

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

UNIT TYPE:											
Lined MSWLF		LCID		YW		Transfer		Compost		SLAS	COUNTY: CATAWBA PERMIT NO.: 1809-INDUS- FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods		Incin		T&P		FIRM	
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill	X	DEMO		SDTF	

Date of Site Inspection: September 22, 2015 **Date of Last Inspection:** July 16, 2015

FACILITY NAME AND ADDRESS:

Duke Energy Carolinas, LLC - Marshall Steam Station
 Flue Gas Desulfurization (FGD) Residue Landfill
 8320 East NC Highway 150
 Terrell, North Carolina 28682

GPS COORDINATES: N: 35.60463 W: -80.9774

FACILITY CONTACT NAME AND PHONE NUMBER:

Tim Russell, 828-478-7622, Tim.Russell2@duke-energy.com

Kim Hutchinson, 336-215-4576, Kim.Hutchinson@duke-energy.com

FACILITY CONTACT ADDRESS:

Same as above

PARTICIPANTS:

Tim Russell – Duke Energy
 Chris Randazzo – Duke Energy
 Shawn McKee – NCDEQ, Solid Waste Section

STATUS OF PERMIT:

Original Permit to Construct	April 12, 2006
Modification PTC: HDPE Liner and Cap System	May 22, 2006
Permit to Operate: Phase 1, Cell 1	November 21, 2006
Permit to Operate: Amendment – Five (5) Year Renewal	May 18, 2012
Permit to Operate: Modification, Chimney Drains	December 6, 2013

PURPOSE OF SITE VISIT:

Partial Inspection

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

The facility is an industrial landfill permitted to receive the following waste generated at the facility: gypsum, clarifier sludge, fly ash, bottom ash, construction and demolition debris, mill rejects (pyrites), limestone material, land clearing and inert debris, boiler slag, ball mill rejects, sand blast material, and coal waste. This facility is permitted to receive solid waste generated by or at any Duke Energy Corporation property, as described in the approved plan and as defined in G.S. 130-290 (a)(2b), except where prohibited by the N. C. General Statutes Article 9 of Chapter 130A, and the rules adopted by the Environmental Management Commission.

1. Proper signage is posted at both entrances to the facility in accordance with the approved operations plan.
2. The access road to the site was of all-weather construction and maintained in good condition. A truck wash station has been installed to clean trucks exiting the site.



Ash being hauled to the FGD landfill

3. At the time of the inspection, landfilling operations at the Industrial Landfill No. 1, Permit 18-12 were temporarily ceased, and all coal combustion by-products being landfilled at the facility was going to the FGD Landfill. The landfills are permitted to receive the same waste types. Approximately, 50 trucks a day of ash from the Riverbend Steam Station were also being disposed in the landfill.
4. No wastes were placed in areas of accumulated water and no water was observed ponded over waste.

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5. Gypsum, ash, and mill rejects are placed at the active working face. Wastes at the working face appeared to be landfilled as required: in ten foot layers, spread in lifts no greater than 12 inches, working from upgradient to downgradient areas or as otherwise specified in the Operations Plan. Clarifier sludge may also be placed at the active face and allowed to dry, mixed with ash or gypsum, and spread in thin lifts. High moisture content clarifier sludge is required to be placed no closer than 50 from the active face and spread in-place. At the time of the inspection all landfilled wastes appeared to be spread and compacted as required.

6. Leachate Management: Leachate is transmitted via the collection system to the lined stormwater storage basin located within the permitted landfill footprint. Leachate and stormwater are routed to the Marshall Ash Basin (wet). Three chimney drains have been installed in the center of the landfill to convey leachate to the sump in the stormwater storage basin.

7. Some areas of thin vegetation were observed on the side slopes of the landfill. Seeding of side slopes was scheduled to occur in early October.

8. Dust was well controlled at the time of the inspection.

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



Phone: 919-707-8284

Environmental Senior Specialist
Regional Representative

Sent on: October 23, 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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