William & Mary Environmental Law and Policy Review Symposium

Cathy Taylor
Director – Environmental Services
Dominion Resources
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Dominion Environmental Stewardship

• Significant transformation in Dominion fleet has resulted in environmental benefit while still meeting growing demand
• Coal generation is a much smaller portion of generation in fleet yet important for fuel diversity
• Continued safe and environmentally responsible operation is a top priority
About Dominion

Leading provider of energy and energy services in the Midwest, Northeast and Mid-Atlantic regions of the U.S.

- 23,600 MW of electric generation
- 6,400 miles of electric transmission
- 10,900 miles of natural gas transmission, gathering and storage pipeline
- 947 billion cubic feet of natural gas storage operated
- Cove Point LNG Facility
- 2.5 million electric customers in VA and NC
- 1.3 million natural gas customers in OH & WV
- 1.5 million non-regulated retail customers in 10 states (not shown)

*As of January 2015
Total Fleet Balanced, Diverse Fuel Mix

2007 Electric Production by Fuel

- Coal: 51%
- Nuclear: 41%
- Oil: 5%
- Renewables: 2%

2013 Electric Production by Fuel*

- Coal: 37%
- Nuclear: 41%
- Gas: 20%
- Renewables: 2%

*Electric Production by Fuel proportions exclude Non-utility Generation (NUG) under contract.
Dominion’s Renewable Energy Portfolio
Protecting the Environment
Dominion Environmental Expenditures
(in $1,000s 2011-2013 actual, 2014-2015 estimated)
SO2, NOx and Hg (mercury) all >80% lower since 2000 even as demand has risen
COAL ASH MANAGEMENT
Dominion manages its coal ash in a variety of ways in full compliance with state and federal regulations.

<table>
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<tr>
<th>Inactive Ponds</th>
<th>Landfills</th>
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<tbody>
<tr>
<td>Bremo Power Station North, East, and West ponds</td>
<td>Clover Power Station</td>
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<tr>
<td>Chesapeake Energy Center Bottom Ash pond</td>
<td>Mt Storm Power Station</td>
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<tr>
<td>Possum Point Power Station A, B, C, D and E ponds</td>
<td>Yorktown Power Station</td>
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<td><strong>Active Ponds</strong></td>
<td><strong>Virginia City Hybrid Energy Center</strong></td>
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<td>Mt Storm Power Station Low Volume Waste and Pyrite ponds</td>
<td>Chesapeake Energy Center</td>
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<td>Chesterfield Power Station Lower and Upper ponds</td>
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<td>Clover Power Station FGD Sludge ponds</td>
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Inspection and Maintenance for Safety

• Inspections for dam safety by professional engineers annually
  – Ensure dams perform as designed and properly maintained

• Trained environmental professionals conduct quarterly inspections
  – Ensure proper maintenance of structure and identify any corrective measures needed
The 2008 incident in Tennessee heightened diligence to ensure similar incident would not occur

– Dominion performed an engineering study of all of its ponds to ensure no similar conditions or other structural integrity issues existed. None were noted.

– In 2010, an EPA contractor conducted an evaluation of all of Dominion’s coal ash ponds. All of action items have been addressed.

– In addition, additional training for our operations personnel was put in place to ensure effective inspections were implemented.
Inspection and Maintenance for Safety

• February 2014 North Carolina incident
  – Dominion performed an engineering study of all of its ponds, including video inspection of all outlet pipes, to ensure no similar condition or other structural integrity issue existed. None were noted.
  – Inspection protocols and facility self assessments were upgraded and additional training was provided for facility personnel.
CCR Rule

• The final CCR rule has the following primary requirements for owners/operators of CCR landfills and/or ponds:
  – Location restrictions prohibiting the operation of a pond or landfill
  – Design requirements to include liner and structural integrity requirements
  – Operational requirements including fugitive air emissions control, run-on/run-off controls, hydrologic capacity, and inspections
  – Groundwater monitoring and corresponding corrective action
  – Closure and Post-closure
  – Internet posting of compliance data

• Dominion is evaluating the compliance applicability of the rule requirements for all of its facilities.
Bremo Power Station Ash Ponds
Possum Point Ash Ponds
Clover Sludge Ponds
Chesterfield Power Station
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