



526 South Church St.  
Charlotte, NC 28202

P.O. Box 1006  
Mail Code EC13K  
Charlotte, NC 28201-1006  
336-215-4576  
704-382-6240 fax

July 24, 2015

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

Subject: Duke Energy – Belews Creek Steam Station  
Permit Number 8505-INDUS  
FGD Landfill  
Industrial Waste Landfill Annual Report

Dear Ms. McKee:

Attached is the completed Industrial Landfill Annual Report form for Duke Energy's Belews Creek Steam Station FGD Residual Landfill (Permit No. 8505) for the past year (7/1/2014 – 6/30/2015).

The landfill only accepts waste from Duke Energy's Belews Creek Steam Station. The FGD landfill had a gross acceptance of 206,327 tons over the most recent 12 months which was reduced by a removal (mining gypsum for sales) of 78,417 tons, resulting in a net disposal of 127,910 tons. The Facility Annual Report represents net monthly disposal amounts. Mining activities were conducted with the approval of the Solid Waste Section. Since the landfill went into operation and through the most recent survey on April 1, 2015, approximately 983,166 cubic yards and 1,442,173.55 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 Stokes County.

If there are any questions regarding this report feel free to contact me at (336) 215-4576.

Sincerely,

Digitally signed by Kimberlee Hutchinson  
DN: cn=Kimberlee Hutchinson, o=Duke Energy,  
ou=Environmental Services,  
email=kim.hutchinson@duke-energy.com, c=US  
Date: 2015.07.24 19:23:23 -04'00'

Kimberlee Hutchinson, PE  
*Environmental Services*

Att: Duke Energy Belews Creek FGD Landfill Facility Annual Report  
Duke Energy Belews Creek FGD Landfill Facility Annual Risk Assessment with Figure

Cc: Melonie Martin, Duke Energy - Belews Creek Steam Station  
Will Harrison, Duke Energy - Belews Creek Steam Station  
Rick Morris, Stokes County - County Manager  
Administration Building  
1014 Main Street  
Danbury, NC 27016

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: Duke Energy- Belews Creek FGD Residual LandfillPermit: 8505-INDUS

Physical Address	Mailing Address
Street 1: <u>3195 Pine Hall Rd</u>	Street 1: <u>3195 Pine Hall Rd</u>
Street 2: _____	Street 2: _____
City: <u>Belews Creek</u> County: <u>Stokes</u>	City: <u>Belews Creek</u>
State: <u>North Carolina</u> Zip: <u>27009</u>	State: <u>North Carolina</u> Zip: <u>27009</u>
Primary Facility Contact Person	Billing Contact Person
Name: <u>Melonie Martin</u>	Name: <u>Kimberlee Hutchinson</u>
Phone: <u>(336) 445-0610</u> Fax: <u>(336) 445-0423</u>	Phone: <u>(336) 215-4576</u> Fax: <u>(336) 445-0423</u>
Email: <u>Melonie.Martin@Duke-Energy.com</u>	Email: <u>Kim.Hutchinson@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): FGD Clarifier Sludge and Gypsum
- 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 Belews Creek Steam Station 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: 4/1/20156. Airspace Used (cubic yards): 983,1667. Total Tons Disposed in  
Airspace Used (tons): 1,442,173.55



Facility Name: Duke Energy- Belews Creek FGD Residual Landfill Permit: 8505-INDUS

Address: 3195 Pine Hall Rd

City: Belews Creek State: North Carolina Zip: 27009

Person completing Assessment: Kimberlee Hutchinson Date: 7/14/2015

Phone Number: (336) 445-0746 Fax: (336) 445-0423 Email: Kim.Hutchinson@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? \_\_\_\_\_  
 What are the three closest distances from the *Edge of Waste*? \_\_\_\_\_ Feet \_\_\_\_\_ Feet \_\_\_\_\_ Feet
2. Are there Potable 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
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? 1  
 What are the three closest distances from the *Edge of Waste*? 540 Feet 560 Feet 840 Feet  
 Please list the names of the water bodies: Belews Lake
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? N/A

**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, 2014 through June 30, 2015. This landfill has a gross acceptance of 206,327 tons over the most recent 12 months. This was reduced by a removal (mining of gypsum for sales) of 78,417 tons, resulting in a net disposal of 127,910 tons. The Facility Annual Report represents net monthly disposal amounts.

# Duke Energy – Belews Creek FGD Residue Landfill

Permit: 8505-INDUS



**LEGEND:**

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