



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

<b>UNIT TYPE:</b>											
Lined MSWLF		LCID		YW		Transfer		Compost		SLAS	<b>COUNTY: Catawba</b> <b>PERMIT NO.: CCB0031</b> <b>FILE TYPE: COMPLIANCE</b>
Closed MSWLF		HHW		White goods		Incineration		T&P		FIRM	
CDFL		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF	

**Date of Site Inspection:** July 16, 2015      **Date of Last Inspection:** Initial

**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:**

Tim Russell, 828-478-7622, [Tim.Russell2@duke-energy.com](mailto:Tim.Russell2@duke-energy.com)

Kim Hutchinson, 336-215-4576, [Kim.Hutchinson@duke-energy.com](mailto:Kim.Hutchinson@duke-energy.com)

**FACILITY CONTACT ADDRESS:**

Same as above

**PARTICIPANTS:**

- Kim Hutchinson, PE – Duke Energy
- Kyle Baucom – Duke Energy
- Tim Russell – Duke Energy
- Margie Barnes – Duke Energy
- Chris Randazzo – Duke Energy
- Tyler DuBose – Duke Energy
- Scott LaSalla – Duke Energy
- Shawn McKee – NCDENR, Solid Waste Section
- Larry Frost – NCDENR, Solid Waste Section
- Elizabeth Werner – NCDENR, Solid Waste Section
- Deb Aja – NCDENR, Solid Waste Section
- Shannon Aufman – NCDENR, 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.

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**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 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. The structural fill is used for its intended purpose of an operating PV system. Various types of PV panels are located on the structural fill for testing purposes.
4. 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(i). Side slopes appeared to meet this requirement at the time of the inspection.
5. 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).
6. 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.



PV System



Top of fill (well vegetated)

7. Approximately 4,698,500 cubic yards of coal combustion by-products were utilized in the construction of the structural fill.

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8. 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.

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

  
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Phone: 919-707-8284

Environmental Senior Specialist  
***Regional Representative***

<b>Sent on:</b> August 20, 2015		Email: X		Hand delivery		US Mail		Certified No. [ ]
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Copies: Ellen Lorscheider, Section Chief, Solid Waste Section  
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