Coal Combustion Residuals (CCR) Rules for Landfill Management

Division of Waste Management, Solid Waste Section
Purpose

• Streamline

• Clarify

• Benefits
History

• September 2014 – Coal Ash Management Act (CAMA)
• April 2015 – EPA CCR Rule Published
• July 2016 – CAMA Updated
• Fall 2016 – DEQ Initial Rule Presentation to the North Carolina Environmental Management Commission
• December 2016 – WIIN Act passed
• March 2018 – DEQ Stakeholder Meetings
• April 2018 – EPA Proposes Federal CCR Rule Changes
• May 2018 – Groundwater and Waste Management Committee Meeting
• July 2018 – Environmental Management Commission Meeting
Location Protections

- Floodplains
- Wetlands
- Fault zones
- Seismic impacts
- Unstable areas
- Cultural resource locations
- Natural and historic preservation
- Water supply watersheds locations
- Endangered species
Design/Construction Requirements

- Horizontal separation
- Separation to groundwater
- Base liner systems
- Leachate collection system
- Monitoring zones
- Construction quality assurance report
Operating Requirements

- Operation plan
- Waste acceptance and disposal
- Spreading and compacting
- Cover material
- Disease/Vector control
- Air criteria (fugitive dust control)
- Erosion and sedimentation control
- Drainage control and water protection
- Stormwater discharges
- Weekly inspections
- Annual inspections
- Certified landfill operator
Groundwater, Surface Water and Gas Monitoring Requirements

- Groundwater detection monitoring
- Detection monitoring analyte list
- Meet 2L at compliance boundary
- Surface water monitoring
- Gas monitoring
Assessment Monitoring and Corrective Action Requirements

• Establish Groundwater Assessment Program
• Assessment Monitoring Constituent List
• Assessment Monitoring Work Plan
• Assessment of corrective measures
• Selection of remedy
• Corrective Action Evaluation Report
Closure and Post-closure

- Written Closure Plan
- Closure by removal of CCR
- Closure Performance when leaving CCR in place
- Final cover system
- Initiation of closure activities
- Post-Closure care
Financial Assurance Requirements

- Financial Assurance for Closure
- Financial Assurance for Post-Closure
- Financial Assurance for Corrective Action
Public Participation and Information

• Fact Sheet of draft permits
• 45-day public notice of permit actions and public hearings
• Public comments
• Local government approval and zoning letter
• Deed notifications (recordation of CCR landfill)
• Reporting to DEQ and public disclosure
• CCR rule compliance data and information public accessible website
• Cumulative impacts on minority and low-income communities
Beneficiation of Coal Combustion Products (CCP)

- Dust control plan
- CCP treatment and processing plan
- Transportation plan
- Incident reporting
- Annual reporting
Timeline

- Aug. 15 – Oct. 15, 2018 – Public comment period
- September 2018 – Public Hearings
  - Sept. 4 – Goldsboro
  - Sept. 20 – Mooresville
  - Sept. 25 – Asheville
  - Sept. 27 – Reidsville
- November 2018 – Hearing officer report of public hearings available
- December 2018 – Approval of CCR Rule by Rules Review Commission
- January 2019 – Proposed effective date of the CCR Rule
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