Possible fight over coal ash cleanup

BY RICHARD REEVE/ABC7 | TUESDAY, MAY 3RD 2016
Dominion set to begin releasing coal-ash water into Quantico Creek

Coal ash water treatment process ‘unprecedented’

by Potomac Local on May 3, 2016 at 6:04 pm
ASH POND
WATER TREATMENT

Chris Colangelo, P.E.

John Glover
Identify Sources of Water

- Surface (Decant) water
- Ash Pore Water
- Rainwater
- Groundwater infiltration
- Plant/Process Water
Properly Constructed Dewatering Devices
Pilot/Feasibility Study

Analytical Results:
- TSS
- Arsenic
- Antimony
- Selenium
- Thallium
- Lead
- Nickel
- Copper

Jar Testing

Sand/Bag Filtration, Media Vessels
Design and Procurement

- How important is it for the system to operate at all times?
- Health and Safety – ~70,000 manhours will be worked! Will they be safe ones?
  - Thousands of feet of hose and piping (Slips and Trips)
  - Frac Tanks and Media Vessels (falls from height)
  - (2) 300 KW Generators, (2) 56 KW Generators (2) 36 KW Generators (Electrocution)
- Contractors guarantee vs At-Risk

**NOT ALL TREATMENT SYSTEMS ARE THE SAME**
Design and Procurement

Three requirements for a ‘real’ price:
1. Flow
2. Constituents of Concern
3. Discharge Requirements
Settling & Aeration
Chemical Injection
Clarification
Filtration
Adsorption and Ion Exchange

Ion Exchange Resin

Activated Alumina
Batch Discharge Process
Permit Compliance & Reporting
Results

As of 7:00 am today >6,000,000 gallons treated and discharged
0 concentration exceedances
0 discharge exceedances
All in-line sampling performed according to permit requirements
0 health and safety incidents
THANK YOU

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