

ATTACHMENT I

SUMMARY OF SOLID, LIQUID,
AND GASEOUS EFFLUENTS RELEASED

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MCCUIRE NUCLEAR STATION
EFFLUENT AND WASTE DISPOSAL SUPPLEMENTAL INFORMATION

REPORT DATE: 02/28/85

PERIOD COVERED: START DAY = 001 STOP DAY = 366

I. REGULATORY LIMITS

A. NOBLE GASES - AIR DOSE

1. CALENDAR QUARTER - GAMMA DOSE = 5 MRAD
2. CALENDAR QUARTER - BETA DOSE = 10 MRAD
3. CALENDAR YEAR - GAMMA DOSE = 10 MRAD
4. CALENDAR YEAR - BETA DOSE = 20 MRAD

B. LIQUID EFFLUENTS - DOSE

1. CALENDAR QUARTER - TOTAL BODY DOSE = 1.5 MREM
2. CALENDAR QUARTER - ORGAN DOSE = 5 MREM
3. CALENDAR YEAR - TOTAL BODY DOSE = 3 MREM
4. CALENDAR YEAR - ORGAN DOSE = 10 MREM

C. IODINE - 131 AND 133, TRITIUM, PARTICULATES W/T 1/2 > 8 DAYS - ORGAN DOSE

1. CALENDAR QUARTER = 7.5 MREM
2. CALENDAR YEAR = 15 MREM

II. MAXIMUM PERMISSIBLE CONCENTRATIONS

- A. GASEOUS EFFLUENTS - INFORMATION FOUND IN OFFSITE DOSE CALCULATION MANUAL
- B. LIQUID EFFLUENTS - INFORMATION FOUND IN 10CFR20, APPENDIX B, TABLE II, COLUMN 2

III. AVERAGE ENERGY - NOT APPLICABLE

IV. MEASUREMENTS AND APPROXIMATIONS OF TOTAL RADIOACTIVITY
INFORMATION FOUND IN OFFSITE DOSE CALCULATION MANUAL

V. BATCH RELEASES

A. LIQUID EFFLUENT

1. $1.05E+03$ = TOTAL NUMBER OF BATCH RELEASES
2. $8.08E+04$ = TOTAL TIME(MIN.) FOR BATCH RELEASES
3. $2.31E+03$ = MAXIMUM TIME(MIN.) FOR A BATCH RELEASE
4. $7.71E+01$ = AVERAGE TIME(MIN.) FOR A BATCH RELEASE
5. $1.00E+00$ = MINIMUM TIME(MIN.) FOR A BATCH RELEASE
6. $1.16E+09$ = AVERAGE DILUTION WATER FLOW DURING RELEASES(GPM)

B. GASEOUS EFFLUENT

1. $6.63E+02$ = TOTAL NUMBER OF BATCH RELEASES
2. $1.06E+06$ = TOTAL TIME(MIN.) FOR BATCH RELEASES
3. $4.46E+04$ = MAXIMUM TIME(MIN.) FOR A BATCH RELEASE
4. $1.60E+03$ = AVERAGE TIME(MIN.) FOR A BATCH RELEASE
5. $1.00E+00$ = MINIMUM TIME(MIN.) FOR A BATCH RELEASE

VI. ABNORMAL RELEASES

A. LIQUID

1. NUMBER OF RELEASES 0
2. TOTAL ACTIVITY RELEASED(CURIES) 0.0

B. GASEOUS

1. NUMBER OF RELEASES 2
2. TOTAL ACTIVITY RELEASED(CURIES) 26.52

McGuire Nuclear Station
Solid Radioactive Waste Shipped to a Disposal Facility
Report Period 7-84 through 12-84

<u>Types of Wastes</u>	<u>Number of Shipments</u>	<u># Containers</u>	<u>Waste Classification</u>	<u>Cont. Type</u>	<u>Volume ft³</u>	<u>Total Activity Curies</u>
1) Waste from Liquid Systems						
(A) Dewatered Powdex Resins	0	0	N/A	N/A	0	0
(B) Dewatered Bead Resins	4	4	1A, 2B, 1C	LSA	632	622.71
(C) Evaporator Concentrates	0	0	N/A	N/A	0	0
(D) Dewatered Mechanical Filters	3	25	15A, 10B	LSA	211.3	82.75
(E) Dewatered Demineralizers	0	0	N/A	N/A	0	0
2) Dry Solid Waste						
(A) Dry Active Waste (compacted)	5	34	34A	LSA	3,128	3.89
(B) Dry Active Waste (non-compacted)	5	24	24A	LSA	2,208	4.72
(C) Irradiated Components	0	0	0	N/A	0	0
TOTAL		87	4A, 12B, 1C		6,179.3	714.07

Summary of Major Radionuclide Composition

Type of Wastes

<u>Type of Wastes</u>	<u>Radionuclide</u>	<u>% Abundance</u>
1. Wastes from Liquid Systems		
(A) Dewatered Powdex Resins	(none shipped this period)	
(B) Dewatered Bead Resins	Mn-54	3.9
	Co-57	0.15
	Co-58	38.3
	Co-60	21.8
	Nb-95	< .01
	Cs-134	1.7
	Cs-137	2.7
	C-14	< .01
	H-3	0.3
	Ni-63	30.8
	Sr-90	< .01
	Pn-241	< .01
	TRU	< .01
	Cm-242	< .01
(C) Evaporator Concentrates	(none shipped this period)	
(D) Dewatered Mechanical Filters	Cr-51	6.9
	Mn-54	20.0
	Co-58	22.9
	Co-60	24.8
	Nb-95	2.2
	Fe-59	1.0
	Ag-110m	1.9
	Zr-95	1.8
	C-14	< .01
	H-3	< .01
	Ni-63	18.5

Summary of Major Radionuclide Composition (Continued)

	<u>Radionuclide</u>	<u>% Abundance</u>
(E) Dewatered Mineralizers	(none shipped this period)	
2. Dry Solid Waste		
(A) Dry Active Waste	Zr-95	1.0
(compacted & non-compacted)	Ni-63	0.7
	Sr-90	.08
	Co-60	32.0
	Mn-54	5.0
	Co-58	13.5
	Nb-95	2.0
	C-14	45.8
(B) Irradiated Components	(none shipped this period)	

MCCUIRE NUCLEAR STATION
 RADIOACTIVE EFFLUENT RELEASES
 DATE : 02/28/85

I. LIQUID RELEASES

	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	YEAR : 1984 TOTAL
1. GROSS RADIOACTIVITY						
A. TOTAL RELEASE	CURIES	2.22E+00	3.39E-01	3.09E-01	1.54E-01	3.02E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	4.01E-09	4.26E-10	3.28E-10	1.74E-10	9.50E-10
C. MAXIMUM CONCENTRATION RELEASED	UCI/ML	2.81E-08	4.84E-09	3.57E-09	2.08E-09	2.81E-08
2. TRITIUM						
A. TOTAL RELEASE	CURIES	1.14E+02	1.05E+02	1.59E+02	2.70E+02	6.47E+02
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	2.06E-07	1.31E-07	1.69E-07	3.04E-07	2.04E-07
3. DISSOLVED NOBLE GASES						
A. TOTAL RELEASE	CURIES	1.63E-01	1.19E-02	1.43E-02	1.10E-02	2.00E-01
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	2.95E-10	1.49E-11	1.52E-11	1.24E-11	6.30E-11
4. GROSS ALPHA ACTIVITY						
A. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5. VOLUME OF LIQUID WASTE TO DISCHARGE CANAL	LITERS	4.78E+06	4.39E+06	4.88E+06	6.52E+06	2.06E+07
6. VOLUME OF DILUTION WATER	LITERS	5.52E+11	7.96E+11	9.41E+11	8.86E+11	3.18E+12
7. RADIONUCLIDES RELEASED	CURIES					
NA-24		1.36E-03	1.34E-02	7.10E-05	7.78E-03	2.26E-02
CR-51		6.26E-02	1.43E-02	1.63E-02	3.41E-04	9.36E-02
MN-54		2.21E-02	5.14E-03	3.75E-03	2.16E-03	3.32E-02
FE-55		1.38E+00	1.19E-01	6.31E-02	8.77E-03	1.57E+00
FE-59		1.84E-02	3.65E-03	2.25E-03	1.35E-05	2.43E-02
CO-58		3.47E-01	1.23E-01	1.58E-01	8.57E-02	7.13E-01
CO-60		1.41E-01	3.41E-02	3.89E-02	2.49E-02	2.39E-01
NI-65		0.00E+00	2.00E-05	0.00E+00	5.45E-07	2.05E-05
CU-64		0.00E+00	0.00E+00	0.00E+00	2.61E-06	2.61E-06
ZN-65		2.28E-03	2.34E-04	5.05E-05	1.03E-06	2.56E-03
BR-84		0.00E+00	0.00E+00	0.00E+00	2.19E-06	2.19E-06
RB-88		1.35E-02	0.00E+00	1.45E-04	2.48E-04	1.39E-02
SR-89		1.37E-04	7.01E-06	7.24E-06	2.63E-05	1.78E-04
SR-90		7.75E-08	0.00E+00	0.00E+00	0.00E+00	7.75E-08
SR-92		2.20E-02	1.62E-03	1.08E-03	4.21E-07	2.47E-02
Y-91M		0.00E+00	4.69E-06	1.05E-05	0.00E+00	1.52E-05
Y-92		0.00E+00	3.72E-05	0.00E+00	0.00E+00	3.72E-05
ZR-95		2.65E-03	9.72E-04	9.47E-04	1.37E-05	4.58E-03
NB-95		1.15E-02	3.61E-03	2.41E-03	1.35E-04	1.77E-02
MO-99		0.00E+00	0.00E+00	0.00E+00	1.10E-04	1.10E-04
TC-99M		7.15E-04	5.39E-06	3.69E-06	1.04E-04	8.28E-04
RU-103		4.64E-05	0.00E+00	0.00E+00	0.00E+00	4.64E-05
RU-106		4.72E-03	0.00E+00	2.24E-04	7.53E-04	5.70E-03
AG-110M		4.54E-02	4.19E-03	2.73E-03	0.00E+00	5.23E-02
TE-129M		0.00E+00	0.00E+00	0.00E+00	4.25E-06	4.25E-06
TE-132		2.97E-04	0.00E+00	0.00E+00	0.00E+00	2.97E-04
I-131		7.04E-02	3.43E-03	1.16E-02	1.41E-02	9.95E-02
I-132		1.77E-03	0.00E+00	5.29E-05	8.80E-05	1.91E-03
I-133		3.23E-02	1.41E-03	3.46E-03	3.84E-03	4.10E-02
I-135		1.01E-02	6.38E-05	3.23E-04	1.11E-03	1.16E-02
CS-134		1.08E-02	4.24E-03	1.04E-03	2.02E-03	1.81E-02
CS-136		1.17E-04	0.00E+00	0.00E+00	9.10E-05	2.08E-04
CS-137		1.49E-02	5.93E-03	1.97E-03	3.01E-03	2.58E-02
CS-138		1.26E-04	0.00E+00	0.00E+00	0.00E+00	1.26E-04
BA-139		0.00E+00	8.75E-04	0.00E+00	0.00E+00	8.75E-04
LA-140		3.04E-03	5.62E-05	1.90E-04	4.27E-04	3.71E-03
CE-141		7.32E-06	5.24E-06	4.29E-06	7.95E-06	2.48E-05
CE-144		2.32E-05	0.00E+00	0.00E+00	0.00E+00	2.32E-05
PR-144		4.19E-04	0.00E+00	0.00E+00	0.00E+00	4.19E-04
NP-239		1.25E-03	0.00E+00	0.00E+00	0.00E+00	1.25E-03
AR-41		2.81E-04	1.05E-04	8.28E-05	1.40E-05	4.82E-04
KR-85M		0.00E+00	9.24E-06	0.00E+00	0.00E+00	9.24E-06
KR-85		0.00E+00	4.09E-05	5.75E-04	0.00E+00	6.15E-04
KR-87		0.00E+00	1.13E-06	0.00E+00	3.52E-06	4.65E-06
XE-131M		0.00E+00	0.00E+00	4.03E-05	1.20E-04	1.61E-04
XE-133M		7.01E-04	0.00E+00	0.00E+00	2.52E-05	7.26E-04
XE-133		1.21E-01	1.11E-02	1.32E-02	1.02E-02	1.56E-01
XE-135		4.02E-02	6.10E-04	4.21E-04	6.06E-04	4.19E-02

MCGUIRE NUCLEAR STATION
UNIT 1
RADIOACTIVE EFFLUENT RELEASES
DATE : 02/28/85

I. LIQUID RELEASES

	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	YEAR : 1984 TOTAL
1. GROSS RADIOACTIVITY						
A. TOTAL RELEASE	CURIES	1.11E+00	1.70E-01	1.54E-01	7.71E-02	1.51E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	2.01E-09	2.13E-10	1.64E-10	8.70E-11	4.75E-10
C. MAXIMUM CONCENTRATION RELEASED	UCI/ML	2.81E-08	4.84E-09	3.57E-09	2.08E-09	2.81E-08
2. TRITIUM						
A. TOTAL RELEASE	CURIES	5.68E+01	5.23E+01	7.95E+01	1.35E+02	3.23E+02
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	1.03E-07	6.57E-08	8.45E-08	1.52E-07	1.02E-07
3. DISSOLVED NOBLE GASES						
A. TOTAL RELEASE	CURIES	8.14E-02	5.95E-03	7.17E-03	5.50E-03	1.00E-01
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	1.47E-10	7.47E-12	7.62E-12	6.21E-12	3.15E-11
4. GROSS ALPHA ACTIVITY						
A. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5. VOLUME OF LIQUID WASTE TO DISCHARGE CANAL	LITERS	2.39E+06	2.20E+06	2.44E+06	3.26E+06	1.03E+07
6. VOLUME OF DILUTION WATER	LITERS	5.52E+11	7.96E+11	9.41E+11	8.86E+11	3.18E+12
7. RADIONUCLIDES RELEASED	CURIES					
NA-24		6.78E-04	6.68E-03	3.55E-05	3.89E-03	1.13E-02
CR-51		3.13E-02	7.16E-03	8.16E-03	1.70E-04	4.68E-02
MN-54		1.11E-02	2.57E-03	1.87E-03	1.08E-03	1.66E-02
FE-55		6.88E-01	5.96E-02	3.15E-02	4.39E-03	7.83E-01
FE-59		9.18E-03	1.83E-03	1.12E-03	6.75E-06	1.21E-02
CO-58		1.73E-01	6.14E-02	7.92E-02	4.28E-02	3.57E-01
CO-60		7.04E-02	1.71E-02	1.94E-02	1.24E-02	1.19E-01
NI-65		0.00E+00	9.99E-06	0.00E+00	2.72E-07	1.03E-05
CU-64		0.00E+00	0.00E+00	0.00E+00	1.31E-06	1.31E-06
ZN-65		1.14E-03	1.17E-04	2.52E-05	5.15E-07	1.28E-03
BR-84		0.00E+00	0.00E+00	0.00E+00	1.09E-06	1.09E-06
RB-88		6.76E-03	0.00E+00	7.26E-05	1.24E-04	6.96E-03
SR-89		6.87E-05	3.50E-06	3.62E-06	1.32E-05	8.89E-05
SR-90		3.88E-08	0.00E+00	0.00E+00	0.00E+00	3.88E-08
SR-92		1.10E-02	8.12E-04	5.40E-04	2.11E-07	1.24E-02
Y-91M		0.00E+00	2.35E-06	5.25E-06	0.00E+00	7.59E-06
Y-92		0.00E+00	1.86E-05	0.00E+00	0.00E+00	1.86E-05
ZR-95		1.33E-03	4.86E-04	4.73E-04	6.87E-06	2.29E-03
NB-95		5.76E-03	1.80E-03	1.20E-03	6.77E-05	8.83E-03
MO-99		0.00E+00	0.00E+00	0.00E+00	5.51E-05	5.51E-05
TC-99M		3.57E-04	2.69E-06	1.85E-06	5.22E-05	4.14E-04
RU-103		2.32E-05	0.00E+00	0.00E+00	0.00E+00	2.32E-05
RU-106		2.36E-03	0.00E+00	1.12E-04	3.76E-04	2.85E-03
AG-110M		2.27E-02	2.10E-03	1.36E-03	0.00E+00	2.62E-02
TE-129M		0.00E+00	0.00E+00	0.00E+00	2.12E-06	2.12E-06
TE-132		1.48E-04	0.00E+00	0.00E+00	0.00E+00	1.48E-04
I-131		3.52E-02	1.71E-03	5.79E-03	7.04E-03	4.98E-02
I-132		8.85E-04	0.00E+00	2.64E-05	4.40E-05	9.56E-04
I-133		1.61E-02	7.03E-04	1.73E-03	1.92E-03	2.05E-02
I-135		5.04E-03	3.19E-05	1.62E-04	5.57E-04	5.79E-03
CS-134		5.40E-03	2.12E-03	5.21E-04	1.01E-03	9.05E-03
CS-136		5.83E-05	0.00E+00	0.00E+00	4.55E-05	1.04E-04
CS-137		7.45E-03	2.96E-03	9.87E-04	1.50E-03	1.29E-02
CS-138		6.28E-05	0.00E+00	0.00E+00	0.00E+00	6.28E-05
BA-139		0.00E+00	4.37E-04	0.00E+00	0.00E+00	4.37E-04
LA-140		1.52E-03	2.81E-05	9.51E-05	2.13E-04	1.86E-03
CE-141		3.66E-06	2.62E-06	2.14E-06	3.97E-06	1.24E-05
CE-144		1.16E-05	0.00E+00	0.00E+00	0.00E+00	1.16E-05
PR-144		2.10E-04	0.00E+00	0.00E+00	0.00E+00	2.10E-04
NP-239		6.24E-04	0.00E+00	0.00E+00	0.00E+00	6.24E-04
AR-41		1.40E-04	5.23E-05	4.14E-05	7.01E-06	2.41E-04
KR-85M		0.00E+00	4.62E-06	0.00E+00	0.00E+00	4.62E-06
KR-85		0.00E+00	2.05E-05	2.87E-04	0.00E+00	3.08E-04
KR-87		0.00E+00	5.67E-07	0.00E+00	1.76E-06	2.32E-06
XE-131M		0.00E+00	0.00E+00	2.01E-05	6.02E-05	8.03E-05
XE-133M		3.51E-04	0.00E+00	0.00E+00	1.26E-05	3.63E-04
XE-133		6.07E-02	5.57E-03	6.61E-03	5.12E-03	7.80E-02
XE-135		2.01E-02	3.05E-04	2.10E-04	3.03E-04	2.09E-02

MCGUIRE NUCLEAR STATION
UNIT 2
RADIOACTIVE EFFLUENT RELEASES
DATE : 02/28/85

I. LIQUID RELEASES

	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	YEAR : 1984 TOTAL
1. GROSS RADIOACTIVITY						
A. TOTAL RELEASE	CURIES	1.11E+00	1.70E-01	1.54E-01	7.71E-02	1.51E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	2.01E-09	2.13E-10	1.64E-10	8.70E-11	4.75E-10
C. MAXIMUM CONCENTRATION RELEASED	UCI/ML	2.81E-08	4.84E-09	3.57E-09	2.08E-09	2.81E-08
2. TRITIUM						
A. TOTAL RELEASE	CURIES	5.68E+01	5.23E+01	7.95E+01	1.35E+02	3.23E+02
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	1.03E-07	6.57E-08	8.45E-08	1.52E-07	1.02E-07
3. DISSOLVED NOBLE GASES						
A. TOTAL RELEASE	CURIES	8.14E-02	5.95E-03	7.17E-03	5.50E-03	1.00E-01
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	1.47E-10	7.47E-12	7.62E-12	6.21E-12	3.15E-11
4. GROSS ALPHA ACTIVITY						
A. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5. VOLUME OF LIQUID WASTE TO DISCHARGE CANAL	LITERS	2.39E+06	2.20E+06	2.44E+06	3.26E+06	1.03E+07
6. VOLUME OF DILUTION WATER	LITERS	5.52E+11	7.96E+11	9.41E+11	8.86E+11	3.18E+12
7. RADIONUCLIDES RELEASED	CURIES					
NA-24		6.78E-04	6.68E-03	3.55E-05	3.89E-03	1.13E-02
CR-51		3.13E-02	7.16E-03	8.16E-03	1.70E-04	4.68E-02
MN-54		1.11E-02	2.57E-03	1.87E-03	1.08E-03	1.66E-02
FE-55		6.88E-01	5.96E-02	3.15E-02	4.39E-03	7.83E-01
FE-59		9.18E-03	1.87E-03	1.12E-03	6.75E-06	1.21E-02
CO-58		1.73E-01	6.14E-02	7.92E-02	4.28E-02	3.57E-01
CO-60		7.04E-02	1.71E-02	1.94E-02	1.24E-02	1.19E-01
NI-65		0.00E+00	9.99E-06	0.00E+00	2.72E-07	1.03E-05
CU-64		0.00E+00	0.00E+00	0.00E+00	1.31E-06	1.31E-06
ZN-65		1.14E-03	1.17E-04	2.52E-05	5.15E-07	1.28E-03
BR-84		0.00E+00	0.00E+00	0.00E+00	1.09E-06	1.09E-06
RB-88		6.76E-03	0.00E+00	7.26E-05	1.24E-04	6.96E-03
SR-89		6.87E-05	3.50E-06	3.62E-06	1.32E-05	8.89E-05
SR-90		3.88E-08	0.00E+00	0.00E+00	0.00E+00	3.88E-08
SR-92		1.10E-02	8.12E-04	5.40E-04	2.11E-07	1.24E-02
Y-91M		0.00E+00	2.35E-06	5.25E-06	0.00E+00	7.59E-06
Y-92		0.00E+00	1.86E-05	0.00E+00	0.00E+00	1.86E-05
ZR-95		1.33E-03	4.86E-04	4.73E-04	6.87E-06	2.29E-03
NB-95		5.76E-03	1.80E-03	1.20E-03	6.77E-05	8.83E-03
MO-99		0.00E+00	0.00E+00	0.00E+00	5.51E-05	5.51E-05
TC-99M		3.57E-04	2.69E-06	1.85E-06	5.22E-05	4.14E-04
RU-103		2.32E-05	0.00E+00	0.00E+00	0.00E+00	2.32E-05
RU-106		2.36E-03	0.00E+00	1.12E-04	3.76E-04	2.85E-03
AG-110M		2.27E-02	2.10E-03	1.36E-03	0.00E+00	2.62E-02
TE-129M		0.00E+00	0.00E+00	0.00E+00	2.12E-06	2.12E-06
TE-132		1.48E-04	0.00E+00	0.00E+00	0.00E+00	1.48E-04
I-131		3.52E-02	1.71E-03	5.79E-03	7.04E-03	4.98E-02
I-132		8.85E-04	0.00E+00	2.64E-05	4.40E-05	9.56E-04
I-133		1.61E-02	7.03E-04	1.79E-03	1.92E-03	2.05E-02
I-135		5.04E-03	3.19E-05	1.62E-04	5.57E-04	5.79E-03
CS-134		5.40E-03	2.12E-03	5.21E-04	1.01E-03	9.05E-03
CS-136		5.83E-05	0.00E+00	0.00E+00	4.55E-05	1.04E-04
CS-137		7.45E-03	2.96E-03	9.87E-04	1.50E-03	1.29E-02
CS-137		6.28E-05	0.00E+00	0.00E+00	0.00E+00	6.28E-05
BA-139		0.00E+00	4.37E-04	0.00E+00	0.00E+00	4.37E-04
LA-140		1.52E-03	2.81E-05	9.51E-05	2.13E-04	1.86E-03
CE-141		3.66E-06	2.62E-06	2.14E-06	3.97E-06	1.24E-05
CE-144		1.16E-05	0.00E+00	0.00E+00	0.00E+00	1.16E-05
PR-144		2.10E-04	0.00E+00	0.00E+00	0.00E+00	2.10E-04
NP-239		6.24E-04	0.00E+00	0.00E+00	0.00E+00	6.24E-04
AR-41		1.40E-04	5.23E-05	4.14E-05	7.01E-06	2.41E-04
KR-85M		0.00E+00	4.62E-06	0.00E+00	0.00E+00	4.62E-06
KR-85		0.00E+00	2.05E-05	2.87E-04	0.00E+00	3.08E-04
KR-87		0.00E+00	5.67E-07	0.00E+00	1.76E-06	2.32E-06
XE-131M		0.00E+00	0.00E+00	2.01E-05	6.02E-05	8.03E-05
XE-133M		3.51E-04	0.00E+00	0.00E+00	1.26E-05	3.63E-04
XE-133		6.07E-02	5.57E-03	6.61E-03	5.12E-03	7.80E-02
XE-135		2.01E-02	3.05E-04	2.10E-04	3.03E-04	2.09E-02

MCGUIRE LIQUID DOSE- 1ST QTR '84 RELEASES- 2/26/85 / Per Unit

00000010

SKIN	MAXIMUM DOSE-	3.85D-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	85.43 %				
BONE	MAXIMUM DOSE-	6.82D-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	FE 55	14.81 %				
	CS 134	28.06 %				
	CS 137	55.33 %				
LIVER	MAXIMUM DOSE-	8.84D-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 134	41.44 %				
	CS 137	44.30 %				
T. BODY	MAXIMUM DOSE-	6.21D-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	7.76 %				
	CS 134	47.57 %				
	CS 137	39.63 %				
THYROID	MAXIMUM DOSE-	5.93D-02 MREM	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	DRINKING
	H 3	10.49 %				
	I 131	88.49 %				
KIDNEY	MAXIMUM DOSE-	3.24D-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	H 3	10.5 %				
	CO 60	8.6 %				
	CS 134	36.11 %				
	CS 137	41.47 %				
LUNG	MAXIMUM DOSE-	1.90D-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	H 3	17.95 %				
	FE 55	13.83 %				
	CO 60	14.74 %				
	CS 134	23.74 %				
	CS 137	27.95 %				
GI-LLI	MAXIMUM DOSE-	7.67D-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	6.28 %				
	CO 58	5.25 %				
	CO 60	7.70 %				
	NB 95	70.43 %				

MCGUIRE LIQUID DOSE- 2ND QTR '84 RELEASES- 2/26/85/ Per Unit

00000010

SKIN	MAXIMUM DOSE-	6.69D-04 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	82.92 %				
	CS 137	6.86 %				
BONE	MAXIMUM DOSE-	1.64D-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	31.96 %				
	CS 137	63.36 %				
LIVER	MAXIMUM DOSE-	2.40D-02 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	H 3	9.06 %				
	CS 134	41.77 %				
	CS 137	44.90 %				
T. BODY	MAXIMUM DOSE-	1.84D-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	16.75 %				
	CS 134	44.04 %				
	CS 137	36.89 %				
THYROID	MAXIMUM DOSE-	6.24D-03 MREM	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	DRINKING
	H 3	63.70 %				
	I 131	35.88 %				
KIDNEY	MAXIMUM DOSE-	1.02D-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	H 3	40.29 %				
	CS 134	26.20 %				
	CS 137	31.89 %				
LUNG	MAXIMUM DOSE-	6.53D-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	62.76 %				
	CS 134	14.68 %				
	CS 137	17.96 %				
GI-LLI	MAXIMUM DOSE-	1.91D-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	16.08 %				
	CO 58	5.50 %				
	CO 60	5.21 %				
	NB 95	68.06 %				

MCGUIRE LIQUID DOSE- 3RD QTR '84 RELEASES- 2/26/85 / Per unit

00000010

SKIN	MAXIMUM DOSE-	6.01D-04 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 58	5.66 %				
	CO 60	89.78 %				
BONE	MAXIMUM DOSE-	4.49D-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	FE 55	6.15 %				
	CS 134	24.63 %				
	CS 137	66.10 %				
LIVER	MAXIMUM DOSE-	1.05D-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	51.09 %				
	CS 134	17.35 %				
	CS 137	27.17 %				
T. BODY	MAXIMUM DOSE-	8.02D-03 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	DRINKING
	H 3	49.94 %				
	CS 134	21.26 %				
	CS 137	24.11 %				
THYROID	MAXIMUM DOSE-	1.24D-02 MREM	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	DRINKING
	H 3	41.93 %				
	I 131	57.56 %				
KIDNEY	MAXIMUM DOSE-	6.98D-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	76.52 %				
	CS 134	8.06 %				
	CS 137	13.28 %				
LUNG	MAXIMUM DOSE-	6.07D-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	87.98 %				
	CS 137	5.52 %				
GI-LLI	MAXIMUM DOSE-	1.43D-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	27.96 %				
	CO 58	8.29 %				
	CO 60	6.76 %				
	NB 95	53.89 %				

MCGUIRE LIQUID DOSE- 4TH QTR '84 RELEASES- 2/26/85/Per Unit

00000010

SKIN	MAXIMUM DOSE-	4.18D-04 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	87.54 %				
	CS 137	5.06 %				
BONE	MAXIMUM DOSE-	7.20D-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	31.55 %				
	CS 137	66.44 %				
LIVER	MAXIMUM DOSE-	1.81D-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	52.99 %				
	CS 134	20.53 %				
	CS 137	25.22 %				
T. BODY	MAXIMUM DOSE-	1.41D-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	DRINKING
	H 3	51.28 %				
	CS 134	24.91 %				
	CS 137	22.16 %				
THYROID	MAXIMUM DOSE-	1.83D-02 MREM	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	DRINKING
	H 3	51.08 %				
	I 131	48.54 %				
KIDNEY	MAXIMUM DOSE-	1.24D-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	77.63 %				
	CS 134	9.33 %				
	CS 137	12.06 %				
LUNG	MAXIMUM DOSE-	1.07D-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	90.25 %				
	CS 137	5.07 %				
GI-LLI	MAXIMUM DOSE-	1.03D-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	92.95 %				

MCGUIRE LIQUID DOSE- TOTAL 1984 RELEASES PER UNIT- 2/26/85

00000010

SKIN	MAXIMUM DOSE-	4.54D-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	85.79 %				
BONE	MAXIMUM DOSE-	7.76D-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	FE 55	10.40 %				
	CS 134	29.06 %				
	CS 137	58.82 %				
LIVER	MAXIMUM DOSE-	1.13D-01 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	H 3	22.53 %				
	CS 134	32.64 %				
	CS 137	38.55 %				
T. BODY	MAXIMUM DOSE-	8.71D-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	22.00 %				
	CS 134	39.97 %				
	CS 137	34.18 %				
THYROID	MAXIMUM DOSE-	9.10D-02 MREM	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	DRINKING
	H 3	27.23 %				
	I 131	71.94 %				
KIDNEY	MAXIMUM DOSE-	5.28D-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	48.40 %				
	CS 134	21.75 %				
	CS 137	27.04 %				
LUNG	MAXIMUM DOSE-	3.81D-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	67.08 %				
	FE 55	6.36 %				
	CS 134	10.85 %				
	CS 137	13.54 %				
GI-LLI	MAXIMUM DOSE-	1.04D-01 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	18.40 %				
	CO 58	5.92 %				
	CO 60	6.71 %				
	NB 95	61.74 %				

MCGUIRE NUCLEAR STATION
 RADIOACTIVE EFFLUENT RELEASES
 DATE : 02/28/85

II. AIRBORNE RELEASES

YEAR : 1984

	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL
1. TOTAL NOBLE GASES	CURIES	1.76E+03	8.13E+02	7.07E+02	1.28E+03	4.56E+03
2. TOTAL HALOGENS	CURIES	2.71E-03	3.27E-03	8.73E-03	9.61E-03	2.43E-02
3. TOTAL PARTICULATE GROSS BETA-GAMMA	CURIES	5.69E-06	1.10E-05	3.41E-04	1.96E-04	5.53E-04
4. TOTAL TRITIUM	CURIES	3.13E+00	1.01E+01	6.09E+00	1.03E+01	2.95E+01
5. TOTAL PARTICULATE GROSS ALPHA ACTIVITY	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6. MAXIMUM NOBLE GAS RELEASE RATE	UCI/SEC	1.60E+03	1.60E+03	1.60E+03	1.60E+03	1.60E+03
7. RADIONUCLIDES RELEASED	CURIES					
PARTICULATES						
CR-51		7.40E-09	0.00E+00	2.04E-09	3.51E-08	4.45E-08
MN-54		5.54E-06	0.00E+00	6.41E-06	6.83E-06	1.88E-05
CO-58		1.19E-07	6.37E-06	2.46E-04	4.30E-05	2.93E-04
CO-60		0.00E+00	0.00E+00	6.20E-05	8.32E-09	6.20E-05
SR-89		0.00E+00	0.00E+00	3.11E-09	2.84E-08	3.15E-08
NB-95		0.00E+00	0.00E+00	0.00E+00	4.90E-10	4.90E-10
MO-99		0.00E+00	0.00E+00	0.00E+00	7.25E-09	7.25E-09
RU-106		0.00E+00	0.00E+00	0.00E+00	4.39E-08	4.39E-08
CS-134		3.04E-09	2.23E-09	5.25E-06	3.31E-05	3.84E-05
CS-136		5.62E-10	0.00E+00	0.00E+00	9.62E-09	1.02E-08
CS-137		1.59E-08	4.65E-06	1.42E-05	1.02E-04	1.21E-04
CE-141		0.00E+00	0.00E+00	1.34E-06	2.03E-08	1.36E-06
CE-144		2.11E-09	0.00E+00	5.33E-06	9.85E-06	1.52E-05
HALOGENS						
I-131		2.26E-03	1.79E-03	6.25E-03	6.97E-03	1.73E-02
I-133		4.49E-04	1.49E-03	2.49E-03	2.63E-03	7.05E-03
GASES						
KR-85M		3.05E+00	7.80E-01	6.07E-01	1.21E+00	5.65E+00
KR-85		9.54E+00	2.36E+00	3.48E+00	8.73E+00	2.41E+01
KR-87		2.55E-01	2.18E-02	3.08E-02	1.80E-01	4.87E-01
KR-88		1.62E+00	5.60E-02	2.33E-01	7.06E-01	2.62E+00
XE-131M		6.85E+00	1.09E+00	4.10E+00	7.58E+00	1.96E+01
XE-133M		1.64E+01	1.56E+01	6.71E+00	1.10E+01	4.97E+01
XE-133		1.65E+03	7.61E+02	6.67E+02	1.21E+03	4.29E+03
XE-135M		2.53E-03	0.00E+00	6.00E-04	1.14E-04	3.24E-03
XE-135		4.71E+01	1.37E+01	1.28E+01	2.13E+01	9.49E+01
XE-137		1.53E-01	0.00E+00	0.00E+00	0.00E+00	1.53E-01
AR-41		2.64E+01	1.27E+01	1.15E+01	1.83E+01	6.90E+01

MCGUIRE NUCLEAR STATION
UNIT 1
RADIOACTIVE EFFLUENT RELEASES
DATE : 02/28/85

II. AIRBORNE RELEASES							YEAR : 1984
	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL	
1. TOTAL NOBLE GASES	CURIES	8.79E+02	4.06E+02	3.53E+02	6.42E+02	2.28E+03	
2. TOTAL HALOGENS	CURIES	1.35E-03	1.64E-03	4.37E-03	4.81E-03	1.22E-02	
3. TOTAL PARTICULATE GROSS BETA-GAMMA	CURIES	2.84E-06	5.51E-06	1.71E-04	9.78E-05	2.77E-04	
4. TOTAL TRITIUM	CURIES	1.57E+00	5.03E+00	3.05E+00	5.13E+00	1.48E+01	
5. TOTAL PARTICULATE GROSS ALPHA ACTIVITY	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
6. MAXIMUM NOBLE GAS RELEASE RATE	UCI/SEC	1.60E+03	1.60E+03	1.60E+03	1.60E+03	1.60E+03	
7. RADIONUCLIDES RELEASED	CURIES						
PARTICULATES							
CR-51		3.70E-09	0.00E+00	1.02E-09	1.75E-08	2.23E-08	
MN-54		2.77E-06	0.00E+00	3.21E-06	3.42E-06	9.39E-06	
CO-58		5.93E-08	3.19E-06	1.23E-04	2.15E-05	1.48E-04	
CO-60		0.00E+00	0.00E+00	3.10E-05	4.16E-09	3.10E-05	
SR-89		0.00E+00	0.00E+00	1.56E-09	1.42E-08	1.58E-08	
NB-95		0.00E+00	0.00E+00	0.00E+00	2.45E-10	2.45E-10	
MO-99		0.00E+00	0.00E+00	0.00E+00	3.63E-09	3.63E-09	
RU-106		0.00E+00	0.00E+00	0.00E+00	2.19E-08	2.19E-08	
CS-134		1.52E-09	1.11E-09	2.63E-06	1.66E-05	1.92E-05	
CS-136		2.81E-10	0.00E+00	0.00E+00	4.81E-09	5.09E-09	
CS-137		7.97E-09	2.33E-06	7.10E-06	5.12E-05	6.06E-05	
CE-141		0.00E+00	0.00E+00	6.72E-07	1.02E-08	6.82E-07	
CE-144		1.06E-09	0.00E+00	2.66E-06	4.93E-06	7.59E-06	
HALOGENS							
I-131		1.13E-03	8.93E-04	3.13E-03	3.49E-03	8.64E-03	
I-133		2.25E-04	7.43E-04	1.24E-03	1.32E-03	3.53E-03	
GASES							
KR-85M		1.53E+00	3.90E-01	3.04E-01	6.05E-01	2.83E+00	
KR-85		4.77E+00	1.18E+00	1.74E+00	4.37E+00	1.21E+01	
KR-87		1.27E-01	1.07E-02	1.54E-02	9.01E-02	2.44E-01	
KR-88		8.10E-01	2.80E-02	1.17E-01	3.53E-01	1.31E+00	
XE-131M		3.42E+00	5.45E-01	2.05E+00	3.79E+00	9.81E+00	
XE-133M		8.22E+00	7.78E+00	3.36E+00	5.50E+00	2.49E+01	
XE-133		8.26E+02	3.81E+02	3.34E+02	6.07E+02	2.15E+03	
XE-135M		1.26E-03	0.00E+00	3.00E-04	5.70E-05	1.62E-03	
XE-135		2.36E+01	6.84E+00	6.38E+00	1.07E+01	4.75E+01	
XE-137		7.67E-02	0.00E+00	0.00E+00	0.00E+00	7.67E-02	
AR-41		1.32E+01	6.36E+00	5.77E+00	9.16E+00	3.45E+01	

MCGUIRE NUCLEAR STATION
UNIT 2
RADIOACTIVE EFFLUENT RELEASES
DATE : 02/28/85

II. AIRBORNE RELEASES

YEAR : 1984

	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL
1. TOTAL NOBLE GASES	CURIES	8.79E+02	4.06E+02	3.53E+02	6.42E+02	2.28E+03
2. TOTAL HALOGENS	CURIES	1.35E-03	1.64E-03	4.37E-03	4.81E-03	1.22E-02
3. TOTAL PARTICULATE GROSS BETA-GAMMA	CURIES	2.84E-06	5.51E-06	1.71E-04	9.78E-05	2.77E-04
4. TOTAL TRITIUM	CURIES	1.57E+00	5.03E+00	3.05E+00	5.13E+00	1.48E+01
5. TOTAL PARTICULATE GROSS ALPHA ACTIVITY	CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6. MAXIMUM NOBLE GAS RELEASE RATE	UCI/SEC	1.60E+03	1.60E+03	1.60E+03	1.60E+03	1.60E+03
7. RADIONUCLIDES RELEASED	CURIES					
PARTICULATES						
CR-51		3.70E-09	0.00E+00	1.02E-09	1.75E-08	2.29E-08
MN-54		2.77E-06	0.00E+00	3.21E-06	3.42E-06	9.39E-06
CO-58		5.93E-08	3.19E-06	1.23E-04	2.15E-05	1.48E-04
CO-60		0.00E+00	0.00E+00	3.10E-05	4.16E-09	3.10E-05
SR-89		0.00E+00	0.00E+00	1.56E-09	1.42E-08	1.58E-08
NB-95		0.00E+00	0.00E+00	0.00E+00	2.45E-10	2.45E-10
MO-99		0.00E+00	0.00E+00	0.00E+00	3.63E-09	3.63E-09
RU-106		0.00E+00	0.00E+00	0.00E+00	2.19E-08	2.19E-08
C5-134		1.52E-09	1.11E-09	2.63E-06	1.66E-05	1.92E-05
C5-136		2.81E-10	0.00E+00	0.00E+00	4.81E-09	5.09E-09
C5-137		7.97E-09	2.33E-06	7.10E-06	5.12E-05	6.06E-05
CE-141		0.00E+00	0.00E+00	6.72E-07	1.02E-08	6.82E-07
CE-144		1.06E-09	0.00E+00	2.66E-06	4.93E-06	7.59E-06
HALOGENS						
I-131		1.13E-03	8.93E-04	3.13E-03	3.49E-03	8.64E-03
I-133		2.25E-04	7.43E-04	1.24E-03	1.32E-03	3.53E-03
GASES						
KR-85M		1.53E+00	3.90E-01	3.04E-01	6.05E-01	2.83E+00
KR-85		4.77E+00	1.18E+00	1.74E+00	4.37E+00	1.21E+01
KR-87		1.27E-01	1.09E-02	1.54E-02	9.01E-02	2.44E-01
KR-88		8.10E-01	2.80E-02	1.17E-01	3.53E-01	1.31E+00
XE-131M		3.42E+00	5.45E-01	2.05E+00	3.79E+00	9.81E+00
XE-133M		8.22E+00	7.78E+00	3.36E+00	5.50E+00	2.49E+01
XE-133		8.26E+02	3.81E+02	3.34E+02	6.07E+02	2.15E+03
XE-135M		1.26E-03	0.00E+00	3.00E-04	5.70E-05	1.62E-03
XE-135		2.36E+01	6.84E+00	6.38E+00	1.07E+01	4.75E+01
XE-137		7.67E-02	0.00E+00	0.00E+00	0.00E+00	7.67E-02
AR-41		1.32E+01	6.36E+00	5.77E+00	9.16E+00	3.45E+01

MCGUIRE GAS DOSE- 1ST QTR '84 RELEASES- 2/27/85 / Per unit

00000020

DISPERSION FACTOR- 7.20E-05 SEC/CU-M DEPOSITION FACTOR- 2.30E-09 M(-2)

BETA AIR DOSE- 2.29E+00 MILLIRADS GAMMA AIR DOSE- 1.09E+00 MILLIRADS

T. BODY	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	7.01D-01 MILLIREM	PLUME CONTRIBUTION-	95.57%
XE133	55.35%							
XE135	9.74%							
AR 41	26.60%							
GI-TRACT	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	7.01D-01 MILLIREM	PLUME CONTRIBUTION-	95.58%
XE133	55.36%							
XE135	9.74%							
AR 41	26.60%							
BONE	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	6.70D-01 MILLIREM	PLUME CONTRIBUTION-	99.97%
XE133	57.90%							
XE135	10.18%							
AR 41	27.82%							
LIVER	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	7.01D-01 MILLIREM	PLUME CONTRIBUTION-	95.55%
XE133	55.35%							
XE135	9.74%							
AR 41	26.59%							
KIDNEY	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	7.01D-01 MILLIREM	PLUME CONTRIBUTION-	95.54%
XE133	55.34%							
XE135	9.73%							
AR 41	26.59%							
THYROID	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	7.78D-01 MILLIREM	PLUME CONTRIBUTION-	86.13%
I 131	11.06%							
XE133	49.89%							
XE135	8.78%							
AR 41	23.97%							
LUNG	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	7.23D-01 MILLIREM	PLUME CONTRIBUTION-	95.71%
XE133	56.43%							
XE135	9.63%							
AR 41	25.80%							
SKIN	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	1.69D+00 MILLIREM	PLUME CONTRIBUTION-	98.17%
XE133	64.80%							
XE135	10.69%							
AR 41	17.70%							
THYROID	AGE-	ADULT	CRITICAL PATHWAY-	PLUME	TOTAL DOSE-	7.29D-01 MILLIREM	PLUME CONTRIBUTION-	91.85%
I 131	5.32%							
XE133	53.20%							
XE135	9.36%							
AR 41	25.56%							
THYROID	AGE-	INFANT	CRITICAL PATHWAY-	PLUME	TOTAL DOSE-	7.78D-01 MILLIREM	PLUME CONTRIBUTION-	86.13%
I 131	11.06%							
XE133	49.89%							
XE135	8.78%							
AR 41	23.97%							

MCGUIRE GAS DOSE- 2ND QTR '84 RELEASES- 2/27/85/ Per Unit

00000020

DISPERSION FACTOR- 7.20E-05 SEC/CU-M DEPOSITION FACTOR- 2.30E-09 M(-2)

BETA AIR DOSE- 1.03E+00 MILLIRADS GAMMA AIR DOSE- 4.80E-01 MILLIRADS

T. BODY	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	3.93D-01 MILLIREM	PLUME CONTRIBUTION-	74.71%
H 3	25.27%							
XE133	45.59%							
XE135	5.04%							
AR 41	22.88%							
GI-TRACT	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	3.93D-01 MILLIREM	PLUME CONTRIBUTION-	74.72%
H 3	25.27%							
XE133	45.59%							
XE135	5.04%							
AR 41	22.89%							
BONE	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	2.94D-01 MILLIREM	PLUME CONTRIBUTION-	99.92%
XE133	60.97%							
XE135	6.74%							
AR 41	30.60%							
LIVER	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	3.93D-01 MILLIREM	PLUME CONTRIBUTION-	74.69%
H 3	25.26%							
XE133	45.57%							
XE135	5.04%							
AR 41	22.87%							
KIDNEY	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	3.93D-01 MILLIREM	PLUME CONTRIBUTION-	74.67%
H 3	25.25%							
XE133	45.56%							
XE135	5.04%							
AR 41	22.87%							
THYROID	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	4.49D-01 MILLIREM	PLUME CONTRIBUTION-	65.25%
H 3	22.07%							
I 131	11.20%							
XE133	39.81%							
AR 41	19.98%							
LUNG	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	4.02D-01 MILLIREM	PLUME CONTRIBUTION-	75.34%
H 3	24.65%							
XE133	46.75%							
XE135	5.01%							
AR 41	22.32%							
SKIN	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	8.30D-01 MILLIREM	PLUME CONTRIBUTION-	88.05%
H 3	11.95%							
XE133	60.79%							
XE135	6.30%							
AR 41	17.34%							
THYROID	AGE-	ADULT	CRITICAL PATHWAY-	PLUME	TOTAL DOSE-	3.90D-01 MILLIREM	PLUME CONTRIBUTION-	75.18%
H 3	16.02%							
I 131	7.86%							
XE133	45.87%							
XE135	5.07%							
AR 41	23.02%							
THYROID	AGE-	INFANT	CRITICAL PATHWAY-	PLUME	TOTAL DOSE-	4.31D-01 MILLIREM	PLUME CONTRIBUTION-	67.99%
H 3	14.78%							
I 131	15.76%							
Xe 133	41.49%							
Ar 41	20.82%							

MCGUIRE GAS DOSE- 3RD QTR '84 RELEASES- 2/27/85/Per Unit

00000020

DISPERSION FACTOR- 7.20E-05 SEC/CU-M DEPOSITION FACTOR- 2.30E-09 M(-2)

BETA AIR DOSE- 9.06E-01 MILLIRADS GAMMA AIR DOSE- 4.28E-01 MILLIRADS

T. BODY	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	3.23D-01 MILLIREM	PLUME CONTRIBUTION-	81.23%
H 3	18.65%							
XE133	48.64%							
XE135	5.72%							
AR 41	25.27%							
GI-TRACT	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	3.22D-01 MILLIREM	PLUME CONTRIBUTION-	81.29%
H 3	18.66%							
XE133	48.68%							
XE135	5.72%							
AR 41	25.29%							
BONE	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	2.63D-01 MILLIREM	PLUME CONTRIBUTION-	99.69%
XE133	59.70%							
XE135	7.02%							
AR 41	31.01%							
LIVER	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	3.23D-01 MILLIREM	PLUME CONTRIBUTION-	81.14%
H 3	18.63%							
XE133	48.59%							
XE135	5.71%							
AR 41	25.24%							
KIDNEY	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	3.23D-01 MILLIREM	PLUME CONTRIBUTION-	81.06%
H 3	18.61%							
XE133	48.54%							
XE135	5.71%							
AR 41	25.22%							
THYROID	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	5.50D-01 MILLIREM	PLUME CONTRIBUTION-	47.67%
H 3	7.03%							
I 131	43.36%							
XE133	28.55%							
AR 41	14.83%							
LUNG	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	3.32D-01 MILLIREM	PLUME CONTRIBUTION-	81.58%
H 3	18.13%							
XE133	49.71%							
XE135	5.67%							
AR 41	24.57%							
SKIN	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	7.06D-01 MILLIREM	PLUME CONTRIBUTION-	91.47%
H 3	8.52%							
XE133	62.68%							
XE135	6.92%							
AR 41	18.51%							
THYROID	AGE-	ADULT	CRITICAL PATHWAY-	PLUME	TOTAL DOSE-	4.14D-01 MILLIREM	PLUME CONTRIBUTION-	63.35%
H 3	9.16%							
I 131	25.98%							
XE133	37.94%							
AR 41	19.71%							
THYROID	AGE-	INFANT	CRITICAL PATHWAY-	PLUME	TOTAL DOSE-	5.50D-01 MILLIREM	PLUME CONTRIBUTION-	47.67%
H 3	7.03%							
I 131	43.36%							
Xe133	28.55%							
Ar 41	14.83%							

MCGUIRE GAS DOSE- 4TH QTR '84 RELEASES- 2/27/85/ per unit

00000020

DISPERSION FACTOR- 7.20E-05 SEC/CM DEPOSITION FACTOR- 2.30E-09 M(-2)

BETA AIR DOSE- 1.64E+00 MILLIRADS GAMMA AIR DOSE- 7.51E-01 MILLIRADS

T. BODY	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	5.60D-01 MILLIREM	PLUME CONTRIBUTION-	81.85%
H 3	18.06%							
XE133	50.89%							
XE135	5.52%							
AR 41	23.09%							
GI-TRACT	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	5.60D-01 MILLIREM	PLUME CONTRIBUTION-	81.91%
H 3	18.07%							
XE133	50.93%							
XE135	5.53%							
AR 41	23.11%							
BONE	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	4.60D-01 MILLIREM	PLUME CONTRIBUTION-	99.69%
XE133	61.98%							
XE135	6.73%							
AR 41	28.12%							
LIVER	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	5.61D-01 MILLIREM	PLUME CONTRIBUTION-	81.73%
H 3	18.03%							
XE133	50.82%							
XE135	5.51%							
AR 41	23.06%							
KIDNEY	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	5.61D-01 MILLIREM	PLUME CONTRIBUTION-	81.73%
H 3	18.03%							
XE133	50.82%							
XE135	5.51%							
AR 41	23.06%							
THYROID	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	8.01D-01 MILLIREM	PLUME CONTRIBUTION-	57.28%
H 3	8.12%							
I 131	33.19%							
XE133	35.61%							
AR 41	16.16%							
LUNG	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	5.76D-01 MILLIREM	PLUME CONTRIBUTION-	82.37%
H 3	17.57%							
XE133	52.05%							
XE135	5.48%							
AR 41	22.47%							
SKIN	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	1.25D+00 MILLIREM	PLUME CONTRIBUTION-	91.88%
H 3	8.12%							
XE133	64.50%							
XE135	6.57%							
AR 41	16.63%							
THYROID	AGE-	ADULT	CRITICAL PATHWAY-	PLUME	TOTAL DOSE-	6.49D-01 MILLIREM	PLUME CONTRIBUTION-	70.69%
H 3	9.83%							
I 131	18.47%							
XE133	43.95%							
AR 41	19.94%							
THYROID	AGE-	INFANT	CRITICAL PATHWAY-	PLUME	TOTAL DOSE-	8.01D-01 MILLIREM	PLUME CONTRIBUTION-	57.28%
H 3	8.12%							
I 131	33.19%							
Xe 133	35.61%							
Ar 41	16.16%							

MCGUIRE GAS DOSE- TOTAL '84 RELEASES PER UNIT- 2/27/85

00000020

DISPERSION FACTOR- 7.20E-05 SEC/CU-M DEPOSITION FACTOR- 2.30E-09 M(-2)

BETA AIR DOSE- 5.87E+00 MILLIRADS GAMMA AIR DOSE- 2.75E+00 MILLIRADS

T.BODY	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	1.98D+00 MILLIREM	PLUME CONTRIBUTION-	85.19%
H 3	14.76%							
XE133	51.06%							
XE135	6.95%							
AR 41	24.64%							
GI-TRACT	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	1.98D+00 MILLIREM	PLUME CONTRIBUTION-	85.22%
H 3	14.76%							
XE133	51.08%							
XE135	6.95%							
AR 41	24.65%							
BONE	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	1.69D+00 MILLIREM	PLUME CONTRIBUTION-	99.84%
XE133	59.85%							
XE135	8.14%							
AR 41	28.87%							
LIVER	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	1.98D+00 MILLIREM	PLUME CONTRIBUTION-	85.13%
H 3	14.75%							
XE133	51.03%							
XE135	6.94%							
AR 41	24.62%							
KIDNEY	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	1.98D+00 MILLIREM	PLUME CONTRIBUTION-	85.10%
H 3	14.74%							
XE133	51.01%							
XE135	6.94%							
AR 41	24.61%							
THYROID	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	2.56D+00 MILLIREM	PLUME CONTRIBUTION-	65.81%
H 3	7.33%							
I 131	25.69%							
XE133	39.44%							
XE135	5.37%							
AR 41	19.03%							
LUNG	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	2.03D+00 MILLIREM	PLUME CONTRIBUTION-	85.59%
H 3	14.35%							
XE133	52.18%							
XE135	6.88%							
AR 41	23.96%							
SKIN	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	PLUME	MAXIMUM DOSE-	4.47D+00 MILLIREM	PLUME CONTRIBUTION-	93.47%
H 3	6.52%							
XE133	63.65%							
XE135	8.12%							
AR 41	17.45%							
THYROID	AGE-	ADULT	CRITICAL PATHWAY-	PLUME	TOTAL DOSE-	2.18D+00 MILLIREM	PLUME CONTRIBUTION-	77.18%
H 3	8.43%							
I 131	13.59%							
XE133	46.26%							
XE135	6.29%							
AR 41	22.32%							
THYROID	AGE-	INFANT	CRITICAL PATHWAY-	PLUME	TOTAL DOSE-	2.56D+00 MILLIREM	PLUME CONTRIBUTION-	65.81%
H 3	7.33%							
I 131	25.69%							
XE133	39.44%							
XE135	5.37%							
AR 41	19.03%							

ESTIMATED TOTAL ERROR PERCENT

The estimated total error percent range for gaseous and liquid effluents at McGuire Nuclear Station was determined using intuitive experience. The error percent range was estimated to be 25-100 percent. A more accurate method of making this estimation is being evaluated.

Attachment II

METEOROLOGICAL DATA

1984 METEOROLOGY JOINT FREQUENCIES: PASQUILL NUCLEAR STATION

19:00 TUESDAY, FEBRUARY 12, 1985

PASQUILL STABILITY E

SECTOR	WIND SPEED CLASS													TOTAL
	0.45- 1.49	1.50- 2.49	2.50- 3.49	3.50- 4.49	4.50- 5.49	5.50- 6.49	6.50- 7.49	7.50- 8.49	8.50- 9.49	>9.50 M/S	NO.	NO.	NO.	
-N-	12	41	24	10	6	1	1	.	.	.	.	.	95
-NNE-	16	32	21	15	10	5	2	5	2	.	.	.	108	
-NE-	18	36	25	16	17	16	1	3	.	.	.	.	132
-ENE-	7	20	27	19	9	4	1	.	.	.	.	.	87
-E-	9	16	9	.	.	.	.	.	.	.	.	.	34
-ESE-	9	19	25	9	1	.	.	.	.	.	.	.	63
-SE-	20	30	7	1	.	.	.	.	.	.	.	.	58
-SSE-	36	21	7	5	3	1	.	1	.	.	.	.	74
-S-	85	155	75	30	10	4	.	.	.	.	.	.	359
-SSW-	87	81	71	37	11	3	.	1	.	.	.	.	291
-SW-	74	36	25	13	5	1	.	1	.	.	.	.	155
-WSW-	57	22	12	8	4	.	.	.	.	.	.	.	103
-W-	57	38	21	12	5	2	.	1	.	.	.	.	136
-WNW-	23	24	28	17	7	2	1	.	.	.	.	.	102
-NW-	28	24	24	19	8	2	1	.	.	.	.	.	106
-NNW-	13	24	16	11	12	3	1	.	1	.	.	.	81	
-CALM-	4	.	.	.	.	.	.	.	.	.	.	.	4
TOTAL	555	619	417	222	108	44	8	12	3	.	.	.	1988	

ATTACHMENT III

OTHER REPORTABLE EVENTS

III. A. LEAKING SOURCE

A 2.12 mCi Technetium-99 (Tc-99) source was leak tested, per Technical Specification 3.7.9, on November 5, 1984, and was found to have .068 μ Ci of loose surface contamination. The source was manufactured by Isotope Products, Inc., of 1800 N. Keystone Street, Burbank, California 91504 and is source number 107-14-1. The source was subsequently decontaminated and repaired.

III. B. UNPLANNED RELEASES

1. On July 14, valve WG179 (auto-drain valve on H₂ Recombiner Phase Separator B) was inadvertently placed in the Manual/Open position during a Waste Drain Tank transfer to the Recycle Holdup Tank. The phase separator drained and allowed the release of gas from Waste Gas Decay Tank "E" to the WEFT sump.

A total of 17.03 curies of noble gases were released from Waste Gas Decay Tank "E". No Technical Specifications limits were exceeded.

2. On November 13, while changing a diaphragm on 1WG233 gas from WGDT "B" leaked past 1WG234 or 1WG236 and into room 607 on elevation 716'. A total of 9.49 Curies were released from WGDT "B" into the atmosphere.

A functional test was performed on 1WG234 and 1WG236 on November 15, but it was not determined which valve leaked. No Technical Specification limits were exceeded and the release was not an NRC reportable event (see attachments for calculations).

III. C. INOPERABLE INSTRUMENTATION

1. Containment Ventilation Unit Condensate Line Continuous Composite Samplers (Units 1 and 2)

On June 1, 1984, Units 1 and 2 Containment Ventilation Unit Condensate Line Continuous Composite Samplers were declared inoperable. The samplers have remained inoperable since that date and have exceeded the thirty (30) day inoperable period limit identified in action 33 of Technical Specification 3.3.3.8.

The samplers were originally declared inoperable on June 1. Frequent inoperable periods had been experienced and an investigation identified that the effluent had a higher solids content than the instruments were designed to sample. An appropriate replacement has tentatively been identified and installation is scheduled for July 15, 1985.

2. On July 5, 1984 at 0911, the Containment Ventilation Unit Condensate Drain Tank (VUCDT) effluent monitor, 2WLFT5900, was removed from service. At 0905 on August 7, 1984, Planning identified the effluent monitor had exceeded the 30 day limit identified in Action 34 of Tech. Specs. section 3.3.3.8.

The effluent monitor was originally declared inoperable on July 5. A work request was written to break flanges and rotate the effluent monitor. On August 7, 1984, IAE technicians discovered the effluent monitor was still inoperable.

On August 22, the VUCDT effluent monitor was declared operable.