

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES
MOORESVILLE REGIONAL OFFICE

DIVISION OF SOLID WASTE MANAGEMENT

March 16, 1999



JAMES B. HUNT JR.
GOVERNOR

WAYNE MCDEVITT
SECRETARY

Mr. Allen Stowe
Duke Power Group Environmental, Health & Safety
13339 Hagers Ferry Rd.
Huntersville, North Carolina 28078-7929

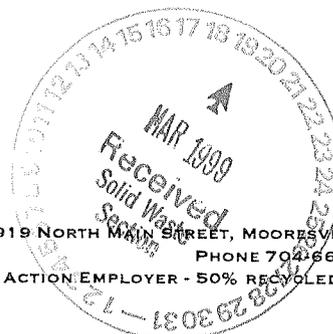
SUBJECT: Marshall Steam Station Solid Waste Management 10-Year Plan
Catawba County, Facility

Dear Mr. Stowe:

The Section has completed the compliance review of Marshall Steam Station's comprehensive Solid Waste Management Plan. It appears that the plan has addressed all the requirements of GS 130 A-309.09A(b). We encourage Duke Power to implement the programs as stated in the plan and to continually review the effectiveness of the plan in meeting your goals and the goals of the State law. The facility should modify the plan as necessary and as conditions change that impact solid waste management.

I would like to remind you that General Statute 130A-309.09A(b) requires that "each plan shall be updated at least every three years." The update would need to be completed no later than July 1, 2000. If conditions change at your facility sufficiently to warrant a substantial update of the plan, it can be done earlier than three years. If you significantly update the plan before that time, your next update will be three years from the time that your update is completed. I will gladly assist you in evaluating the most optimal time to update your plan based on changes in the priorities and infrastructure of Marshall Steam Station.

Thank you and all those at Duke Power who participated in the development and implementation of the plan. If you have any questions concerning this letter or future planning requirements, please do not hesitate to contact me at (704)663-1699, extension 215.



919 NORTH MAIN STREET, MOORESVILLE, NORTH CAROLINA 28115
PHONE 704-663-1699 FAX 704-663-6040

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Page Two

Sincerely,

Anthony B. Foster/de
Anthony B. Foster
Waste Management Specialists
Solid Waste Section

cc: Mr. Julian Foscue, Winston-Salem Regional Office
Mr. Phil Prete, Raleigh

ABF/de



Duke Power
Group Environment, Health & Safety
13339 Hagers Ferry Road
Huntersville, NC 28078-7929

April 20, 1998

Anthony Foster (W.M.S)
Solid Waste Management
919 North Main Street
Mooresville, NC 28115



Subject: Marshall Steam Station Landfill (18-04)
Waste Reduction Plan
Record: 004991-DP

Dear Mr. Foster:

Attached is the Landfill Waste Reduction Plan for the Marshall Steam Station Landfill (18-04) as mandated by GS130A-309.09D(c).

If you have any questions, please contact me at (704) 875-4655.

Allen Stowe, Scientist
Environmental Protection - Waste Management

jas/msswrp

Attachments

cc: Mark Hollis
Donna Burrell
Mike Ruhe
Neale Taylor

**Industrial Waste Landfill Waste Reduction Plan
In accordance with North Carolina GS130A-309.09D**

Name: **Marshall Steam Station**

Permit #: **18-04**

Permit expiration date: **The permit was issued on 12-30-83 and does not contain an expiration date.**

Unit of measure for waste: **Ton**

Projected annual tonnage for the next ten years (volume of ash to be disposed of in the landfill)

- 1 1998 - tons - 100
- 2 1999 - tons - 100
- 3 2000 - tons - 100
- 4 2001 - tons - 100
- 5 2002 - tons - 100
- 6 2003 - tons - 100
- 7 2004 - tons - 100
- 8 2005 - tons - 100
- 9 2006 - tons - 100
- 10 2007 - tons - 100

Expected years of disposal capacity at the current disposal rate:

The Marshall landfill (Permit # 18-04) will reach its designed capacity in the year 2001, about 3 years from now. The final landfill configuration is shown on drawing M-10A and is included in the report dated April 23, 1996. Since that time we have negotiated with our ash management contractor to achieve better utilization of our ash. Based on these negotiations, the disposal of ash in the landfill will be reduced significantly. If the projected use of ash is achieved and maintained the life of the landfill could be indefinite.

Description of waste types disposed of: **Coal Ash**

Waste reduction options:

Several factors impact fly ash production, utilization, and disposal, including: future competition, coal quality, fly ash quality, equipment performance, and future environmental regulations. The projected fly ash production, utilization, and disposal rates are listed in on the attached chart.

Management methods that will be used and implementation schedule for waste reduction:

Utilization combines various uses for ash such as: beneficial fill, incorporation into concrete and concrete blocks, cover material and soil amendments.

The industrial facility's proposal for a waste reduction tracking method that incorporates production rate within its operation:

Ash utilization is tracked extensively as illustrated in attached chart. Fly ash utilization goals are established each year. These goals are normally exceeded.

Description of how the facility will comply with the requirement that all active sanitary landfills be equipped with liners, leachate collection systems and final cover system by 1998:

In response to rule 15A NCAC 13B .0503 SITING AND DESIGN REQUIREMENTS FOR DISPOSAL SITES (2) (d) (i)(ii), Duke Power submitted the requested information to your department on April 23, 1996. In letters dated 9/26/96 and 10/1/96 drawings were requested to indicate the facilities future development. The requested information was submitted to the Section on December 1, 1997. Acknowledgment from the Section will constitute compliance with Rule.503(2)(d)(ii).

Duke Power Company
Projected Fly Ash Production, Utilization, and Disposal (all quantities in thousands of dry tons)
RE: NC House Bill 859 - "Waste Reduction Plan"

Belews Creek	Year-->	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Fly Ash Production		447	472	496	510	483	512	483	514	516	486	519
Fly Ash Utilization		397	422	446	460	433	462	433	464	466	436	469
Fly Ash Disposal to Landfill		50	50	50	50	50	50	50	50	50	50	50

Marshall	Year-->	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Fly Ash Production		413	398	427	451	467	439	422	483	484	486	480
Fly Ash Utilization		313	298	327	351	367	339	322	383	384	386	380
Fly Ash Disposal to Landfill		100	100	100	100	100	100	100	100	100	100	100

- Notes:
1. Several factors impact fly ash production, utilization, and disposal such as future competition (deregulation), coal quality, fly ash quality, equipment performance, and future environmental regulations.
 2. The projected fly ash production, utilization, and disposal rates listed above are best guess estimates at the present time. Duke is under no obligation, regulatory or otherwise, to adhere to the quantities tabulated above.
 3. Fly ash production is directly proportional to coal consumption. Projected coal consumption is information that is proprietary to Duke. Therefore, the fly ash production rates tabulated above shall be treated as proprietary information.