

DUKE POWER COMPANY
MCGUIRE NUCLEAR STATION
ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM
ANNUAL OPERATING REPORT

JANUARY 1, 1982 - DECEMBER 31, 1982

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McGUIRE NUCLEAR STATION
ANNUAL ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM
OPERATING REPORT

Table 1 summarizes the results of the Environmental Radiological Program for 1982. Table 2 provides a summary of the sampling locations and Table 3 summarizes the program analyses. Table 4 provides a map of sampling locations within a 13-mile radius of the station and Table 5 provides a map of sampling locations within a 0.6-mile radius of the station. Table 6 provides the location of the nearest milk animal and the nearest residence in each of the 16 meteorological sectors within a 5-mile radius of the station as determined by the annual land use census.

Duke Power Company's Environmental Radiological Laboratory performs the program analyses with the exception of tritium analyses which are performed by Teledyne Isotopes. Both the Environmental Radiological Laboratory and Teledyne Isotopes participate in the EPA Cross-Check Program; the cross-check code designations are CP and CJ respectively.

Some unavoidable deviations from the routine sampling schedule occurred during the year. These deviations are tabulated below:

<u>Unavailable Analysis</u>	<u>Reason</u>
1) Broadleaf Vegetation	
a) (184), 11/2/82	Sample not collected
b) (184), 12/7/82	Sample not collected
2) Fish	
a) (129), 4/9/82	Bottom feeder unavailable
b) (129), 10/4/82	Bottom feeder unavailable
c) (137), 10/18/82	Bottom feeder unavailable
3) Milk	
a) (138), (139), (140), (141), 1/12/82	Samples collected. Laboratory was unable to perform Low Level I-131 analyses because proportional counter was out of order.
b) (139), 1/26/82	Sample unavailable
c) (139), 2/23/82	Sample unavailable
d) (139), 3/9/82	Sample unavailable
e) (139), 5/11/82	Sample unavailable
f) (139), 5/25/82	Sample unavailable
g) (139), 8/10/82	Sample unavailable
h) (139), 8/24/82	Sample unavailable

- | | |
|--------------------|---|
| i) (139), 9/28/82 | Sample unavailable |
| j) (139), 12/14/82 | Insufficient quantity of sample collected. Laboratory unable to perform analyses. |

4) TLD

- | | |
|---------------------------|-----------------------|
| a) (150), 12/31 - 3/31/82 | Missing from location |
| b) (143), 3/31 - 6/30/82 | Missing from location |
| c) (150), 3/31 - 6/30/82 | Missing from location |
| d) (156), 3/31 - 6/30/82 | Missing from location |
| e) (165), 3/31 - 6/30/82 | Missing from location |
| f) (166), 3/31 - 6/30/82 | Missing from location |
| g) (150), 6/30 - 9/30/82 | Missing from location |
| h) (156), 6/30 - 9/30/82 | Missing from location |
| i) (143), 9/30 - 12/30/82 | Missing from location |
| j) (164), 9/30 - 12/30/82 | Missing from location |

Based on the unavailability of goat milk from the Howell residence (Location 139) the goat milk sampling location was changed to the Young residence in September, 1982. Due to the close proximity of the Young residence to the Howell residence, the 139 location number was not changed.

Review of the 1982 Environmental Radiological Monitoring Program analyses results showed no radionuclide or combination of radionuclides in any sample to exceed McGuire Nuclear Station's Technical Specification reporting limits.

Evaluation of the 1982 analyses results for possible trends showed an increase during 1982 of tritium concentrations in surface water composites from locations 128 and 130 and in drinking water composites from locations 131 and 142. An increase in tritium levels would be expected following the onset of Unit 1 initial criticality in August, 1981. The increase does not pose a significant health hazard to the public, as the maximum concentration of tritium reported in drinking water represented less than 2% of the MNS Technical Specification 3/4.12.1, Table 3.12-2 reporting level and the maximum concentration of tritium in surface water represented less than 0.016% of the 10CFR20 Appendix B Column II limit for concentrations of tritium in water. No other trends were identified. Tritium concentrations in surface water and drinking water will be closely monitored during 1983 for indications of any long-term upward trends.

MCGUIRE NUCLEAR STATION
MECKLENBURG COUNTY, NORTH CAROLINA

TABLE 1

DOCKET NUMBER 50-369,370
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIRECTION	CONTROL LOCATIONS MEAN (F) RANGE 134 8.7 mi/WNW	NO. OF NON- ROUTINE REPORT
AIR FILTER & CARTRIDGE PCI/CUBIC M 5 LOCATIONS						
MN-54	265	0.00	2.20E-04(5/ 212)	133	8.37E-04(1/ 53)	4.88E-04(1/ 53)
FE-59	265	0.00	2.24E-03(6/ 212)	133	8.47E-03-- 8.47E-03	1.23E-02-- 1.23E-02
CO-58	265	0.00	2.01E-02-- 3.17E-02	133	3.57E-03(2/ 53)	2.38E-03(3/ 53)
CO-60	265	0.00	7.69E-04(6/ 212)	133	2.01E-02-- 2.02E-02	2.42E-02-- 4.33E-02
ZN-65	265	0.00	5.89E-03-- 1.35E-02	125	1.17E-03(3/ 53)	-5.63E-05(2/ 53)
ZR-95	265	0.00	8.91E-04(8/ 212)	125	1.06E-02-- 1.35E-02	4.82E-03-- 1.07E-02
MB-95	265	0.00	1.53E-03-- 1.16E-02	133	1.33E-03(1/ 53)	2.03E-03(7/ 53)
I-131	265	0.07	6.23E-04(2/ 212)	125	7.00E-03-- 7.00E-03	5.50E-03-- 2.59E-02
CS-134	265	0.05	1.76E-02-- 1.94E-02	125	1.15E-03(0/ 53)	5.23E-04(2/ 53)
CS-137	265	0.06	1.65E-03(10/ 212)	133	0.00E-01-- 0.00E-01	1.09E-02-- 2.78E-02
BALA-140	265	3.00	1.06E-02-- 2.80E-02	125	2.39E-03(1/ 53)	-1.17E-04(1/ 53)
			1.09E-03(13/ 212)	125	2.80E-02-- 2.80E-02	1.43E-02-- 1.43E-02
			4.26E-03-- 1.94E-02	120	1.85E-03(4/ 53)	6.43E-04(3/ 53)
			1.09E-03(8/ 212)	125	9.49E-03-- 1.94E-02	6.07E-03-- 1.16E-02
			6.62E-03-- 1.85E-02	125	1.42E-03(3/ 53)	2.48E-03(0/ 53)
			-9.91E-05(3/ 212)	133	7.32E-03-- 1.63E-02	0.00E-01-- 0.00E-01
			7.36E-03-- 1.22E-02	133	4.85E-04(2/ 53)	2.27E-03(3/ 53)
			3.23E-03(45/ 212)	133	7.36E-03-- 9.39E-03	1.06E-02-- 1.32E-02
			5.41E-03-- 1.81E-02	133	3.82E-03(12/ 53)	2.29E-03(8/ 53)
			8.44E-05(5/ 212)	133	7.82E-03-- 1.65E-02	4.46E-03-- 1.15E-02
			8.04E-03-- 1.29E-02	133	8.53E-04(4/ 53)	-1.54E-03(0/ 53)
					8.04E-03-- 1.29E-02	0.00E-01-- 0.00E-01

MEAN BASED UPON ALL NET ACTIVITY MEASUREMENTS

RANGE BASED UPON DETECTABLE ACTIVITY MEASUREMENTS ONLY

ZERO RANGE INDICATES NO DETECTABLE ACTIVITY MEASUREMENTS

FRACTION OF DETECTABLE ACTIVITY MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES, (F)

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

MC GUIRE NUCLEAR STATION
MECKLENBURG COUNTY, NORTH CAROLINA

DOCKET NUMBER 50-369,370
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCAT'ON W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	CONTROL LOCATIONS MEAN (F) RANGE 136 12.5 mi/NNE	NO. OF NON- ROUTINE REPORT	
DRINKING WATER PCIAL 4 LOCATIONS							
	BETA-T	47	4.00	2.49E 00(36/ 36)	132	2.62E 00(12/ 12)	2.43E 00(11/ 11)
				1.47E 00-- 3.39E 00	11.2 mi/SSE	1.77E 00-- 3.35E 00	1.48E 00-- 3.11E 00
	MN-54	47	15.00	1.14E-01(1/ 36)	142	8.63E-01(1/ 12)	7.05E-02(2/ 11)
				4.57E 00-- 4.57E 00	7.5 mi/NE	4.57E 00-- 4.57E 00	5.44E 00-- 6.90E 00
	FE-59	47	30.00	2.16E 00(2/ 36)	132	3.50E 00(1/ 12)	-7.39E-01(0/ 11)
				1.70E 01-- 1.96E 01		1.70E 01-- 1.70E 01	0.00E-01-- 0.00E-01
	CO-58	47	15.00	1.83E-01(2/ 36)	131	7.71E-01(1/ 12)	6.26E-01(0/ 11)
				4.19E 00-- 6.23E 00	3.0 mi/ENE	4.19E 00-- 4.19E 00	0.00E-01-- 0.00E-01
	CO-60	47	15.00	4.17E-01(1/ 36)	142	8.25E-01(0/ 12)	5.98E-01(0/ 11)
				8.39E 00-- 8.39E 00		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
	ZN-65	47	30.00	-3.26E-01(0/ 36)	142	1.16E-01(0/ 12)	9.43E-01(0/ 11)
				0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
	ZR-95	47	30.00	7.28E-01(0/ 36)	132	2.49E 00(0/ 12)	2.02E 00(0/ 11)
				0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
	NB-95	47	15.00	5.81E-01(2/ 36)	142	1.35E 00(1/ 12)	1.42E 00(0/ 11)
				6.25E 00-- 7.74E 00		6.25E 00-- 6.25E 00	0.00E-01-- 0.00E-01
	I-131	47	15.00	9.21E-01(1/ 36)	132	2.45E 00(1/ 12)	7.79E-02(0/ 11)
				1.17E 01-- 1.17E 01		1.17E 01-- 1.17E 01	0.00E-01-- 0.00E-01
	CS-134	47	15.00	-1.14E-01(1/ 36)	131	5.38E-01(0/ 12)	2.64E 00(1/ 11)
				9.23E 00-- 9.23E 00		0.00E-01-- 0.00E-01	9.32E 00-- 9.32E 00
	CS-137	47	18.00	6.03E-01(2/ 36)	142	1.08E 00(1/ 12)	3.50E 00(1/ 11)
				4.36E 00-- 6.34E 00		6.34E 00-- 6.34E 00	1.07E 01-- 1.07E 01
	BALA-140	47	15.00	-1.72E-01(1/ 36)	131	8.28E-01(1/ 12)	-6.73E-01(0/ 11)
				5.24E 00-- 5.24E 00		5.24E 00-- 5.24E 00	0.00E-01-- 0.00E-01

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RANGE BASED UPON DETECTABLE ACTIVITY MEASUREMENTS ONLY

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FRACTION OF DETECTABLE ACTIVITY MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES, (F)

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

MCGUIRE NUCLEAR STATION
MECKLENBURG COUNTY, NORTH CAROLINA

DOCKET NUMBER 50-369,370
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	I	TYPE & TOTAL NO. OF ANALYSES PERFORMED	I	(LLD)	I	ALL INDICATOR LOCATIONS MEANS (F) RANGE	I	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	I	CONTROL LOCATIONS MEAN (F) RANGE 136 12.5 mi/NNE	I	NO. OF NON- ROUTINE REPORT M
DRINKING WATER	I		I		I		I		I		I	
QUARTER COMP.	I		I		I		I		I		I	
PCIAL	I		I		I		I		I		I	
4 LOCATIONS	I		I		I		I		I		I	
H-3	I	16	I	2000.00	I	1.00E 02(10/ 12)	I	131	I	2.43E 02(4/ 4)	I	1.45E 02(2/ 4)
	I		I		I	1.00E 02-- 3.60E 02	I	3.0 mi/ENE	I	1.20E 02-- 3.60E 02	I	1.30E 02-- 1.60E 02

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

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MCGUIRE NUCLEAR STATION
MECKLENBURG COUNTY, NORTH CAROLINA

DOCKET NUMBER 50-369,370
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	I	TYPE & TOTAL NO. OF ANALYSES PERFORMED	I	(LLD)	I	ALL INDICATOR LOCATIONS MEANS (F) RANGE	I	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	I	CONTROL LOCATIONS MEAN (F) RANGE 135 12.0 mi/N	I	NO. OF NON- ROUTINE REPORT				
SURFACE WATER	I		I		I		I		I		I					
PCI/L	I		I		I		I		I		I					
3 LOCATIONS	I		I		I		I		I		I					
	I	MN-54	I	36	I	15.00	I	1.09E-01(1/ 24)	I	130	I	1.02E 00(1/ 12)	I	-1.22E-01(0/ 12)	I	
	I		I		I		I	4.72E 00-- 4.72E 00	I	10.6 mi/SW	I	4.72E 00-- 4.72E 00	I	0.00E-01-- 0.00E-01	I	
	I	FE-59	I	36	I	30.00	I	1.16E 00(0/ 24)	I	130	I	1.97E 00(0/ 12)	I	-3.99E-02(0/ 12)	I	
	I		I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01	I	
	I	CO-58	I	36	I	15.00	I	-1.73E-01(1/ 24)	I	128	I	1.63E-01(1/ 12)	I	5.10E-01(0/ 12)	I	
	I		I		I		I	5.39E 00-- 5.39E 00	I	10.4 mi/ENE	I	5.39E 00-- 5.39E 00	I	0.00E-01-- 0.00E-01	I	
	I	CO-60	I	36	I	15.00	I	6.45E-01(0/ 24)	I	130	I	1.14E 00(0/ 12)	I	6.02E-01(1/ 12)	I	
	I		I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	7.32E 00-- 7.32E 00	I	
	I	ZN-65	I	36	I	30.00	I	2.30E-01(0/ 24)	I	128	I	6.20E-01(0/ 12)	I	-3.93E-01(0/ 12)	I	
	I		I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01	I	
	I	ZR-95	I	36	I	30.00	I	1.48E 00(4/ 24)	I	130	I	2.23E 00(2/ 12)	I	8.92E-01(0/ 12)	I	
	I		I		I		I	9.16E 00-- 1.11E 01	I		I	9.52E 00-- 1.04E 01	I	0.00E-01-- 0.00E-01	I	
	I	NB-95	I	36	I	15.00	I	1.68E 00(1/ 24)	I	128	I	2.16E 00(1/ 12)	I	8.89E-01(0/ 12)	I	
	I		I		I		I	1.07E 01-- 1.07E 01	I		I	1.07E 01-- 1.07E 01	I	0.00E-01-- 0.00E-01	I	
	I	I-131	I	36	I	15.00	I	-3.82E-01(0/ 24)	I	130	I	-3.11E-01(0/ 12)	I	-9.19E-01(0/ 12)	I	
	I		I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01	I	
	I	CS-134	I	36	I	15.00	I	-7.18E-01(0/ 24)	I	130	I	-5.68E-01(0/ 12)	I	8.34E-01(0/ 12)	I	
	I		I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01	I	
	I	CS-137	I	36	I	18.00	I	-1.88E-01(0/ 24)	I	130	I	1.23E-01(0/ 12)	I	1.65E 00(1/ 12)	I	
	I		I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	9.21E 00-- 9.21E 00	I	
	I	BALA-140	I	36	I	15.00	I	4.19E-01(1/ 24)	I	130	I	4.30E-01(1/ 12)	I	-4.11E-01(0/ 12)	I	
	I		I		I		I	5.60E 00-- 5.60E 00	I		I	5.60E 00-- 5.60E 00	I	0.00E-01-- 0.00E-01	I	

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FRACTION OF DETECTABLE ACTIVITY MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES, (F)

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

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MC GUIRE NUCLEAR STATION
MECKLENBURG COUNTY, NORTH CAROLINA

DOCKET NUMBER 50-369,770
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	I	TYPE & TOTAL NO. OF ANALYSES PERFORMED	I	(LLD)	I	ALL INDICATOR LOCATIONS MEANS (F) RANGE	I	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	I	CONTROL LOCATIONS MEAN (F) RANGE 135 12.0 mi/N	I	NO. OF NON- ROUTINE REPORT
SURFACE WATER	I	I	I	I	I	I	I	I	I	I	I	I
QUARTER COMP.	I	I	I	I	I	I	I	I	I	I	I	I
PC1/L	I	I	I	I	I	I	I	I	I	I	I	I
3 LOCATIONS	I	I	I	I	I	I	I	I	I	I	I	I
	I	H-3	12	I 2000.00	I	2.59E 02(8/ 8)	I	130	I	3.30E 02(4/ 4)	I	1.23E 02(4/ 4)
	I		I	I	I	1.40E 02-- 4.90E 02	I	10.6 mi/SW	I	2.70E 02-- 4.90E 02	I	1.00E 02-- 1.70E 02

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MCGUIRE NUCLEAR STATION
MECKLENBURG COUNTY, NORTH CAROLINA

DOCKET NUMBER 50-369,370
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	I I I I I	TYPE & TOTAL NO. OF ANALYSES PERFORMED	I I I I I	(LLD)	I I I I I	ALL INDICATOR LOCATIONS MEANS (F) RANGE	I I I I I	LOCATION W/ HIGHEST ANN. MEAN I-----I I NAME I DIST/ I DIRECTION	I I I I I	CONTROL LOCATIONS MEAN (F) RANGE 141 7.3 mi/NW	I I I I I	NO. OF NON- ROUTINE REPORT I
MILK	I		I		I		I		I		I	
PCIA/L	I		I		I		I		I		I	
4 LOCATIONS	I		I		I		I		I		I	
I I-131/LL	82	I	1.00	I	-5.84E-02(1/ 59)	I	138	-3.22E-02(0/ 23)	I	-8.49E-02(0/ 23)	I	
I		I		I	1.79E-01-- 1.79E-01	I	1.8 mi/SSE	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01	I	
I MN-54	86	I	0.00	I	3.49E-01(3/ 62)	I	138	6.84E-01(2/ 24)	I	-2.54E-01(0/ 24)	I	
I		I		I	5.40E 00-- 1.03E 01	I		5.40E 00-- 1.03E 01	I	0.00E-01-- 0.00E-01	I	
I FE-59	86	I	0.00	I	1.21E 00(1/ 62)	I	140	2.19E 00(0/ 24)	I	1.80E 00(0/ 24)	I	
I		I		I	1.50E 01-- 1.50E 01	I	2.8 mi/SSE	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01	I	
I CO-58	86	I	0.00	I	9.35E-02(2/ 62)	I	138	1.90E-01(1/ 24)	I	4.68E-01(1/ 24)	I	
I		I		I	5.69E 00-- 6.05E 00	I		5.69E 00-- 5.69E 00	I	6.10E 00-- 6.10E 00	I	
I CO-60	86	I	0.00	I	5.63E-01(4/ 62)	I	140	1.61E 00(2/ 24)	I	1.85E 00(3/ 24)	I	
I		I		I	5.97E 00-- 1.04E 01	I		5.97E 00-- 6.42E 00	I	5.58E 00-- 8.39E 00	I	
I ZN-65	86	I	0.00	I	6.30E-02(0/ 62)	I	140	1.49E 00(0/ 24)	I	-1.01E 00(0/ 24)	I	
I		I		I	0.00E-01-- 0.00E-01	I		0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01	I	
I ZR-95	86	I	0.00	I	8.66E-01(2/ 62)	I	140	2.40E 00(1/ 24)	I	8.90E-01(0/ 24)	I	
I		I		I	1.21E 01-- 1.24E 01	I		1.21E 01-- 1.21E 01	I	0.00E-01-- 0.00E-01	I	
I NB-95	86	I	0.00	I	1.05E 00(2/ 62)	I	140	2.10E 00(1/ 24)	I	9.12E-01(0/ 24)	I	
I		I		I	9.12E 00-- 1.11E 01	I		9.12E 00-- 9.12E 00	I	0.00E-01-- 0.00E-01	I	
I I-131	86	I	15.00	I	1.09E 00(3/ 62)	I	139	2.46E 00(2/ 14)	I	-7.19E-01(0/ 24)	I	
I		I		I	6.61E 00-- 1.17E 01	I	1.8 mi/SSE	6.61E 00-- 8.33E 00	I	0.00E-01-- 0.00E-01	I	
I CS-134	86	I	15.00	I	4.35E-01(5/ 62)	I	140	9.44E-01(2/ 24)	I	-4.38E-02(1/ 24)	I	
I		I		I	6.05E 00-- 9.54E 00	I		7.09E 00-- 9.29E 00	I	9.62E 00-- 9.62E 00	I	
I CS-137	86	I	18.00	I	5.42E 00(21/ 62)	I	139	1.21E 01(10/ 14)	I	5.20E 00(5/ 24)	I	
I		I		I	5.55E 00-- 2.65E 01	I		8.84E 00-- 2.65E 01	I	6.87E 00-- 1.90E 01	I	
I BALA-140	86	I	15.00	I	-1.00E-01(1/ 62)	I	138	2.31E-01(1/ 24)	I	-4.11E-01(0/ 24)	I	
I		I		I	5.80E 00-- 5.80E 00	I		5.80E 00-- 5.80E 00	I	0.00E-01-- 0.00E-01	I	

MEAN BASED UPON ALL NET ACTIVITY MEASUREMENTS

RANGE BASED UPON DETECTABLE ACTIVITY MEASUREMENTS ONLY

ZERO RANGE INDICATES NO DETECTABLE ACTIVITY MEASUREMENTS

FRACTION OF DETECTABLE ACTIVITY MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES, (F)

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

MCGUIRE NUCLEAR STATION
MECKLENBURG COUNTY, NORTH CAROLINA

DOCKET NUMBER 50-369,370
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	CONTROL LOCATIONS MEAN (F) RANGE 134 8.7 mi/WNW	NO. OF NON- ROUTINE REPT
BROAD-LEAF VEGETATION PCI/KG (WET) 3 LOCATIONS						
MN-54	34	0.00	2.17E 00(0/ 22)	125	3.00E 00(0/ 12)	9.00E 00(2/ 12)
FE-59	34	0.00	0.00E-01-- 0.00E-01 7.25E 00(1/ 22)	10.5 mi/SW 184	0.00E-01-- 0.00E-01 1.06E 01(1/ 10)	3.43E 01-- 5.14E 01 -1.73E 01(0/ 12)
CO-58	34	0.00	7.67E 01-- 7.67E 01 3.76E-01(1/ 22)	18 mi/WNW 125	7.67E 01-- 7.67E 01 2.59E 00(1/ 12)	0.00E-01-- 0.00E-01 1.18E 00(0/ 12)
CO-60	34	0.00	4.07E 01-- 4.07E 01 5.79E 00(2/ 22)	184	4.07E 01-- 4.07E 01 6.55E 00(1/ 10)	0.00E-01-- 0.00E-01 8.61E 00(1/ 12)
ZN-65	34	0.00	3.09E 01-- 4.02E 01 1.07E 00(0/ 22)	184	3.09E 01-- 3.09E 01 8.77E 00(0/ 10)	4.97E 01-- 4.97E 01 -1.43E 00(0/ 12)
ZR-95	34	0.00	0.00E-01-- 0.00E-01 5.78E 00(1/ 22)	184	0.00E-01-- 0.00E-01 1.15E 01(0/ 10)	0.00E-01-- 0.00E-01 1.24E 01(0/ 12)
NR-95	34	0.00	6.85E 01-- 6.85E 01 1.03E 01(2/ 22)	184	0.00E-01-- 0.00E-01 1.86E 01(1/ 10)	0.00E-01-- 0.00E-01 2.23E 01(3/ 12)
I-131	34	60.00	2.90E 01-- 4.47E 01 5.64E 00(2/ 22)	125	4.47E 01-- 4.47E 01 1.41E 01(2/ 12)	4.76E 01-- 8.19E 01 6.59E 00(1/ 12)
CS-134	34	60.00	5.08E 01-- 6.10E 01 4.10E 00(2/ 22)	184	5.08E 01-- 6.10E 01 1.50E 01(2/ 10)	9.02E 01-- 9.02E 01 -6.31E-01(1/ 12)
CS-137	34	80.00	3.69E 01-- 5.77E 01 1.58E 01(6/ 22)	184	3.60E 01-- 5.77E 01 2.46E 01(6/ 10)	5.53E 01-- 5.53E 01 1.22E 01(2/ 12)
BALA-140	34	0.00	2.96E 01-- 6.10E 01 -2.25E 00(0/ 22)	125	2.96E 01-- 6.10E 01 2.24E 00(0/ 12)	4.01E 01-- 4.59E 01 2.33E 00(0/ 12)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

PAGE 8 OF 10

MCGUIRE NUCLEAR STATION
MECKLENBURG COUNTY, NORTH CAROLINA

DOCKET NUMBER 50-369,370
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	I I I I	TYPE & TOTAL NO. OF ANALYSES PERFORMED	I I I I	(LLD)	I I I I	ALL INDICATOR LOCATIONS MEANS (F) RANGE	I I I I	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	I I I I	CONTROL LOCATIONS MEAN (F) RANGE 137 12.0 mi/N	I I I I	NO. OF NON- ROUTINE REPORT M
SHORELINE SEDIMENT PCI/KG (DRY) 3 LOCATIONS	I I I I		I I I I		I I I I		I I I I		I I I I		I I I I	
I MN-54	I	6 I	I	0.00	I	2.36E 01(1/ 4)	I	130	I	5.30E 01(1/ 2)	I	1.14E 01(0/ 2)
I	I		I		I	7.45E 01-- 7.45E 01	I	0.6 mi/SW	I	7.45E 01-- 7.45E 01	I	0.00E-01-- 0.00E-01
I FE-59	I	6 I	I	0.00	I	1.94E 01(1/ 4)	I	129	I	3.49E 01(1/ 2)	I	5.14E 00(0/ 2)
I	I		I		I	7.59E 01-- 7.59E 01	I	0.6 mi/ENE	I	7.59E 01-- 7.59E 01	I	0.00E-01-- 0.00E-01
I CO-58	I	6 I	I	0.00	I	1.20E 01(1/ 4)	I	129	I	1.66E 01(1/ 2)	I	1.87E 01(0/ 2)
I	I		I		I	2.97E 01-- 2.97E 01	I		I	2.97E 01-- 2.97E 01	I	0.00E-01-- 0.00E-01
I CO-60	I	6 I	I	0.00	I	-2.91E 00(0/ 4)	I	130	I	-1.69E 00(0/ 2)	I	-7.37E 00(0/ 2)
I	I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01
I ZN-65	I	6 I	I	0.00	I	1.53E 01(0/ 4)	I	129	I	2.14E 01(0/ 2)	I	-3.43E 00(0/ 2)
I	I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01
I ZR-95	I	6 I	I	0.00	I	1.54E 01(0/ 4)	I	130	I	3.40E 01(0/ 2)	I	1.79E 01(0/ 2)
I	I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01
I NB-95	I	6 I	I	0.00	I	1.21E 01(1/ 4)	I	130	I	2.36E 01(1/ 2)	I	2.70E 01(1/ 2)
I	I		I		I	4.32E 01-- 4.32E 01	I		I	4.32E 01-- 4.32E 01	I	5.02E 01-- 5.02E 01
I I-131	I	6 I	I	0.00	I	1.54E 01(0/ 4)	I	130	I	1.76E 01(0/ 2)	I	-4.59E 00(0/ 2)
I	I		I		I	0.00E-01-- 0.00E-01	I		I	0.00E-01-- 0.00E-01	I	0.00E-01-- 0.00E-01
I CS-134	I	6 I	I	150.00	I	4.66E 01(2/ 4)	I	130	I	7.67E 01(1/ 2)	I	4.61E 01(1/ 2)
I	I		I		I	2.05E 01-- 1.17E 02	I		I	1.17E 02-- 1.17E 02	I	6.02E 01-- 6.02E 01
I CS-137	I	6 I	I	180.00	I	2.43E 01(1/ 4)	I	130	I	4.40E 01(1/ 2)	I	2.13E 01(1/ 2)
I	I		I		I	6.39E 01-- 6.39E 01	I		I	6.39E 01-- 6.39E 01	I	5.19E 01-- 5.19E 01
I BALA-140	I	6 I	I	0.00	I	1.65E 01(1/ 4)	I	129	I	2.16E 01(1/ 2)	I	-7.45E 00(0/ 2)
I	I		I		I	4.32E 01-- 4.32E 01	I		I	4.32E 01-- 4.32E 01	I	0.00E-01-- 0.00E-01

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

MCGUIRE NUCLEAR STATION
MECKLENBURG COUNTY, NORTH CAROLINA

DOCKET NUMBER 50-369,370
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	TYPE & TOTAL NO. OF ANALYSES PERFORMED	(LLD)	ALL INDICATOR LOCATIONS MEANS (F) RANGE	LOCATION W/ HIGHEST ANN. MEAN NAME DIST/ DIRECTION	CONTROL LOCATION'S MEAN (F) RANGE 137 12.0 mi/N	NO. OF NON- ROUTINE REPORT M
FISH						
PCI/KG (WET) 2 LOCATIONS						
MN-54	5	130.00	-3.83E 00(0/ 2)	129	-3.83E 00(0/ 2)	1.28E 01(0/ 3)
			0.00E-01-- 0.00E-01	10.6 mi/ENE	0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
FE-59	5	260.00	0.00E-01(0/ 2)	129	0.00E-01(0/ 2)	8.47E 01(1/ 3)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	1.45E 02-- 1.45E 02
CO-58	5	130.00	8.16E 00(0/ 2)	129	8.16E 00(0/ 2)	2.65E 00(0/ 3)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
CO-60	5	130.00	-4.34E-01(0/ 2)	129	-4.34E-01(0/ 2)	2.95E 00(0/ 3)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
ZN-65	5	260.00	-1.39E 01(0/ 2)	129	-1.39E 01(0/ 2)	-9.12E 00(0/ 3)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
ZR-95	5	0.00	-1.46E 01(0/ 2)	129	-1.46E 01(0/ 2)	1.80E 01(0/ 3)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
NB-95	5	0.00	-7.11E 00(0/ 2)	129	-7.11E 00(0/ 2)	-1.31E 01(0/ 3)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
I-131	5	0.00	-7.51E 00(0/ 2)	129	-7.51E 00(0/ 2)	1.38E 01(0/ 3)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
CS-134	5	130.00	-8.22E-01(0/ 2)	129	-8.22E-01(0/ 2)	3.57E-01(0/ 3)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	0.00E-01-- 0.00E-01
CS-137	5	150.00	2.69E 01(1/ 2)	129	2.69E 01(1/ 2)	9.52E 00(1/ 3)
			5.38E 01-- 5.38E 01		5.38E 01-- 5.38E 01	3.09E 01-- 3.09E 01
BALA-140	5	0.00	1.14E 01(0/ 2)	129	1.14E 01(0/ 2)	1.77E 01(1/ 3)
			0.00E-01-- 0.00E-01		0.00E-01-- 0.00E-01	5.32E 01-- 5.32E 01

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

MCGUIRE NUCLEAR STATION
MECKLENBURG COUNTY, NORTH CAROLINA

DOCKET NUMBER 50-369,370
JANUARY 1, 1982 - DECEMBER 31, 1982

MEDIUM SAMPLED UNITS	I I I I I	TYPE & TOTAL NO. OF ANALYSES PERFORMED	I I I I I	(LLD)	I I I I I	ALL INDICATOR LOCATIONS MEANS (F) RANGE	I I I I I	LOCATION W/ HIGHEST ANN. MEAN ----- NAME DIST/ DIRECTION	I I I I I	CONTROL LOCATIONS MEAN (F) RANGE 183 5.5 mi/S	I I I I I	NO. OF NON- ROUTINE REPORT				
TLD	I I I I I		I I I I I		I I I I I		I I I I I		I I I I I		I I I I I					
MR/HOUR 41 LOCATIONS	I I I I I	MR/HOUR	I I I I I	154	I I I I I	0.00	I I I I I	1.05E-02(150/ 150) 7.00E-03-- 2.20E-02	I I I I I	180 11.5 mi/NNE	I I I I I	1.55E-02(4/ 4) 1.40E-02-- 1.60E-02	I I I I I	1.25E-02(4/ 4) 1.10E-02-- 1.50E-02	I I I I I	

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MCGUIRE RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS

TLD LOCATIONS

TABLE 2

SAMPLING LOCATION DESCRIPTION *			SAMPLING LOCATION DESCRIPTION *		
143	SITE BOUNDARY	(0.5 MILES N)	163	4-5 MILE RADIUS	(5.0 MILES SE)
144	SITE BOUNDARY	(0.7 MILES NNE)	164	4-5 MILE RADIUS	(4.5 MILES SSE)
145	SITE BOUNDARY	(0.5 MILES NE)	165	4-5 MILE RADIUS	(5.0 MILES S)
146	SITE BOUNDARY	(0.5 MILES ENE)	166	4-5 MILE RADIUS	(5.2 MILES SSW)
147	SITE BOUNDARY	(0.5 MILES E)	167	4-5 MILE RADIUS	(4.9 MILES SW)
148	SITE BOUNDARY	(0.5 MILES ESE)	168	4-5 MILE RADIUS	(4.7 MILES WSW)
149	SITE BOUNDARY	(0.6 MILES SE)	169	4-5 MILE RADIUS	(4.4 MILES W)
150	SITE BOUNDARY	(0.5 MILES SSE)	170	4-5 MILE RADIUS	(4.4 MILES WNW)
151	SITE BOUNDARY	(0.5 MILES S)	171	4-5 MILE RADIUS	(4.5 MILES NW)
152	SITE BOUNDARY	(0.5 MILES SSW)	172	4-5 MILE RADIUS	(5.2 MILES NNW)
153	SITE BOUNDARY	(0.5 MILES SW)	173	SPECIAL INTEREST	(8.5 MILES NNW)
154	SITE BOUNDARY	(0.7 MILES WSW)	174	SPECIAL INTEREST	(8.7 MILES WNW)
155	SITE BOUNDARY	(0.7 MILES W)	175	SPECIAL INTEREST	(12.7 MILES WNW)
156	SITE BOUNDARY	(0.5 MILES WNW)	176	SPECIAL INTEREST	(11.0 MILES SW)
157	4-5 MILE RADIUS	(4.8 MILES N)	177	SPECIAL INTEREST	(8.6 MILES S)
158	4-5 MILE RADIUS	(4.4 MILES NNE)	178	SPECIAL INTEREST	(9.2 MILES SE)
159	4-5 MILE RADIUS	(5.0 MILES NE)	179	SPECIAL INTEREST	(10.4 MILES ESE)
160	4-5 MILE RADIUS	(4.9 MILES ENE)	180	SPECIAL INTEREST	(11.5 MILES NNE)
161	4-5 MILE RADIUS	(4.7 MILES E)	181	SPECIAL INTEREST	(6.7 MILES NE)
162	4-5 MILE RADIUS	(4.6 MILES ESE)	182	SPECIAL INTEREST	(6.0 MILES NE)
			183	CONTROL	(5.5 MILES S)

* All TLD samples are collected quarterly

McGuire Environmental Radiological Monitoring Program
Other Sampling Locations
Table - 2 (Cont'd)

Code:

W - Weekly Q - Quarterly
SM - Semimonthly SA - Semiannual
M - Monthly C - Control

Sampling Location Description			Air Radionuclides and Particulates	Surface Water	Drinking Water	Shoreline Sediment	Milk	Fish	Broadleaf Vegetation
120	Site Boundary	(0.7 mi NNE)	W						
121	Site Boundary	(0.5 mi NE)	W						
125	Site Boundary	(0.5 mi SW)	W						M
128	Discharge Canal Bridge	(0.4 mi ENE)		M					
129	Discharge Canal	(0.6 mi ENE)				SA		SA	
130	Hwy 73 Bridge	(0.6 mi SW)		M		SA			
131	Huntersville Water Supply	(3.0 mi ENE)			M				
132	Charlotte Water Supply	(11.2 mi SSE)			M				
133	Cornelius	(6.2 mi NE)	W						
C134	East Lincoln Jr. High	(8.7 mi WNW)	W						M
C135	Marshall Plant Intake Canal	(12.0 mi N)		M					
C136	Mooreville Water Supply	(12.5 mi NNE)			M				
C137	Pinnacle Access Area	(12.0 mi N)				SA		SA	
138	Hubbard Dairy - Cows	(1.8 mi ESE)					SM		
139	*Howell Residence - Goats	(1.8 mi SSE)					SM		
140	Kidd Dairy - Cows	(2.8 mi SSE)					SM		
C141	Keeper Dairy - Cows	(7.3 mi NW)					SM		
142	Davidson Water Supply	(7.5 mi NE)			M				
184	Duke Power Substation	(18 mi WNW)							M

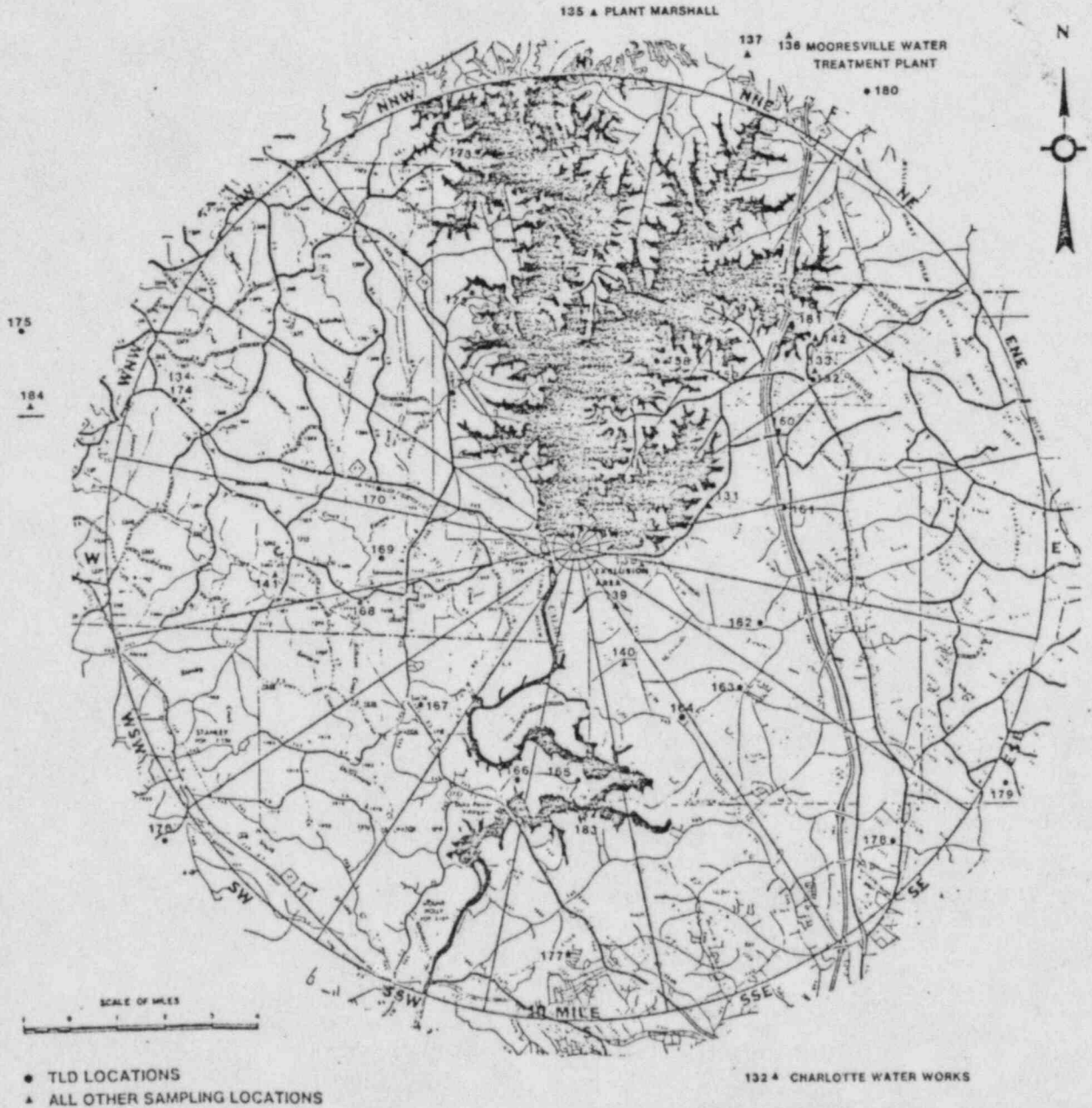
*Young residence as of 9/82

McGuire Environmental Radiological Monitoring Program
Program Analyses
Table 3

<u>Sample Medium</u>	<u>Analysis Schedule</u>	Gamma Isotopic	Tritium	Low-Level I-131	Gross Beta	Direct Radiation
1) Air Radioiodine and Particulates	Weekly	X				
2) TLD	Quarterly					X
3) Surface Water	Monthly	X				
	Quarterly Composite		X			
4) Drinking Water	Monthly	X			X	
	Quarterly Composite		X			
5) Shoreline Sediment	Semiannually	X				
6) Milk	Semimonthly	X		X		
7) Fish	Semiannually	X				
8) Broadleaf Vegetation	Monthly	X				

MC GUIRE NUCLEAR STATION
MONITORING PROGRAM LOCATIONS

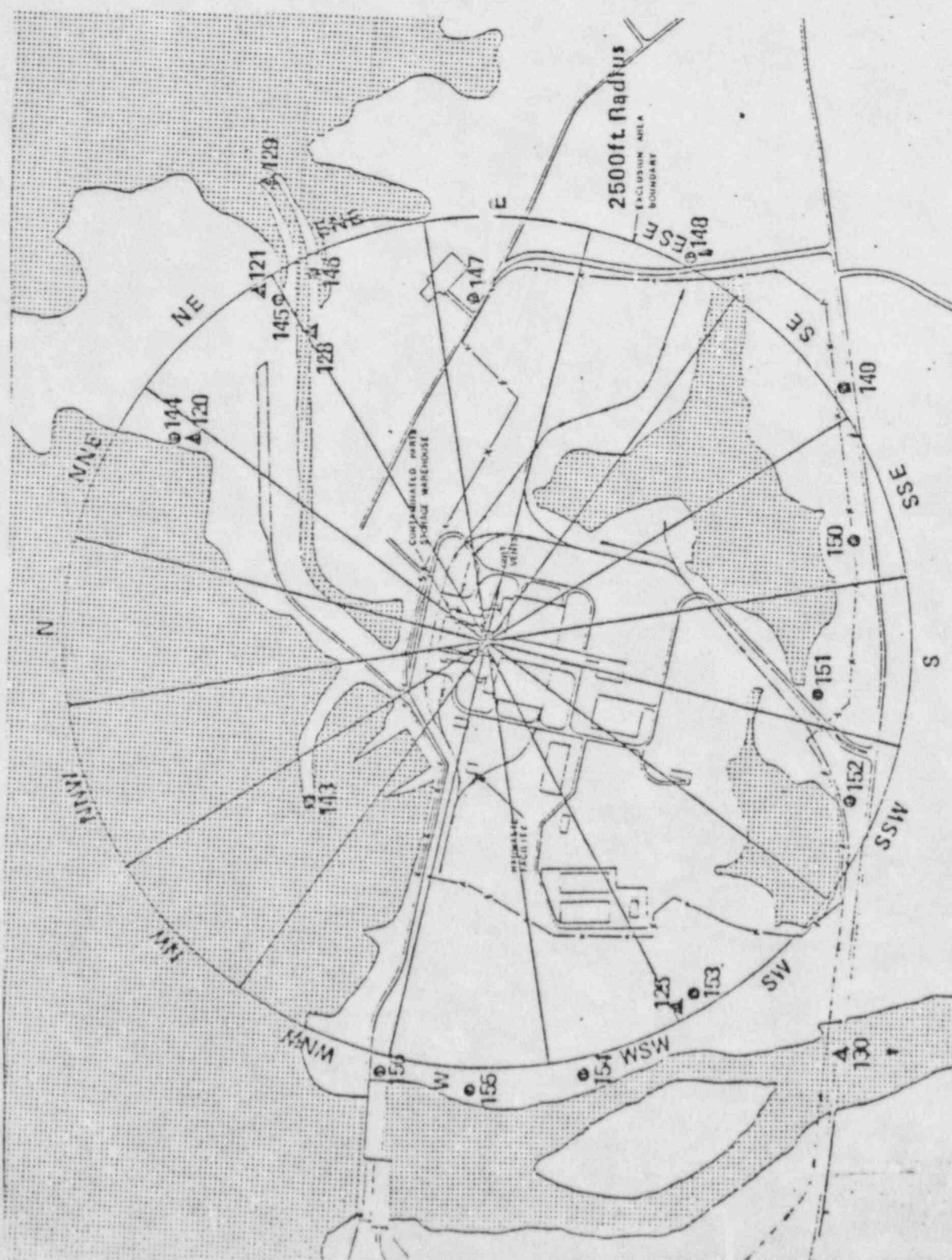
Table 4



Key - Tables 4&5

120	0.7 MILES NNE	140	2.8 MILES SSE	155	0.7 MILES W	170	4.4 MILES WNW
121	0.5 MILES NE	141	7.3 MILES NW	156	0.5 MILES WNW	171	4.5 MILES NW
125	0.5 MILES SW	142	7.5 MILES NE	157	4.8 MILES N	172	5.2 MILES NNW
128	0.4 MILES ENE	143	0.5 MILES N	158	4.4 MILES NNE	173	8.5 MILES NNW
129	0.6 MILES ENE	144	0.7 MILES NNE	159	5.0 MILES NE	174	8.7 MILES WNW
130	0.6 MILES SW	145	0.5 MILES NE	160	4.9 MILES ENE	175	12.7 MILES WNW
131	3.0 MILES ENE	146	0.5 MILES ENE	161	4.7 MILES E	176	11.0 MILES SW
132	11.2 MILES SSE	147	0.5 MILES E	162	4.6 MILES ESE	177	8.6 MILES S
133	6.2 MILES NE	148	0.5 MILES ESE	163	5.0 MILES SE	178	9.2 MILES SE
134	8.7 MILES WNW	149	0.6 MILES SE	164	4.5 MILES SSE	179	10.4 MILES ESE
135	12.0 MILES N	150	0.5 MILES SSE	165	5.0 MILES S	180	11.5 MILES NNE
136	12.5 MILES NNE	151	0.5 MILES S	166	5.2 MILES SSW	181	6.7 MILES NE
137	12.0 MILES N	152	0.5 MILES SSW	167	4.9 MILES SW	182	6.0 MILES NE
138	1.8 MILES ESE	153	0.5 MILES SW	168	4.7 MILES WSW	183	5.5 MILES S
139	1.8 MILES SSE	154	0.7 MILES WSW	169	4.4 MILES W	184	18 MILES WNW

McGuire Nuclear Station
Sampling Locations - 0.6 Mile Radius
Table 5



- TLD LOCATIONS
- ▲ OTHER SAMPLING LOCATIONS

McGUIRE NUCLEAR STATION
ANNUAL LAND USE CENSUS
PERFORMED 7/19 - 7/22/82
TABLE 6

<u>Sector</u>		<u>Distance</u>
N	Nearest milk animal Nearest residence	None within 5 miles 2.75 miles
NNE	Nearest milk animal Nearest residence	None within 5 miles 1.5 miles
NE	Nearest milk animal Nearest residence	None within 5 miles 2.0 miles
ENE	Nearest milk animal Nearest residence	4.0 miles 2.5 miles
E	Nearest milk animal Nearest residence	2.5 miles 0.5 miles
ESE	Nearest milk animal Nearest residence	1.8 miles 0.5 miles
SE	Nearest milk animal Nearest residence	2.5 miles 1.0 miles
SSE	Nearest milk animal Nearest residence	3.0 miles 0.5 miles
S	Nearest milk animal Nearest residence	3.25 miles 1.75 miles
SSW	Nearest milk animal Nearest residence	3.0 miles 5.0 miles
SW	Nearest milk animal Nearest residence	None within 5 miles 2.0 miles
WSW	Nearest milk animal Nearest residence	2.5 miles 1.2 miles
W	Nearest milk animal Nearest residence	None within 5 miles 1.1 miles
WNW	Nearest milk animal Nearest residence	None within 5 miles 0.8 miles
NW	Nearest milk animal Nearest residence	None within 5 miles 1.25 miles
NNW	Nearest milk animal Nearest residence	None within 5 miles 2.0 miles

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

DUKE POWER COMPANY
P.O. BOX 33189
CHARLOTTE, N.C. 28242

April 20, 1983

TELEPHONE
(704) 373-4531

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

Re: McGuire Nuclear Station
Docket Nos. 50-369 and 50-370/D
Annual Radiological Environmental Operating Report

Dear Mr. O'Reilly:

Pursuant to Technical Specification 6.9.1.6, please find attached the McGuire Nuclear Station Annual Radiological Environmental Operating Report for the calendar year 1982. Please advise us if there are questions concerning this report.

Very truly yours,

H.B. Tucker / *HT*

Hal B. Tucker

WHM/php
Attachment

cc: Mr. W. T. Orders
NRC Resident Inspector
McGuire Nuclear Station

IE25
83-67
OFFICIAL COPY

83 APR 25 A11

NUCLEAR REGULATORY COMMISSION
REGION II

5/4/83
Cecil Ham
2 Docket File