

**FACILITY COMPLIANCE INSPECTION REPORT**  
**Department of Environmental Quality**  
**Division of Waste Management - Solid Waste Section**

<b>UNIT TYPE:</b>											
Lined MSWLF		LCID		YW		Transfer		Compost		SLAS	<b>COUNTY:</b> Stokes <b>PERMIT NO.:</b> 8503-INDUS-1984 <b>FILE TYPE:</b> COMPLIANCE
Closed MSWLF		HHW		White goods		Incin		T&P		FIRM	
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill	<b>X</b>	DEMO		SDTF	

**Date of Site Inspection:** 2/24/2016      **Date of Last Inspection:** 4/27/2015

**FACILITY NAME AND ADDRESS:**

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

**GPS COORDINATES:** N: 36.28420 E: -80.07012

**FACILITY CONTACT NAME AND PHONE NUMBER:**

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

**PARTICIPANTS:**

Shawn McKee, NCDEQ, Solid Waste Section, Environmental Senior Specialist  
 Larry Frost, NCDEQ, Solid Waste Section, Engineering Project Manager  
 Elizabeth Werner, NCDEQ, Solid Waste Section, Permitting Hydrogeologist  
 Kim Witt, Duke Energy  
 Evan Andrews, Duke Energy  
 Will Harrison, Duke Energy  
 Melanie Martin, Duke Energy  
 Jeff Gateley, Duke Energy

**STATUS OF PERMIT:**

Permit to Operate, Original, Issued: December 10, 1984  
 Closure Plan Approval Letter: December 7, 2007  
 Closure Construction, Completed: February 24, 2009  
**Closure Permit Issued: January 16, 2014**

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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 also 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 closed Pine Hall Ash Landfill was utilized primarily for the disposal of ash generated by the Belews Creek Steam Station and ceased receiving waste February, 2004.
2. Initial closure plan approval for the approximately 37.9 acre landfill was issued by the Solid Waste Section on December 7, 2007. Closure and cap construction was conducted April-December 2008. Additional approvals have been issued for landfill cap repairs/refit and assessment monitoring since closure was complete.
3. On October 1, 2015, Duke Energy reported to NCDEQ that two ash boils were discovered that morning on the west slope of the landfill. After an investigation into the causes, on February 25, 2016, Duke Energy proposed a Construction Quality Assurance Plan to modify the cover system. The plan was approved by NCDEQ on February 26, 2016.



Area of investigation on west slope of landfill.

4. The groundwater/surface water monitoring report for the sampling event conducted October 26, 2015 was reviewed during the inspection.

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5. Monitoring wells with previously noted concerns were observed during this inspection. The following observations were noted:

8503-INDUS-1984: Pine Hall Road			
Monitoring Well ID	Well Tag	Concrete Pad	Comments
MW-2	Yes	Yes	Well pad has been replaced
OB-4	Yes	Yes	Well construction information added to well tag
OB-5	Yes	Yes	Well construction information added to well tag
SW-1A	NA	NA	Surface water sample location sign installed
SW-2	NA	NA	Surface water sample location sign installed

- 6. Permanent edge-of-waste markers are in place and being maintained.
- 7. Facility access roads and perimeter roads are well maintained and of all-weather construction.
- 8. Sedimentation and erosion control features are in place and well maintained, no on-site or off-site erosion observed.
- 9. Established vegetative cover observed over the entire landfill. Periodic mowing of vegetative growth is conducted for the facility and landfill cap.

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



Phone: 919-707-8284

Environmental Senior Specialist

<b>Sent on:</b> March 9, 2016		Email: X		Hand delivery		US Mail		Certified No. [ ]
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- Copies:
- Ellen Lorscheider, Section Chief, Solid Waste Section
  - Ed Mussler, Permitting Branch Head, Solid Waste Section
  - Jason Watkins, Field Operations Branch Head, Solid Waste Section
  - Elizabeth Werner, Permitting Hydrogeologist, Solid Waste Section
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  - Jessica Montie, Compliance Officer, Solid Waste Section