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McGuire Nuclear Generation Department
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DUKE POWER

February 25, 1993

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

Subject: McGuire Nuclear Station
Docket Nos. 50-369 and 50-370
Semi-Annual Radioactive Effluent Release Report

Gentlemen:

Pursuant to Commitment SLC 16.11-16 of the McGuire Nuclear Station Selected Licensee Commitment Manual, attached is the subject report covering the second half of 1992.

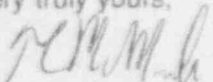
The following attachments are the contents of this report:

Attachment 1	Radioactive Effluent Releases and Supplementary Information
Attachment 2	Solid Waste Disposal Report
Attachment 3	Unplanned Offsite Releases
Attachment 4	Inoperable Monitoring Equipment
Attachment 5	Fuel Cycle Calculations

As stated in our Semi-Annual Radioactive Effluent Release Report submittal dated August 26, 1992, Revision 7 to the Process Control Manual was transmitted on October 8, 1991 and Revision 31 to the ODCM for MNS was submitted on August 29, 1991. There have been no additional revisions issued in this reporting period.

Questions or comments concerning this report should be directed to Kay Crane at (704) 875-4306.

Very truly yours,


T. C. McMeekin, Vice President
McGuire Nuclear Station

TCM.KLC

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Attachments

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Attachment 1

Radioactive Effluent Releases

Unit 1

MOOSE MOUNT NUCLEAR STATION
UNIT 1
RADIOACTIVE EFFLUENT RELEASES
DATE: 02/05/93

1. LIQUID RELEASES

YEAR: 1992

1. GROSS RADIOACTIVITY

A. TOTAL RELEASE

B. AVERAGE CONCENTRATION RELEASED

C. MAXIMUM CONCENTRATION RELEASED

UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL
CURIES	2.34E-01	4.86E-02	3.52E-02	8.02E-03	3.27E-01
UCI/ML	1.00E-10	5.28E-11	5.52E-11	9.02E-12	9.26E-11
NCI/ML	4.04E-09	1.06E-09	8.46E-10	1.91E-10	4.04E-09

2. TRITIUM

A. TOTAL RELEASE

B. AVERAGE CONCENTRATION RELEASED

CURIES	8.27E-01	8.22E-01	1.46E-02	1.23E-02	4.33E-01
UCI/ML	1.11E-07	8.70E-08	1.43E-07	1.23E-07	1.23E-07

3. DISSOLVED MOBILE GASES

A. TOTAL RELEASE

B. AVERAGE CONCENTRATION RELEASED

CURIES	4.20E-02	2.13E-03	3.12E-03	4.59E-02	1.22E-01
UCI/ML	7.35E-11	2.38E-12	3.11E-11	4.59E-11	3.48E-11

4. GROSS ALPHA ACTIVITY

A. TOTAL RELEASE

B. AVERAGE CONCENTRATION RELEASED

CURIES	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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	1.93E+06	5.40E+05	1.43E+06	8.13E+05	5.17E+06
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6. VOLUME OF DILUTION WATER

LITERS	5.83E+11	5.43E+11	1.00E+12	1.00E+12	3.53E+12
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7. RADIONUCLIDES RELEASED

CURIES	EC RATIO
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H-3	8.27E-01	8.22E-01	1.46E-02	1.23E-02	4.33E-01	1.03E-04
BE-7	0.00E+00	0.00E+00	5.75E-05	6.90E-05	5.73E-05	2.72E-11
F-18	0.00E+00	0.00E+00	6.71E-06	1.49E-06	1.02E-05	4.13E-12
NA-24	4.87E-04	2.43E-05	5.06E-04	5.42E-07	1.04E-03	5.86E-09
K-40	0.00E+00	0.00E+00	3.27E-05	0.00E+00	3.27E-05	2.31E-09
CR-51	1.41E-02	1.87E-03	6.94E-04	0.00E+00	2.46E-02	1.31E-03
MM-54	6.41E-03	2.20E-03	3.91E-04	1.42E-04	6.44E-03	6.91E-06
FE-55	1.34E-02	5.13E-03	1.34E-03	1.74E-02	2.18E-02	6.12E-08
FE-59	1.34E-03	4.31E-05	3.40E-05	1.46E-05	1.48E-03	4.18E-06
CO-57	3.57E-04	8.20E-05	0.00E+00	2.71E-06	3.62E-04	1.85E-04
CO-58	9.72E-07	1.00E-02	2.72E-03	1.26E-03	1.04E-01	1.48E-08
CO-60	4.38E-02	1.65E-02	3.83E-02	2.47E-02	6.87E-02	6.40E-06
ZN-65	5.85E-05	0.00E+00	0.00E+00	0.00E+00	5.85E-05	3.02E-09
BR-82	1.18E-03	1.59E-04	5.67E-06	9.40E-06	2.19E-05	1.55E-10
RB-86	0.00E+00	0.00E+00	3.73E-05	0.00E+00	3.73E-05	1.51E-09
RB-88	0.00E+00	0.00E+00	0.00E+00	2.17E-05	2.17E-05	1.54E-11
SR-89	0.00E+00	0.00E+00	0.00E+00	3.14E-05	3.14E-05	1.11E-04
SR-92	2.74E-04	2.53E-05	5.80E-06	2.18E-06	3.03E-04	2.15E-09
T-92	0.00E+00	3.14E-05	0.00E+00	0.00E+00	3.14E-05	2.22E-16
ZR-95	3.10E-03	6.96E-04	6.24E-05	4.71E-06	3.83E-03	5.42E-08
ZR-97	5.38E-06	3.84E-06	1.20E-06	6.72E-07	1.10E-05	3.46E-10
AS-95	6.32E-03	1.46E-03	1.44E-04	3.54E-05	7.89E-03	7.43E-03
NE-97	3.24E-04	4.12E-05	4.31E-05	6.23E-06	4.57E-04	4.21E-10
TC-99M	0.00E+00	1.70E-06	4.54E-06	6.44E-06	1.59E-05	4.54E-12
RP-106	2.32E-04	0.00E+00	3.37E-05	0.00E+00	2.35E-04	2.22E-08
AG-110M	3.52E-02	1.83E-03	2.45E-04	7.18E-05	4.66E-02	2.30E-07
CO-115	0.00E+00	5.89E-06	0.00E+00	0.00E+00	5.89E-06	2.74E-10
I-131	3.38E-03	2.87E-05	1.77E-03	1.21E-02	4.39E-03	1.24E-08
I-132	4.38E-04	0.20E+00	2.87E-06	0.00E+00	4.38E-04	1.30E-09
I-133	9.52E-03	2.65E-05	2.16E-04	1.84E-04	5.11E-04	2.07E-09
I-134	6.53E-06	0.00E+00	0.00E+00	8.74E-06	1.33E-05	6.41E-12
I-135	0.00E-07	0.00E+00	2.36E-05	1.91E-05	4.56E-05	3.63E-10
SB-122	4.17E-04	4.63E-03	8.98E-06	3.27E-06	4.74E-04	1.35E-09
SB-124	4.15E-03	5.12E-04	2.78E-03	0.00E+00	7.48E-03	3.02E-07
SB-125	3.21E-02	4.69E-03	1.94E-02	2.80E-04	5.64E-02	5.32E-07
SW-113	2.10E-04	9.05E-05	0.00E+00	1.38E-06	4.53E-04	3.62E-08
TE-132	5.07E-06	0.54E-06	6.21E-06	0.00E+00	1.48E-05	4.66E-10
CS-134	4.74E-04	5.83E-04	1.58E-04	1.07E-04	1.32E-03	4.16E-07
CS-136	0.00E+00	0.00E+00	6.97E-07	0.00E+00	6.97E-07	3.26E-11
CS-137	1.24E-03	1.48E-03	4.89E-04	3.85E-04	3.62E-03	1.62E-06
CS-138	2.54E-05	0.00E+00	1.94E-05	0.00E+00	4.48E-05	3.17E-11
BA-140	6.00E+00	0.00E+00	2.99E-06	0.00E+00	2.99E-06	1.04E-10
LA-140	0.00E+00	1.73E-04	1.58E-06	3.87E-07	1.27E-04	8.00E-09
CE-141	5.54E-04	0.00E+00	6.13E-06	0.00E+00	1.21E-03	1.14E-10
CE-142	0.79E+00	0.00E+00	2.50E-04	0.00E+00	2.50E-06	3.94E-11
CE-144	0.00E+00	2.03E-06	0.00E+00	0.00E+00	1.13E-04	1.65E-08
W-187	0.00E+00	0.00E+00	1.02E-05	0.00E+00	1.02E-05	1.43E-10
AR-41	0.00E+00	1.44E-06	0.00E+00	0.00E+00	1.44E-06	4.86E-12
AR-45	0.00E+00	0.00E+00	0.00E+00	3.38E-04	3.38E-04	6.41E-10
AR-85M	0.00E+00	0.20E+00	0.00E+00	6.75E-07	6.75E-07	1.51E-12
TE-131M	0.00E+00	0.00E+00	4.50E-05	0.00E+00	1.27E-03	1.27E-10
TE-133	4.00E-03	3.74E-03	2.99E-02	4.45E-02	2.19E-01	3.53E-07
TE-133M	1.53E-04	0.70E+00	3.16E-04	6.41E-04	3.16E-03	3.16E-09
TE-135	4.49E-04	2.54E-04	1.84E-03	9.41E-04	3.19E-03	6.04E-09
TE-135M	5.00E+00	0.00E+00	3.34E-06	1.40E-06	3.34E-06	1.06E-11

TOTAL EC RATIO: 1.35E-04

SKIN	MAXIMUM DOSE-	2.31E-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	87.66 %				
	SB 125	6.38 %				
BONE	MAXIMUM DOSE-	8.55E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	18.53 %				
	CS 137	72.28 %				
LIVER	MAXIMUM DOSE-	1.84E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	97.70 %				
	CS 134	14.11 %				
	CS 137	32.10 %				
T. BODY	MAXIMUM DOSE-	1.41E-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	96.66 %				
	CS 134	17.30 %				
	CS 137	28.51 %				
THYROID	MAXIMUM DOSE-	1.07E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	81.87 %				
	I 131	14.29 %				
KIDNEY	MAXIMUM DOSE-	1.20E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	73.06 %				
	CS 134	6.70 %				
	CS 137	16.05 %				
LUNG	MAXIMUM DOSE-	1.03E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	85.14 %				
	CS 137	6.76 %				
GI-LLI	MAXIMUM DOSE-	7.02E-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	9.40 %				
	CO 60	5.17 %				
	NS 95	79.57 %				

SKIN	MAXIMUM DOSE-	5.03E-04 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	89.69 %				
BONE	MAXIMUM DOSE-	5.66E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	21.45 %				
	CS 137	75.96 %				
LIVER	MAXIMUM DOSE-	1.17E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	H 3	46.05 %				
	CS 134	16.99 %				
	CS 137	35.10 %				
T. BODY	MAXIMUM DOSE-	8.92E-03 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	45.38 %				
	CS 134	20.99 %				
	CS 137	31.40 %				
THYROID	MAXIMUM DOSE-	5.51E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	97.88 %				
KIDNEY	MAXIMUM DOSE-	7.46E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	72.37 %				
	CS 134	8.28 %				
	CS 137	18.00 %				
LUNG	MAXIMUM DOSE-	6.21E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	86.90 %				
	CS 137	7.81 %				
GI-LLI	MAXIMUM DOSE-	1.48E-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	27.42 %				
	CO 60	5.48 %				
	NB 95	62.91 %				

SKIN	MAXIMUM DOSE-	1.68E-04 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	61.45 %				
	SB 125	31.42 %				
BONE	MAXIMUM DOSE-	1.81E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	17.52 %				
	CS 137	77.08 %				
LIVER	MAXIMUM DOSE-	1.12E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	82.76 %				
	CS 137	11.92 %				
T. BODY	MAXIMUM DOSE-	9.67E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	95.83 %				
THYROID	MAXIMUM DOSE-	1.11E-02 MREM	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	DRINKING
	H 3	80.88 %				
	I 131	19.05 %				
KIDNEY	MAXIMUM DOSE-	9.90E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	93.57 %				
LUNG	MAXIMUM DOSE-	9.54E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	97.10 %				
GI-LLI	MAXIMUM DOSE-	9.80E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	94.49 %				

SKIN	MAXIMUM DOSE-	7.22E-05 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	89.63 %				
	CS 137	6.59 %				
BONE	MAXIMUM DOSE-	1.33E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	16.03 %				
	CS 137	80.58 %				
LIVER	MAXIMUM DOSE-	9.16E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	84.56 %				
	CS 137	11.24 %				
T. BODY	MAXIMUM DOSE-	8.01E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	96.66 %				
THYROID	MAXIMUM DOSE-	8.97E-03 MREM	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	DRINKING
	H 3	83.74 %				
	I 131	16.19 %				
KIDNEY	MAXIMUM DOSE-	8.21E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	94.36 %				
LUNG	MAXIMUM DOSE-	7.92E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	97.76 %				
GI-LLI	MAXIMUM DOSE-	7.87E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	98.48 %				

SKIN	MAXIMUM DOSE-	2.35E-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	85.92 %				
	SB 125	7.36 %				
BONE	MAXIMUM DOSE-	1.54E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	19.33 %				
	CS 137	75.15 %				
LIVER	MAXIMUM DOSE-	4.79E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	64.42 %				
	CS 134	10.17 %				
	CS 137	23.07 %				
T. BODY	MAXIMUM DOSE-	3.63E-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	DRINKING
	H 3	63.77 %				
	CS 134	12.62 %				
	CS 137	20.74 %				
THYROID	MAXIMUM DOSE-	3.55E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	86.11 %				
	I 131	11.84 %				
KIDNEY	MAXIMUM DOSE-	3.65E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	84.57 %				
	CS 137	9.89 %				
LUNG	MAXIMUM DOSE-	3.33E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	92.74 %				
GI-LLI	MAXIMUM DOSE-	8.40E-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	27.55 %				
	NB 95	63.30 %				

MCQUIRE NUCLEAR STATION
UNIT 1
RADIOACTIVE EFFLUENT RELEASES
DATE : 02/03/93

II. AIRBORNE RELEASES YEAR : 1992

	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL	
1. TOTAL NOBLE GASES	CURIES	1.82E+02	5.80E+01	1.17E+02	5.49E+01	4.85E+02	
2. TOTAL HALOGENS	CURIES	1.21E+03	3.63E+04	1.66E+03	2.15E+05	2.59E+03	
3. TOTAL PARTICULATE GROSS BETA-GAMMA	CURIES	4.58E+05	2.73E+05	1.59E+04	1.82E+06	2.34E+04	
4. TOTAL TRITIUM	CURIES	1.45E+01	5.21E+00	4.41E+00	5.43E+00	3.00E+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						IC RATIO
H-3		1.40E+01	5.21E+00	4.41E+00	5.43E+00	3.00E+01	6.85E-04

PARTICULATES

F-18	0.00E+00	1.82E+10	1.80E+07	4.44E+07	6.34E+07	1.45E+11
NA-24	0.00E+00	0.00E+00	1.10E+08	0.00E+00	1.10E+08	2.58E+10
CL-38	1.11E+09	0.00E+00	3.20E+08	0.00E+00	4.34E+08	1.65E+12
CO-51	9.43E+06	0.00E+00	0.00E+00	0.00E+00	9.43E+06	7.17E+10
MH-58	0.00E+00	0.00E+00	2.66E+10	0.00E+00	2.66E+10	3.03E+14
CO-54	1.38E+05	0.00E+00	0.00E+00	0.00E+00	1.38E+05	3.15E+08
CO-60	2.02E+05	1.76E+05	4.95E+07	0.00E+00	3.84E+05	1.75E+08
BR-82	1.80E+08	4.23E+08	7.96E+08	1.21E+07	2.81E+07	1.19E+10
BR-84	0.00E+00	0.00E+00	2.43E+09	0.00E+00	2.43E+09	7.50E+14
BR-86	6.03E+08	9.58E+08	1.31E+04	5.29E+07	1.42E+04	2.58E+09
SE-125	0.00E+00	0.00E+00	1.18E+05	0.00E+00	1.18E+05	3.88E+08
CS-137	1.62E+04	1.61E+10	1.52E+05	6.52E+07	1.77E+05	2.02E+07
CS-138	4.44E+09	9.88E+08	9.07E+08	7.82E+08	1.83E+07	5.23E+12
CE-140	0.00E+00	0.00E+00	1.58E+10	0.00E+00	1.58E+10	1.81E+13

HALOGENS

I-131	4.02E+04	3.41E+04	4.53E+04	1.18E+05	1.07E+05	1.22E+05
I-132	7.77E+04	2.83E+04	1.84E+07	1.62E+07	1.84E+03	1.21E+07
I-133	2.76E+05	1.62E+05	4.04E+04	9.20E+06	8.59E+04	1.05E+06
I-134	0.00E+00	0.00E+00	0.00E+00	1.28E+09	1.11E+09	4.78E+14
I-135	0.00E+00	0.58E+08	3.13E+07	4.14E+07	7.50E+07	2.66E+10

GASES

AR-41	1.99E+00	3.67E+00	0.40E+00	4.50E+00	1.82E+01	4.16E+03
KR-85	5.16E+00	1.39E+01	1.37E+01	0.00E+00	3.33E+01	1.09E+04
BR-87M	4.16E+01	3.47E+01	5.50E+01	0.53E+01	1.87E+06	6.41E+05
RN-222	8.94E+03	6.81E+03	6.80E+02	2.04E+02	2.75E+01	7.14E+05
XE-135	4.93E+04	4.05E+01	6.83E+01	4.43E+01	2.11E+06	5.08E+04
XE-135M	2.02E+00	2.19E+02	1.12E+01	5.50E+02	2.51E+00	2.85E+08
XE-133	1.62E+02	2.52E+01	8.16E+01	4.29E+01	0.11E+02	1.42E+03
XE-137M	0.81E+00	0.69E+01	1.40E+00	8.60E+01	4.74E+00	1.80E+05
XE-135I	0.15E+00	6.74E+00	1.63E+01	5.75E+00	0.70E+01	1.01E+03
SE-137M	4.71E+03	7.40E+04	2.87E+01	4.42E+03	0.94E+02	3.04E+06
XE-138	4.25E+01	1.50E+04	6.42E+04	4.82E+04	4.40E+02	5.02E+05

NOTE: IC RATIO = IC RATIO

MCGUIRE UNIT 1 GAS DOSE 001-091 92 RELEASE WEIGHTED NET REPORT SUMMARY
SPECIAL LOCATION
AT 0.50 MILES NNE

02/24/93

NOBLE GAS EXPOSURE:

BETA AIR DOSE = 5.23E-01 MILLIRADS
GAMMA AIR DOSE = 1.96E-01 MILLIRADS

TOTAL BODY DOSE = 1.17E-01 MILLIREM
XE133 80.14%
XE135 7.50%
AR 41 6.72%

TOTAL SKIN DOSE = 3.23E-01 MILLIREM
XE133 81.65%
XE135 7.16%
AR 41 3.88%

MCQUIRE UNIT 1 GAS DOSE 001-091 92 RELEASE WEIGHTED NET REPORT SUMMARY 02/24/93
SPECIAL LOCATION
AT 1.00 MILES ESE

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID
CRITICAL AGE - INFANT
CRITICAL PATHWAY - GOATMILK @ 97.9%
MAXIMUM ORGAN DOSE = 1.11E-01 MILLIREM
H 3 9.75%
I 131 90.01%

MCGUIRE UNIT 1 GAS DOSE 092-182 92 RELEASE WEIGHTED NET REPORT SUMMARY
SPECIAL LOCATION
AT 0.50 MILES N

02/24/93

NOBLE GAS EXPOSURE:

BETA AIR DOSE = $8.88\text{E}-02$ MILLIRADS
GAMMA AIR DOSE = $7.29\text{E}-02$ MILLIRADS

TOTAL BODY DOSE = $4.78\text{E}-02$ MILLIREM
KR 85 0.32%
KR 88 10.09%
XE133 10.32%
XE135 19.24%
AR 41 58.24%

TOTAL SKIN DOSE = $1.11\text{E}-01$ MILLIREM
KR 85 16.80%
KR 88 5.97%
XE133 12.49%
XE135 21.83%
AR 41 40.07%

MCGUIRE UNIT 1 GAS DOSE 092-182 92 RELEASE WEIGHTED NET REPORT SUMMARY
SPECIAL LOCATION
AT 0.50 MILES SSE

02/24/93

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID
CRITICAL AGE - CHILD
CRITICAL PATHWAY - VEGET @ 74.99%

MAXIMUM ORGAN DOSE = 1.60E-02 MILLIREM
H 3 99.99%

MCGUIRE UNIT 1 GAS DOSE 183-274 92 RELEASE WEIGHTED NET REPORT SUMMARY
SPECIAL LOCATION
AT 0.50 MILES NNE

02/24/93

NOBLE GAS EXPOSURE:

BETA AIR DOSE = 3.24E-01 MILLIRADS
GAMMA AIR DOSE = 2.66E-01 MILLIRADS

TOTAL BODY DOSE = 1.73E-01 MILLIREM
KR 85 0.17%
KR 88 7.56%
XE133 17.88%
XE135 14.50%
AR 41 58.75%

TOTAL SKIN DOSE = 3.78E-01 MILLIREM
KR 85 9.66%
KR 88 4.78%
XE133 23.00%
XE135 17.45%
AR 41 42.97%

MCQUIRE UNIT 1 GAS DOSE 183-274 92 RELEASE WEIGHTED NET REPORT SUMMARY 02/26/93
SPECIAL LOCATION
AT 1.00 MILES ESE

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID
CRITICAL AGE - INFANT
CRITICAL PATHWAY - GOATMILK @ 97.61%
MAXIMUM ORGAN DOSE = 4.12E-02 MILLIREM
H 3 5.67%
I 131 95.35%

MCQUIRE UNIT 1 GAS DOSE 275-366 92 RELEASE WEIGHTED NET REPORT SUMMARY 02/24/93
 SPECIAL LOCATION
 AT 0.50 MILES N8E

NOBLE GAS EXPOSURE:

BETA AIR DOSE = 1.15E-01 MILLIRADS
 GAMMA AIR DOSE = 1.23E-01 MILLIRADS

TOTAL BODY DOSE = 7.98E-02 MILLIREM
 KR 88 9.06%
 Xe135 15.09%
 Xe135 14.97%
 AR 41 59.81%

TOTAL SKIN DOSE = 1.56E-01 MILLIREM
 KR 88 6.42%
 Xe135 21.87%
 Xe135 20.33%
 AR 41 49.15%

MCQUIRE UNIT 1 GAS DOSE 275-366 92 RELEASE WEIGHTED MET REPORT SUMMARY 02/24/93
SPECIAL LOCATION
AT 0.50 MILES ESE

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID
CRITICAL AGE - CHILD
CRITICAL PATHWAY - VEGET @ 78.14%
MAXIMUM ORGAN DOSE = 1.37E-02 MILLIREM
H 3 97.13%

MCQUIRE UNIT 1 GAS DOSE 001-366 92 RELEASE WEIGHTED MET REPORT SUMMARY 02/24/93
 SPECIAL LOCATION
 AT 0.50 MILES NNE

NOBLE GAS EXPOSURE:

BETA AIR DOSE = 1.04E+00 MILLIRADS
 GAMMA AIR DOSE = 6.47E-01 MILLIRADS

TOTAL BC V DOSE = 4.10E-01 MILLIREM
 KR 85 0.12%
 KR 88 7.01%
 XE133 34.38%
 XE135 13.16%
 AR 41 45.89%

TOTAL SKIN DOSE = 9.56E-01 MILLIREM
 KR 85 6.58%
 KR 88 4.14%
 XE133 41.58%
 XE135 19.96%
 AR 41 30.18%

MCGUIRE UNIT 1 GAS DOSE 001-366 92 RELEASE WEIGHTED NET REPORT SUMMARY
SPECIAL LOCATION
AT 1.00 MILES ESE

02/24/93

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID
CRITICAL AGE - INFANT
CRITICAL PATHWAY - GOATMILK @ 97.53%

MAXIMUM ORGAN DOSE = 1.59E-01 MILLIREM
H 3 11.76%
I 131 87.77%

Attachment 1

Radioactive Effluent Releases

Unit 2

NEWPORT MULLAN STATION
UNIT 2
RADIOACTIVE EFFLUENT RELEASES
DATE: 02/05/83

1. LIQUID RELEASES

	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL	YEAR: 1982
1. GROSS RADIOACTIVITY							
A. TOTAL RELEASE	CURIES	2.34E-01	4.88E-02	2.52E-02	4.82E-03	3.27E-01	
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	4.88E-10	5.38E-11	3.52E-11	8.82E-12	6.24E-11	
C. MAXIMUM CONCENTRATION RELEASED	UCI/ML	4.84E-09	1.28E-09	9.84E-10	1.83E-10	4.24E-09	
2. TRITIUM							
A. TOTAL RELEASE	CURIES	8.27E-01	8.22E-01	1.46E-02	1.23E-02	4.33E-01	
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	1.41E-07	8.70E-08	1.45E-07	1.23E-07	1.23E-07	
3. DISSOLVED NOBLE GASES							
A. TOTAL RELEASE	CURIES	4.30E-02	2.15E-02	3.12E-02	4.59E-02	1.22E-01	
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	7.75E-11	2.38E-12	3.12E-11	4.59E-11	3.46E-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	1.93E+04	9.80E+03	1.45E+04	8.13E+03	5.17E+04	
6. VOLUME OF DILUTION WATER	LITERS	5.45E+11	9.45E+11	1.00E+12	1.00E+12	3.53E+12	
7. RADIONUCLIDES RELEASED	CURIES						EC RATIO

H-3	8.27E-01	8.22E-01	1.46E-02	1.23E-02	4.33E-01	1.23E-04
BE-7	0.00E+00	0.00E+00	0.73E-03	0.00E+00	0.73E-03	2.72E-11
F-18	0.00E+00	0.00E+00	8.71E-06	1.48E-06	1.02E-05	4.12E-12
NA-24	4.87E-04	2.83E-03	5.06E-04	5.63E-07	1.04E-03	5.86E-09
K-40	0.00E+00	0.00E+00	2.27E-05	0.00E+00	2.27E-05	2.31E-09
CR-51	2.41E-02	1.87E-03	8.94E-04	0.00E+00	2.66E-02	1.51E-09
MA-54	6.91E-03	2.28E-03	3.91E-04	1.82E-04	6.44E-03	6.91E-09
FE-55	1.34E-02	5.13E-03	1.34E-03	1.34E-03	1.65E-02	6.12E-08
FE-59	1.34E-03	4.23E-05	0.88E-05	1.46E-05	4.85E-03	4.18E-09
CO-57	3.67E-04	8.20E-05	0.00E+00	2.71E-06	3.92E-04	1.85E-09
CO-58	8.72E-02	1.20E-02	2.72E-03	1.28E-03	1.04E-01	1.48E-04
CO-60	4.58E-02	1.43E-02	1.83E-03	2.47E-03	6.87E-02	8.49E-06
ZN-65	5.85E-05	0.00E+00	0.00E+00	0.00E+00	5.85E-05	3.32E-09
BR-82	1.18E-05	1.59E-06	5.07E-06	3.48E-06	2.19E-05	1.55E-10
RS-86	0.00E+00	0.00E+00	3.73E-05	0.00E+00	3.73E-05	1.51E-09
SR-88	0.00E+00	0.00E+00	0.00E+00	2.17E-05	2.17E-05	1.54E-11
SR-89	0.00E+00	0.00E+00	0.00E+00	2.14E-05	2.14E-05	1.11E-09
Y-92	2.74E-04	2.09E-05	5.80E-04	2.10E-06	3.03E-04	2.15E-09
ZR-93	0.00E+00	2.14E-05	4.60E+00	0.00E+00	3.14E-05	2.22E-10
ZA-97	3.10E-03	4.88E-04	8.24E-03	4.71E-06	3.82E-03	5.42E-08
MO-95	3.39E-06	0.84E-06	1.24E-06	8.72E-07	1.10E-05	3.48E-10
MO-97	8.22E-03	1.41E-03	1.84E-04	3.04E-05	7.08E-03	7.42E-08
TC-99M	3.74E-04	6.12E-05	6.51E-05	6.23E-06	4.57E-04	4.21E-10
RU-106	0.00E+00	1.75E-06	4.54E-06	8.64E-06	1.59E-05	4.51E-12
AG-110M	2.82E-04	0.00E+00	3.27E-05	0.00E+00	2.23E-04	2.22E-08
CD-115	2.52E-02	1.03E-02	2.40E-04	7.18E-05	4.86E-02	2.30E-07
I-121	0.00E+00	8.89E-04	0.00E+00	0.00E+00	8.89E-04	2.74E-10
I-122	1.38E-03	2.97E-05	1.77E-03	1.21E-03	4.34E-03	1.74E-06
I-123	4.36E-04	0.00E+00	2.67E-06	0.00E+00	4.36E-04	1.30E-09
I-124	8.52E-05	2.59E-05	2.18E-04	1.24E-04	3.13E-04	2.07E-08
I-125	6.15E-04	0.00E+00	0.00E+00	8.74E-06	1.30E-03	9.41E-12
SR-122	0.38E-07	0.00E+00	2.24E-05	1.61E-05	4.06E-05	3.83E-10
SB-124	4.17E-04	4.85E-05	8.96E-05	3.77E-06	4.76E-04	1.35E-09
SB-125	4.15E-03	5.15E-04	2.79E-03	0.00E+00	7.49E-03	3.02E-07
SN-113	3.21E-02	4.89E-03	1.94E-02	2.80E-04	5.64E-02	5.33E-07
TE-122	5.12E-04	9.05E-05	0.00E+00	1.30E-06	4.23E-04	3.82E-09
CS-134	5.07E-06	0.54E-06	6.21E-06	0.00E+00	1.48E-05	4.68E-10
CS-136	4.74E-04	5.85E-04	1.58E-04	1.07E-04	1.32E-03	4.18E-07
CS-137	0.00E+00	0.27E+00	6.97E-07	0.00E+00	6.97E-07	2.20E-11
CS-138	1.29E-02	1.45E-02	4.81E-04	3.80E-04	3.57E-02	1.02E-04
BA-140	0.94E-05	0.00E+00	1.94E-05	0.00E+00	4.48E-05	3.17E-11
JA-142	0.00E+00	0.00E+00	2.91E-06	0.00E+00	2.91E-06	0.61E-10
CS-141	0.00E+00	1.22E-04	1.58E-06	1.87E-02	1.17E-04	4.69E-09
CS-143	0.94E-04	0.00E+00	4.13E-06	0.00E+00	7.71E-05	1.34E-10
CE-144	0.00E+00	0.00E+00	2.30E-06	0.00E+00	2.30E-06	3.34E-11
W-187	1.04E-04	2.05E-05	8.09E+00	0.00E+00	1.13E-04	1.05E-08
RP-41	0.00E+00	0.00E+00	1.32E-05	0.00E+00	1.32E-05	1.44E-10
RP-81	0.00E+00	1.44E-06	0.00E+00	0.00E+00	1.44E-06	4.06E-12
RA-85M	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.20E-04	8.91E-10
RE-131M	0.00E+00	1.00E+00	0.50E+00	6.75E-01	6.75E-01	1.91E-10
RE-132	0.00E+00	0.00E+00	4.50E-05	0.00E+00	4.50E-05	1.27E-10
RE-133M	4.30E-02	1.78E-02	2.88E-03	4.40E-02	1.17E-01	2.33E-07
RE-135	1.32E-04	0.80E-03	3.04E-04	8.41E-04	3.13E-03	3.14E-09
RE-135M	8.49E-04	0.58E-04	1.04E-03	9.41E-04	3.13E-03	8.04E-09
RE-135M	0.00E+00	0.00E+00	2.74E-06	1.40E-06	2.74E-06	1.86E-11

TOTAL EC RATIO 1.25E-04

SKIN	MAXIMUM DOSE-	2.31E-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	87.66 %				
	SB 125	6.36 %				
BONE	MAXIMUM DOSE-	8.55E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	18.53 %				
	CS 137	72.28 %				
LIVER	MAXIMUM DOSE-	1.84E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	47.70 %				
	CS 134	14.11 %				
	CS 137	32.10 %				
T. BODY	MAXIMUM DOSE-	1.41E-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	46.66 %				
	CS 134	17.30 %				
	CS 137	28.51 %				
THYROID	MAXIMUM DOSE-	1.07E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	81.87 %				
	I 131	14.29 %				
KIDNEY	MAXIMUM DOSE-	1.20E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	73.06 %				
	CS 134	6.70 %				
	CS 137	16.05 %				
LUNG	MAXIMUM DOSE-	1.03E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	85.14 %				
	CS 137	6.76 %				
GI-LLI	MAXIMUM DOSE-	7.02E-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	9.40 %				
	CO 60	5.17 %				
	NB 95	79.57 %				

SKIN	MAXIMUM DOSE-	5.03E-04 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	89.69 %				
BONE	MAXIMUM DOSE-	5.66E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	21.45 %				
	CS 137	75.96 %				
LIVER	MAXIMUM DOSE-	1.17E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	H 3	46.05 %				
	CS 134	16.99 %				
	CS 137	35.10 %				
T. BODY	MAXIMUM DOSE-	8.92E-03 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	45.38 %				
	CS 134	20.99 %				
	CS 137	31.40 %				
THYROID	MAXIMUM DOSE-	5.51E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	97.88 %				
KIDNEY	MAXIMUM DOSE-	7.46E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	72.37 %				
	CS 134	8.28 %				
	CS 137	18.00 %				
LUNG	MAXIMUM DOSE-	6.21E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	86.90 %				
	CS 137	7.81 %				
GI-LLI	MAXIMUM DOSE-	1.48E-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	27.42 %				
	CO 60	5.48 %				
	MB 95	62.91 %				

SKIN	MAXIMUM DOSE-	1.68E-04 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	61.45 %				
	SB 125	31.42 %				
BONE	MAXIMUM DOSE-	1.81E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	17.52 %				
	CS 137	77.08 %				
LIVER	MAXIMUM DOSE-	1.12E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	82.76 %				
	CS 137	11.92 %				
T. BODY	MAXIMUM DOSE-	9.67E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	95.83 %				
THYROID	MAXIMUM DOSE-	1.11E-02 MREM	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	DRINKING
	H 3	80.88 %				
	I 131	19.05 %				
KIDNEY	MAXIMUM DOSE-	9.90E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	93.57 %				
LUNG	MAXIMUM DOSE-	9.54E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	97.10 %				
GI-LLI	MAXIMUM DOSE-	9.80E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	94.49 %				

SKIN	MAXIMUM DOSE-	7.22E-05 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	89.63 %				
	CS 137	6.59 %				
BONE	MAXIMUM DOSE-	1.33E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	16.03 %				
	CS 137	80.58 %				
LIVER	MAXIMUM DOSE-	9.16E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	84.56 %				
	CS 137	11.24 %				
T. BODY	MAXIMUM DOSE-	8.01E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	96.66 %				
THYROID	MAXIMUM DOSE-	8.97E-03 MREM	CRITICAL AGE-	INFANT	CRITICAL PATHWAY-	DRINKING
	H 3	83.74 %				
	I 131	16.19 %				
KIDNEY	MAXIMUM DOSE-	8.21E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	94.36 %				
LUNG	MAXIMUM DOSE-	7.92E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	97.76 %				
GI-LLI	MAXIMUM DOSE-	7.87E-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	98.48 %				

SKIN	MAXIMUM DOSE-	2.35E-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	85.92 %				
	SB 125	7.36 %				
BONE	MAXIMUM DOSE-	1.54E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 134	19.33 %				
	CS 137	75.15 %				
LIVER	MAXIMUM DOSE-	4.79E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	64.42 %				
	CS 134	10.17 %				
	CS 137	23.07 %				
T. BODY	MAXIMUM DOSE-	3.63E-02 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	DRINKING
	H 3	63.77 %				
	CS 134	12.62 %				
	CS 137	20.74 %				
THYROID	MAXIMUM DOSE-	3.55E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	86.94 %				
	I 131	11.84 %				
KIDNEY	MAXIMUM DOSE-	3.65E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	84.57 %				
	CS 137	9.89 %				
LUNG	MAXIMUM DOSE-	3.33E-02 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	92.74 %				
GI-LLI	MAXIMUM DOSE-	8.40E-03 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	27.55 %				
	NB 95	63.30 %				

MCQUIRE NUCLEAR STATION
UNIT 2
RADIOACTIVE EFFLUENT RELEASES
DATE : 02/03/93

11. AIRBORNE RELEASES

YEAR : 1992

	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL	
1. TOTAL NOBLE GASES	CURIES	1.82E+02	5.09E+01	1.17E+02	5.49E+01	4.05E+02	
2. TOTAL HALOGENS	CURIES	1.21E+03	3.03E+04	1.04E+02	2.15E+03	2.59E+03	
3. TOTAL PARTICULATE GROSS BETA-GAMMA	CURIES	4.54E+05	2.73E+05	1.50E+04	1.02E+06	2.24E+06	
4. TOTAL TRITIUM	CURIES	1.48E+01	5.21E+00	4.41E+00	5.62E+00	3.00E+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	MC/SEC	1.80E+03	1.80E+03	1.80E+03	1.80E+03	1.80E+03	
7. RADIONUCLIDES RELEASED	CURIES						EC NAT'D
R-3		1.40E+01	5.21E+00	4.41E+00	5.62E+00	3.00E+01	6.85E+04
PARTICULATED							
Fe-55		0.00E+00	1.83E+10	1.90E+07	4.44E+07	6.34E+07	1.45E+11
Na-24		0.00E+00	0.00E+00	1.10E+07	0.00E+00	1.10E+07	3.59E+17
Cl-36		1.11E+08	0.00E+00	3.23E+08	0.00E+00	4.34E+08	1.45E+12
Cr-51		9.43E+06	0.00E+00	0.00E+00	0.00E+00	9.43E+06	7.17E+10
Mn-54		0.00E+00	0.00E+00	2.66E+10	0.00E+00	2.66E+10	3.03E+14
Co-58		1.38E+05	0.00E+00	0.00E+00	0.00E+00	1.38E+05	3.15E+08
Co-60		2.03E+05	1.76E+03	4.95E+07	0.00E+00	3.84E+05	1.75E+06
Rb-87		1.80E+08	4.23E+06	7.96E+08	1.21E+07	2.61E+07	1.18E+10
Rb-86		0.00E+00	0.00E+00	2.63E+09	0.00E+00	2.63E+09	7.50E+14
Rb-88		6.03E+09	9.59E+06	1.31E+04	5.29E+07	1.42E+04	3.59E+09
Sr-90		0.00E+00	0.00E+00	1.88E+05	0.00E+00	1.88E+05	3.84E+08
CS-137		1.82E+04	1.61E+10	1.52E+05	6.52E+07	1.79E+05	2.02E+07
CS-138		4.84E+09	9.00E+09	9.07E+08	7.02E+06	1.83E+07	5.23E+10
CE-143		0.00E+00	0.00E+00	1.56E+10	0.00E+00	1.56E+10	1.61E+13
HALOGENS							
I-131		4.02E+04	2.41E+06	6.50E+04	1.18E+05	1.07E+05	1.22E+05
I-132		3.77E+04	2.83E+04	1.69E+07	1.82E+07	1.06E+05	1.21E+07
I-133		2.76E+05	1.02E+05	4.04E+04	9.39E+06	4.59E+04	1.05E+06
I-134		0.00E+00	0.00E+00	0.00E+00	1.26E+09	1.26E+09	4.78E+14
I-135		0.00E+00	2.56E+08	3.13E+07	4.14E+07	7.53E+07	2.66E+10
GASES							
Ar-41		1.56E+00	2.67E+00	6.40E+00	4.50E+00	1.02E+01	4.10E+03
Ar-40		5.76E+00	1.39E+01	1.37E+01	0.00E+00	3.32E+01	1.19E+04
Ar-39		4.18E+01	3.47E+01	5.50E+01	3.50E+01	1.67E+02	3.31E+05
Ar-42		9.84E+02	6.61E+02	6.80E+02	2.04E+02	2.75E+03	3.14E+05
Ar-39		4.80E+03	4.05E+01	6.65E+01	4.42E+01	2.01E+02	5.00E+04
Ne-199M		2.32E+00	2.18E+02	1.12E+01	5.50E+02	3.53E+02	2.89E+04
Ne-133		1.52E+02	2.52E+01	9.18E+01	4.24E+01	3.11E+02	1.42E+03
Ne-133M		1.61E+00	5.49E+01	1.48E+00	6.78E+01	4.74E+00	1.80E+05
Ne-135		3.75E+00	8.79E+00	1.03E+01	5.75E+00	3.10E+01	1.01E+03
Ne-199		4.25E+02	1.40E+04	3.67E+03	5.42E+01	5.34E+02	3.04E+04
Ne-133		4.71E+02	1.50E+04	6.42E+04	6.62E+04	4.40E+02	5.92E+06

TOTAL EC NAT'D 9.00E+03

MCQUIRE UNIT 2 GAS DOSE 001-091 92 RELEASE WEIGHTED NET REPORT SUMMARY 02/24/93
 SPECIAL LOCATION
 AT 0.50 MILES NNE

MOBILE GAS EXPOSURE:

BETA AIR DOSE = 5.23E-01 MILLIRADS
 GAMMA AIR DOSE = 1.96E-01 MILLIRADS

TOTAL BODY DOSE = 1.17E-01 MILLIREM
 XE133 80.14%
 XE135 7.50%
 AR 41 6.72%

TOTAL SKIN DOSE = 3.23E-01 MILLIREM
 XE133 81.65%
 XE135 7.16%
 AR 41 5.88%

MCGUIRE UNIT 2 GAS DOSE 001-091 92 RELEASE WEIGHTED NET REPORT SUMMARY
SPECIAL LOCATION
AT 1.00 MILES ESE

02/24/93

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID
CRITICAL AGE - INFANT
CRITICAL PATHWAY - GOATMILK @ 97.99%

MAXIMUM ORGAN DOSE = $1.11\text{E}-01$ MILLIREM
H 3 9.75%
I 131 90.01%

MCQUIRE UNIT 2 GAS DOSE 092-162 92 RELEASE WEIGHTED NET REPORT SUMMARY 02/24/93
 SPECIAL LOCATION
 AT 0.50 MILES N

NOBLE GAS EXPOSURE:

BETA AIR DOSE = 8.86E-02 MILLIRADS
 GAMMA AIR DOSE = 7.29E-02 MILLIRADS

TOTAL BODY DOSE = 4.76E-02 MILLIREM
 KR 85 0.32%
 KR 88 10.09%
 Xe133 10.32%
 Xe135 19.29%
 AR 41 59.29%

TOTAL SKIN DOSE = 1.11E-01 MILLIREM
 KR 85 16.80%
 KR 88 15.97%
 Xe133 12.49%
 Xe135 21.63%
 AR 41 40.07%

MCQUIRE UNIT 2 GAS DOSE 092-182 92 RELEASE WEIGHTED NET REPORT SUMMARY
SPECIAL LOCATION
AT 0.50 MILES SSE

02/24/93

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID
CRITICAL AGE - CHILD
CRITICAL PATHWAY - VEGET @ 74.99%

MAXIMUM ORGAN DOSE = $1.60\text{E}-02$ MILLIREM
N 3 94.90%

MCGUIRE UNIT 2 GAS DOSE 183-274 92 RELEASE WEIGHTED NET REPORT SUMMARY
SPECIAL LOCATION
AT 0.50 MILES NNE

02/24/93

NOBLE GAS EXPOSURE:

BETA AIR DOSE = 3.24E-01 MILLIRADS
GAMMA AIR DOSE = 2.66E-01 MILLIRADS

TOTAL BODY DOSE = 1.73E-01 MILLIREM

KR 85	0.17%
KR 88	7.58%
XE133	17.88%
XE135	14.50%
AR 41	58.75%

TOTAL SKIN DOSE = 3.78E-01 MILLIREM

KR 85	9.66%
KR 88	4.78%
XE133	23.00%
XE135	17.45%
AR 41	42.97%

MCGUIRE UNIT 2 GAS DOSE 183-274 92 RELEASE WEIGHTED NET REPORT SUMMARY
SPECIAL LOCATION
AT 1.00 MILES ESE

02/24/93

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID
CRITICAL AGE - INFANT
CRITICAL PATHWAY - GOATMILK @ 97.61%

MAXIMUM ORGAN DOSE = $9.12\text{E-}02$ MILLIREM

H 3 5.67%

I 131 93.35%

MCGUIRE UNIT 2 GAS DOSE 275-366 92 RELEASE WEIGHTED NET REPORT SUMMARY
SPECIAL LOCATION
AT 0.50 MILES NNE

02/24/93

NOBLE GAS EXPOSURE:

BETA AIR DOSE = 1.15E-01 MILLIRADS
GAMMA AIR DOSE = 1.23E-01 MILLIRADS

TOTAL BODY DOSE = 7.98E-02 MILLIREM

KR 88	9.08%
XE133	15.09%
XE135	14.97%
AR 41	59.81%

TOTAL SKIN DOSE = 1.56E-01 MILLIRADS

KR 88	6.42%
XE133	21.87%
XE135	20.33%
AR 41	49.15%

MCQUIRE UNIT 2 GAS DOSE 275-366 92 RELEASE WEIGHTED NET REPORT SUMMARY 02/24/93
SPECIAL LOCATION
AT 0.50 MILES ESE

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID
CRITICAL AGE - CHILD
CRITICAL PATHWAY - VEGET @ 78.14%
MAXIMUM ORGAN DOSE = 1.37E-02 MILLIREM
H @ 97.13%

MCGUIRE UNIT 2 GAS DOSE 001-366 92 RELEASE WEIGHTED NET REPORT SUMMARY 02/24/93
SPECIAL LOCATION
AT 0.50 MILES NNE

NOBLE GAS EXPOSURE:

BETA AIR DOSE = 1.04E+00 MILLIRADS
GAMMA AIR DOSE = 6.47E-01 MILLIRADS

TOTAL BODY DOSE = 4.10E-01 MILLIREM

KR 85	0.12%
KR 88	7.01%
XE133	34.38%
XE135	13.16%
AR 41	43.89%

TOTAL SKIN DOSE = 9.56E-01 MILLIREM

KR 85	6.38%
KR 88	4.14%
XE133	41.58%
XE135	14.96%
AR 41	30.18%

MCQUIRE UNIT 2 GAS DOSE 001-366 92 RELEASE WEIGHTED NET REPORT SUMMARY 02/24/93
SPECIAL LOCATION
AT 1.00 MILES ESE

IODINE, PARTICULATE, AND TRITIUM EXPOSURE SUMMARY:

MAXIMUM ORGAN - THYROID
CRITICAL AGE - INFANT
CRITICAL PATHWAY - GOATMILK @ 97.53%
MAXIMUM ORGAN DOSE = 1.59E-01 MILLIREM
H 3 11.76%
I 131 87.77%

Attachment 1

Supplemental Information

MCQUIRE NUCLEAR STATION
EFFLUENT AND WASTE DISPOSAL SUPPLEMENTAL INFORMATION

REPORT DATE: 02/24/90

PERIOD COVERED: START DAY = 183 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 130, TRITIUM, PARTICULATES W/T 1/2 T 8 DAYS - ORG'N DOSE

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

II. MAXIMUM PERMISSIBLE EFFLUENT CONCENTRATIONS

- A. GASEOUS EFFLUENTS - INFORMATION FOUND IN OFFSITE DOSE CALCULATION MANUAL
- B. LIQUID EFFLUENTS - INFORMATION FOUND IN 10CFR20, APPENDIX B, TABLE 2, 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. $1.98E+02$ = TOTAL NUMBER OF BATCH RELEASES
2. $1.17E+05$ = TOTAL TIME(MIN.) FOR BATCH RELEASES
3. $9.77E+03$ = MAXIMUM TIME(MIN.) FOR A BATCH RELEASE
4. $5.93E+02$ = AVERAGE TIME(MIN.) FOR A BATCH RELEASE
5. $9.00E+00$ = MINIMUM TIME(MIN.) FOR A BATCH RELEASE
6. $2.00E+06$ = AVERAGE DILUTION WATER FLOW DURING RELEASES(GPM)

B. GASEOUS EFFLUENT

1. $1.28E+02$ = 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. $8.26E+03$ = AVERAGE TIME(MIN.) FOR A BATCH RELEASE
5. $3.45E+02$ = MINIMUM TIME(MIN.) FOR A BATCH RELEASE

VI. ABNORMAL RELEASES

A. LIQUID

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

B. GASEOUS

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

SUPPLEMENTAL REPORT PAGE 2

MCGUIRE NUCLEAR STATION

Values represented by "0.00E+00" within the body of the semi-annual report are below the minimum detectable limits of the McGuire counting systems. Typical MDA's for the McGuire counting systems are listed below:

<u>ISOTOPE</u>	<u>ENERGY (Kev)</u>	<u>AVERAGE MDA</u>
<u>Liquid</u>		
Xe-133	80	6.0E-08
Ce-144	133	1.2E-07
Kr-88	196	1.7E-07
Xe-135	249	2.3E-08
Kr-87	402	2.5E-07
Cs-137	661	2.6E-07
Mo-99	778	4.3E-07
Mn-54	834	2.2E-08
Zn-65	1115	4.0E-08
Co-60	1332	4.4E-08
<u>Gas</u>		
Xe-133	80	2.5E-08
Kr-85m	151	1.0E-08
Xe-131m	163	3.3E-07
Kr-88	196	4.7E-08
Xe-133m	233	7.9E-08
Xe-135	249	9.5E-09
Xe-138	258	6.3E-06
Kr-87	402	4.7E-08
Kr-85	514	2.5E-06
Xe-135m	526	1.9E-06
Ar-41	1293	3.6E-08

SUPPLEMENTAL REPORT PAGE 3

McGUIRE NUCLEAR STATION

The estimated percentage of error for both Liquid and Gaseous effluent release data at McGuire Nuclear Station has been determined to be $\pm 31\%$. This number was derived by summing the following individual estimates of errors:

- (1) Flow rate determining devices = $\pm 13\%$
- (2) Counting error = $\pm 15\%$
- (3) Sample preparation error = $\pm 3\%$

METEOROLOGICAL SURVEY

SUMMARY OF PASQUILL B				FOR PERIOD OF 01-01-92 THRU 12-31-92									
MCQUIRE METEOROLOGICAL SURVEY TOWER DATA				WIND OCCURRENCES BY SECTOR + SPEED CLASS (PERCENT)									
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ACQUIRE METEOROLOGICAL SURVEY TOWER DATA				FOR PERIOD OF 01-01-92 THRU 12-31-92									
SUMMARY OF PASQUILL C				WIND OCCURRENCES BY SECTOR + SPEED CLASS (PERCENT)									
				DATE OF REPORT									
				02-24-93									
WIND	SECTOR	1.0-3.2	3.3-5.5	5.6-7.8	7.9-10.0	10.1-12.3	12.4-14.5	14.6-16.7	16.8-19.0	19.1-21.2	>21.2 MPH		
	TOTAL	.45-1.49	1.5-2.49	2.5-3.49	3.5-4.49	4.5-5.49	5.5-6.49	6.5-7.49	7.5-8.49	8.5-9.49	>9.5 M/S		
360.0	000.92	00.03	00.33	00.32	00.11	00.07	00.02	00.02	00.02	00.00	00.00		
N-													
22.5	001.89	00.00	00.24	00.59	00.31	00.27	00.23	00.17	00.03	00.05	00.00		
NNE-													
45.0	001.17	00.00	00.17	00.36	00.40	00.16	00.07	00.00	00.01	00.00	00.00		
NNE-													
67.5	000.15	00.02	00.02	00.07	00.02	00.02	00.00	00.00	00.00	00.00	00.00		
ENE-													
90.0	000.16	00.01	00.10	00.05	00.00	00.00	00.00	00.00	00.00	00.00	00.00		
E-													
112.5	000.12	00.00	00.10	00.02	00.00	00.00	00.00	00.00	00.00	00.00	00.00		
ESE-													
135.0	000.17	00.01	00.10	00.05	00.01	00.00	00.00	00.00	00.00	00.00	00.00		
SE-													
157.5	000.09	00.03	00.02	00.02	00.02	00.00	00.00	00.00	00.00	00.00	00.00		
SSE-													
180.0	000.17	00.00	00.03	00.07	00.05	00.02	00.00	00.00	00.00	00.00	00.00		
S-													
202.5	000.52	00.00	00.07	00.19	00.17	00.08	00.01	00.00	00.00	00.00	00.00		
SSW-													
225.0	000.33	00.01	00.07	00.05	00.11	00.06	00.03	00.00	00.00	00.00	00.00		
SW-													
247.5	000.16	00.01	00.01	00.05	00.06	00.02	00.01	00.00	00.00	00.00	00.00		
WSW-													
270.0	000.14	00.00	00.01	00.05	00.03	00.03	00.00	00.01	00.00	00.01	00.00		
W-													
292.5	000.25	00.02	00.03	00.01	00.02	00.07	00.05	00.02	00.00	00.02	00.01		
WNW-													
315.0	000.27	00.01	00.06	00.01	00.06	00.03	00.05	00.01	00.03	00.00	00.01		
NNW-													
337.5	000.20	00.00	00.03	00.03	00.06	00.05	00.01	00.01	00.01	00.00	00.00		
NNN-													
360.0	00.00												
CALM													
TOTAL	006.71	000.15	001.39	001.94	001.43	000.88	000.48	000.24	000.10	000.08	000.02		

SUMMARY OF PASQUILL D									
MCGUIRE METEOROLOGICAL SURVEY TOWER DATA									
FOR PERIOD OF 01-01-92 THRU 12-31-92									
WIND OCCURRENCES BY SECTOR * SPEED CLASS (PERCENT)									
DATE OF REPORT 02-24-93									
MIND SPEED CLASS									
SECTOR	1.0-3.2	3.3-5.5	5.6-7.8	7.9-10.0	10.1-12.3	12.4-14.5	14.6-16.7	16.8-19.0	19.1-21.2
TOTAL	1.0-3.2	3.3-5.5	5.6-7.8	7.9-10.0	10.1-12.3	12.4-14.5	14.6-16.7	16.8-19.0	19.1-21.2
SECTOR	1.0-3.2	3.3-5.5	5.6-7.8	7.9-10.0	10.1-12.3	12.4-14.5	14.6-16.7	16.8-19.0	19.1-21.2
360.0	00.22	01.01	00.58	00.42	00.49	00.19	00.07	00.03	00.00
-N-	00.01	00.01	00.01	00.01	00.01	00.01	00.01	00.01	00.01
-NNE-	00.17	01.26	01.40	01.25	00.76	00.49	00.22	00.10	00.01
-NE-	00.09	00.93	01.56	02.47	01.61	00.39	00.22	00.13	00.00
-ENE-	00.03	00.42	00.88	00.55	00.20	00.00	00.00	00.00	00.00
-E-	00.08	00.43	00.26	00.02	00.00	00.00	00.00	00.00	00.00
-ESE-	00.06	00.63	00.19	00.00	00.00	00.00	00.00	00.00	00.00
-SE-	00.20	00.56	00.33	00.09	00.00	00.00	00.00	00.00	00.00
-SSE-	00.14	00.25	00.25	00.07	00.01	00.00	00.01	00.00	00.00
-S-	00.14	00.84	00.79	00.46	00.22	00.06	00.07	00.01	00.00
-SSW-	00.16	01.21	01.58	00.66	00.30	00.06	00.03	00.00	00.00
-SW-	00.23	00.84	01.06	00.54	00.36	00.13	00.03	00.02	00.00
-WSW-	00.10	00.46	00.42	00.07	00.08	00.03	00.01	00.00	00.00
-W-	00.14	00.25	00.31	00.14	00.05	00.02	00.03	00.02	00.00
-WNW-	00.08	00.27	00.24	00.15	00.11	00.14	00.02	00.10	00.00
-NNW-	00.10	00.23	00.23	00.25	00.14	00.07	00.11	00.06	00.00
-NN-	00.11	00.33	00.23	00.41	00.31	00.14	00.07	00.01	00.00
-NNE-	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
TOTAL	002.05	009.92	010.31	007.54	004.64	001.72	000.89	000.48	000.01

SUMMARY OF PASQUILL E			FOR PERIOD OF 01-01-92 THRU 12-31-92									
MCQUIRE METEOROLOGICAL SURVEY TOWER DATA			WIND OCCURRENCES BY SECTOR + SPEED CLASS (PERCENT)									
			DATE OF REPORT									
			02-24-93									
WIND SECTOR	SECTOR TOTAL	WIND SPEED CLASS	1.0-3.2	3.3-5.5	5.6-7.8	7.9-10.0	10.1-12.3	12.4-14.5	14.6-16.7	16.8-19.0	19.1-21.2	>21.2 MPH
			0.45-1.49	1.5-2.49	2.5-3.49	3.5-4.49	4.5-5.49	5.5-6.49	6.5-7.49	7.5-8.49	8.5-9.49	>9.5 M/S
360.0	00.28	00.46	00.22	00.08	00.10	00.02	00.00	00.00	00.00	00.00	00.00	00.00
-N-	00.16	00.16	00.14	00.51	00.34	00.09	00.02	00.05	00.01	00.00	00.00	00.00
-NNE-	00.16	00.16	00.14	00.51	00.34	00.09	00.02	00.05	00.01	00.00	00.00	00.00
45.0	00.20	00.31	00.74	00.28	00.09	00.00	00.00	00.00	00.00	00.01	00.00	00.00
-NE-	00.20	00.31	00.74	00.28	00.09	00.00	00.00	00.00	00.00	00.01	00.00	00.00
67.5	00.02	00.40	00.66	00.40	00.07	00.00	00.00	00.00	00.00	00.00	00.00	00.00
-ENE-	00.02	00.40	00.66	00.40	00.07	00.00	00.00	00.00	00.00	00.00	00.00	00.00
90.0	00.16	00.80	00.56	00.05	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
-E-	00.16	00.80	00.56	00.05	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
112.5	00.30	00.74	00.09	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
-ESE-	00.30	00.74	00.09	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
135.0	00.33	00.49	00.08	00.01	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
-SE-	00.33	00.49	00.08	00.01	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
157.5	00.52	00.38	00.08	00.14	00.02	00.01	00.02	00.00	00.00	00.00	00.00	00.00
-SSE-	00.52	00.38	00.08	00.14	00.02	00.01	00.02	00.00	00.00	00.00	00.00	00.00
180.0	00.43	01.08	00.57	00.16	00.14	00.09	00.05	00.00	00.00	00.01	00.00	00.00
-S-	00.43	01.08	00.57	00.16	00.14	00.09	00.05	00.00	00.00	00.01	00.00	00.00
202.5	00.60	01.79	01.14	00.52	00.20	00.10	00.06	00.00	00.00	00.01	00.00	00.00
-SSW-	00.60	01.79	01.14	00.52	00.20	00.10	00.06	00.00	00.00	00.01	00.00	00.00
225.0	00.71	00.83	00.40	00.31	00.15	00.07	00.05	00.01	00.00	00.00	00.00	00.00
-SW-	00.71	00.83	00.40	00.31	00.15	00.07	00.05	00.01	00.00	00.00	00.00	00.00
247.5	00.61	00.39	00.27	00.08	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
-WSW-	00.61	00.39	00.27	00.08	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
270.0	00.35	00.18	00.23	00.09	00.02	00.00	00.00	00.00	00.00	00.00	00.00	00.00
-W-	00.35	00.18	00.23	00.09	00.02	00.00	00.00	00.00	00.00	00.00	00.00	00.00
292.5	00.28	00.30	00.26	00.16	00.07	00.03	00.01	00.00	00.00	00.00	00.00	00.00
-WNW-	00.28	00.30	00.26	00.16	00.07	00.03	00.01	00.00	00.00	00.00	00.00	00.00
315.0	00.30	00.28	00.34	00.19	00.06	00.07	00.01	00.00	00.00	00.00	00.00	00.00
-NNW-	00.30	00.28	00.34	00.19	00.06	00.07	00.01	00.00	00.00	00.00	00.00	00.00
337.5	00.32	00.25	00.48	00.33	00.05	00.03	00.02	00.01	00.00	00.00	00.00	00.00
-NN-	00.32	00.25	00.48	00.33	00.05	00.03	00.02	00.01	00.00	00.00	00.00	00.00
CALM	00.02											
TOTAL	005.55	009.19	006.46	002.89	007.99	000.47	000.23	000.03	000.02	000.00	000.00	000.00

SUMMARY OF PASQUILL F				MCQUIRE METEOROLOGICAL SURVEY TOWER DATA				FOR PERIOD OF 01-01-92 THRU 12-31-92			
				WIND OCCURRENCES BY SECTOR + SPEED CLASS (PERCENT)				DATE OF REPORT			
				WIND SPEED CLASS				02-24-93			
WIND SECTOR	1.0-3.2	3.3-5.5	5.6-7.8	7.9-10.0	10.1-12.3	12.4-14.5	14.6-16.7	16.8-19.0	19.1-21.2	>21.2 MPH	
	.45-1.49	1.5-2.49	2.5-3.49	3.5-4.49	4.5-5.49	5.5-6.49	6.5-7.49	7.5-8.49	8.5-9.49	>9.5 M/S	
SECTOR TOTAL	00.14	00.20	00.05	00.01	00.01	00.00	00.00	00.00	00.00	00.00	
000.41	00.11	00.08	00.06	00.01	00.00	00.00	00.00	00.00	00.00	00.00	
000.26	00.06	00.15	00.05	00.00	00.00	00.00	00.00	00.00	00.00	00.00	
000.11	00.08	00.03	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	
000.21	00.10	00.10	00.01	00.00	00.00	00.00	00.00	00.00	00.00	00.00	
000.22	00.19	00.03	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	
000.31	00.24	00.07	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	
000.36	00.33	00.02	00.01	00.00	00.00	00.00	00.00	00.00	00.00	00.00	
001.15	00.40	00.58	00.17	00.00	00.00	00.00	00.00	00.00	00.00	00.00	
001.93	00.46	01.05	00.39	00.03	00.00	00.00	00.00	00.00	00.00	00.00	
000.93	00.52	00.38	00.02	00.00	00.00	00.01	00.00	00.00	00.00	00.00	
000.60	00.41	00.17	00.01	00.00	00.00	00.01	00.00	00.00	00.00	00.00	
000.51	00.31	00.19	00.00	00.01	00.00	00.00	00.00	00.00	00.00	00.00	
000.50	00.27	00.19	00.03	00.01	00.00	00.00	00.00	00.00	00.00	00.00	
000.52	00.26	00.15	00.09	00.02	00.00	00.00	00.00	00.00	00.00	00.00	
000.52	00.25	00.17	00.09	00.01	00.00	00.00	00.00	00.00	00.00	00.00	
CALM											
TOTAL	004.13	003.56	000.98	000.10	000.01	000.02	000.00	000.00	000.00	000.00	

MCQUIRE METEOROLOGICAL SURVEY TOWER DATA SUMMARY OF PASQUILL G									
FOR PERIOD OF 01-01-92 THRU 12-31-92									
WIND OCCURRENCES BY SECTOR + SPEED CLASS (PERCENT)									
DATE OF REPORT 02-24-93									
WIND SPEED CLASS									
SECTOR	1.0-3.2	3.3-5.5	5.6-7.8	7.9-10.0	10.1-12.3	12.4-14.5	14.6-16.7	16.8-19.0	19.1-21.2
TOTAL	0.5-1.49	1.5-2.49	2.5-3.49	3.5-4.49	4.5-5.49	5.5-6.49	6.5-7.49	7.5-8.49	8.5-9.49
360.0	00.60	00.09	00.01	00.00	00.00	00.00	00.00	00.00	00.00
-N-	00.39	00.08	00.02	00.02	00.00	00.00	00.00	00.00	00.00
-NNE-	00.32	00.08	00.06	00.00	00.00	00.00	00.00	00.00	00.00
-NE-	00.30	00.08	00.01	00.00	00.00	00.00	00.00	00.00	00.00
-ENE-	00.33	00.01	00.00	00.00	00.00	00.00	00.00	00.00	00.00
-E-	00.36	00.00	00.01	00.00	00.00	00.00	00.00	00.00	00.00
-ESE-	00.55	00.01	00.00	00.00	00.00	00.00	00.00	00.00	00.00
-SE-	00.76	00.01	00.00	00.00	00.00	00.00	00.00	00.00	00.00
-SSE-	01.49	00.25	00.01	00.00	00.00	00.00	00.00	00.00	00.00
-S-	01.67	00.39	00.01	00.00	00.00	00.00	00.00	00.00	00.00
-SSW-	01.25	00.33	00.00	00.00	00.00	00.00	00.00	00.00	00.00
-SW-	00.84	00.05	00.00	00.00	00.00	00.00	00.00	00.00	00.00
-WSW-	00.63	00.07	00.00	00.00	00.00	00.00	00.00	00.00	00.00
-W-	00.61	00.06	00.01	00.00	00.00	00.00	00.00	00.00	00.00
-WNW-	00.46	00.13	00.01	00.00	00.00	00.00	00.00	00.00	00.00
-NW-	00.71	00.06	00.00	00.00	00.00	00.00	00.00	00.00	00.00
-NNW-	00.31	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
CALM	011.27	001.70	000.09	000.02	000.00	000.00	000.00	000.00	000.00
TOTAL	013.08	001.70	000.09	000.02	000.00	000.00	000.00	000.00	000.00

Attachment 2

Solid Waste Disposal Report

February 25, 1993

MEMORANDUM TO: Robert Sharpe

Subject: McGuire Nuclear Station
Semiannual Solid Radwaste
Disposal Report - 1992, No. 2

Please find attached the Semiannual Solid Radwaste Disposal Report for the period of July 1, 1992 through December 31, 1992. The format of the report includes information as required by McGuire Nuclear Station Selected Licensee Commitment Manual Section 16.11.



J. W. Foster
Radiation Protection Manager
McGuire Nuclear Station

JCC/ah

attachments

cc: W.F. Byrum
D.C. Britton
J.C. Correll
R.P. Michael
C.D. Martinec
L.E. Loucks
C.O. Ingram
G.T. Johnson

McGUIRE NUCLEAR STATION
SOLID RADIOACTIVE WASTE SHIPPED TO A DISPOSAL FACILITY
REPORT PERIOD 07/01/92 THROUGH 12/31/92

TYPES OF WASTE SHIPPED	Number of Shipments	Number of Containers	Container Type	Burial Volume		Waste Class	Total CI
				(ft ³)	(m ³)		
WASTE FROM LIQUID SYSTEMS							
(A) Dewatered 2% Powdex Resin (brokered)	1*	1*	N/A	0	0	N/A	0
(B) Dewatered 2% Powdex Resin	0	0	N/A	0	0	N/A	0
(C) Dewatered 2% Bead Resin (brokered)	0	0	N/A	0	0	N/A	0
(D) Dewatered 2% Bead Resin	0	0	N/A	0	0	N/A	0
(E) Dewatered Radwaste System Resin	0	0	N/A	0	0	N/A	0
(F) Dewatered Primary Bead Resin	3	3	HIC	83.4 166.8	2.36 4.72	(1) B (2) C	2.13E2 6.97E2
(G) Dewatered Mechanical Filter Media	2	6	HIC	61.2	1.73	B	6.82E1
(H) Solidified (Cement) Oils/Mercuric Waste, Acids, Sludges,	3	3	HIC	291.1 170.8	8.24 4.84	(2) A/S (1) B	1.36E1 3.78E1
DRY SOLID WASTE							
(A) Dry Active Waste (compacted)	0	0	N/A	0	0	N/A	0
Dry Active Waste (non-compacted)	2	6	HIC	20.4 10.2 30.6	5.78E-1 2.89E-1 8.67E-1	(2) A/U (1) A/S (3) C	8.1E-1 1.02 8.86
Dry Active Waste (brokered)	3	5	STC	397.5	11.26	A/U	2.58
Dry Active Waste (brokered/non-compactible)	0	0	N/A	0	0	N/A	0
(B) Sealed Sources/ Smoke Detectors	0	0	N/A	0	0	N/A	0
(C) Sealed Sources	0	0	N/A	N/A	0	N/A	0
(D) Irradiated Components	0	0	N/A	N/A	0	N/A	0
TOTALS	14	24	N/A	1232	34.88	N/A	1.04E3

* McGuire shipments for processing

SUMMARY OF MAJOR RADIONUCLIDE COMPOSITION

Type of Wastes

	<u>Radionuclide</u>	<u>% Abundance</u>
1. <u>Wastes from Liquid Systems</u>		
(A) Dewatered Secondary Powdex Resin (Brokered)	(None shipped to disposal facility this report period.)	
(B) Dewatered Secondary Powdex Resin	(None shipped to disposal facility this report period.)	
(C) Dewatered Secondary Bead Resin (Brokered)	(None shipped to disposal facility this report period.)	
(D) Dewatered Secondary Bead Resin	(None shipped to disposal facility this report period.)	
(E) Dewatered Radwaste System Resin	(None shipped to disposal facility this report period.)	
(F) Dewatered Primary Bead Resin	Co-60	14.57
	Co-58	3.90
	Co-57	.10
	Mn-54	2.27
	Cs-134	4.53
	Cs-137	7.90
	Sb-125	.83
	Fe-55	20.23
	Ni-63	45.67
(G) Dewatered Mechanical Filter Media	Mn-54	2.37
	Co-57	.10
	Co-58	.93
	Co-60	17.80
	Nb-95	.15
	Fe-55	64.45
	Ni-63	14.12
	C-14	.21
	Sb-125	.60
(H) Solidified Sludges	Cs-134	.27
	Pu-241	.56
	Ni-63	17.47
	Sr-90	1.08
	Fe-55	59.50
	Co-60	18.30
	Co-58	.30
	Cs-137	1.33
	H-3	.12
	Mn-54	.66
	Sb-125	.40

SUMMARY OF MAJOR RADIONUCLIDE COMPOSITION

Type of Wastes

2. Dry Solid Waste

(A) Dry Active Waste	Sr-90	.18
	Mn-54	.72
	Co-58	2.42
	Co-60	18.36
	Cs-137	.22
	Fe-55	59.66
	Ni-63	17.51
	Pu-241	.57
	Sb-125	.25
	Ce-144	.10
	TRU	.01

(B) Sealed Sources/Smoke Detectors

(None shipped to disposal facility this report period.)

(C) Sealed Sources

(None shipped to disposal facility this report period.)

(D) Irradiated Components

(None shipped to disposal facility this report period.)

February 25, 1993

MEMORANDUM TO: Robert Sharpe

Subject: McGuire Nuclear Station
Annual Solid Radwaste
Disposal Report - 1992

Please find attached the Solid Radwaste Disposal Report for the period of January 1, 1992 through December 31, 1992. The format of the report includes information as required by McGuire Nuclear Station Selected Licensee Commitment Manual Section 16.11.



J. W. Foster
Radiation Protection Manager
McGuire Nuclear Station

JCC/ah

attachments

cc: W.F. Byrum
D.C. Britton
J.C. Correll
R.P. Michael
C.D. Martinec
L.E. Loucks
C.O. Ingram
G.T. Johnson

McGUIRE NUCLEAR STAION
SOLID RADIOACTIVE WASTE SHIPPED TO A DISPOSAL FACILITY
REPORT PERIOD 01/01/92 THROUGH 12/31/92

Attachment 1

TYPES OF WASTE SHIPPED	Number of Shipments	Number of Containers	Container Type	Burial Volume		Waste Class	Total Ci
				(cu. ft.)	(cu. m)		
WASTE FROM LIQUID SYSTEMS							
(A) Dewatered 2% Powdex Resin (brokered)	1*	1*	STC	276.2	7.82	A/U	7.50E-03
(B) Dewatered Powdex Resin	2	5	STC	1037	29.37	A/U	3.88E-02
(C) Dewatered 2% Bead Resin (brokered)	0	0	STC	410.1	11.61	A/U	1.94E-02
(D) Dewatered 2% Bead Resin	1	1	STC	207.4	5.87	A/U	2.86E-03
(E) Dewatered Radwaste System Resin	1	1	HIC	194.1	5.50	B	7.97E+01
(F) Dewatered Primary Bead Resin	4	4	HIC	205.8	5.83	(1) A/S	2.61E+01
				83.4	2.36	(1) B	2.17E+02
				166.8	4.72	(2) C	6.97E+02
(G) Dewatered Mechanical Filter Media	7	45	STC	240	6.80	(32) A/U	1.85E+00
			HIC	61.2	1.73	(6) A/S	1.56E+01
			HIC	61.2	1.73	(6) B	6.82E+01
			HIC	10.2	0.29	(1) C	8.10E+00
(H) Solidified (Cement) Oils/Mercuric Waste Acids, Sludges	4	6	STC	26.6	0.75	(3) A/U	1.23E-04
			HIC	291.1	8.24	(2) A/S	1.36E+01
			HIC	170.8	4.84	(1) B	3.78E+01
DRY SOLID WASTE							
(A) Dry Active Waste (compacted)	0	0	N/A	N/A	0.00	0	0
Dry Active Waste (non-compacted)	3	8	HIC	20.4	0.58	(2) A/U	8.10E-01
				10.2	0.29	(1) A/S	1.02E+00
				51	1.44	(5) C	1.48E+01
Dry Active Waste (brokered)	13*	31*	STC	1497.8	42.42	A/U	1.63E+01
Dry Active Waste (brokered/non-compacted)	3*	39*	STC	758.37	21.48	A/U	1.20E+00
(B) Sealed Sources/ Smoke Detectors	1	1	HIC	10.2	0.29	A/S	8.28E-04
(C) Sealed Sources	1	1	HIC	10.2	0.29	C	3.83E-04
(D) Irradiated Components	0	0	N/A	0	0.00	N/A	0
TOTALS	41	146	N/A	5800.07	164.26	N/A	1.20E+03

*McGuire shipments for processing

Attachment 3

Unplanned Offsite Releases

ABNORMAL RELEASES

In June of 1992 samples of the Nuclear Service Water System (RN) side of the Containment Spray (NS) heat exchanger (HX) indicated that NS to RN leakage was occurring in the 2B NS HX. There is no RN flow through the NS HXs unless there is an accident condition. Steps have been taken to reduce corrosion on the RN side of the HXs during routine plant operations. The RN side of the NS HXs are placed in wet lay up and corrosion inhibitor chemicals are introduced. As a result of the accelerated corrosion from the RN system, the 2B NS HX has developed leaks in some of the HX tubes. The water from the tube side of the NS HX is provided from the Refueling Water Storage Tank (FWST). As the pressure from the FWST is higher than the shell side RN pressure, the tube leaks result in small amounts of radioactivity being introduced to the RN side of the HX. The RN outlet valve for 2B NS HX leaks by at a nominal rate of approximately 4.4 gallons per hour. This leak-by subsequently allows slight amounts of radioactivity to be introduced to the total RN system. In August of 1992 Eddy Current testing was performed on the 2B NS HX and all identified leaking tubes were plugged. In September of 1992 it was discovered that there was some new leakage of radioactivity into the RN side of the HX. Due to the accelerated corrosion associated with the 2B NS HX it has been scheduled to be replaced in the upcoming Unit 2 Refueling Outage in July of 1993. None of the other three NS HXs have shown any leakage into the RN side of the HXs.

The leak rate was calculated to be approximately 4.36 gph during the period in question (June - December). Effluent discharge was via the discharge canal with full available condenser cooling water pump dilution. Periodic sample data and corresponding liquid volumes were used to estimate the following maximum activity released and dose commitment to the public from the releases:

Isotopic Curies Released (Maximum)

H-3	6.41E-02
Cs-134	1.30E-05
Cs-137	2.67E-05
Co-58	2.11E-06
Co-60	5.46E-06
Xe-133	6.76E-05
Xe-135	5.52E-06

Estimated Dose to the Public (mRem) (Maximum)

Total Body (Adult, Fish Pathway)	1.83E-04
Maximum Organ (Liver, Teen, Fish Pathway)	2.59E-04

MCGUIRE NUCLEAR STATION
 RADIOACTIVE EFFLUENT RELEASES
 02/15/93

PERIOD COVERED: START DAY = 001
 STOP DAY = 366

TYPE COVERED: MNSCEM

1 LIQUID RELEASES

	UNITS	PERIOD COVERED	YEAR TO STOP
1. GROSS RADIOACTIVITY			
A. TOTAL RELEASE	CURIES	7.37E-03	7.37E-03
2. TRITIUM			
A. TOTAL RELEASE	CURIES	3.04E+00	3.04E+00
3. DISSOLVED NOBLE GASES			
A. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00
4. ALPHA ACTIVITY			
A. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00

DO YOU WANT THE ISOTOPE LIST(Y/N)

X

5 RADIONUCLIDES

CO-58	1.81E-03	1.81E-03
CO-60	1.68E-03	1.68E-03
CS-134	1.76E-07	1.76E-07
CS-137	4.07E-03	4.07E-03

TOTAL VOLUME DISCHARGED (GALS.)	1.29E+08	1.29E+08
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SUMMARY COMPLETE
 THANK YOU

SKIN	MAXIMUM DOSE-	4.50D-05 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	SHORE
	CO 60	46.10 %				
	CS 137	53.12 %				
BONE	MAXIMUM DOSE-	5.41D-03 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	FISH
	CS 137	99.93 %				
	MAXIMUM DOSE-	5.68D-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 137	98.79 %				
T. BODY	MAXIMUM DOSE-	3.60D-03 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	CS 137	97.87 %				
THYROID	MAXIMUM DOSE-	9.84D-05 MREM	CRITICAL AGE-	CHILD	CRITICAL PATHWAY-	DRINKING
	H 3	91.84 %				
KIDNEY	MAXIMUM DOSE-	1.99D-03 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	CS 137	96.68 %				
LUNG	MAXIMUM DOSE-	8.26D-04 MREM	CRITICAL AGE-	TEEN	CRITICAL PATHWAY-	FISH
	H 3	5.80 %				
	CS 137	92.02 %				
GI-LLI	MAXIMUM DOSE-	2.25D-04 MREM	CRITICAL AGE-	ADULT	CRITICAL PATHWAY-	FISH
	H 3	30.13 %				
	CO 58	5.44 %				
	CO 60	16.55 %				
	CS 137	47.88 %				

Attachment 4

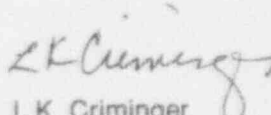
Inoperable Monitoring Equipment

January 11, 1993

MEMORANDUM TO FILE

Subject: McGuire Nuclear Station
Inoperable Instruments Exceeding
Selected Licensee Commitments (SLC) Limits

During the time frame from July 1, 1992, to December 31, 1992, there were no SLC related effluent monitoring instruments out of service greater than the SLC limits for inoperability.


L.K. Criminger
R.P. Shift Relief Supervisor
McGuire Nuclear Station

LKC/ah

cc: J.W. Foster
J.S. Mooneyhan
Semi-Annual Report

Attachment 5

Fuel Cycle Calculations

MAXIMUM TOTAL BODY	MNE 0.50 MILES	9.30E-01	AGE : ADULT
MNS.GAS		8.20E-01	88.1 %
	KR 88		7.0 %
	XE133		34.3 %
	XE135		13.1 %
	AR 41		43.8 %
MNS.LIQUID		7.26E-02	7.8 %
CRITICAL PATH	DRINKING		63.5 %
	H 3		63.8 %
	CS 134		12.6 %
	CS 137		20.6 %
CNS.GAS		3.73E-02	4.0 %
	AR 41		95.8 %

MAXIMUM ORGAN	ESE 1.00 MILES	4.05E-01	AGE : INFANT	ORGAN : THYROID
MNS.GAS		3.18E-01	78.4 %	
CRITICAL PATH	GOAT MILK		97.5 %	
	H 3		11.7 %	
	I 131		87.7 %	
MNS.LIQUID		7.10E-02	17.5 %	
CRITICAL PATH	DRINKING		99.9 %	
	H 3		84.3 %	
	I 131		15.5 %	
CNS.GAS		1.63E-02	4.0 %	
CRITICAL PATH	GOAT MILK		91.3 %	
	H 3		65.3 %	
	I 131		34.0 %	

1992 MCGUIRE FUEL CYCLE SUMMARY DAYS 001-366 02/24/93 AT 18:10

MAXIMUM TOTAL BODY NNE 0.50 MILES 9.30E-01 AGE : ADULT

MAXIMUM ORGAN ESE 1.00 MILES 4.05E-01 AGE : INFANT ORGAN : THYROID