



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 4**

**Subject:                   Situation Report (SitRep) # 8**

**Eden NC Coal Ash Spill**  
**Lat: 36.4958644, Long: -79.7220632**

**To:                         Distribution List**

**From:                     Region 4 Regional Emergency Operations Center**

**Reporting Period:    1600 02/10/2014 to 1600 02/11/2014**

**Introduction**

<b>Site Name:</b>	<b>Eden NC Ash Spill</b>	<b>Location:</b>	<b>Eden, NC</b>
<b>Incident Date:</b>	<b>02/03/2014</b>	<b>Site ID:</b>	<b>B41W</b>
<b>Mobilization Date:</b>	<b>02/03/2014</b>	<b>Start Date:</b>	<b>02/03/2014</b>

**Background**

While conducting a routine security inspection at approximately 1500 hrs on February 2, 2014, security officials at the Duke Energy Plant located in Eden, North Carolina noticed a drop in the levels of the primary coal ash pond. Duke Energy's Environmental Division conducted a subsequent inspection and identified a coal ash release into the Dan River through a storm sewer management pipe. The pipe runs beneath the coal ash pond and drains rainfall off the facility. The pipe is not part of the ash management system. Initial efforts by Duke Energy to stop the flow were unsuccessful, and the North Carolina Department of Environment and Natural Resources (NCDENR) was notified of the release later in the day on February 2, 2014. Upon responding to the scene, NCDENR notified the United States Environmental Protection Agency (EPA) Region 4 and requested EPA assistance in the oversight of cleanup activities. Following coordination with the EPA Region 4 Telephone Duty Officer, two OSCs were deployed to the scene from Atlanta, Georgia. Due to proximity and the potential for cross-regional impacts, an OSC was deployed from EPA Region 3 to provide additional assessment and oversight support.

## **Current Activities**

The following activities occurred during this reporting period:

### **Unified Command**

- EPA Region 4, Duke Energy (Duke), North Carolina Department of Environment and Natural Resources (NCDENR), and the US Fish and Wildlife Service (FWS), the Virginia Department of Environmental Quality (VDEQ) continue to be part of the Unified Command.
- EPA Region 4 Science and Ecological Support Division (SESD) personnel are on site conducting sediment and water quality sampling activities.
- EPA Environmental Response Team (ERT) is assisting UC with planning for near term removal activities associated with the river.
- EPA Site information can be found at [http://www.epaos.org/site/site\\_profile.aspx?site\\_id=9065](http://www.epaos.org/site/site_profile.aspx?site_id=9065)
- Duke Energy Site information can be found at <https://www.duke-energy.com/power-plants/coal-fired/dan-river-response.asp>
- NCDENR Dan River Site Information can be found at <http://portal.ncdenr.org/web/guest/dan-river-spill>

### **Water and Sediment Sampling**

- Water quality sampling is being conducted by Duke, NCDENR, SESD and the EPA Region 4 START Contractor Tetra Tech. Sampling locations include the spill source, several downstream locations, and potable water intakes at the Danville and South Boston, Virginia, water treatment plants (WTP). Duke, and NCDENR sampling results can be found at the aforementioned web sites. EPA Region 4 is developing an EPA website for distribution of EPA analytical data and other site information.
- Region 4 SESD has three teams conducting sampling at locations along the Dan River:
  - Two teams are collecting surface water and sediment sampling from the Danville Dam downstream toward South Boston. Weather permitting SESD anticipates obtaining samples from 10 locations in this area.
  - One team is collecting drinking water samples at the Danville and South Boston WTPs.
- Region 4 EPA START contractor also conducted water sampling at the Danville and the South Boston WTP.

- NCDENR continues to collect water quality samples at four locations, one upstream of the Duke facility and three downstream. The furthest downstream location collected by NCDENR is located at the Virginia/North Carolina border. Sample results are pending.
- VDEQ conducted surface water sampling on the Dan River.
- No impacts to drinking water have been reported by either the Danville or South Boston water treatment facilities.
- The EPA Region 3 OSCs continue to communicate with downstream WTPs, Virginia Department of Health and Virginia Department of Emergency Management.
- EPA Region 4 is currently relaying validated sampling results with its response partners in the field. All validated data is being prepared for future public release in coordination with Region 4 REOC and EPA HQ.
- Duke has received analytical results and has posted the data on its website.

### **Coal Ash Basin Sampling**

- The EPA is waiting for results from the two samples collected from the primary coal ash basin. Samples collected will be analyzed for benzene/toluene/ethylbenzene/xylene (BTEX), Total Metals, and Toxicity Characteristic Leachate Procedure (TCLP) Metals.

### **Mitigation Activities**

- Duke Energy continues to inspect the damaged storm water pipe and prepare grouting plans for the grouting of the entire length of the damaged pipe section.
- USACE and UC approved the Localized Ash Removal Plan to address the large slug of material located at the outfall of the storm drain as it empties into the Dan River. Duke Energy has brought in a contractor begin the ash removal operations. A turbidity curtain will be installed around an ash pile near the discharge and the material will be removed from the shoreline by vacuum truck. This activity is dependent on weather conditions.
- The National Weather Service has issued a Winter Storm Warning for the cities of Eden, NC and Danville and South Boston, VA. There is a potential of 6 to 10 inches of snow fall accumulation from early Wednesday morning through Thursday evening. UC is preparing inclement weather contingency plans and activities may be curtailed during tomorrows operational period.

### **Public Information and Community Involvement**

- The EPA Region 4 CIC is engaged with Duke Energy developing site-specific information updates to inform the community of on-going activities. The EPA Region 4 Office of External Affairs continues to be actively engaged in fulfilling information requests in coordination with external affairs programs in EPA Region 3 and EPA Headquarters.
- Region 3 and Region 4 CICs have scheduled a community briefing in Danville, VA for 02/11/2014 at 1830 hrs at the City of Danville Municipal Building. There is a community briefing scheduled in Eden, NC 02/19/2014.

Due to ice/snow forecast for the area, the community briefing scheduled for 02/13/2014 in South Boston, VA has been rescheduled for next week.

### **Personnel and Work Schedules**

- Crews are working two 12 hour shifts :
  - 0700 hours – 1900 hours
  - 1900 hours – 0700 hours
- Current EPA Personnel On Site:
  - 3 Region 4 On-Scene Coordinators, 1 CIC
  - 3 Region 3 On-Scene Coordinators, 1 PIO
  - 10 SESD (3 SESD will demobe today to ATL)
  - 1 EPA ERT Technical Specialist
  - 4 START
  - 1 QSI Contractor Support

### **STATE Reps**

NCDENR	1
VA DEQ	1

### **Regional Emergency Operation Centers**

- Region 4 REOC personnel are assisting in production of SitReps and providing logistical and resource support.
- Region 3 REOC personnel are coordinating resource and situational support with field personnel and EPA Region 4 REOC.

- The Region 4 Technical Services Section is reviewing sampling results and providing suggestions for additional analyses and comparative values.
- Region 4 External Affairs is working closely with EPA Headquarters to stand up an EPA website for viewing of site information, including summaries of EPA analytical data.
- Region 4 media and regulatory programs are providing support as necessary as requested by the on-scene Incident Management Team.

## **ATTACHMENTS**

**Situation Updates are currently being posted by 1700 each day.**