



526 South Church St.  
Charlotte, NC 28202

P.O. Box 1006  
Mail Code EC13K  
Charlotte, NC 28201-1006  
980-373-5697

July 28, 2016

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

Subject: Duke Energy – Marshall Steam Station  
Permit Number 1812-INDUS  
Industrial Landfill No. 1  
Industrial Waste Landfill Annual Report

Dear Ms. McKee:

After further review of the Duke Energy's Marshall Steam Station Industrial Landfill No. 1 (Permit No. 1812) for the past year (7/1/2015 – 6/30/2016) a discrepancy was found in the tonnages for the month of October 2015. Attached you will find an updated annual report. Please disregard the previous version sent to your attention on July 20th.

The landfill accepted waste from Duke Energy's Marshall Steam Station and Riverbend Steam Station. A total of approximately 302,102 tons of waste was received by the landfill during the most recent twelve month period. Since the landfill went into operation and through the most recent survey on May 7, 2016, approximately 690,094 cubic yards and 967,681 tons of waste have been disposed 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 is sent a copy of the Annual Report. Therefore, a copy of this Annual Report is being provided to the County Manager for Catawba County and Gaston County.

If there are any questions regarding this report feel free to contact Tyler Hardin at (980) 373-5697.

Sincerely,

Kimberlee Witt  
*Environmental Services*

Att: Duke Energy Marshall Steam Station ILF1 Landfill Facility Annual Report  
Duke Energy Marshall Steam Station ILF1 Landfill Facility Annual Risk Assessment with Figure

Cc: Tim Russell, Duke Energy - Marshall Steam Station  
Chris Randazzo, Duke Energy - Marshall Steam Station  
Jeff Jones, Duke Energy – Marshall Steam Station  
Mr. J. Thomas Lundy, Catawba County - County Manager  
Catawba County Government

100 A South West Blvd.  
Newton, NC 28658-0389

**Mr. Earl Mathers, Gaston County - County Manager**  
Gaston County Government – Earl Mathers  
P.O Box 1578  
Gastonia, NC 28053-1578

According to G.S. 130A-309.09D(b), completed forms must be returned by August 1, 2016 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: Duke Energy - Marshall Steam Station Industrial Landfill No.1 Permit: 1812-INDUS

Physical Address	Mailing Address
Street 1: <u>8320 East Highway 150</u>	Street 1: <u>526 South Church Street</u>
Street 2: _____	Street 2: _____
City: <u>Terrell</u> County: <u>Catawba</u>	City: <u>Charlotte</u>
State: <u>North Carolina</u> Zip: <u>28682</u>	State: <u>North Carolina</u> Zip: <u>28202</u>
Primary Facility Contact Person	Billing Contact Person
Name: <u>Tyler Hardin</u>	Name: <u>Tyler Hardin</u>
Phone: <u>(980) 373-5697</u> Fax: <u>(704) 382-6240</u>	Phone: <u>(980) 373-5697</u> Fax: <u>(704) 382-6240</u>
Email: <u>Tyler.Hardin@Duke-Energy.com</u>	Email: <u>Tyler.Hardin@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): Bottom Ash, Fly Ash, Gypsum, FGD Clarifier Sludge
- Landfilling of construction and demolition waste
- Landfilling of asbestos
- Landfilling of ash
- Landfilling of sludge
- Landfilling of other waste (specify): Vacuum Truck Waste, Contaminated Soil, Abrasive Blasting Material
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 Marshall Steam Station but are not associated with the landfill

<p><b>Airspace (Capacity):</b> 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.</p>	5. Date Facility Last Surveyed: <u>05/07/2016</u>
	6. Airspace Used (cubic yards): <u>690,094</u>
	7. Total Tons Disposed in Airspace Used (tons): <u>967,681</u>



Facility Name: Duke Energy - Marshall Steam Station Industrial Landfill No.1 Permit: 1812-INDUS

Address: 8320 East Highway 150

City: Terrell State: North Carolina Zip: 28682

Person completing Assessment: Tyler Hardin Date: Jul 20, 2016

Phone Number: (980) 373-5697 Fax: (704) 382-6240 Email: Tyler.Hardin@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 Structures Within 1,500 feet of the Edge of Waste?  Yes  No  
 If Yes, how many? 6  
 What are the three closest distances from the *Edge of Waste*? 370 Feet 770 Feet 1170 Feet
2. Are there Water Supply Wells Within 1,500 feet of the Edge of Waste?  Yes  No  
 If Yes, how many? 4  
 What are the three closest distances from the *Edge of Waste*? 600 Feet 850 Feet 1000 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 Features Within 1,500 feet of the Edge of Waste?  Yes  No  
 If Yes, how many? 1  
 What are the three closest distances from the *Edge of Waste*? 750 Feet \_\_\_\_\_ Feet \_\_\_\_\_ Feet  
 Please list the names of the water bodies: Unnamed Tributary
5. Is Public Water Available Within 1,500 feet of the Edge of Waste?  Yes  No  
 If Yes, how many of the Residential Structures noted above are connected? 1

**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 3 reflect disposal activities that occurred at this facility from July 1, 2015 through June 30, 2016.

# Duke Energy – Marshall Steam Station Industrial Landfill No. 1

Permit: 1812-INDUS



**LEGEND:**

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