



**FACILITY COMPLIANCE INSPECTION REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

UNIT TYPE:											
Lined MSWLF		LCID		YW		Transfer		Compost		SLAS	<b>COUNTY: Stokes</b> <b>PERMIT NO.: 85-04</b> <b>FILE TYPE: COMPLIANCE</b>
Closed MSWLF		HHW		White goods		Incineration		T&P		FIRM	
CDFL		Tire T&P / Collection		Tire Monofill		Industrial Landfill	<input checked="" type="checkbox"/>	DEMO		SDTF	

**Date of Site Inspection:** 09/26/13

**Date of Last Inspection:** 03/18/11

**FACILITY NAME AND ADDRESS:**

Duke Energy Carolinas, LLC  
 Belews Creek Steam Station  
 Craig Road Ash Landfill  
 3195 Pine Hall Road  
 Belews Creek, North Carolina 27009

**GPS COORDINATES:** N: 36.25791 E: 80.06493

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Melonie Martin, Environmental Coordinator  
 Office: 336-445-0610  
 Cell: 336-669-2994  
 E-mail: [melonie.martin@duke-energy.com](mailto:melonie.martin@duke-energy.com)

**FACILITY CONTACT ADDRESS:**

Duke Energy Carolinas, LLC  
 Belews Creek Steam Station  
 3195 Pine Hall Road  
 Belews Creek, North Carolina 27009

**PARTICIPANTS:**

Melonie Martin, Environmental Coordinator  
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 Hugh Jernigan, N. C. Solid Waste Section

**STATUS OF PERMIT/PERMIT HISTORY:**

Notification of Site Suitability Issued: May 12, 2006  
 Original Permit to Construct Issued: June 20, 2006  
 Original Permit to Operate, Phase 1, Issued: November 5, 2007  
 Permit to Operate, Phase 1 Renewal and Vertical Expansion, Issued: August 5, 2011  
 Notification of Site Suitability, Phases 2-6, Issued: November 15, 2011  
 Permit to Construct, Phase 2, Issued: May 18, 2012  
 Permit Expiration Date: **May 18, 2017**

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**PURPOSE OF SITE VISIT:**

Comprehensive Inspection

**STATUS OF PAST NOTED VIOLATIONS:**

None

**OBSERVED VIOLATIONS**

None

The item(s) listed above were observed by Section staff and require action on behalf of the facility in order to come into or maintain compliance with the Statutes, Rules, and/or other regulatory requirements applicable to this facility. Be advised that pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Laws, Regulations, Conditions of a Permit, or Order under Article 9 of Chapter 130A of the N.C. General Statutes. Further, the facility and/or all responsible parties may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

**ADDITIONAL COMMENTS**

1. The Craig Road Landfill is utilized primarily for the disposal of ash generated by the Belews Creek Steam Station and began operations in February 2008.
2. Approved Operations Plan (listed in Section 2.1.2) allows for the disposal of coal combustion by-products, gypsum produced by the glue gas desulfurization process, waste water treatment sludge produced by the flue gas desulfurization process, and waste limestone/boiler slag/sand blast materials generated by the Belews Creek Steam Station.
3. The facility is operated by The SEFA Group which is responsible for hauling materials to the landfill and conducting other associated activities.
4. Reviewed the current facility Solid Waste Permit and approved Operations Plan (revision date April 2012).
5. Reviewed facility training records. Current certifications include: Kim Hutchinson, Certified Landfill Manager, expires 3/16/17; Wayne Chapman, Certified Landfill Manager, expires 5/19/16; Jason Mabe, Certified Landfill Manager, expires 5/19/16; Jason Mayhew, Certified Landfill Operator, expires 3/18/14; Rob Ervin, Certified Landfill Manager, expires 3/18/14; Jerry Combs Certified Landfill Manager, expires 3/18/14.
6. The facility also conducts annual in-house landfill operations training. The last in-house training was conducted on 12/10/12.
7. The facility has a current Division of Air Quality, Title V Permit.
8. Reviewed financial assurance documentation for the facility. The most recent approval of financial assurance documentation was issued by the Solid Waste Section October, 2012.
9. Reviewed facility operational records.
10. During the month of August 2013 the facility landfilled 19,442.33 tons (18,931.83 tons ash, 510.50 tons of sludges).
11. For the annual reporting period July 1, 2012-June 30, 2013 the facility landfilled 146,585.6 tons.
12. The approved Operations Plan (Section 2.7) does not require detection monitoring for methane and hydrogen sulfide gas. The facility previously monitored for these constituents and the last monitoring event of May 2012 detected no methane or hydrogen sulfide.
13. Reviewed the semi-annual ground water, surface water and leachate monitoring report for the sampling event conducted January 30-31, 2013. Eight ground water wells and two surface water locations were monitored. Ground water well monitoring indicated the presence of Chromium, Iron, and Manganese. The report concluded the presence of these constituents were naturally occurring and not impacts from landfill operations.

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14. The facility is currently operating in Phase 1 (31 acres landfill footprint). As of June 2013, Phase 1 has approximately 4.9 years of remaining capacity at current disposal rates.
15. Construction of Phase 2 (approximately 35 acres) is nearing completion.
16. Observed monitoring wells were found to be assessable, locked, and properly labeled.
17. Leachate and contact water generated by the facility is collected as per approved Operations Plan (Sections 2.2 and 2.3) and discharged into the Belews Creek Steam Station Ash Basin.
18. Facility access roads are of all-weather construction.
19. Water trucks are utilized to control road dust, as needed.
20. Operational cover is being maintained as approved in the facility Operations Plan (Section 2.1.8.1 and Appendix I, Dust Control Plan). Minimal soil is utilized, landfilled materials are moistened and allowed to crust over to prevent windblown material. The facility received approval (1/23/13) to use the same process for intermediate cover.
21. No windblown dust from landfill operations or roadways was noted during the inspection.
22. Side slopes in inactive areas have soil cover and established vegetation. Vegetative growth on side slopes and facility property has been recently mowed.
23. No on-site or off-site erosion observed.

Please contact me if you have any questions or concerns regarding this inspection report.



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 Environmental Senior Specialist  
**Regional Representative**

Phone: 336-771-5093

<b>Sent on:</b> 10/1/13	X	Email		Hand delivery		US Mail		Certified No. <u>  </u>
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Copies: Jason Watkins, Western District Supervisor  
 Jessica Montie, Compliance Officer  
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 Kim Hutchinson, Duke Energy  
 Jason Mabe, Duke Energy