



FACILITY COMPLIANCE INSPECTION REPORT
Division of Waste Management
Solid Waste Section

Table with columns for Unit Type (Lined MSWLF, Closed MSWLF, CDLF) and rows for various waste types (LCID, HHW, Tire T&P/Collection, YW, White goods, Tire Monofill, Transfer, Incin, Industrial Landfill, Compost, T&P, DEMO, SLAS, FIRM, SDTF). Includes County: Catawba, Permit No.: CCB0031, File Type: COMPLIANCE.

Date of Site Inspection: June 30, 2016 Date of Last Inspection: July 16, 2015

FACILITY NAME AND ADDRESS:

Duke Energy Carolinas, LLC
Marshall Steam Station - Solar Power Project
8320 East NC Highway 150
Terrell, North Carolina 28682

GPS COORDINATES: N: 35.614395 W: -80.980165

FACILITY CONTACT NAME AND PHONE NUMBER:

Tyler Hardin, 980-373-5697, tyler.hardin@duke-energy.com

Kim Witt, 336-215-4576, kimberlee.witt@duke-energy.com

FACILITY CONTACT ADDRESS:

Same as above

PARTICIPANTS:

- Kyle Baucom - Duke Energy
Tim Russell - Duke Energy
Jeff Jones - Duke Energy
Chris Randazzo - Duke Energy
Tyler Hardin - Duke Energy
Scott LaSalla - Duke Energy
Shawn McKee - NCDEQ, Solid Waste Section
Larry Frost - NCDEQ, Solid Waste Section
Elizabeth Werner - NCDEQ, Solid Waste Section

STATUS OF PERMIT:

Not required - Coal Combustion By-products Structural Fill constructed per 15A NCAC 13B .1700 Solid Waste Rules

PURPOSE OF SITE VISIT:

Comprehensive inspection to ensure that the Structural Fill Facility is in compliance with 15A North Carolina Administration Code (NCAC) 13B. 1700, "Requirements For Beneficial Use Of Coal Combustion By-Products."

STATUS OF PAST NOTED VIOLATIONS:

None.

OBSERVED VIOLATIONS:

None.

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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 Duke Energy Corporation - Marshall Steam Station completed construction of a structural fill project in January 2013 located on the facility property, approximately 1,500 feet north of the FGD Residue Landfill (18-09).
2. Initially approximately 15% of the beneficial use area was covered with a Distributed Solar Photovoltaic (PV) System. Expansion of the PV system could cover as much as approximately 80% of the usable space.
3. Coal combustion by-products utilized on exterior slopes of the structural fill facility shall not have a slope greater than a 3:1 ratio as per 15A NCAC 13B .1705(l). Side slopes appeared to meet this requirement at the time of the inspection.
4. The facility shall be covered with a minimum of 12-inches compacted earth and an additional 6-inches of surface soil capable of supporting native vegetation as per 15A NCAC 13B .1705(j).
5. Final cover is being well maintained. Native vegetation is covering the side slopes and top of the structural fill. No erosion or ponded water was observed during the inspection.
6. Approximately 4,698,500 cubic yards of coal combustion by-products were utilized in the construction of the structural fill.
7. Per the requirements of 15A NCAC 13B .1707, the structural fill has been recorded on the property deed. It was recorded on March 28, 2013 and can be found in Book 03180, Pages 0156-0160.
8. The structural fill was being used for its intended purpose of an operating PV system at the time of the inspection. Various types of PV panels are located on the structural fill for testing purposes.

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



Shawn McKee  
Environmental Senior Specialist  
***Regional Representative***

Phone: 919-707-8284

Sent on: July 15, 2016		Email: X		Hand delivery		US Mail		Certified No. <input type="checkbox"/>
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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
  - Larry Frost, Engineering Project Manager, Solid Waste Section