71E-01	0.0	7.71E-01	7.06E-01	0.0	7.06E-01	7.19E-01	0.0	7.19E-01
KR90	2.02E-00	0.0	2.02E-00	1.89E-00	0.0	1.89E-00	1.93E-00	0.0	1.93E-00
XE139	6.00E-00	0.0	6.00E-00	5.61E-00	0.0	5.61E-00	5.74E-00	0.0	5.74E-00
KR89	5.93E-01	0.0	5.93E-01	5.52E-01	0.0	5.52E-01	5.66E-01	0.0	5.66E-01
XE137	7.74E-01	0.0	7.74E-01	7.20E-01	0.0	7.20E-01	7.38E-01	0.0	7.38E-01
XE135M	4.52E-00	0.0	4.52E-00	4.17E-00	0.0	4.17E-00	4.30E-00	0.0	4.30E-00
KR83M	5.97E-01	0.0	5.97E-01	5.40E-01	0.0	5.40E-01	5.63E-01	0.0	5.63E-01
XE133M	9.86E-03	0.0	9.86E-03	8.84E-03	0.0	8.84E-03	8.87E-03	0.0	8.87E-03
XE131M	3.63E-04	0.0	3.63E-04	3.74E-04	0.0	3.74E-04	3.17E-04	0.0	3.17E-04
KR85	1.70E-03	0.0	1.70E-03	3.01E-03	0.0	3.01E-03	1.50E-03	0.0	1.50E-03
TOTAL	2.36E-02	0.0	2.36E-02	2.18E-02	0.0	2.18E-02	2.23E-02	0.0	2.23E-02
C. IODINES (Ci)									
I-131	4.00E-03	0.0	4.00E-03	4.71E-03	0.0	4.71E-03	3.75E-03	0.0	3.75E-03
I-133	2.40E-02	0.0	2.40E-02	2.65E-02	0.0	2.65E-02	2.62E-02	0.0	2.62E-02
I-135	0.0	0.0	0.0	0.0	0.0	0.0	2.65E-03	0.0	2.65E-03
D. 31 DAY PART (Ci)									
NO147	0.0	0.0	0.0	0.0	0.0	0.0	2.48E-06	0.0	2.48E-06
CE144	1.21E-04	0.0	1.21E-04	0.0	0.0	0.0	3.68E-06	0.0	3.68E-06
CE141	5.62E-05	0.0	5.62E-05	2.42E-05	0.0	2.42E-05	9.54E-07	0.0	9.54E-07
BA140	2.87E-03	0.0	2.87E-03	5.49E-04	0.0	5.49E-04	7.42E-04	0.0	7.42E-04
CS137	1.25E-04	0.0	1.35E-04	1.70E-04	0.0	1.70E-04	1.34E-04	0.0	1.34E-04
CS136	0.0	0.0	0.0	9.07E-06	0.0	9.07E-06	1.40E-06	0.0	1.40E-06
CS134	9.31E-05	0.0	9.31E-05	6.52E-05	0.0	6.52E-05	3.48E-05	0.0	3.48E-05
SB126	0.0	0.0	0.0	0.0	0.0	0.0	8.92E-07	0.0	8.92E-07
SB124	8.09E-05	0.0	8.09E-05	0.0	0.0	0.0	2.28E-05	0.0	2.28E-05
AG110M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	0.0	0.0	0.0	0.0	0.0	0.0	2.72E-06	0.0	2.72E-06
ZR95	0.0	0.0	0.0	0.0	0.0	0.0	1.36E-06	0.0	1.36E-06
NB95	1.33E-05	0.0	1.33E-05	5.44E-06	0.0	5.44E-06	8.11E-07	0.0	8.11E-07
SP90	6.65E-05	0.0	6.65E-05	2.83E-05	0.0	2.83E-05	1.81E-05	0.0	1.81E-05
SR89	8.81E-05	0.0	8.81E-05	8.61E-05	0.0	8.61E-05	8.21E-05	0.0	8.21E-05
ZN65	0.0	0.0	0.0	1.81E-05	0.0	1.81E-05	1.92E-06	0.0	1.92E-06
CO60	6.22E-05	0.0	6.22E-05	7.01E-05	0.0	7.01E-05	3.62E-05	0.0	3.62E-05
FE59	0.0	0.0	0.0	0.0	0.0	0.0	1.61E-06	0.0	1.61E-06
CO58	0.0	0.0	0.0	4.42E-06	0.0	4.42E-06	9.07E-07	0.0	9.07E-07
CO57	0.0	0.0	0.0	0.0	0.0	0.0	4.69E-07	0.0	4.69E-07
MN54	4.56E-05	0.0	4.56E-05	9.68E-06	0.0	9.68E-06	7.08E-07	0.0	7.08E-07
CR51	0.0	0.0	0.0	0.0	0.0	0.0	5.99E-06	0.0	5.99E-06
TOTAL	3.64E-03	0.0	3.64E-03	1.04E-03	0.0	1.04E-03	1.10E-03	0.0	1.10E-03
E. TRITIUM (Ci)									
	2.87E-00	0.0	2.87E-00	2.10E-00	0.0	2.10E-00	2.11E-00	0.0	2.11E-00
F. GROSS ALPHA (Ci)									
	2.89E-06	0.0	2.89E-06	2.42E-06	0.0	2.42E-06	1.03E-05	0.0	1.03E-05

TABLE 1.5-3

MONTICELLO NUCLEAR GENERATING PLANT  
LIQUID WASTE RELEASED TO THE DISCHARGE CANAL

	JUL 75		AUG 75		SEP 75	
	POWER OP	TOTAL	POWER OP	TOTAL	POWER OP	TOTAL
	REFUEL		REFUEL		REFUEL	
A. NO. OF RELEASES	0.0	0.0	0.0	0.0	0.0	0.0
B. TOTAL VOLUME (GAL)	0.0	0.0	0.0	0.0	0.0	0.0
C. AVG REL TIME (HRS)	0.0	0.0	0.0	0.0	0.0	0.0
D. AVG DILUTION (CFS)						
E. GROSS ACTIVITY (CI)	0.0	0.0	0.0	0.0	0.0	0.0
F. FISSION/ACT PROD (CI)						
ND147	0.0	0.0	0.0	0.0	0.0	0.0
CE144	0.0	0.0	0.0	0.0	0.0	0.0
CE141	0.0	0.0	0.0	0.0	0.0	0.0
BA140	0.0	0.0	0.0	0.0	0.0	0.0
CS137	0.0	0.0	0.0	0.0	0.0	0.0
CS136	0.0	0.0	0.0	0.0	0.0	0.0
CS134	0.0	0.0	0.0	0.0	0.0	0.0
SB126	0.0	0.0	0.0	0.0	0.0	0.0
SB124	0.0	0.0	0.0	0.0	0.0	0.0
AG110M	0.0	0.0	0.0	0.0	0.0	0.0
RU106	0.0	0.0	0.0	0.0	0.0	0.0
RU103	0.0	0.0	0.0	0.0	0.0	0.0
ZR95	0.0	0.0	0.0	0.0	0.0	0.0
NB95	0.0	0.0	0.0	0.0	0.0	0.0
SR90	0.0	0.0	0.0	0.0	0.0	0.0
SR89	0.0	0.0	0.0	0.0	0.0	0.0
ZN65	0.0	0.0	0.0	0.0	0.0	0.0
CO60	0.0	0.0	0.0	0.0	0.0	0.0
FE59	0.0	0.0	0.0	0.0	0.0	0.0
CO58	0.0	0.0	0.0	0.0	0.0	0.0
CO57	0.0	0.0	0.0	0.0	0.0	0.0
MN54	0.0	0.0	0.0	0.0	0.0	0.0
CR51	0.0	0.0	0.0	0.0	0.0	0.0
I-131	0.0	0.0	0.0	0.0	0.0	0.0
I-133	0.0	0.0	0.0	0.0	0.0	0.0
I-135	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0
G. DISSOLVED GAS (CI)	0.0	0.0	0.0	0.0	0.0	0.0
H. TRITIUM (CI)	0.0	0.0	0.0	0.0	0.0	0.0
I. GROSS ALPHA (CI)	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 1.5-3 (continued)

MONTICELLO NUCLEAR GENERATING PLANT  
LIQUID WASTE RELEASED TO THE DISCHARGE CANAL

	OCT 75		NOV 75		DEC 75	
	POWER OP	TOTAL	POWER OP	TOTAL	POWER OP	TOTAL
A. NO. OF RELEASES	0.0	0.0	0.0	0.0	0.0	0.0
B. TOTAL VOLUME (GAL)	0.0	0.0	0.0	0.0	0.0	0.0
C. AVG REL TIME (HRS)	0.0	0.0	0.0	0.0	0.0	0.0
D. AVG DILUTION (CFS)						
E. GROSS ACTIVITY (CI)	0.0	0.0	0.0	0.0	0.0	0.0
F. FISSION/ACT PROD (CI)						
ND147	0.0	0.0	0.0	0.0	0.0	0.0
CE144	0.0	0.0	0.0	0.0	0.0	0.0
CE141	0.0	0.0	0.0	0.0	0.0	0.0
RA140	0.0	0.0	0.0	0.0	0.0	0.0
CS137	0.0	0.0	0.0	0.0	0.0	0.0
CS136	0.0	0.0	0.0	0.0	0.0	0.0
CS134	0.0	0.0	0.0	0.0	0.0	0.0
SB126	0.0	0.0	0.0	0.0	0.0	0.0
SB124	0.0	0.0	0.0	0.0	0.0	0.0
AC110M	0.0	0.0	0.0	0.0	0.0	0.0
RU106	0.0	0.0	0.0	0.0	0.0	0.0
RU103	0.0	0.0	0.0	0.0	0.0	0.0
ZR95	0.0	0.0	0.0	0.0	0.0	0.0
NR95	0.0	0.0	0.0	0.0	0.0	0.0
SR90	0.0	0.0	0.0	0.0	0.0	0.0
SR89	0.0	0.0	0.0	0.0	0.0	0.0
ZN65	0.0	0.0	0.0	0.0	0.0	0.0
CO60	0.0	0.0	0.0	0.0	0.0	0.0
FES9	0.0	0.0	0.0	0.0	0.0	0.0
CO58	0.0	0.0	0.0	0.0	0.0	0.0
CO57	0.0	0.0	0.0	0.0	0.0	0.0
MN54	0.0	0.0	0.0	0.0	0.0	0.0
CR51	0.0	0.0	0.0	0.0	0.0	0.0
I-131	0.0	0.0	0.0	0.0	0.0	0.0
I-133	0.0	0.0	0.0	0.0	0.0	0.0
I-135	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0
G. DISSOLVED GAS (CI)	0.0	0.0	0.0	0.0	0.0	0.0
H. TRITIUM (CI)	0.0	0.0	0.0	0.0	0.0	0.0
I. GROSS ALPHA (CI)	0.0	0.0	0.0	0.0	0.0	0.0



TABLE 1.5-3 (continued)

MONTICELLO NUCLEAR GENERATING PLANT  
LIQUID WASTE RELEASED TO THE DISCHARGE CANAL

	JAN 76			FEB 76			MAR 76		
	POWER	OP	TOTAL	POWER	OP	TOTAL	POWER	OP	TOTAL
A. NO. OF RELEASES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B. TOTAL VOLUME (GAL)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C. AVG REL TIME (HRS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D. AVG DILUTION (CFS)									
E. GROSS ACTIVITY (CI)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F. FISSION/ACT PROD (CI)									
ND147	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CE141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BA140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CS137	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CS136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CS134	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AG110M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RU103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZR95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NR95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SR89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ZN65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FE59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MN54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CR51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I-131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I-133	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I-135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G. DISSOLVED GAS (CI)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H. TRITIUM (CI)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I. GROSS ALPHA (CI)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



12-74

B157

50-263

FILE NUMBER

## DISTRIBUTION FOR PART 10 SOCKET MATERIAL

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