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January 20, 2010

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

Subject: Duke Energy Carolinas, LLC
McGuire Nuclear Station
Docket Nos. 50-369 and 50-370
Annual Radioactive Effluent Release Report
Solid Radwaste Disposal Report Addendum

Please find attached the Solid Radwaste Disposal Report Addendum for the period of January 1, 1989 through December 31, 2008 for the McGuire On-Site License Landfill Disposal. This report is submitted as an addendum to the McGuire Annual Radioactive Release Reports pursuant to the requirements of Technical Specification 5.6.3 and Section 16.11-17 of the McGuire Selected Licensee Commitments Manual.

Questions concerning this report should be directed to Kay Crane, McGuire Regulatory Compliance at (980) 875-4306.

Handwritten signature: H. T. Repko for

Regis T. Repko
McGuire Site Vice President

Attachment

*Handwritten initials: IE48
NRR*

NRC Document Control Desk

January 20, 2010

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cc: Mr. Jon Thompson
NRC Project Manager
Office of Nuclear Reactor Regulation
Mail Stop 8-H4A
Washington, D.C. 20555

Mr. L. A. Reyes, Regional Administrator
U. S. Nuclear Regulatory Commission, Region II
Atlanta Federal Center
61 Forsyth Street – Suite 23T85
Atlanta, GA 30323

Division of Radiation Protection
State of North Carolina
3825 Barrett Drive
Raleigh, N.C. 27609-7221

Mr. Joe Brady
Senior Resident Inspector
McGuire Nuclear Station

INPO Records Center
700 Galleria Place, Suite 100
Atlanta, GA 30339-5957

Attachment 1

1989 through 2008 Addendum

Solid Waste Disposal Report

TYPES OF WASTES SHIPPED	Number of Shipments	Number of Containers	Container Type	Disposal Volume ft ³	Volume m ³	Waste Class	Total Curies
<u>Waste from Liquid Systems</u>							
(A) dewatered powdex resin (brokered)	none						
(B) dewatered powdex resin	none						
(C) dewatered bead resin (brokered)	none						
(D) dewatered bead resin	none						
(E) dewatered radwaste system resin	none						
(F) dewatered primary bead resin	none						
(G) dewatered mechanical filter media	none						
(H) dewatered mechanical filter media (brokered)	none						
(I) solidified waste	none						
<u>Dry Solid Waste</u>							
(A) dry active waste (compacted)	none						
dry active waste (non-compacted)	18	N/A	N/A	7.70E+04	2179.60	N/A	5.68E-03
dry active waste (brokered/compacted)	none						
dry active waste (brokered/non-compacted)	none						
(B) sealed sources/smoke detectors	none						
(C) sealed sources	none						
(D) irradiated components	none						
Totals	18	N/A	N/A	76962	2179.60	N/A	5.677E-03

**MCGUIRE NUCLEAR SITE
SUMMARY OF MAJOR RADIONUCLIDE COMPOSITION
1989 through 2008 Addendum
On-Site License Landfill Disposal**

Type of waste	Nuclide	% Abundance
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1. Waste from liquid systems:

A. Dewatered Powdex Resin (brokered)	No shipments
B. Dewatered Powdex Resin	No shipments
C. Dewatered Bead Resin (brokered)	No shipments
D. Dewatered Bead Resin	No shipments
E. Dewatered Radwaste System Resin (brokered)	No shipments
F. Dewatered Primary Bead Resin (brokered)	No shipments
G. Dewatered Mechanical Filter Media	No shipments
H. Dewatered Mechanical Filter Media (brokered)	No shipments
I. Solidified Waste	No shipments

2. Dry Solid Waste:

A. Dry Active Waste (compacted)	Compaction no longer performed on-site.
Dry Active Waste (non-compacted)	

89 - 01

<u>Nuclide</u>	<u>% Abundance</u>
Cs-137	44.132
Cs-134	32.612
Co-60	17.681
Co-58	5.575

91 - 01	Nuclide Mn-54 Co-58 Co-60 CS-137 CS-134	10.731 10.839 59.793 11.378 7.259	% Abundance
93 - 01	Nuclide Co-58 Co-60 CS-134 CS-137	5.786 79.624 5.984 8.606	% Abundance
93 - 02	Nuclide Co-58 Co-60 CS-134 CS-137	5.143 63.907 6.300 24.650	% Abundance
94 - 01	Nuclide CS-137	100	% Abundance
94 - 02	Nuclide Co-58 Co-60 Be-7 Sb-125	7.536 5.755 77.137 9.572	% Abundance
95 - 01	Nuclide Mn-54 Co-58 Co-60 CS-137 Other	10.179 11.394 64.777 6.362 7.288	% Abundance
97 - 01	Nuclide Co-60 CS-134	67.909 32.091	% Abundance
97 - 02	Nuclide Co-60	100	% Abundance
98 - 01	Nuclide I-131 CS-137 Other	26.526 54.018 19.456	% Abundance

98 - 02	<u>Nuclide</u>	<u>% Abundance</u>
	Co-60	100
00 - 01	<u>Nuclide</u>	<u>% Abundance</u>
	Co-58	7.849
	Co-60	16.241
	I-131	.126
	Cs-134	1.855
	Cs-137	70.767
	Mn-54	.850
	Other	8.312
00 - 02	<u>Nuclide</u>	<u>% Abundance</u>
	Co-60	87.515
	Cs-137	12.485
02 - 01	<u>Nuclide</u>	<u>% Abundance</u>
	Co-58	39.524
	Co-60	51.804
	Cs-137	8.672
04 - 01	<u>Nuclide</u>	<u>% Abundance</u>
	Co-60	100
06 - 01	<u>Nuclide</u>	<u>% Abundance</u>
	Co-60	38.469
	Cs-137	61.531
07 - 01	<u>Nuclide</u>	<u>% Abundance</u>
	Co-60	60.636
	Cs-137	39.364
08 - 01	<u>Nuclide</u>	<u>% Abundance</u>
	Co-60	1.969
	Cs-137	16.651
	H-3	81.380

Dry Active Waste (brokered/compacted)

No shipments

Dry Active Waste (brokered/non-compacted)

No shipments

B. Sealed Sources

No shipments

C. Sealed Sources/Smoke Detectors

No shipments

D. Irradiated Components

No shipments