

North Carolina
Department of Environment and Natural Resources

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary
Dexter R. Matthews, Director



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May 16, 2003

Mr. Jeff Newell
Duke Energy
526 South Church Street
Charlotte, NC 28202

Re: Review of Notification for Beneficial Use Structural Fill
Beléws Creek Steam Station
Duke Energy Company
Stokes County, North Carolina

Dear Mr. Newell:

The Solid Waste Section has received the Notification for Beneficial Use Structural Fill for the Duke Power Beléws Creek site submitted by Shield Engineering, Inc on May 7, 2003. Upon the initial review, the following concerns and suggestions need to be addressed. Please respond to these issues.

The main focus of the Section's concern is the grading plan. According to Drawing 2, the proposed grading plan will excavate up to ten feet of soil. Upon talking to a Shield Engineering representative, the excavated soil would be stockpiled and used as cover soils. Other resources for the cover soils will be have to be found. Solid Waste Section policy does not allow mass excavation. However, Section policy does allow excavation of the upper most organic soil layer to remove grass and roots, typically six inches to a foot. The current grading plan will have to be reevaluated and submitted to the Section.

The ash volume calculation displayed in Table 1 is not fully understood. The areas, numbered 1 through 46, with respected area square footage are not displayed on Drawing 3. Where are these areas located?

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Phone: 919-733-0692 \ FAX: 919-733-4810 \ Internet: www.enr.state.nc.us/

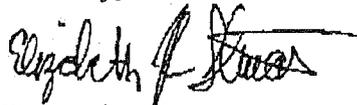
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Drawing 1 does not display the Duke Power property boundary or the coal ash structural fill boundary. Add these boundaries to Drawing 1. Place the property boundary and coal ash structural fill boundary on the appropriate FEMA-FIRM map. If applicable, display the property boundary on Drawings 2 through 4 with the dimensions in feet from the property boundary to the edge of coal ash waste. Drawings 2 through 5 do not display a north arrow for reference. Drawings 2 and 4 do not show the boundary of the extent of the coal ash fill. Drawing 2 and cross section A-A' on Drawing 5 will have to be modified to reflect the new grading plan. Submit these corrected drawings.

The borings logs for TW-3, TW-4 and TW-7, presented in Appendix A, indicate that wells were not set at these boring locations. How were these borings backfilled?

Except for the above comments, this report looks pretty good. If you have any questions or concerns, please feel free to call Jim Barber, Jim Coffey or myself at (919) 733-0692 extension 255, 256 or 346, respectively.

Sincerely,



Elizabeth R. Stewart
Hydrogeologist

Cc: Jim Coffey – Solid Waste Section Chief
Jim Barber – Permitting Branch Head, DWM-Solid Waste Section
Bill Hocutt – DWM-Solid Waste Section
Hugh Jernigan – Waste Management Specialist, Winston-Salem Regional Office
Andrew A. Davis – Shield Engineering, Inc.
Keith A. Anthony, P.E. – Shield Engineering, Inc.