



Duke Energy
McGuire Nuclear Station
12700 Hagers Ferry Road
Huntersville, NC 28078

July 28, 2015

Ms. Shawn McKee
1646 Mail Service Center
Raleigh, NC 27699-1646

SUBJECT: Duke Energy – McGuire Nuclear Station
Permit Number 6004-INDUS-1981
2014-2015 Industrial Waste Landfill Annual Report

Dear Ms. McKee:

Attached are the completed Industrial Landfill Annual Report forms for Duke Energy's McGuire Nuclear Station synthetically lined Landfill #2 (Permit No. 60-04) for the past year (7/1/2014 – 6/30/2015).

The landfill currently accepts waste from Duke Energy facilities within its Carolinas service territory. A total of approximately 1,816 tons of waste was taken to the landfill during the most recent twelve month period. Since the landfill went into operation and through the most recent survey on May 22, 2015, approximately 60,491 cubic yards and 51,045 tons of waste have been disposed of in the landfill.

As required by G.S. 130A-309.09D(b), the County Manager for any county that generated waste for disposal to this landfill must be sent a copy of the Annual Report. Therefore, County Managers for the 36 counties that generated waste for disposal to this landfill were sent copies of the Annual Report.

If there are any questions regarding this report, please contact Sean DeNeale (704) 382-4761.

Sincerely,

A handwritten signature in black ink, appearing to read "Charles J. Morris III", written over a horizontal line.

Charles J. Morris III
Duke Energy
McGuire Nuclear Station
Plant Manager

Attachments

Electronic cc: Teresa Bradford – NCDENR Mooresville Regional Office
John Williamson – Duke Energy Corporation
Charles Morris – Duke Energy Corporation
Craig Honeycutt – Alamance County, NC
Rusty Burns – Anderson County, SC
Bryan Steen – Burke County, NC
Mike Downs – Cabarrus County, NC
J. Thomas Lundy – Catawba County, NC
Shane Stuart – Chester County, SC
Jeff Richardson – Cleveland County, NC
Michael Ruffin – Davie County, NC
Wendell Davis – Durham County, NC
J. Dudley Watts, Jr. – Forsyth County, NC
Earl Mathers – Gaston County, NC
Michael Felts – Granville County, NC
Joseph Kernell – Greenville County, SC
Toby Chappell – Greenwood County, SC
Marty Lawing – Guilford County, NC
Steve Wyatt – Henderson County, NC
Ron Smith – Iredell County, NC
Steve Willis – Lancaster County, SC
Ernest B. Segars – Laurens County, SC
Kelly Atkins – Lincoln County, NC
Derek Roland – Macon County, NC
Charles Abernathy – McDowell County, NC
Dena Diorio – Mecklenburg County, NC
Scott Moulder – Oconee County, SC
Bonnie Hammersley – Orange County, NC
Ralph Guarino – Pickens County, SC
Lance L. Metzler – Rockingham County, NC
Aaron Church – Rowan County, NC
Steve Garrison – Rutherford County, NC
Katherine L O'Neill – Spartanburg County, SC
Andy Lucas – Stanly County, NC
Rick Morris – Stokes County, NC
Kevin King – Swain County, NC
Jaime Laughter – Transylvania County, NC
Cynthia Coto – Union County, NC
William P. Shanahan, Jr. – York County, SC

According to (G.S. 130A-309.09D(b)) completed forms must be returned by August 1, 2015 and a copy of this report must be sent to the County Manager of each county from which waste was received. If you have questions or require assistance in completing this report, contact your Regional Environmental Senior Specialist.

Facility Name: McGuire Nuclear Station - Duke Energy Carolinas, LLC

Permit: 6004-INDUS-1981

Physical Address	Mailing Address
Street 1: <u>12700 Hagers Ferry Road</u>	Street 1: <u>12700 Hagers Ferry Road</u>
Street 2: _____	Street 2: _____
City: <u>Huntersville</u> County: <u>Mecklenburg</u>	City: <u>Huntersville</u>
State: <u>North Carolina</u> Zip: <u>28078-8985</u>	State: <u>North Carolina</u> Zip: <u>28078-8985</u>
Primary Facility Contact Person	Billing Contact Person
Name: <u>John Williamson</u>	Name: <u>Sean DeNeale</u>
Phone: <u>(980) 875-5894</u> Fax: <u>(980) 875-4627</u>	Phone: <u>(704) 382-4761</u> Fax: <u>(704) 382-6240</u>
Email: <u>John.Williamson@Duke-Energy.com</u>	Email: <u>Sean.DeNeale@Duke-Energy.com</u>

1. Tipping Fee: \$ 0.00 per Ton (Attach a schedule of tipping fees if appropriate.)

2. Did your facility stop receiving waste during this past Fiscal Year? Yes No
If so, please report the date this occurred: _____

3. Indicate types of disposal activity occurring at this facility (Check all that apply).

- Landfilling of industrial waste (specify waste): Non-hazardous expired chemical/spill clean up materials and soil
 Landfilling of construction and demolition waste
 Landfilling of asbestos
 Landfilling of ash
 Landfilling of sludge
 Landfilling of other waste (specify): _____

4. What other activities occur at this facility? (check all that apply)

- Recycling/Reuse Collection Scrap Tire Collection White Goods Collection Household Hazardous Waste Collection

If you checked Recycling/Reuse Collection, please indicate the materials accepted: (check all that apply)

- Paper Wood Concrete/rubble/asphalt Gypsum/drywall
 Cardboard Glass Aluminum Cans Steel Cans
 PETE (#1) Plastic HDPE (#2) Plastic Computer Equipment Televisions
 Fluorescent lightbulbs Used oil/oil filters Other Metal Other Plastic
 Other (specify) Note: Recycling activities occur at McGuire Nuclear Station but are not associated with the landfill

Airspace (Capacity): Questions in this section relate to all cells/units of the facility operated under the current 4-digit permit number regardless of whether the cells/units are closed or are not contiguous at the time of this report. Tonnage questions must be based on scale records and cover the period between the opening date and the date of the last survey unless another time period is approved. Airspace measurements include weekly, intermediate and final cover.

5. Date Facility Last Surveyed: 5/22/2015

6. Airspace Used (cubic yards): 60,491

7. Total Tons Disposed in Airspace Used (tons): 51,045.16

8. Total waste landfilled at this facility during the period of July 1, 2014, through June 30, 2015. Indicate **tonnage** received by COUNTY of waste origin. DO NOT include waste diverted for recycling, reuse, mulching, or composting. Please list ALL counties from which you received waste. Please indicate COUNTY and STATE, if received from another state.

Received from	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
Alamance County, NC	0	0	51	7.5	0	0	0	0	0	0	2	15.6	76.1
Anderson County, SC	0.93	0	0	0	0	0	0	0	0	1.5	12.5	18.21	33.14
Burke County, NC	0	0	0	0	0.05	4	0	0	0	0	0	7.12	11.17
Cabarrus County, NC	8.5	0	0	6	0	0	0	0	0	0	0	4.5	19
Catawba County, NC	0	0	0	0	0	0.25	0	0	0	7	29.5	10	46.75
Chester County, SC	0	6	0	0	0	0	0	0	0	0	0	0	6
Cleveland County, NC	0	0	0	2.5	0	0	7	0	0	8	0	0	17.5
Davie County, NC	0	0	0	13.29	0	0	0	0	0	6	0	0	19.29
Durham County, NC	12	15.31	0	0	0	0	0	0	0	0	0	0	27.31
Forsyth County, NC	0	25	0	0	0	0	0	2	0	0	147.9	7.5	182.4
Gaston County, NC	0	54.7	258.25	140.75	0	0	0	0	15.58	0	4	2.65	475.93
Granville County, NC	10	0	0	30.38	0	0	0	0	0	0	0	0	40.38
Greenville County, SC	0	0	8.3	0	0	0	0	9.5	0	0	30.93	2	50.73
Greenwood County, SC	4	0	0	0	0	0	0	0	0	0	0	0	4
Guilford County, NC	14.5	2.25	16.09	1.5	27	0	62.48	0	4	4.5	3	6.5	141.82
Henderson County, NC	8	0	2	0	0	2	0	0	0	0	0	1.5	13.5
Iredell County, NC	0.1	0.1	0.5	0	0	0	0.19	0	0	0	0	0	0.89
Lancaster County, SC	0	0	5	0	0	0	0	4	0	0	0	0	9
Laurens County, NC	0	0	0	0	0	0	0	0	0	0	4	0	4
Lincoln County, NC	0	0	0	0	0	0	98.12	0	0.2	0	33.1	0	131.42
Macon County, NC	0	3	0	23.38	0	0	0	0	0	0	0	0	26.38
Medowell County, NC	0	0	0	0	2	0	0	0	0	0	0	0	2
Mecklenburg County, NC	17.02	19.7	19.2	11.79	4.12	2.02	34.11	1.21	3.18	7.29	19.65	25.15	164.44
Oconee County, SC	0	0	0	0	0	18.93	0	0	0	2.5	0	0	21.43

Grand Total 1,524.58

Total (w/Part 2) = 1,816.40

REMINDER: According to (G.S. 130A-309.09D(b)), this report must be sent to the Regional Environmental Senior Specialist for your area and a copy of this report must be sent to the County Manager of each county from which waste was received.

Please return your completed report to:

Shawn McKee
1646 Mail Service Center
Raleigh, NC 27699-1646
phone: 919.707.8284 email: Shawn.McKee@ncdenr.gov

CERTIFICATION: I certify that the information provided is an accurate representation of the activity at this facility.

Signature: _____

Sean DeNeale

Date: Jul 27, 2015

Name: Sean DeNeale

Title: Engineer II

Phone Number: (704) 382-4761

Email: Sean.DeNeale@Duke-Energy.com

Facility Name: McGuire Nuclear Station - Duke Energy Carolinas, LLC

Permit: 6004-INDUS-1981

Address: 12700 Hagers Ferry Road

City: Huntersville

State: North Carolina

Zip: 28078-8985

Person completing Assessment: Sean DeNeale

Date: Jul 27, 2015

Phone Number: (704) 382-4761

Fax: (704) 382-6240

Email: Sean.DeNeale@Duke-Energy.com

Instructions: Please indicate either *Yes or No* for each Receptor and Post Closure Maintenance question. Then please determine the distance or distances for each Receptor from the *Edge of Waste* (using range finders and/or GIS maps) and type that information into the form. Please attach additional information including GIS maps, lists of potable well locations, etc.

Receptors

1. Are there Residential Dwellings Within 1,500 feet of the Edge of Waste? Yes No
 If Yes, how many? 9
 What are the three closest distances from the *Edge of Waste*? 270 Feet 580 Feet 860 Feet
2. Are there Potable Wells Within 1,500 feet of the Edge of Waste? Yes No
 If Yes, how many? 9
 What are the three closest distances from the *Edge of Waste*? 270 Feet 580 Feet 860 Feet
3. Are there Community/Municipal Wells Within 1,500 feet of the Edge of Waste? Yes No
 If Yes, how many? _____
 What are the three closest distances from the *Edge of Waste*? _____ Feet _____ Feet _____ Feet
4. Are there Surface Water Bodies Within 1,500 feet of the Edge of Waste? Yes No
 If Yes, how many? _____
 What are the three closest distanees from the *Edge of Waste*? _____ Feet _____ Feet _____ Feet
 Please list the names of the water bodies: _____
5. Is Public Water Available Within 1,500 feet of the Edge of Waste? Yes No
 If Yes, how many of the Residential Dwellings noted above are connected? _____

Corrective Measures

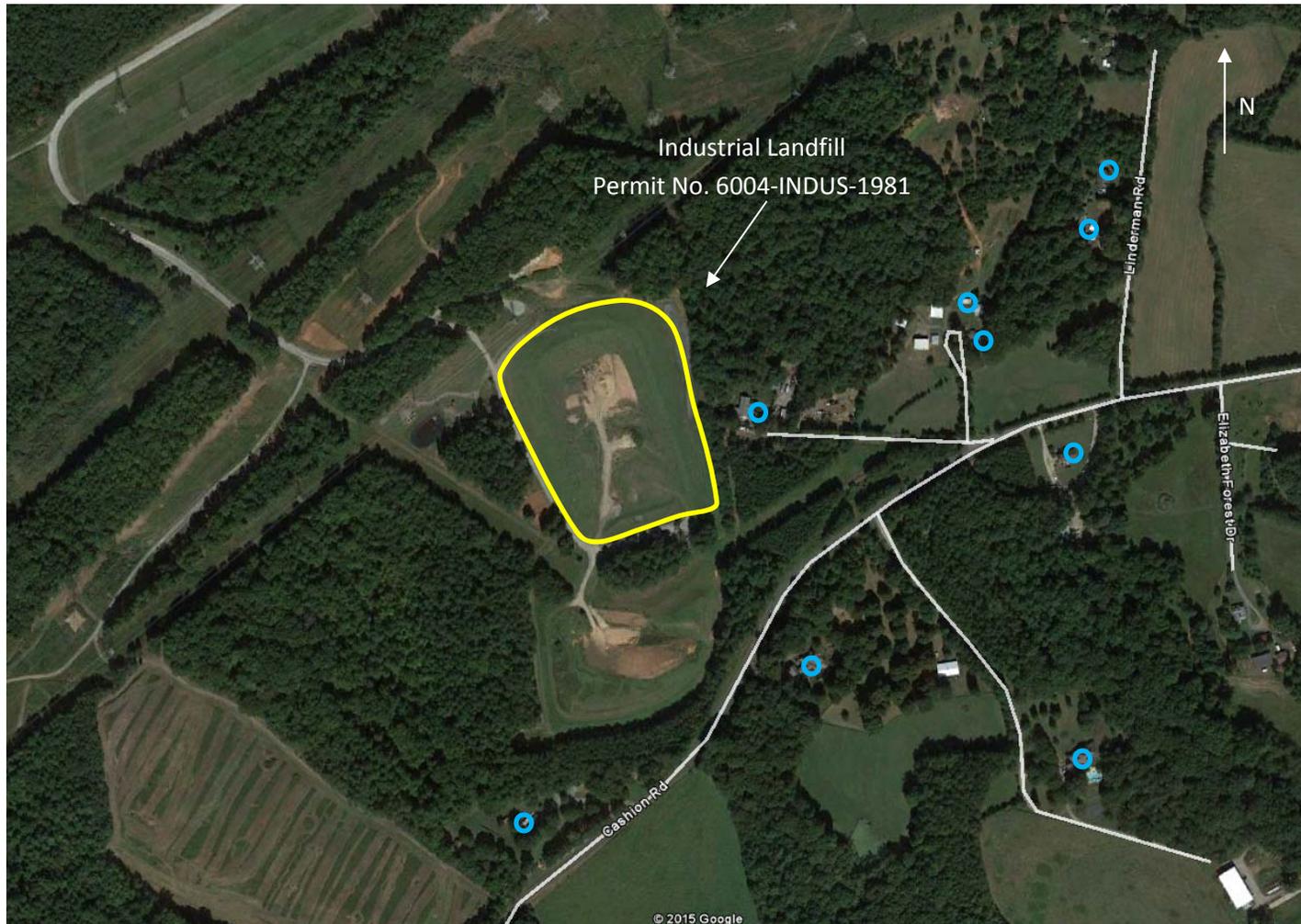
6. Is there an active methane extraction system (blower, flare, etc.)? Yes No
7. Is there a passive methane extraction system (trench, vents in cap, flare, etc.)? Yes No
8. Is there groundwater remediation taking place on site? Yes No
 If Yes, what is the specific remedial technology used? _____

Comments

*Waste streams identified on Page 1, Question 2 reflect disposal activities that occurred at this facility from July 1, 2014 through June 30, 2015.

Duke Energy – McGuire Nuclear Station Industrial Landfill

Permit: 6004-INDUS-1981



LEGEND:

- Edge of Waste
- Surface Water Bodies
- Potable Well Within 1,500' of Edge of Waste (Approx)