1982

MCGUIRE NUCLEAR STATION
RADIOACTIVE EFFLUENT RELEASES
SOLID WASTES
2ND SEMI-ANNUAL REPORT

Total volume of solid waste packaged (cubic meters) 73.8 for 2nd six months of 1982.
Total estimated activity involved (curies) 6.20 for 2nd six months of 1982.
Disposal of materials shipped off-site: All 7 shipments were made to Chem-Nuclear Systems waste disposal facility at Barnwell, South Carolina.

Types of Wastes	Number of Shipments	Volume (Cubic Meters)	Total Activity CI
1. Wastes from Liquid Systems			
(A) Powdex Resins	0	0	0
(B) Spent Resins & Bead Resins	2	7.9	2.80
(C) Evaporator Concentrates	0	0	0
2. Dry Solid Wastes			
(A) Spent Filters	0	0	0
(B) Dry Compressible Wastes	3	55.0	1.13
(C) Contaminated Equipment	2	10.9	2.27
(D) Irradiated Components	0	0	0

SUMMARY OF MAJOR RADIONUCLIDE COMPOSITION

Type of Waste	Radionuclide	% Abundance
1. Wastes from Liquid Systems		
(A) Powdex Resins	MN-54	0.0%
	CO-57	0.0%
	CO-58	0.0%
	CO-60	0.0%
	SR-92	0.0%
	NB-97	0.0%
	AG-110M	0.0%
	CS-134	0.0%
	CS-137	0.0%
(B) Spent Resins & Bead Resins	MN-54	0.0%
	CO-57	0.0%
	CO-58	93.3%
	CO-60	6.3%
	SR-92	0.0%
	NB-97	0.0%
	AG-110M	0.0%
	CS-134	0.0%
	CS-137	0.0%
	I-131	0.0%
	TC-99M	0.0%
	CR-51	0.0%

IE25

Type of Waste	Radionuclide	% Abundance
(C) Evaporator Concentrates	MN-54	0.0%
	CO-58	0.0%
	CO-60	0.0%
	TC-99M	0.0%
	I-131	0.0%
	I-133	0.0%
	I-134	0.0%
	CS-134	0.0%
	CS-137	0.0%
	LA-140	0.0%
2. Dry Solid Waste		
(A) Spent Filters	AG-110M	0.0%
	CS-134	0.0%
	CS-137	0.0%
	CO-60	0.0%
	CO-58	0.0%
	MN-54	0.0%
(B) Dry Compressible Waste	AG-110M	6.45%
	CS-134	1.69%
	CS-137	46.25%
	CO-60	3.25%
	MN-54	1.37%
	CO-58	34.80%
	NB-97	6.19%
(C) Contaminated Equipment	AG-110M	6.45%
	CS-134	1.69%
	CS-137	46.25%
	CO-60	3.25%
	MN-54	1.37%
	CO-58	34.80%
	NB-97	6.19%
(D) Irradiated Components	AG-110M	0.0%
	CS-134	0.0%
	CS-137	0.0%
	CO-60	0.0%
	MN-54	0.0%
	CO-57	0.0%
	CO-58	0.0%
	NB-97	0.0%

MCGUIRE NUCLEAR STATION
RADIOACTIVE EFFLUENT RELEASES
DATE : 02/21/83

TEAR : 1982

I. LIQUID RELEASES	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL
1. GROSS RADIOACTIVITY						
A. TOTAL RELEASE	CURIES	2.12E-01	2.32E-01	4.10E-01	9.00E-01	1.75E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	8.66E-10	7.54E-10	1.18E-09	2.71E-09	1.42E-09
C. MAXIMUM CONCENTRATION RELEASED	UCI/ML	2.23E-09	2.29E-09	3.89E-09	7.27E-09	4.11E-09
2. TRITTIUM						
A. TOTAL RELEASE	CURIES	8.37E+00	3.40E+01	4.68E+01	7.09E+01	1.60E+02
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	3.41E-08	1.11E-07	1.35E-07	2.13E-07	1.30E-07
3. DISSOLVED NOBLE GASES						
A. TOTAL RELEASE	CURIES	2.78E-04	7.70E-04	2.06E-03	4.72E-03	7.82E-03
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	1.13E-12	2.51E-12	5.93E-12	1.42E-11	6.35E-12
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	1.48E+06	2.64E+06	2.79E+06	2.60E+06	9.50E+06
6. VOLUME OF DILUTION WATER	LITERS	2.45E+11	3.07E+11	3.47E+11	3.32E+11	1.23E+12
7. RADIONUCLIDES RELEASED	CURIES					
F-18		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NA-24		2.54E-04	2.65E-03	1.46E-03	1.40E-04	4.51E-03
AR-41		1.64E-04	1.21E-04	1.39E-04	6.81E-05	4.92E-04
CR-51		4.11E-02	3.13E-03	7.61E-02	2.30E-02	1.43E-01
MN-54		2.48E-03	2.04E-03	2.28E-03	3.73E-03	1.05E-02
MN-56		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CO-57		2.19E-05	2.56E-05	5.29E-05	2.44E-04	3.44E-04
CO-58		1.04E-01	1.14E-01	2.24E-01	6.49E-01	1.09E+00
CO-60		1.82E-02	9.56E-03	2.35E-02	6.40E-02	1.15E-01
FE-59		3.29E-03	8.79E-04	2.27E-03	5.09E-03	1.15E-02
NI-65		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZN-65		0.00E+00	0.00E+00	5.54E-05	1.53E-04	2.08E-04
KR-85		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KR-85M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KR-87		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KR-88		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-88		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Y-92		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SR-89		0.00E+00	1.52E-04	0.00E+00	0.00E+00	1.52E-04
SR-90		0.00E+00	4.91E-06	0.00E+00	0.00E+00	4.91E-06
SR-91		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SR-92		6.61E-04	4.64E-05	1.04E-03	5.85E-04	2.34E-03
NB-95		1.40E-03	3.90E-04	1.73E-03	1.84E-03	5.36E-03
NB-97		0.00E+00	0.00E+00	5.74E-05	0.00E+00	5.74E-05
ZR-95		9.76E-04	1.96E-04	7.19E-04	4.74E-04	2.37E-03
ZR-97		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MO-99		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TC-99M		0.00E+00	9.47E-05	3.77E-06	0.00E+00	9.85E-05
RU-103		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU-103M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU-106		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AG-108M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AG-110M		1.00E-03	2.71E-05	1.83E-03	1.11E-03	3.97E-03
CD-109		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CD-115		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CD-115M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
IN-115M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SB-122		0.00E+00	1.62E-03	1.04E-03	6.78E-05	2.75E-03
SB-124		6.81E-03	3.43E-03	1.03E-02	1.27E-02	3.33E-02
SB-125		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SN-123M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SN-125		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131		0.00E+00	2.50E-04	6.76E-05	6.84E-05	3.86E-04
I-132		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133		0.00E+00	8.68E-04	6.61E-05	1.99E-05	9.54E-04
I-134		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135		2.55E-03	0.00E+00	0.00E+00	0.00E+00	2.55E-03
XE-131M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
XE-133		4.70E-05	2.89E-04	1.13E-03	4.29E-03	5.77E-03
XE-133M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
XE-135		4.74E-05	3.60E-04	7.92E-04	3.60E-04	1.56E-03
CE-134		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CE-141		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CE-144		0.00E+00	3.11E-04	0.00E+00	0.00E+00	3.11E-04
CS-134		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS-135M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS-136		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS-137		0.00E+00	0.00E+00	0.00E+00	4.53E-04	4.53E-04
CS-138		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BA-139		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BA-LA-140		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W-187		0.00E+00	3.77E-04	0.00E+00	0.00E+00	3.77E-04
NP-239		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32		1.23E-02	6.37E-02	1.06E-02	9.85E-03	9.65E-02
FE-55		1.69E-02	2.80E-02	5.32E-02	1.27E-01	2.25E-01

MCGUIRE NUCLEAR STATION
RADIOACTIVE EFFLUENT RELEASES
DATE : 02/21/83

II. AIRBORNE RELEASES — YEAR : 1982

	UNITS	1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL
1. TOTAL NOBLE GASES	CURIES	4.06E+02	3.93E+02	3.01E+02	5.49E+02	1.65E+03
2. TOTAL HALOGENS	CURIES	0.00E+00	3.52E-04	1.16E-09	3.17E-09	3.52E-04
3. TOTAL PARTICULATE GROSS BETA-GAMMA	CURIES	5.86E-04	1.03E-08	0.00E+00	1.34E-05	5.99E-04
4. TOTAL TRITIUM	CURIES	6.30E-02	1.02E-03	3.07E-01	3.48E+00	3.85E+00
5. TOTAL PARTICULATE GROSS ALPHA ACTIVITY	CURIES	9.06E-10	0.00E+00	0.00E+00	0.00E+00	9.06E-10
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						
C-14		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-32		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CR-51		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MN-54		1.77E-06	0.00E+00	0.00E+00	1.75E-11	1.77E-06
FE-55		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FE-59		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CO-58		5.84E-04	0.00E+00	0.00E+00	4.68E-11	5.84E-04
CO-60		0.00E+00	0.00E+00	0.00E+00	1.34E-05	1.34E-05
NI-63		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZN-65		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RB-86		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SR-89		0.00E+00	9.51E-09	0.00E+00	0.00E+00	9.51E-09
SR-90		6.08E-11	7.61E-10	0.00E+00	0.00E+00	8.21E-10
Y-91		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ZR-95		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NB-95		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MO-99		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU-103		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RU-106		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AG-110M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CD-115M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SN-123		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SN-126		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SB-124		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SB-125		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TE-127M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TE-129M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS-134		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS-136		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS-137		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BA-140		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CE-141		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CE-144		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HALOGENS						
I-131		0.00E+00	4.55E-05	0.00E+00	9.82E-10	4.55E-05
I-133		0.00E+00	3.06E-04	1.16E-09	2.19E-09	3.06E-04
GASES						
KR-83M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KR-85M		4.80E+00	6.01E-01	1.24E+00	1.42E+00	8.06E+00
KR-85		0.00E+00	1.05E+00	2.45E+00	6.64E-01	4.17E+00
KR-87		0.00E+00	0.00E+00	0.00E+00	5.91E-03	5.91E-03
KR-88		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KR-89		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KR-90		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
XE-131M		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
XE-133M		1.97E-04	3.57E-01	4.82E-02	6.92E+00	7.32E+00
XE-133		1.92E+02	1.80E+02	1.09E+02	4.96E+02	9.76E+02
XE-135M		2.32E-01	9.33E-02	0.00E+00	0.00E+00	3.25E-01
XE-135		7.90E+01	4.96E+01	2.83E+01	2.09E+01	1.78E+02
XE-137		0.00E+00	0.00E+00	0.00E+00	2.85E+00	2.85E+00
XE-138		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AR-41		1.31E+02	1.61E+02	1.59E+02	2.08E+01	4.72E+02

Do You Wish To Run Another Program for Mcguire 82?(Y/N):

CALCULATED DOSES TO THE GENERAL PUBLIC
FROM EFFLUENT RELEASES AT MCGUIRE NUCLEAR STATION FOR THE YEAR 1982

MREM

FLUID WASTES (with P-32 included and using a bioaccumulation factor for P-32 of 3.0E+03)

	WHOLE BODY	SKIN	GI-LLI	THYROID	BONE	LIVER	KIDNEY	LUNG
Calculated Max.	8.70E-02	4.54E-03	0.278	1.49E-02	1.69	0.101	1.58E-02	1.61E-02
Age Group	Child	Teen	Adult	Child	Child	Child	Child	Child
Critical Pathway	Fish	Shore	Fish	Drink	Fish	Fish	Drink	Drink
Major Contributors	P-32	Co-60	P-32	H-3, I-131, I-133	P-32	P-32	H-3, MN-54, Na-24	H-3

GASEOUS WASTE

	WHOLE BODY	SKIN	GI-LLI	THYROID		BONE	LIVER	KIDNEY	LUNG
				INFANT	ADULT				
Calculated Max.	1.02	1.79	1.02	1.03	1.02	1.01	1.02	1.02	1.03
Age Group	Child	Child	Child	Infant	Adult	All	Child	Child	Child
Critical Pathway	Plume	Plume	Plume	Plume, Goat	Plume	Plume	Plume	Plume	Plume
Major Contributors	Ar-41, H-3	Ar-41, H-3	Ar-41	Ar-41, I-131	Ar-41	Ar-41	Ar-41	Ar-41	Ar-41

LADTAP II (Liquid Annual Doses To All Persons) is a code developed by the Nuclear Regulatory Commission which calculates individual and population doses from liquid pathways. This computer code is based on the following standards:

Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purposes of Evaluating Compliance with 10 CFR Part 50, Appendix I	Reg. Guide 1.109, Rev. 1 October 1977
Estimating Aquatic Dispersion of Effluents from Accidental and Routine Reactor Releases for the Purpose of Implementing Appendix I	Reg. Guide 1.113, Rev. 1 April 1977

The LADTAP II computer program was placed in service September 28, 1981.

GASPAR is a code developed by the Nuclear Regulatory Commission for the evaluation of radiological impacts resulting from the release of radioactive material to the atmosphere during normal operation of light water reactors. In particular, the code implements the radiological impact models of Regulatory Guide 1.109, Rev. 1, for atmospheric releases. The code is presently used by the NRC in reactor licensing evaluations to estimate (1) the collective or population dose (person-rem) to the population within a 50-mile radius of a facility (referred to as ALARA dose); (2) the total collective dose to the U.S. population (the NEPA dose); and (3) the maximum individual doses at selected locations in the vicinity of the plant.

The GASPAR computer program was placed in service November 9, 1981.

Attachment 2

Key for Wind Frequency Table
Low Elevation Winds
McGuire 1982

SCLS = Stability Class

1 - Pasquill stability A
2 - Pasquill stability B-C
3 - Pasquill stability D
4 - Pasquill stability E
5 - Pasquill stability F
6 - Pasquill stability G

SEC = Wind Direction Sector

1 - N
2 - NNE
3 - NE
4 - ENE
5 - E
6 - ESE
7 - SE
8 - SSE
9 - S
10 - SSW
11 - SW
12 - WSW
13 - W
14 - WNW
15 - NW
16 - NNW
17 - Calm

WSCLS = Wind Speed Class

0 - Calm
1 - 1.0-3.2 mph
2 - 3.3-5.5 mph
3 - 5.6-7.8 mph
4 - 7.9-10.0 mph
5 - 10.1-12.3 mph
6 - 12.4-14.5 mph
7 - 14.6-16.7 mph
8 - 16.8-19.0 mph
9 - 19.1-21.2 mph
10 - >21.2 mph

TABLE OF SEC BY WSCLS
CONTROLLING FOR SCLS= 1

SEC WSCLS

FREQUENCY	0	1	2	3	4	5	6	7	8	9	10	TOTAL
.	0	0	0	0	0	0	0	0	0	0	0	.
1	0	3	8	14	3	1	0	0	0	0	0	29
2	0	1	16	19	7	7	1	0	0	0	0	51
3	0	3	9	10	23	5	11	1	0	0	0	62
4	0	0	0	2	2	0	0	0	0	0	0	4
5	0	1	2	0	0	0	0	0	0	0	0	3
6	0	1	5	1	0	0	0	0	0	0	0	7
7	0	1	11	5	1	0	0	0	0	0	0	18
8	0	1	2	4	0	1	0	0	0	0	0	8
9	0	4	0	2	3	2	3	6	3	2	2	27
10	0	9	1	1	2	0	0	1	1	0	2	17
11	0	8	0	3	1	1	0	0	1	1	0	15
12	0	1	1	1	3	1	0	0	0	0	0	7
13	0	0	0	0	0	2	0	0	0	0	0	2
14	0	0	0	0	0	0	0	0	1	0	0	1
15	0	1	0	0	1	2	0	0	0	0	1	5
16	0	0	0	0	2	3	0	0	0	0	0	5
17	47	0	0	0	0	0	0	0	0	0	0	47
TOTAL	47	34	55	62	48	25	15	8	6	3	5	308

Attachment 3

TABLE OF SEC BY WSCLS
CONTROLLING FOR SCLS= 2

SEC WSCLS

FREQUENCY	0	1	2	3	4	5	6	7	8	9	10	TOTAL
.	0	0	0	0	0	0	0	0	0	0	0	.
1	0	2	41	39	9	3	2	1	0	1	0	98
2	0	2	42	55	21	14	8	3	3	0	3	151
3	0	2	30	40	35	25	9	2	0	0	0	143
4	0	0	10	12	15	7	1	0	0	0	0	45
5	0	0	5	2	1	0	1	0	0	0	0	9
6	0	1	13	2	0	0	0	0	0	0	0	16
7	0	2	17	4	0	0	0	0	0	0	0	23
8	0	7	6	6	3	1	0	0	0	0	0	23
9	0	0	3	18	8	0	0	1	0	0	0	30
10	0	0	2	9	10	0	3	0	3	1	0	28
11	0	1	1	6	1	0	0	2	0	1	0	12
12	0	1	2	1	1	0	0	0	0	0	0	5
13	0	1	1	1	0	0	0	0	0	0	0	3
14	0	0	1	0	0	0	0	0	0	0	1	2
15	0	0	2	1	3	1	0	1	1	1	0	10
16	0	2	3	4	2	2	2	1	2	0	0	18
17	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	.	21	179	200	109	53	26	11	9	4	4	616

TABLE OF SEC BY WSCLS
CONTROLLING FOR SCLS= 3

SEC / WSCLS / FREQUENCY	0	1	2	3	4	5	6	7	8	9	10	TOTAL
.	0	0	3	2	0	0	0	0	0	0	0	.
1	0	26	89	42	17	37	18	22	8	4	1	264
2	0	33	82	72	53	43	29	21	12	7	3	355
3	0	13	69	135	131	102	63	19	6	6	4	548
4	0	5	59	98	69	38	8	1	0	0	0	278
5	0	10	37	16	6	0	0	0	0	0	0	69
6	0	7	26	8	1	2	0	0	0	0	0	44
7	0	29	45	6	1	0	0	0	0	0	0	81
8	0	27	51	13	2	1	0	0	0	0	0	94
9	0	21	85	104	46	13	13	5	1	1	1	290
10	0	24	124	124	84	40	16	8	3	0	0	423
11	0	27	79	59	57	31	10	5	3	3	3	277
12	0	24	36	43	17	10	2	1	0	0	0	133
13	0	15	28	16	8	5	2	3	3	1	1	82
14	0	10	9	10	9	11	7	6	3	2	2	69
15	0	12	8	15	14	11	6	7	8	2	1	84
16	0	9	18	13	20	30	14	11	2	3	0	120
17	59	0	0	0	0	0	0	0	0	0	0	59
TOTAL	59	292	845	774	535	374	188	109	49	29	16	3270

TABLE OF SEC BY WSCLS
CONTROLLING FOR SCLS= 4

SEC / WSCLS	0	1	2	3	4	5	6	7	8	9	10	TOTAL
.	0	3	3	0	0	0	0	0	0	0	0	.
1	0	26	37	29	26	17	7	2	0	0	0	144
2	0	25	61	37	17	7	0	1	0	0	0	148
3	0	24	68	65	63	43	20	6	1	1	1	292
4	0	17	84	83	44	12	1	0	0	0	0	241
5	0	12	35	11	1	0	0	0	0	0	0	59
6	0	15	30	10	0	0	0	0	0	0	0	55
7	0	43	21	3	1	0	0	0	0	0	0	68
8	0	51	27	8	2	1	0	0	0	0	0	89
9	0	97	140	76	38	10	5	2	1	1	0	370
10	0	137	215	138	70	20	10	4	1	1	0	596
11	0	88	85	45	19	9	5	2	2	0	0	255
12	0	61	27	31	8	2	0	0	0	0	0	129
13	0	43	23	24	4	6	3	0	2	0	0	105
14	0	26	21	14	14	6	5	3	1	0	0	90
15	0	31	25	22	13	10	5	3	1	1	0	111
16	0	14	22	33	22	16	2	1	1	0	0	111
17	40	0	0	0	0	0	0	0	0	0	0	40
TOTAL	40	710	921	629	342	159	63	24	10	4	1	2903

TABLE OF SEC BY WSCLS
CONTROLLING FOR SCLS= 5

SEC / WSCLS FREQUENCY	0	1	2	3	4	5	6	7	8	9	10	TOTAL
.	0	0	0	0	0	0	0	0	0	0	0	.
1	0	13	9	3	0	0	0	0	0	0	0	25
2	0	20	20	8	3	0	0	0	0	0	0	51
3	0	9	12	2	0	1	0	0	0	0	0	24
4	0	11	3	0	0	0	0	0	0	0	0	14
5	0	4	0	0	0	0	0	0	0	0	0	4
6	0	6	1	0	0	0	0	0	0	0	0	7
7	0	19	3	0	0	0	0	0	0	0	0	22
8	0	20	0	0	1	0	0	0	0	0	0	21
9	0	81	53	8	0	0	0	0	0	0	0	142
10	0	75	48	13	2	0	0	0	0	0	0	138
11	0	45	6	2	0	0	0	0	0	0	0	53
12	0	31	7	4	0	0	0	0	0	0	0	42
13	0	18	6	1	0	0	0	0	0	0	0	25
14	0	20	8	1	0	0	0	0	0	0	0	29
15	0	19	8	1	0	0	0	0	0	0	0	28
16	0	9	10	2	2	0	0	0	0	0	0	23
17	44	0	0	0	0	0	0	0	0	0	0	44
TOTAL	44	400	194	45	8	1	.	.	.	.	.	692

TABLE OF SEC BY WSCLS
CONTROLLING FOR SCLS= A

SEC / WSCLS	0	1	2	3	4	5	6	7	8	9	10	TOTAL
.	0	0	0	0	0	0	0	0	0	0	0	.
1	0	13	3	1	0	0	0	0	0	0	0	17
2	0	6	8	6	0	0	0	0	0	0	0	20
3	0	9	4	2	0	0	0	0	0	0	0	15
4	0	5	0	0	0	0	0	0	0	0	0	5
5	0	9	0	0	0	0	0	0	0	0	0	9
6	0	3	0	0	0	0	0	0	0	0	0	3
7	0	14	0	0	0	0	0	0	0	0	0	14
8	0	27	3	0	0	0	0	0	0	0	0	30
9	0	160	22	2	0	0	0	0	0	0	0	184
10	0	193	7	0	0	1	0	0	0	0	0	201
11	0	104	2	1	0	0	0	0	0	0	0	107
12	0	58	1	0	0	0	0	0	0	0	0	59
13	0	41	4	0	0	0	0	0	0	0	0	45
14	0	18	4	2	0	0	0	0	0	0	0	24
15	0	21	3	1	0	0	0	0	0	0	0	25
16	0	7	2	0	0	0	0	0	0	0	0	9
17	173	0	0	0	0	0	0	0	0	0	0	173
TOTAL	173	688	63	15	.	1	.	.	.	.	.	940

PRR 682

DUKE POWER COMPANY
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HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

March 1, 1983

Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 2900
Atlanta, Georgia 30303

Re: McGuire Nuclear Station, Unit 1
Docket No. 50-369/ D
Semi-Annual Radioactive Effluent Release Report and Annual Summary of Meteorological Data

Dear Mr. O'Reilly:

Pursuant to Technical Specifications 6.9.1.8 and 6.9.1.9, attached are radioactive effluent release reports for the period July-December 1982. Attachment 1 includes summaries of solid waste shipments, liquid and gaseous effluent releases, calculated dose assessments to the general public, and LADTAP and GASPAR dose assessments. Also attached is the annual summary of meteorological data for 1982 which is required by Technical Specification 6.9.1.9. Attachment 2 is the key for the wind frequency table derived from low elevation wind instruments, and Attachment 3 is the low elevation wind frequency table.

Very truly yours,

H.B. Tucker/bb

Hal B. Tucker

WHM/php
Attachments

cc: Mr. Richard C. DeYoung, Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. W. T. Orders
NRC Senior Resident Inspector
McGuire Nuclear Station

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