



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Dexter R. Matthews

Director

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SOLID WASTE SECTION

June 6, 2009

Mr. Andrew F. Tinsley, Corporate EHS  
Duke Energy Corporation  
EC13K / PO Box 1006  
Charlotte, North Carolina 28201-1006

**Subject:** Notification for Structural Fill – Coal Combustion By-Products  
Duke Energy – Marshall Steam Station  
Industrial Landfill #1 – Ash Landfill  
Permit No. 18-12, Catawba County  
Structural Fill Tracking Number – CCB0072, DIN 7504

Dear Mr. Tinsley:

On June 1, 2009 the Division of Waste Management, Solid Waste Section (Section) received your Notification for Structural Fill of Coal Combustion By-Products at Duke Energy's Marshall Steam Station in Catawba County, entitled;

*Structural Fill Facility Notification – Phase I Construction, Marshall Steam Station Industrial Landfill #1, Duke Energy Carolinas – Marshall Steam Station, Terrell, Catawba County, North Carolina, S&ME Project No. 1356-08-122, S&ME Engineering License No. F-0176. Prepared for Duke Energy. Prepared by S&ME. May 29, 2009. DIN 7503.*

The Section has reviewed the submitted notification and determined that it meets all of the requirements specified in North Carolina Administrative Code 15A NCAC 13B .1700. Furthermore, the notification included the following information as in accordance 15A NCAC 13B .1703:

- (1) **Nature, Purpose and location of the project:** This notification proposes structural fill utilizing coal combustion by-products in landfill development "Stage 2: Cell 1 and 2 Subgrade" and "Stage 5: Cell 3 and 4 Subgrade" of the Marshall Steam Station Industrial Landfill #1 (MSSIL#1). The MSSIL#1 is located north of the Station's powerhouse area, west of Lake Norman and south of Island Point Road. The required USGS Map was included.
- (2) **Estimated start:** Stage 2 of Phase 1 – July 2009  
Stage 5 of Phase 1 – April 2013
- (3) **Estimated completion:** Stage 2 of Phase 1 – March 2010  
Stage 5 of Phase 1 – October 2013

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- (4) **Estimated volume:** Stage 2 of Phase 1 – 385,000 cubic yards on 13 acres  
Stage 5 of Phase 1 – 320,000 cubic yards on 8 acres
- (5) **TCLP analysis from coal ash:** included in the notification
- (6) **Signed statement from the owner:** A signed and dated statement by Duke Energy in included in the notification.
- (7) **Inclusions:**
  - (A) **Coal Combustion By-Products generator:** Duke Energy – Marshall Steam Station
  - (B) **Location of generating plant:** 8320 East NC Highway 150, Terrell, Catawba County, west of Lake Norman.
  - (C) **Mailing address:** 8320 East NC Highway 150, Terrell, North Carolina 28682
  - (D) **Contact:** Ms. Donna Burrell
  - (E) **Telephone number:** (828) 478-7820
  - (F) **Subsequent notification:** Included

Please note that construction may commence on this project and that all construction must be completed in accordance with 15A NCAC 13B .1700 and the submitted notification. Should you have any questions regarding this matter you may contact Mr. Larry Frost at (828) 296-4704.

Sincerely,

Ed Mussler  
Permitting Branch Supervisor  
Solid Waste Section

cc: Deb Aja – SWS/ARO  
CT Gerstell – SWS/MRO  
Donna Burrell – Duke Energy, Marshall Steam Station, 8320 East NC Highway 150, Terrell, North Carolina 28682  
Ken Daly – S&ME