



TVA Disposal Facility Assessment Phase 1 Plant Summary Johnsonville Fossil Plant (JOF)

Location:	Johnsonville Fossil Plant (JOF) 535 Steam Plant Road New Johnsonville, Humphreys County, TN 37134
	Latitude: 36.035 N Longitude: 87.984 W
Plant Contact:	Tony Dillion Program Administrator Phone: 931-535-8206 Email: ardillion@tva.gov
Facts and Figures:	The Johnsonville Fossil Plant has ten coal-fired generating units. Construction began in 1949 and was completed in 1952. The plant consumes approximately 9,600 tons of coal per day. It is located on the Tennessee River at Kentucky Lake, and is about 35 miles west of Dickson, TN.
Coal Combustion Byproduct Disposal:	Approximately 260,000 tons of fly ash is wet-sluciced to the Active Ash Disposal (Areas 2 & 3) each year. Roughly all of this fly ash is being hauled to an offsite structural fill project. In addition, previously deposited fly ash is being dredged to an internal cell, dewatered and hauled to the offsite structural fill site. Approximately 30,000 tons per year of bottom ash is wet-sluciced to the Active Ash Disposal. Dewatered bottom ash is reclaimed from the Active Ash Disposal and stacked within the pond footprint for later use in the offsite structural fill project.
Geology and Seismicity:	The Johnsonville Fossil Plant is located in west-central Tennessee along the eastern bank of the Tennessee River, just south (upstream) of the confluence of the river and Trace Creek. As such, much of the site is underlain by alluvium and terrace deposits varying in thickness from less than 20 feet along the tributary stream banks up to more than 100 feet within the floodplain of the Tennessee River. The underlying bedrock consists of the Lower Mississippian age Fort Payne Formation and Devonian age Chattanooga Shale and Camden Formations, in general order of descending lithology. The Fort Payne Formation varies from a sandy, cherty limestone in the upper portions of the unit to an interbedded shale and cherty limestone lower in the stratigraphic column. The Chattanooga Shale is a fissile, carbonaceous shale thought to act as an aquitard preventing the downward migration of groundwater, etc. into the underlying Camden formation, the principal aquifer in the region.



TVA Disposal Facility Assessment Phase 1b Byproduct Disposal Facility Summary Johnsonville Fossil Plant (JOF)

The Camden formation consists of thin beds of cherty limestone interbedded with softer clay layers. Previous drilling at the site, discussed in reports and other documentation provided by TVA, suggests the presence of several small faults and a larger fault in the bedrock underlying the plant, as inferred from borehole data in the Camden Formation.

Evaluations of seismic hazards affecting the western portion of middle Tennessee, and thus the plant site, are dominated by events emanating from the New Madrid Seismic Zone (NMSZ) of the central Mississippi Valley. The NMSZ is the most active seismic zone east of the Rocky Mountains and the continuing seismicity of the zone is thought to be associated with the reactivation of faults within the Reelfoot Rift System. Although the majority of the events emanating from this zone are too small to be felt at the surface, this zone produced a series of four earthquakes between December 1811 and early February 1812 each exhibiting estimated magnitudes on the order of 7.0 to 8.0. The "Geologic Hazards Map of Tennessee – Environmental Geology Series No. 5" developed and published by the Tennessee Department of Environment and Conservation (TDEC), Division of Geology and compiled by Robert Miller (1978) shows the plant to be located in Seismic Risk Zone 2.

Facilities Reviewed:

- Active Ash Disposal Areas 2 & 3
- South Railroad Loop Ash Disposal Area 4
- Ash Dredge Pond East of Gas Turbines Area 5
- North Abandoned Ash Disposal Area A



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Active Ash Disposal Areas 2 & 3 (AADA 2&3)**

1. General Facility Information

Facility Status:	Active	NID Identification:	TN08512
Surface Area (inside dikes):	87 acres	Maximum Height (toe to top of dike):	36 feet
Free Water Volume:	Not provided by TVA	Maximum Water Storage:	Not provided by TVA
Estimated CCB Storage:	Not provided by TVA	Dike Length:	10,150 feet
Plant Discharge to Facility:	32 MGD	Current Pool Elevation:	387.5 feet

2. Site Visit Information

Stantec Assessment Team:	Stephen Bickel, PE, Nathan Bader, PE, Josh Kopp, EIT
TVA Staff Present:	Stuart Harris, Tony Dillon
Field Assessment Dates:	January 12, 2009 and February 23 - 25, 2009
Weather/Site Conditions:	Clear, moist ground during both assessments

3. History/Description of Usage

History and Operation: Approximately 260,000 tons of fly ash is wet-sluided to the Active Ash Disposal Areas 2 & 3 each year. Roughly all of this fly ash is being hauled to an offsite structural fill project. In addition, previously deposited fly ash is being dredged to an internal cell, dewatered and hauled to the offsite structural fill site. Approximately 30,000 tons per year of bottom ash is wet-sluided to the Active Ash Disposal Area. Dewatered bottom ash is reclaimed from the Active Ash Disposal Area and stacked within the pond footprint for later use in the offsite structural fill project. Outlet is through the southern spillway which consists of two 48 inch RCP riser pipe/weirs that discharge through two 36 inch RCP sections into Kentucky Lake. The third spillway in this area has been raised and is not in use. Two other sets of spillways used in the past are also



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Active Ash Disposal Areas 2 & 3 (AADA 2&3)**

present; one to the northwest and one set to the southeast. The southeast set of spillways consist of three risers that have been raised and are no longer in use. The northwest set of spillways consists of three risers that were reportedly filled with concrete to abandon them. Ash Disposal Areas 2 & 3 was initially constructed in the late 1960s and was brought into service in 1970. The pond was constructed on an island with an initial 5 to 11 foot tall clay dike (Crest El. 370 feet). The dikes were reportedly raised in the early 1970s an additional 8 feet (Crest elevation 378 feet) using an upstream method with new clay dikes. Again in 1978, the dikes were raised another 12 feet (Crest elevation 390 feet) with clay using upstream methods. In both cases, the raised dikes were constructed over bottom ash placed within the pond as a base. A 4 foot cutoff trench was also excavated along the interior slope face and filled with clay to help tie the two dikes together and minimize seepage.

Past Failures/Releases: No failures or releases reported.

4. Owner's Operations, Maintenance and Inspection Information

Emergency Action Plan: No EAP has been prepared for this facility.

Operations Manual: A Byproducts Operations Manual is available for the Johnsonville Fossil Plant, covering all active facilities.

TVA Maintenance: Exterior slopes mowed twice annually.

TVA Inspections: TVA Engineering performs annual dike inspections and prepares reports for repair/maintenance activities. Plant personnel recently started making daily observations and performing weekly reviews of the disposal facilities at this plant.

Problems Previously Identified During Past TVA Inspections: Seepage along northeast and southeast slopes, animal burrows, heavy vegetation, isolated trees and depressions along exterior slopes at various areas around pond, pond freeboard is less than design, steep exterior slopes, sinkhole formed in the past above the south discharge pipes, abandoned weir structures, minimal storage capacity.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Active Ash Disposal Areas 2 & 3 (AADA 2&3)**

5. Documents Reviewed

See attached Document Log for complete list of documents provided by TVA for review. In particular, the following provided pertinent information for the assessment of this facility:

TVA Design Drawings:	Drawing numbers 10W527, 527-1, 527-2, 528, 529, 10N502, 503, 524, 528, 529, 531, 10E200-01, JOFNC01, 604B887R0, 604K861R1, 604K862R0, 604K881R0 through 886R0, KY Lake Safety Harbor 1 and 2, 461K509.
TVA As-Built Drawings:	Some previous dikes are shown on the drawings listed above, but are not documented as being as-built.
TVA Construction Testing Records:	None available.
TVA Annual Inspection Reports:	TVA Annual Inspection Reports 1970 to 2008.
Geotechnical Data:	"Johnsonville Steam Plant-Ash Disposal Area No. 2 Dike Raising, Soil Exploration and Testing", Memorandum from G. Farmer to G.L. Buchanan, November 22, 1977. "Report of Geotechnical Evaluation: Ash Pond Dike: New Johnsonville Plant", Law Engineering, January 1994. "Subsurface Exploration Data: TVA Borings at Johnsonville Fossil Plant", Law Engineering, October 11 1994. "Report of Subsurface Exploration and Stability Analysis, Johnsonville Fossil Plant Ash Disposal Area, New Johnsonville", Law Engineering and Environmental Services, Inc., September 19, 1997. "Report of Ash Pond Investigation: Johnsonville Fossil Plant, New Johnsonville, Tennessee", MACTEC Engineering and Consulting, August 28, 2003 "Results of Laboratory Testing-Grab Samples from Active Ash Pond", performed by Law Engineering, July 1995.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Active Ash Disposal Areas 2 & 3 (AADA 2&3)**

"Johnsonville Steam Plant-Ash Pond-Soil and Foundation Exploration", Memorandum from J.C. McGraw to F.P. Lacy, TVA, September 17, 1969.

"Johnsonville Groundwater Assessment", TVA Resource Group, Engineering Services, March 1995.

"Geology of the New Johnsonville Steam Plant Site", TVA Water Control Planning Dept., Geologic Division, January 14, 1948.

6. Stantec Field Observations

See attached Concerns/Photo Log, Photos, and Site Plan Drawing.

6.1. Interior Slopes

Vegetation:	Tall grass, phragmites, dense coverage.
Trees:	None observed.
Wave Wash Protection:	Rip-rap slope protection present within portions of the pond (primarily within stilling pond and portions of the divider dikes).
Erosion:	Few locations of wave erosion, size and length vary.
Instabilities:	None observed.
Animal Burrows:	None observed.
Freeboard:	Measured: 2 feet. at Section 7 Design: 4 feet
Encroachments:	Dewatering of fly ash and bottom ash is performed internally within the central portion of the pond.
Slope:	Measured: 2.0H:1V (Estimated) Design: 2.0H:1V (from drawing 10W527)



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Active Ash Disposal Areas 2 & 3 (AADA 2&3)**

6.2. Crest

Crest Cover and Slope:	Gravel access road, crest appeared relatively flat.
Erosion:	None observed.
Alignment:	Alignment appeared consistent with design drawings.
Settlement/Cracking:	None observed.
Bare Spots/Rutting:	None observed.
Width:	Measured: 23 feet at Section 7 20 feet at Section 10 Design: 16 feet for perimeter dike (from drawing 10W527)

6.3. Exterior Slopes

Vegetation:	Mostly grass with briars in various areas, adequate coverage. Briars have taken over slopes in the past and will continue to do so if not cleared regularly.
Trees:	Trees have been removed from majority of exterior slopes with the exception of those areas along the toe of the dike along the southern end of the pond.
Erosion:	Erosion rills, transverse depressions observed in various areas.
Instabilities:	Some minor shallow sloughing observed primarily along the eastern side of the pond.
Uniform Appearance:	Slopes appear fairly uniform.
Seepage:	Significant seepage along northeast and southeast dikes. Seepage collection system recently installed along southeast dike for better monitoring. Wet areas are present within the seepage areas observed. Standing water along the access road at the toe of the northeast dike was also observed.
Benches:	Benches observed along the northwestern portions of the dike. These benches appear to have been constructed for access by equipment to make repairs in the past.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Active Ash Disposal Areas 2 & 3 (AADA 2&3)**

Foundations, Drains, Relief Wells, Instrumentation:	No provisions for drainage/seepage control or instrumentation were observed with the exception of the recently installed seepage collection system on the southeast dike.
Animal Burrows:	Numerous animal burrows observed throughout the majority of the dike on all sides.
Slope:	<p>Measured: 1.7H:1V at Sections 7, 8, 10, and 11 1.5H:1V at Section 9</p> <p>Design: 2.0H:1V with 3H:1V or flatter slopes below Elevation 378 feet (from drawing 10W527)</p>
Height:	<p>Measured: Varies 20 to 30 feet</p> <p>Design: Approximately 30 feet (from drawing 10W527)</p>

6.4. Spillway Weirs/Riser Inlets

Number:	Three sets of 3 spillways; one set to the northwest (abandoned), one to the southeast (raised but not closed), and the current active set to the southwest.
Size, Type and Material:	48 inch RCP push-together riser sections with standard TVA steel skimmers.
Height of Riser Inlets:	Approximately 36 feet for the current active spillways.
Access:	Catwalk present to northernmost active spillway. No other access to current or abandoned spillways observed.
Joints:	Unable to observe joints or leakage below inlet level.
Mis-Alignment:	None observed or reported.
Closed/Abandoned Conduits:	The three spillways to the northwest were reportedly closed by filling them with concrete. Ash was covering these spillways at the time of this assessment and they could not be reviewed. The three spillways to the southeast were raised but no further efforts to close these structures were reported. The center spillway within the active set was raised and taken out of service due to what was believed to be joint separation in the discharge



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Active Ash Disposal Areas 2 & 3 (AADA 2&3)**

pipe which caused a sinkhole to form along the exterior dike slope. Efforts were made to slip line this spillway but were unsuccessful.

6.5. Outlet Pipes

Number:	Three (3) abandoned to the northwest Three (3) currently out of service to the southeast Two (2) active and 1 out of service to the southwest
Size, Type and Material:	36 inch RCP
Headwall:	None observed or reported.
Joint Separations:	Separation in the central discharge pipe within the southwest set of spillways reported resulting in sinkhole on exterior slope. Slope was reportedly repaired. Efforts were made to slip line the pipe but were unsuccessful. The spillway was raised and taken out of service.
Mis-Alignment:	None observed.
Closed/Abandoned Conduits:	7 of 9 spillways have been taken out of service or closed as described above.

7. Notable Observations and Concerns

- The absence of an Emergency Action Plan, Operation and Maintenance Plan, as-built drawings and construction testing records is a concern.
- RCP push-together stacked riser structure spillways are a concern. A significant volume of water passes through the two open spillways with surging observed at the discharge into Kentucky Lake. The surging noted increases the potential for piping and internal erosion of the dike at joints in the discharge pipes. Document reviews indicate that in the late 1980s and early 1990s, sinkholes formed along the outslope below the current active spillways. It is believed that joint separation along the buried discharge pipes caused the subsidence. The area was repaired with rip-rap and the slope restored. No further documentation indicating that a detailed evaluation of the damaged structures was performed.
- Significant seepage present along the southeast and east dikes is a primary concern. A new seepage collection system has been installed along the toe of the southeast dikes with a single outlet for better monitoring. Continued evaluation of these seepage areas will be required.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Active Ash Disposal Areas 2 & 3 (AADA 2&3)**

- The perimeter dike outer slopes, particularly those along the east and southeast dikes are steep. Slopes of about 1.7H:1V were measured along the east and southeast sides of the perimeter dike. In addition, the hummocky and uneven surfaces that exist in several areas may be evidence of shallow slope movement (creep). Slope stability is a concern.
- Raising the dikes by using upstream construction over sluiced ash is a potential slope stability concern.
- The composition of the perimeter dikes and foundation materials are unknown. Considering the perimeter dike's steepness, height, and areas of seepage, it is a concern that the composition and engineering properties of the foundation and dike materials are largely unknown.
- The pond is operating at a high level with freeboard of about 2 feet or less. This is a primary concern when considering the seepage areas, slope stability issues, unknown composition of the dike and foundation materials, and potential for overtopping that is present.
- There are two sets of abandoned weir structures within the active pond. The first set is located to the northwest and the second is located along the southeast side of the pond. Each set has three structures. The freeboard at these abandoned structures is minimal, and the methods used for closing the northwest set of structures are relatively unknown. The southeast set of spillways have not been closed but have merely been raised to take them out of service.
- Animal burrows were noted along the perimeter dike faces in several areas. The animal burrows are abundant and have been reported for several years.
- Shallow depressions were observed in several areas on the perimeter dike outer slope along the west side. These depressions have been observed for several years and could be attributed to tree removal.
- There are several shallow transverse depressions and erosion rills on the southeast dike outer slope. The rills and depressions begin immediately below the crest and extend to the toe of slope in most cases. These are likely erosion rills even though there does not appear to be evidence of concentrated runoff from the dike road in these areas.
- Some rutting was observed along the toe of the east perimeter dike. The rutting was previously reported in annual inspections and is likely due to traffic within the seepage areas in this area.
- Phragmites are present on some of the divider dikes, the interior pond slopes and at exterior slope seepage areas where ground is soft.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Active Ash Disposal Areas 2 & 3 (AADA 2&3)**

- Trees are located along the toe of the perimeter dike slopes along the southwest and southeast portions of the pond. The trees are beginning to infringe upon the toe in these areas. In addition, briars are beginning to re-establish along the toe and outer slopes of the pond in these areas.
- Previous inspection reports appear adequate, but there is a trend of not all maintenance recommendations being executed.

8. Recommendations

8.1. Phase 2 Engineering and Programmatic Recommendations

- It is recommended that the perimeter dikes for Active Ash Disposal Areas 2 & 3 undergo further engineering study to evaluate slope stability and seepage. This slope stability program is currently underway at the Active Ash Disposal Areas 2 & 3.
- In addition to the slope stability evaluation being performed, it is recommended that a hydraulic and hydrologic study be performed to evaluate freeboard and pond outlet adequacy relative to process flow and stormwater. Currently, new spillways are being designed that should incorporate these analyses.
- It is recommended that the abandoned weir structures within Active Ash Disposal Areas 2 & 3 be evaluated and a plan prepared to properly close these structures.
- A plan is currently being prepared to lower the pool in Active Ash Disposal Areas 2 & 3 to allow for installation of a new spillway structure. Routine repairs and monitoring of the spillway systems should be continued until replacement is complete. Once the new spillway is in place, a plan should be prepared for proper closure of the old RCP stacked riser spillways.
- The seepage observed along the toe of the perimeter dike at the east side of Ash Disposal Area 2 & 3 should continue to be monitored. A seepage monitoring point should be installed similar to the collection system installed on the toe of the southeast dike.
- Because the active ash disposal pond is nearing capacity and there are significant concerns relative to the integrity of the structure, it is recommended that a new permitted disposal facility be identified and permitted as soon as possible.
- It is recommended that the existing Operations and Maintenance Manual be updated for this facility.
- It is recommended that a program to develop as-built drawings and construction records for future maintenance and construction activities be established.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Active Ash Disposal Areas 2 & 3 (AADA 2&3)**

8.2. Maintenance Recommendations

- Remove trees from noted locations at Ash Disposal Areas 2 & 3 and repair slopes as needed following tree removal. To minimize damage to the toe and slopes, rip rap should be placed along the slopes once tree removal is complete to protect against wave action.
- Cut and maintain heavy, tall phragmites growth on interior slopes of ponds to allow better observation.
- The plant should continue best management practice of repairing areas of erosion, animal burrows, depressions, etc. and covering and seeding exposed areas within the Active Ash Disposal Areas 2 & 3. The areas should continue to be monitored and repairs made as conditions warrant.
- Due to the history of heavy vegetation along the perimeter slopes of the Active Ash Disposal Area and the presence of some briars and heavier growth along the out-slopes, the plant should consider mowing these areas more than twice a year.
- The seepage observed along the toe of the perimeter dike at the northeast side of Ash Disposal Area 2 should continue to be monitored. A seepage monitoring point consisting of a collection system and weir box or similar structure should be installed.
- Continue annual inspection program and execute recommendations.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
South Railroad Loop Ash Disposal Area 4 (CDA)**

1. General Facility Information

Facility Status: Closed

Surface Area:	95 acres	Maximum Height (toe to top of stack):	70 feet
---------------	----------	---------------------------------------	---------

2. Site Visit Information

Stantec Assessment Team: Stephen Bickel, PE, Nathan Bader, PE, Josh Kopp, EIT

TVA Staff Present: Stuart Harris, Tony Dillon

Field Assessment Dates: January 12, 2009 and February 23 - 25, 2009

Weather/Site Conditions: Clear, moist ground during both assessments

3. History/Description of Usage

History, Operation and Stacking Plan:

Construction of the South Railroad Loop Ash Disposal Area 4 began in 1981. The disposal area was originally constructed in three parts; two dredge cells and a dry waste area. The perimeter dike for the areas was constructed of soil and rock to elevation 400 feet and was later raised to elevation 408 feet. One dredge cell within the disposal area was located along the southwest corner and the second was located along the east side of the disposal area. Two stilling ponds ("C" and "D") were located along the north portion of the disposal area and used when the dredge cells were in service. Pond "D" contains a Type B spillway which consist of a RCP riser and outlet pipe. Pond "C" has a wooden weir box and RCP outlet pipe which drains to Pond "D". The dredge cells were apparently raised using upstream techniques with ash dikes and received dredged ash from Ash Area 2 until they were filled. Later, dry stacking operations commenced in various portions of the disposal area over the previous dredge cells and within the northwestern portion of the disposal area where no dredge cell existed. The dry stacking operation followed a stacking plan developed in 1996. By 2000, dry stacking operations within the disposal area were complete and the area was covered with soil and vegetated for closure. A 40 mil. liner cover was also incorporated into closure of portions



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
South Railroad Loop Ash Disposal Area 4 (CDA)**

of the disposal area. The existing stacks are considerably different in height. This is attributed to the power lines present over the disposal area. A buffer was kept between equipment and the power lines and as a result, ash was stacked as high as the power lines allowed. The maximum height is along the east side and is approximately 70 to 80 feet in height. Plans for the stacking included 3H:1V slopes with benches every 30 to 40 feet in height.

Stacking over Dredge Cells or CCB Ponds:

Portions of the disposal area were used as dredge cells. These areas were located in the southwest corner and along the east side. These dredge cells operated until they were filled and then closed. Stacking operations were later performed above these structures with the majority of the stacking occurring over the eastern dredge cell.

Past Failures/Releases:

No failures or releases reported..

4. Owner's Operations, Maintenance and Inspection Information

TVA Maintenance:

Exterior slopes mowed annually.

TVA Inspections:

TVA Engineering performs annual dike inspections which include the old disposal area and prepares reports for repair/maintenance activities. Plant personnel recently started making daily observations and performing weekly reviews of the disposal facilities at this plant.

Problems Previously Identified During Past TVA Inspections:

Throughout the years, areas of erosion, washouts, seepage, sedimentation in drainage features, and lack of vegetative cover have been identified around various portions of the disposal area.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
South Railroad Loop Ash Disposal Area 4 (CDA)**

5. Documents Reviewed

See attached Document Log for complete list of documents provided by TVA for review. In particular, the following provided pertinent information for the assessment of this facility:

TVA Design Drawings:	Drawing numbers 10W532-1 through 532-10, 532-17, 532-20 through 532-24, 10W219, 10W530-1 through 530-4, 461K509 E4 and E5, and STEP Inc. Plans for Solid Waste Disposal Facility (3 sheets).
TVA As-Built Drawings:	Drawings 10W532-20 through 532-24
TVA Construction Testing Records:	None available.
TVA Annual Inspection Reports:	TVA Annual Inspection Reports 1981 to 2008.
Geotechnical Data:	"Final Closure Report, Area 2 of the Dredged Ash Disposal Facility (Rail Loop Area), Johnsonville Fossil Plant", Beaver Engineering, Inc. 1994. "Closure/Post Closure Plan, Dredged Ash Disposal Facility (Rail Loop Area), TVA, Johnsonville Fossil Plant", Tribble and Richardson, Inc. and Law Engineering, August 1991. "Hydrogeology of Rail Loop Dredged Ash Tacking Area, TVA New Johnsonville Fossil Plant", TVA Engineering laboratory, September 1997. "Johnsonville Groundwater Assessment", TVA Resource Group, Engineering Services, March 1995. "Geology of the New Johnsonville Steam Plant Site", TVA Water Control Planning Dept., Geologic Division, January 14, 1948.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
South Railroad Loop Ash Disposal Area 4 (CDA)**

6. Stantec Field Observations

See attached Concerns/Photo Log, Photos, and Site Plan Drawing.

6.1. Exterior Slopes and Benches

Vegetation:	Grassy vegetation established throughout majority of existing disposal area with the exception of small areas where recent erosion has occurred. The original perimeter starter dike is heavily vegetated with trees throughout.
Trees:	The original perimeter starter dike has mature trees present throughout. Some smaller trees were also observed along various areas within the interior and top of the disposal area.
Erosion:	Numerous areas of erosion were reported in past annual inspection reports. Some of these areas have been repaired while some new areas have developed. These areas included numerous washouts, erosion rills along the slopes, benches and drainage features, and animal burrows.
Instabilities:	Several areas of shallow sloughing and instability are present throughout the original starter dike along the south and southwest sides.
Uniform Appearance	The disposal area consists of varying stacking and pond heights and is not uniform especially where erosion has occurred. The appearance is relatively poor along the majority of the original starter dike, where erosion and sloughing has occurred.
Benches:	Benches are present at varying levels throughout the disposal area. Along the east stack area, the benches generally serve as a drainage ditch for runoff. Some standing water, erosion and sedimentation was observed at various locations along the benches.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
South Railroad Loop Ash Disposal Area 4 (CDA)**

Slope: Design: 3H:1V exterior and 2H:1V interior slopes are shown for the original starter dike (from drawing 10W530-2). For the dry stack slopes to the east, 3H:1V slopes are shown (from drawing 10W532-10). Within Stilling Pond "D", 2.5H:1V interior and exterior slopes are shown (from drawing 10W530-2).

Measured: 3.0H:1V along eastern stack area at Section 2. 1.3H:1V along original starter dike at Section 3. 2.7H:1V along pond/stack slope in southwest corner of disposal area at Section 3. 2.7H:1V along stack in northwest corner of disposal area at Section 4. 2H:1V along stilling pond slopes (Estimated).

Height: 70 feet at eastern stack area (estimated).
15 to 20 feet along original starter dike (estimated).
40 to 50 feet at northwestern stack (estimated).
35 to 40 feet at pond/stack in southwest corner of disposal area (estimated).

Other: None.

6.2. Perimeter Drainage Ditches and Down-Drains

Vegetation: The drainage ditches throughout the disposal area have grassy vegetation except for areas that have eroded.

Rip-Rap Channel Lining: Rip-rap was observed in various drainage swales throughout the disposal area. It is believed that the majority of these rip-rap areas were a result of previous erosion that occurred.

Erosion: Erosion areas including washouts and rills were noted at various areas along selected drainage ditches.

Siltation in Ditches: Some siltation was present in various ditches throughout the disposal area.

Standing Water in Ditches or on Benches: Standing water was observed within some of the drainage ditches throughout the disposal area and along portions of the benches within the eastern stack area.

Silted/Impeded Drainage Pipes: None observed.

Other: None.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
South Railroad Loop Ash Disposal Area 4 (CDA)**

7. Notable Observations and Concerns

- The absence of an Operation and Maintenance Plan, as-built drawings and construction testing records is a concern.
- This disposal area consisted of a combination of dredging and stacking operations. Based on the documents reviewed, several dredge ponds were used to dispose of ash prior to dry stacking and ultimate closure of the facility. The original starter dike along the southwest and south sides is very steep and overgrown. The slopes are as steep as about 1.5H:1V in parts. Some shallow sloughing and fallen trees are present throughout.
- Several areas requiring maintenance activities were observed throughout the disposal area. These areas included erosion rills, washouts, some animal burrows, and standing water in various portions of the disposal area. These areas are typical of the deficiencies observed in previous inspections. Previous inspection reports appear adequate, and the majority of the recommendations for repairs to the disposal area were attempted. Due to the drainage conditions and erosive nature of the materials used to construct the disposal area and final cover, continued erosion has occurred even after the previous repairs were made. It is expected that maintenance will need to be executed each year to repair eroded areas, washouts, etc.
- In addition to the trees observed along the original starter dike, some small trees were observed along various portions of the disposal area.

8. Recommendations

8.1. Phase 2 Engineering and Programmatic Recommendations

- It is recommended that an Operations and Maintenance Plan be developed for the facility.
- It is recommended that a program be established to develop as-built drawings and construction records for future maintenance and construction activities.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
South Railroad Loop Ash Disposal Area 4 (CDA)**

8.2. Maintenance Recommendations

- Refer to the current Annual Inspection Report for repair locations and instructions for the disposal area. The plant should continue best management practice to mow and maintain the exterior slopes and top of the disposal area to allow for better assessment of the facility. This includes cutting and maintaining vegetation, tree removal, repairs of erosion areas, etc.
- Continue annual inspection program and execute recommendations.



TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Dredge Pond East of Gas Turbines Area 5 (CDA)

1. General Facility Information

Facility Status:	Inactive	NID Identification:	Not Available
Surface Area (inside dikes):	35 acres	Maximum Height (toe to top of dike):	36 feet
Free Water Volume:	N/A	Maximum Water Storage:	N/A
Estimated CCB Storage:	Unknown	Dike Length:	4,400 feet
Plant Discharge to Facility:	N/A	Current Pool Elevation:	Currently closed.

2. Site Visit Information

Stantec Assessment Team: Stephen Bickel, PE, Nathan Bader, PE, Josh Kopp, EIT
 TVA Staff Present: Stuart Harris, Tony Dillon
 Field Assessment Dates: January 12, 2009 and February 23 - 25, 2009
 Weather/Site Conditions: Clear, moist ground during both assessments

3. History/Description of Usage

History and Operation: The Ash Dredge Pond East of Gas Turbines Area 5, also known as the Dupont Dredge Cell, was built in the late 1980s or early 1990s and is currently closed. It is located east of the Gas Turbines and northeast from the South Railroad Loop Ash Disposal Area. The cell was constructed with 10 to 12 foot tall perimeter clay dikes (Crest elevation 413.5 feet). The drawings indicate the interior of the cell was also excavated down to elevation 393 feet for additional storage. An impervious clay liner was also reportedly used along the bottom of the cell. The dikes were raised once in Phase 2 to elevation 428 feet by upstream methods using ash. In the late 1990s and early 2000s, dry stacking was performed to complete disposal in this cell. The spillway was located along the south portion of the cell and consisted of a wooden weir box with a 18 inch diameter corrugated HDPE pipe. The pipe was gravity drained along the adjacent roadway to



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Dredge Pond East of Gas Turbines Area 5 (CDA)**

stilling pond C within the South Railroad Loop Ash Disposal Area. The cell was covered with soil, vegetated, and closed in the early 2000s. According to documentation, the spillway was removed and the outlet pipe was plugged and sealed. To prevent rainfall from percolating down into the closed cell, an evapotranspiration plan was submitted and installed in 2005. The plan consisted of planting trees along the crest of the closed cell.

Past Failures/Releases: No failures or releases reported.

4. Owner's Operations, Maintenance and Inspection Information

Emergency Action Plan: No EAP has been prepared for this facility.

Operations Manual: No OM has been prepared for this facility.

TVA Maintenance: Due to the planting of trees for the evapotranspiration plan, mowing is not performed along the crest of the closed cell.

TVA Inspections: TVA Engineering performs annual dike inspections and prepares reports for repair/maintenance activities. Plant personnel recently started making daily observations and performing weekly reviews of the disposal facilities at this plant.

Problems Previously Identified During Past TVA Inspections: Seepage has been reported along the crest of the original perimeter dike for years. This seepage has been attributed to a "bathtub" effect caused by rainfall percolating into the cell and filling up the cell above the original impervious liner.

5. Documents Reviewed

See attached Document Log for complete list of documents provided by TVA for review. In particular, the following provided pertinent information for the assessment of this facility:

TVA Design Drawings: Drawing numbers 10W218-1 through 218-5, 218-7, 218-8, 10W3264, 10E202-1.

TVA As-Built Drawings: None available.

TVA Construction: None available.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Dredge Pond East of Gas Turbines Area 5 (CDA)**

Testing Records:



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Dredge Pond East of Gas Turbines Area 5 (CDA)**

TVA Annual
Inspection Reports:

TVA Annual Inspection Reports 1987 to 2008.

Geotechnical Data:

"Johnsonville Fossil Plant - Offsite and Onsite Dredge Fly Ash Storage Areas Addendum", Singleton Materials Engineering Laboratory, April 18, 1988.

"Report of Supplemental Hydrogeologic Activities - Proposed Dredged Ash Disposal Cell, TVA, New Johnsonville Steam Plant, New Johnsonville, Tennessee", Law Engineering, January 7, 1992.

"Report of Subsurface Exploration, Ash Disposal Area, Johnsonville Fossil Plant, New Johnsonville, Tennessee", Law Gibb Group, November 30, 2000.

"Report of Engineering Services, Ash Dredge Cell Earth Cap Project, Johnsonville Fossil Plant, New Johnsonville, Tennessee", Law Gibb Group, October 26, 2001.

"Offsite and Onsite Fly Ash Storage-Material Evaluation, Johnsonville Steam Plant", GGEG Calculations, March 1988.

"Johnsonville Groundwater Assessment", TVA Resource Group, Engineering Services, March 1995.

"Geology of the New Johnsonville Steam Plant Site", TVA Water Control Planning Dept., Geologic Division, January 14, 1948.

6. Stantec Field Observations

See attached Concerns/Photo Log, Photos, and Site Plan Drawing.

6.1. Interior Slopes

Vegetation: No interior slopes.

Trees: N/A

Wave Wash Protection: N/A

Erosion: N/A



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Dredge Pond East of Gas Turbines Area 5 (CDA)**

Instabilities:	N/A
Animal Burrows:	N/A
Freeboard:	Measured: Cell currently closed. Design: 2 feet (from drawing 10W218-1)
Encroachments:	None observed.
Slope:	Measured: N/A Design: 2.0H:1V (from drawing 10W218-1)

6.2. Crest

Crest Cover and Slope:	Cell has been closed and covered with soil. Vegetation and some trees are established throughout the majority.
Erosion:	Minor erosion observed in various areas along the crest of the starter dike and top of the cell.
Alignment:	Alignment appears consistent with design drawings.
Settlement/Cracking:	None observed.
Bare Spots/Rutting:	None observed.
Width:	Measured: Unknown Design: 16 feet for original started dike (from drawing 10W218-1)

6.3. Exterior Slopes

Vegetation:	The exterior slopes are vegetated with a heavy stand of grass and phragmites.
Trees:	Trees were observed along the exterior slope in the north end of the cell and in various areas along the crest of the original starter dike and top of the closed cell.
Erosion:	Minor erosion was observed in various areas along the starter dike and the upper Phase 2 dike. A few animal paths were also observed in various areas along the exterior slopes and crest.
Instabilities:	None observed.
Uniform Appearance:	Exterior slopes are uniform with various areas of erosion.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Dredge Pond East of Gas Turbines Area 5 (CDA)**

Seepage:	Seepage was observed along the crest of the original starter dike around the entire perimeter of the cell. Heavy stands of phragmites are present throughout the crest of the starter dike due to the wet, soft ground conditions. This seepage has been reported for several years and originally started in the north portion of the cell. The seepage has continued to extend farther around the cell for years and appears to have completely surrounded the cell at this point.
Benches:	Crest of original starter dike appears as a bench below the Phase 2 dike above.
Foundations, Drains, Relief Wells, Instrumentation:	No provisions for drainage/seepage control, or instrumentation were observed
Animal Burrows:	None observed.
Slope:	Measured: 2.5H:1V for starter dike and 3H:1V or flatter for upper Phase 2 dike at Section 1 Design: 3.0H:1V for starter dike and 4H:1V for Phase 2 dike (from drawing 10W218-5).
Height:	Measured: 19 feet for starter dike at Section 1 Design: 20 feet or less for starter dike and 14.5 feet for Phase 2 dike (from drawings 10W218-1 and 218-5)

6.4. Spillway Weirs/Riser Inlets

Number:	One (1)
Size, Type and Material:	Wooden weir and wooden riser spillway.
Height of Riser Inlets:	10 to 12 ft. (from drawing 10W218-1).
Access:	Unknown.
Joints:	Unknown.
Mis-Alignment:	Unknown.
Closed/Abandoned Conduits:	Spillway was reportedly removed for closure of the cell.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Dredge Pond East of Gas Turbines Area 5 (CDA)**

6.5. Outlet Pipes

Number:	One (1)
Size, Type and Material:	18 inch Corrugated HDPE gravity drain pipe
Headwall:	None reported.
Joint Separations:	None reported.
Mis-Alignment:	None reported..
Closed/Abandoned Conduits:	Outlet pipe was reportedly plugged and sealed for closure of the cell.

7. Notable Observations and Concerns

- The absence of an Operation and Maintenance Plan, as-built drawings and construction testing records is a concern.
- Significant seepage is present along the bench separating the starter dike from the remainder of the cell. Records indicate that a liner was installed within the bottom of the cell during construction. Since that time, the cell has been closed with a soil cover with the top exposed to rainfall. Over the years, rainfall has saturated the cell resulting in the seepage observed on the upper bench. Trees have been planted along the top of the cell as part of an evapotranspiration project in an effort to limit the amount of rainfall that ends up percolating through the cell. These efforts have not remedied the seepage and it is continuing.
- Some trees were observed along various portions of the outer starter dike slopes surrounding the disposal area. In addition, the vegetation on this facility is waist high throughout the crest and slopes. Heavy stands of phragmites are present where wet ground conditions were observed.

8. Recommendations

8.1. Phase 2 Engineering and Programmatic Recommendations

- It is recommended that an Operations and Maintenance Plan be developed for this facility.
- It is recommended that a program to develop as-built drawings and construction records for future maintenance and construction activities be established.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
Dredge Pond East of Gas Turbines Area 5 (CDA)**

8.2. Maintenance Recommendations

- The seepage observed around the Ash Dredge Pond East of Gas Turbines Area 5 should continue to be monitored. A seepage collection system should also be planned and installed to collect the seepage to outlets that can be easily monitored and to prevent further saturation of the starter dike until such time that the evapotranspiration actions are established and functioning.
- It is recommended that trees be removed from exterior starter dike slopes. Slopes should be repaired as needed following tree removal.
- The plant should continue best management practice to mow and maintain the exterior slopes of the closed cell to allow for better assessment of the facility. This includes cutting and maintaining heavy/tall phragmites growth within seepage areas around the cell to allow better assessments, repairing erosion areas, and monitoring animal paths and repairing erosion if it occurs.
- Continue annual inspection program and execute recommendations.



TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
North Abandoned Ash Disposal Area 1 (CDA1)

1. General Facility Information

Facility Status:	Inactive	NID Identification:	Not Available
Surface Area (inside dikes):	45 acres (Area A) 113 Acres (Areas A, B, and C)	Maximum Height (toe to top of dike):	25 to 30 feet
Free Water Volume:	N/A	Maximum Water Storage:	N/A
Estimated CCB Storage:	Unknown	Dike Length:	2,100 feet (Area A-west perimeter dike)
Plant Discharge to Facility:	N/A	Current Pool Elevation:	Currently closed.

2. Site Visit Information

Stantec Assessment Team:	Stephen Bickel, PE, Nathan Bader, PE, Josh Kopp, EIT
TVA Staff Present:	Stuart Harris, Tony Dillon
Field Assessment Dates:	January 12, 2009 and February 23 - 25, 2009
Weather/Site Conditions:	Clear, moist ground during both assessments

3. History/Description of Usage

History and Operation: The North Abandoned Ash Disposal Area 1 was the original disposal pond for the plant. It was built in the early 1950s and is currently closed. It is located north of the plant and borders the neighboring Dupont property to the north and west. During operation, the area was divided into three disposal areas (Areas A, B, C). These areas were constructed with ash dikes along the perimeter and separating each area. The dikes were raised at least once by upstream methods using bottom ash. The final dike to create Area C was constructed in 1970. During this time and by the end of 1970, the disposal area only received Dupont effluent with the plant effluent being disposed of in the new Ash Disposal Areas 2 & 3. Throughout 1975 and 1976, Areas A and B were closed and covered with soil to establish vegetation. The



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
North Abandoned Ash Disposal Area 1 (CDA1)**

perimeter dikes were also covered with soil and flattened to 2.5H:1V in 1978. The exact location of the various abandoned spillways and outlet pipes is unknown, but they were reportedly filled with concrete or removed. An informal agreement was established with Dupont in 1972 so that Dupont would assume responsibility for Pond C. Currently, only the southern portion of Area A is outside the Dupont property fence line and can be reviewed. The fence line was constructed in 1977.

Past Failures/Releases: Seepage along the west perimeter dike along the bank of Kentucky Lake has been reported for years.

4. Owner's Operations, Maintenance and Inspection Information

Emergency Action Plan: No EAP has been prepared for this facility.

Operations Manual: No OM has been prepared for this facility.

TVA Maintenance: Ditches were excavated along the inner dike slope to direct runoff to a new outlet pipe near the Dupont fence line in the 1990s.

TVA Inspections: TVA Engineering performs annual dike inspections and prepares reports for repair/maintenance activities. Plant personnel recently started making daily observations and performing weekly reviews of the disposal facilities at this plant.

Problems Previously Identified During Past TVA Inspections: Redwater seepage along the outer dike slopes of Area A.

5. Documents Reviewed

See attached Document Log for complete list of documents provided by TVA for review. In particular, the following provided pertinent information for the assessment of this facility:

TVA Design Drawings: Drawing numbers 10N503, 10H443 and 525.

TVA As-Built Drawings: None available.

TVA Construction Testing Records: None available.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
North Abandoned Ash Disposal Area 1 (CDA1)**

TVA Annual Inspection Reports:	TVA Annual Inspection Reports 1967 to 2008.
Geotechnical Data:	"Johnsonville Groundwater Assessment", TVA Resource Group, Engineering Services, March 1995. "Geology of the New Johnsonville Steam Plant Site", TVA Water Control Planning Dept., Geologic Division, January 14, 1948.

6. Stantec Field Observations

See attached Concerns/Photo Log, Photos, and Site Plan Drawing.

6.1. Interior Slopes

Vegetation:	Ditch slopes along interior of Area A heavily vegetated.
Trees:	Trees present along interior ditch slopes.
Wave Wash Protection:	None observed.
Erosion:	Some erosion observed along interior ditch slopes.
Instabilities:	None observed.
Animal Burrows:	None observed.
Freeboard:	Measured: Cell currently closed. Design: Not available.
Encroachments:	None observed.
Slope:	Measured: None measured. Design: Ditch excavated to elevation 370 with 2.5H:1V slope (from drawing 10H443)

6.2. Crest

Crest Cover and Slope:	Cell has been closed and covered with soil. Vegetation and some trees are established throughout the majority.
Erosion:	Minor exposed areas and erosion throughout.
Alignment:	No drawings for comparison.
Settlement/Cracking:	None observed.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
North Abandoned Ash Disposal Area 1 (CDA1)**

Bare Spots/Rutting: Some bare spots observed along top of closed cell.

Width: **Measured:** Unknown
Design: Not available.

6.3. Exterior Slopes

Vegetation: The perimeter ash dike along the west side consists of ash with a soil cover. The area has been vegetated throughout the majority.

Trees: Trees were observed in various areas throughout.

Erosion: Erosion was observed in various areas throughout the majority of the exterior slope along Area A. In some areas, ash was exposed.

Instabilities: Some erosion and shallow sloughing were observed in various areas along the exterior slope.

Uniform Appearance: Exterior slopes are partly uniform with various areas of erosion.

Seepage: Seepage was observed along the toe of the west dike in several areas. This seepage has been reported for several years and appears unchanged from previous inspections.

Benches: None observed.

Foundations, Drains, Relief Wells, Instrumentation: No provisions for drainage/seepage control, or instrumentation were observed.

Animal Burrows: None observed.

Slope: **Measured:** 3.0H:1V at Section 5
Design: 2.5H:1V (from drawing 10H443).

Height: **Measured:** 28 feet at Section 5
Design: Varies (Max. elevation 378 feet)



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
North Abandoned Ash Disposal Area 1 (CDA1)**

6.4. Spillway Weirs/Riser Inlets

Number:	Unknown.
Size, Type and Material:	Unknown.
Height of Riser Inlets:	Unknown.
Access:	Unknown.
Joints:	Unknown.
Mis-Alignment:	Unknown.
Closed/Abandoned Conduits:	Unknown.

6.5. Outlet Pipes

Number:	One (1) outlet pipe observed to drain interior runoff ditch, total number unknown.
Size, Type and Material:	36 inch Corrugated HDPE
Headwall:	None observed.
Joint Separations:	None reported
Mis-Alignment:	None reported.
Closed/Abandoned Conduits:	None reported.

7. Notable Observations and Concerns

- The absence of an Operation and Maintenance Plan, as-built drawings and construction testing records is a concern.
- This closed facility was the original disposal area for the plant. It consisted of Ponds A, B, and C. Since it was originally constructed, disposal in this area was shared with the neighboring Dupont plant. Document reviews and discussions with plant personnel indicate that there is an informal agreement with Dupont that they have assumed management of these facilities. Currently, fencing around the Dupont facility limits access to the majority of the area with only the southern end of previous Pond A extending outside the fence line.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal
Facility Summary
Johnsonville Fossil Plant (JOF)
North Abandoned Ash Disposal Area 1 (CDA1)**

- Some trees were observed along various portions of the outer dike slopes along the west side of Pond A. Some erosion is also present along the clay cover with exposed ash present in some areas along the banks of Kentucky Lake.
- Seepage has been reported along the west banks of Pond A for several years. The seepage was also observed during the assessments by Stantec personnel. Continued monitoring of these seepage areas will be required.

8. Recommendations

8.1. Phase 2 Engineering and Programmatic Recommendations

- It is recommended that an Operations and Maintenance Plan be developed for this facility.
- It is recommended that a program to develop as-built drawings and construction records for future maintenance and construction activities be established.

8.2. Maintenance Recommendations

- It is recommended that trees be removed from the outer slopes along the west side of Area A. Slopes should be repaired as needed following tree removal. Areas of erosion and exposed ash should also be repaired and new clay cover installed. To minimize damage to the toe and slopes, rip rap should be placed along the slopes once repairs are complete to protect against wave action. The dike should continue to be monitored and repaired as conditions warrant.
- The seepage observed along the toe of the west dike at the North Abandoned Ash Disposal Area 1 (Area A) should continue to be monitored.
- The plant should continue best management practice to mow and maintain the closed cell until such time that management of the facility is assumed by Dupont.
- Continue annual inspection program and execute recommendations.



Drawing Mark AP-2&3-1 Erosion rill along exterior perimeter dike slope (Typ.).



Drawing Mark AP-2&3-2 Seepage collection system on southeast perimeter dike.



Drawing Mark AP-2&3-3 Standing water/seepage along southeast perimeter dike toe.



Drawing Mark AP-2&3-4 Heavy growth and phragmites along interior divider dike (Typ.).



Drawing Mark AP-2&3-5 Bench and lower rip rap slope along northwest perimeter dike.



Drawing Mark AP-2&3-6 Depression along exterior slope at northwest dike (Typ.).



Drawing Mark AP-2&3-7 Animal burrow (Typ.).



Drawing Mark AP-2&3-8 Standing water/seepage and rutting along toe of northeast dike (Typ.).



Drawing Mark AP-2&3-9 Southeast weir taken out of service (Typ.).



Drawing Mark AP-2&3-10 Raised weir at southeast set of spillways (Typ.).



Drawing Mark AP-2&3-11 Abandoned weir along northwest set of spillways (Typ.).



Drawing Mark AP-2&3-12 Active spillways along southwest side of pond.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal Facility Summary
Johnsonville Fossil Plant (JOF)
Active Ash Disposal Areas 2 & 3
Photos, Concerns/Photo Log**



Drawing Mark AP-2&3-13 Trees along toe of southwest dike (Typ.), note surging discharge pipe.



Stantec

**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal Facility Summary
Johnsonville Fossil Plant (JOF)
Active Ash Disposal Areas 2 & 3
Photos, Concerns/Photo Log**

Concerns/Photo Log		
Drawing Mark	Comments	Photo/GPS ID
AP-2&3-1	Erosion rill along exterior perimeter dike slope (Typ.).	Photo 44B
AP-2&3-2	Seepage collection system on southeast perimeter dike.	Photo 43B
AP-2&3-3	Standing water/seepage along southeast perimeter dike toe.	Photo 46B
AP-2&3-4	Heavy growth and phragmites along interior divider dike (Typ.).	Photo 49B
AP-2&3-5	Bench and lower rip rap slope along northwest perimeter dike.	Photo 52B
AP-2&3-6	Depression along exterior slope at northwest dike (Typ.).	Photo 54B
AP-2&3-7	Animal burrow (Typ.).	Photo 55B
AP-2&3-8	Standing water/seepage and rutting along toe of northeast dike (Typ.).	Photo 57B
AP-2&3-9	Southeast weir taken out of service (Typ.).	Photo 64B
AP-2&3-10	Raised weir at southeast set of spillways (Typ.).	Photo 66B
AP-2&3-11	Abandoned weir along northwest set of spillways (Typ.).	Photo 69B
AP-2&3-12	Active spillways along southwest side of pond.	Photo 68B
AP-2&3-13	Trees along toe of southwest dike (Typ.), note surging discharge pipe.	Photo 42A



Drawing Mark CDA-4-1 Erosion exposing liner along toe of eastern stack area.



Drawing Mark CDA-4-2 Steep slopes and heavy growth along original starter dike slope (Typ.).



Drawing Mark CDA-4-3 Outlet for drainage area along southern portion of disposal area (Typ.).



Drawing Mark CDA-4-4 Trees and heavy growth along original starter dike slope (Typ.).



Drawing Mark CDA-4-5 Standing water along bench of eastern stack area (Typ.).



Drawing Mark CDA-4-6 Heavy vegetation along top of disposal area (Typ.).



Drawing Mark CDA-4-7 Erosion rill along southwest side of disposal area (Typ.).



Drawing Mark CDA-4-8 Washout along northwest stack area slope (Typ.).



Drawing Mark CDA-4-9 Spillway in Stilling Pond "D"



Drawing Mark CDA-4-10 Vegetation along interior of Stilling Pond "C" (Typ.).



Stantec

TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal Facility Summary
Johnsonville Fossil Plant (JOF)
South Railroad Loop Ash Disposal Area 4
Photos, Concerns/Photo Log

Concerns/Photo Log		
Drawing Mark	Comments	Photo/GPS ID
CDA-4-1	Erosion exposing liner along toe of eastern stack area.	Photo 10B
CDA-4-2	Steep slopes and heavy growth along original starter dike slope (Typ.).	Photo 11B
CDA-4-3	Outlet for drainage area along southern portion of disposal area (Typ.).	Photo 12B
CDA-4-4	Trees and heavy growth along original starter dike slope (Typ.).	Photo 14B
CDA-4-5	Standing water along bench of eastern stack area (Typ.).	Photo 80B
CDA-4-6	Heavy vegetation along top of disposal area (Typ.).	Photo 82B
CDA-4-7	Erosion rill along southwest side of disposal area (Typ.).	Photo 15B
CDA-4-8	Washout along northwest stack area slope (Typ.).	Photo 88B
CDA-4-9	Spillway in Stilling Pond "D"	Photo 19B
CDA-4-10	Vegetation along interior of Stilling Pond "C" (Typ.).	Photo 21B



Drawing Mark CDA-5-1 Seepage along crest of starter dike (Typ.).



Drawing Mark CDA-5-2 Trees along exterior starter dike slope in north end of cell.



**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal Facility Summary
Johnsonville Fossil Plant (JOF)
Ash Dredge Pond East of Gas Turbines Area 5
Photos, Concerns/Photo Log**



Drawing Mark CDA-5-3 Heavy phragmite growth along seepage area at crest of starter dike (Typ.).



Drawing Mark CDA-1-1 Erosion, trees, exposed ash along west dike of Area A (Typ.).



Drawing Mark CDA-1-2 Seepage along toe of west dike of Area A.



Drawing Mark CDA-1-3 Erosion, shallow scarps along west dike of Area A (Typ.).



Drawing Mark CDA-1-4 Ditch outlet pipe adjacent to Dupont property.



Drawing Mark CDA-1-5 Heavy vegetation along interior ditch side slopes (Typ.).



Drawing Mark CDA-1-6 Areas of erosion and lack of vegetation along top of closed Area A (Typ.).



Drawing Mark CDA-1-7 Heavy vegetation and some trees along top of closed Area A (Typ.).



Stantec

**TVA Disposal Facility Assessment
Phase 1 Coal Combustion Product Disposal Facility Summary
Johnsonville Fossil Plant (JOF)
North Abandoned Ash Disposal Area 1
Photos, Concerns/Photo Log**

Concerns/Photo Log		
Drawing Mark	Comments	Photo/GPS ID
CDA-1-1	Erosion, trees, exposed ash along west dike of Area A (Typ.).	Photo 27B
CDA-1-2	Seepage along toe of west dike of Area A.	Photo 28B
CDA-1-3	Erosion, shallow scarps along west dike of Area A (Typ.).	Photo 29B
CDA-1-4	Ditch outlet pipe adjacent to Dupont property.	Photo 30B
CDA-1-5	Heavy vegetation along interior ditch side slopes (Typ.).	Photo 31B
CDA-1-6	Areas of erosion and lack of vegetation along top of closed Area A (Typ.).	Photo 32B
CDA-1-7	Heavy vegetation and some trees along top of closed Area A (Typ.).	Photo 33B



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
2/20/2009	NB	Aerial Shot 3.jpg	JPG
2/20/2009	NB	Ash Pond Before.jpg	JPG
2/20/2009	NB	Ash Pond Construction 2.jpg	JPG
2/20/2009	NB	Ash Pond Construction.jpg	JPG
2/20/2009	NB	Ash Pond Picture.pdf	PDF
2/20/2009	NB	Before E Pond.jpg	JPG
2/20/2009	NB	Culvert Under Road.jpg	JPG
2/20/2009	NB	Ga000068.pdf	PDF
2/20/2009	NB	Picture1.jpg	JPG
2/20/2009	NB	Plant Aerial 2.jpg	JPG
2/20/2009	NB	Plant Aerial 3.jpg	JPG
2/20/2009	NB	Plant Picture.jpg	JPG
2/20/2009	NB	Pae Inspections.pdf	PDF
2/20/2009	NB	Sos Daily Inspections.pdf	PDF
2/20/2009	NB	1993 Annual By Products- Storage Area Dike Inspection - Corporate To Do Inspections.pdf	PDF
2/20/2009	NB	1993 Cover Letter.pdf	PDF
2/20/2009	NB	1993 Red Water Report.pdf	PDF
2/20/2009	NB	1994 Annual Ash Pond Dike Inspection.pdf	PDF
2/20/2009	NB	1994 Red Water Report.pdf	PDF
2/20/2009	NB	1995 Annual Ash Pond Dike Inspection.pdf	PDF
2/20/2009	NB	1995 Red Water.pdf	PDF
2/20/2009	NB	1996 Annual Ash Pond Dike Inspection.pdf	PDF
2/20/2009	NB	1996 Red Water Report.pdf	PDF
2/20/2009	NB	1997 Annual Ash Pond Dike Inspection.pdf	PDF
2/20/2009	NB	1997 Red Water Report.pdf	PDF
2/20/2009	NB	1998 Annual Ash Pond Dike Inspection.pdf	PDF
2/20/2009	NB	1998 Red Water Report.doc	DOC
2/20/2009	NB	1999 Annual Ash Pond Dike Inspection.pdf	PDF
2/20/2009	NB	1999 Red Water Report.doc	DOC
2/20/2009	NB	1999, North Bank Reason For Improvement.doc	DOC
2/20/2009	NB	2000 Annual Ash Pond Dike Inspection.pdf	PDF
2/20/2009	NB	2000 Red Water Report.doc	DOC
2/20/2009	NB	2001 Annual Ash Pond Dike Inspection.pdf	PDF
2/20/2009	NB	2001 Red Water Report.doc	DOC
2/20/2009	NB	2002 Dike Stability Inspection.pdf	PDF
2/20/2009	NB	2002 Red Water Report.doc	DOC
2/20/2009	NB	2003 Annual Ash Pond Dike Inspection.pdf	PDF
2/20/2009	NB	2003 Dike Stability And Seepage Report - Cover Letter.doc	DOC
2/20/2009	NB	2003 Dike Stability And Seepage Report 12-23-2002.pdf	PDF



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
2/20/2009	NB	2003 Red Water Report.doc	DOC
2/20/2009	NB	2004 Annual Ash Pond Dike Inspection.pdf	PDF
2/20/2009	NB	2004 Dike Stability And Seepage Report - Cover Letter.doc	DOC
2/20/2009	NB	2004 Dike Stability And Seepage Report 12-16-2003.pdf	PDF
2/20/2009	NB	2004 Red Water Report.doc	DOC
2/20/2009	NB	2005 Dike Inspection Notes.doc	DOC
2/20/2009	NB	2005 Annual Ash Pond Dike Inspection.pdf	PDF
2/20/2009	NB	2005 Dike Stability And Seepage Report - Cover Letter 7-13-2005.doc	DOC
2/20/2009	NB	2005 Dike Stability And Seepage Report 2-2-2005.pdf	PDF
2/20/2009	NB	2005 Red Water Report.doc	DOC
2/20/2009	NB	2006 Annual Ash Pond Dike Inspection.pdf	PDF
2/20/2009	NB	2006 Dike Stability And Seepage Report - Cover Letter 7-28-2006.doc	DOC
2/20/2009	NB	2006 Dike Stability And Seepage Report 1-25-2006.pdf	PDF
2/20/2009	NB	2006 Red Water Report.pdf	PDF
2/20/2009	NB	2007 Dike Stability And Seepage Report - Cover Letter 7-30-2007.doc	DOC
2/20/2009	NB	2007 Dike Stability And Seepage Report 11-20-2006.doc	DOC
2/20/2009	NB	2007 JOF Ash Pond Insp Front Sheet 2007.doc	DOC
2/20/2009	NB	2007 Red Water Report.doc	DOC
2/20/2009	NB	2008 Dike Stability And Seepage Report - Cover Letter 8-26-2008.doc	DOC
2/20/2009	NB	2008 Dike Stability And Seepage Report 11-19-2007.doc	DOC
2/20/2009	NB	2008 Dike Stability And Seepage Report Attachment 1.doc	DOC
2/20/2009	NB	2008 JOF Ash Pond Map Api08-2.ppt	PPT
2/20/2009	NB	2008 JOF Ash Pond Map Api08.pdf	PDF
2/20/2009	NB	2008 Note To File. 12.31.2008 Dike Inspection (File 4191).doc	DOC
2/20/2009	NB	2008 Red Water Report.doc	DOC
2/20/2009	NB	2009 - 2003 Finding And Recommendations Of JOF'S Active Ash Pond.doc	DOC
2/20/2009	NB	2009 JOF Summary 2008 Ash Rp Fy 2008 - Nov 2008.doc	DOC
2/20/2009	NB	Aerial View -Johnsonville Steam Plant- Page 30 In JOF Brown Book.pdf	PDF
2/20/2009	NB	Discharge Location Map - Page 209 In JOF Brown Book.pdf	PDF
2/20/2009	NB	JOF Ash Pond Information.doc	DOC
2/20/2009	NB	JOF Summary 2008 Ash Rp Fy 2008.doc	DOC
2/20/2009	NB	JOF-10N503-Sht -Rev 9.cal	CAL
2/20/2009	NB	JOF-10W527-1-Sht -Rev 1.cal	CAL
2/20/2009	NB	JOF-10W527-2-Sht -Rev 1.cal	CAL
2/20/2009	NB	JOF-10W527-Sht -Rev 15.cal	CAL
2/20/2009	NB	JOF-10Ds403-Sht 1-Rev 1 Ash Sluice Pipe Trench & Supports Units 7 - 10 Anchor Bolt Details Dwg Nos 10N403, 406.cal	CAL
2/20/2009	NB	JOF-10Ds406-1-Sht 1-Rev 0 Yard Units 1 - 10 Anchor Bolt Details Ash Sluice Relocation Dwg Nos 10N406.cal	CAL
2/20/2009	NB	JOF-10Ds406-Sht -Rev 0 Fly Ash Reclaiming System Anchor Bolt Details Dwg No 10B406.cal	CAL
2/20/2009	NB	JOF-10H443-Sht -Rev 1 Main Plant Site Grading At Ash Disposal Area.cal	CAL



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
2/20/2009	NB	JOF-10H443-Sht -Rev 1 Main Plant Site Grading At Ash Disposal Area.pdf	PDF
2/20/2009	NB	JOF-10H515-Sht -Rev 0 Ash Disposal Dike.cal	CAL
2/20/2009	NB	JOF-10H516-Sht -Rev 0 Ash Disposal Dike.cal	CAL
2/20/2009	NB	JOF-10H517-Sht -Rev 0 Ash Disposal Dike.cal	CAL
2/20/2009	NB	JOF-10H518-Sht -Rev 0 Ash Disposal Dike.cal	CAL
2/20/2009	NB	JOF-10H519-Sht -Rev 0 Ash Disposal Dike.cal	CAL
2/20/2009	NB	JOF-10H525-Sht -Rev 2 Ash Disposal Area.cal	CAL
2/20/2009	NB	JOF-10N252-Sht -Rev 0 Yard Concrete Washing Pad At Utility Building.cal	CAL
2/20/2009	NB	JOF-10N400-Sht -Rev 6 Yard Concrete Ash Sluice Pipe Trench & Supports Outline & Reinf - Sheet 1.cal	CAL
2/20/2009	NB	JOF-10N401-Sht -Rev 4 Yard Concrete Ash Sluice Pipe Trench & Supports Outline & Reinf - Sheet 2.cal	CAL
2/20/2009	NB	JOF-10N402-Sht -Rev 2 Yard Units 1-6 Concrete Ash Sluice Pipe Extension Outline & Reinforcement.cal	CAL
2/20/2009	NB	JOF-10N403-Sht -Rev 3 Yard Units 7-10 Concrete Ash Sluice Pipe Trench & Supports Outline & Reinf. - Sheet 1.cal	CAL
2/20/2009	NB	JOF-10N404-Sht -Rev 1 Yard Units 7-10 Concrete Ash Sluice Pipe Trench & Supports Outline & Reinf. - Sheet 2.cal	CAL
2/20/2009	NB	JOF-10N405-Sht -Rev 5 Yard Units 1-10 Concrete Ash Sluice Relocation Outline & Reinf. - Sh 1.cal	CAL
2/20/2009	NB	JOF-10N406-Sht -Rev 4 Yard Units 1-10 Concrete Ash Sluice Relocation Outline & Reinf - Sh 2.cal	CAL
2/20/2009	NB	JOF-10N407-Sht -Rev 1 Yard Units 1-10 Concrete Ash Sluice Trench Outline & Reinforcement.cal	CAL
2/20/2009	NB	JOF-10N503-Sht -Rev 9 Main Plant Dike For Ash Disposal Area .cal	CAL
2/20/2009	NB	JOF-10N524-Sht -Rev 0 Main Plant Ash Disposal Area Divider Dike & Floating Boom.cal	CAL
2/20/2009	NB	JOF-10N531-Sht -Rev 0 Standard Drawing Weir For Ash Disposal Spillway.cal	CAL
2/20/2009	NB	JOF-10W212-Sht -Rev 2 Main Plant Drainage & Dike Details Ash Disposal Area.cal	CAL
2/20/2009	NB	JOF-10W218-1-Sht -Rev 3 Main Plant Ash Dredge Cell-East Of Gas Turbines Plan & Gravity Drain.cal	CAL
2/20/2009	NB	JOF-10W218-2-Sht -Rev 3 Main Plant Ash Dredge Cell-East Of Gas Turbines Profile, Sections & Details.cal	CAL
2/20/2009	NB	JOF-10W218-3-Sht -Rev 4 Main Plant Ash Dredge Cell-East Of Gas Turbines Spillway Plan & Sections.cal	CAL
2/20/2009	NB	JOF-10W218-4-Sht -Rev 3 Main Plant Ash Dredge Cell-East Of Gas Turbines Sump Pump Box For Underdrain Plan, Sections & Details.cal	CAL
2/20/2009	NB	JOF-10W218-5-Sht -Rev 3 Main Plant Ash Dredge Cell-East Of Gas Turbine Closure Plan & Sections.cal	CAL
2/20/2009	NB	JOF-10W218-7-Sht -Rev 1 Main Plant Ash Dredge Cell-East Of Gas Turbines Profile, Sections & Details.cal	CAL
2/20/2009	NB	JOF-10W218-8-Sht -Rev 0 Main Plant Ash Dredge Cell-East Of Gas Turbines Tree Planting Plan 2006.cal	CAL
2/20/2009	NB	JOF-10W219-Sht -Rev 2 Ash Disposal Area Inside Railroad Loop Settling Pond C Plan & Sections.cal	CAL
2/20/2009	NB	JOF-10W222-1-Sht -Rev 1 Yard North Rail Loop Ash Disposal Facility Site Location, Drawing Index, And Legend.cal	CAL
2/20/2009	NB	JOF-10W222-10-Sht -Rev 1 Yard North Rail Loop Ash Disposal Facility Cross Sections - Sheet 2.cal	CAL
2/20/2009	NB	JOF-10W222-11-Sht -Rev 2 Yard North Rail Loop Ash Disposal Facility Details - Sheet 1.cal	CAL
2/20/2009	NB	JOF-10W222-12-Sht -Rev 0 Yard North Rail Loop Ash Disposal Facility Details - Sheet 2.cal	CAL
2/20/2009	NB	JOF-10W222-13-Sht -Rev 1 Yard North Rail Loop Ash Disposal Facility Details - Sheet 3.cal	CAL
2/20/2009	NB	JOF-10W222-14-Sht -Rev 1 Yard North Rail Loop Ash Disposal Facility Access Road And Discharge Pipe Profiles.cal	CAL
2/20/2009	NB	JOF-10W222-15-Sht -Rev 0 Yard North Rail Loop Ash Disposal Facility Partial Liner Cross Sections & Notes.cal	CAL
2/20/2009	NB	JOF-10W222-16-Sht -Rev 0 Yard Ash Disposal North End Of Railroad Loop Section & Handhole #8.cal	CAL
2/20/2009	NB	JOF-10W222-17-Sht -Rev 0 Yard Ash Disposal North End Of Railroad Loop Retaining Wall & Handhole #2.cal	CAL
2/20/2009	NB	JOF-10W222-18-Sht -Rev 0 Yard North Rail Loop Ash Disposal Facility Partial Plan.cal	CAL
2/20/2009	NB	JOF-10W222-19-Sht -Rev 0 Yard North Rail Loop Ash Disposal Facility Details.cal	CAL



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
2/20/2009	NB	JOF-10W222-2-Sht -Rev 0 Yard North Rail Loop Ash Disposal Facility Overall Site Location & Site Boundaries.cal	CAL
2/20/2009	NB	JOF-10W222-3-Sht -Rev 1 Yard North Rail Loop Ash Disposal Facility Existing Topography & Pertinent Features.cal	CAL
2/20/2009	NB	JOF-10W222-4-Sht -Rev 2 Yard North Rail Loop Ash Disposal Facility Initial Dike Construction And Site Development.cal	CAL
2/20/2009	NB	JOF-10W222-5-Sht -Rev 2 Yard North Rail Loop Ash Disposal Facility Sediment Pond Plain, Sections, & Principle Spillway & Discharge Piping.cal	CAL
2/20/2009	NB	JOF-10W222-6-Sht -Rev 2 Yard North Rail Loop Ash Disposal Facility Intermediate Stage 1 Grading Plan.cal	CAL
2/20/2009	NB	JOF-10W222-7-Sht -Rev 2 Yard North Rail Loop Ash Disposal Facility Intermediate Stage 2 Grading Plan.cal	CAL
2/20/2009	NB	JOF-10W222-8-Sht -Rev 2 Yard North Rail Loop Ash Disposal Facility Final Grading Plan.cal	CAL
2/20/2009	NB	JOF-10W222-9-Sht -Rev 1 Yard North Rail Loop Ash Disposal Facility Cross Sections - Sheet 1.cal	CAL
2/20/2009	NB	JOF-10W400-1-Sht -Rev 0 Yard Units 1 - 6 Concrete Ash Sluice Pipe Trench & Supports Outline & Reinforcing, Sheet 3.cal	CAL
2/20/2009	NB	JOF-10W408-1-Sht -Rev 0 Yard Units 1 - 10 Concrete Ash Trench Wall Modifications Outline & Reinforcement.cal	CAL
2/20/2009	NB	JOF-10W522-Sht -Rev 0 Yard Bottom Ash Disposal Area West Of Boat Harbor Conceptual Stacking Plan.cal	CAL
2/20/2009	NB	JOF-10W527-1-Sht -Rev 1 Main Plant Ash Disposal Area West Of Boat Harbor Erosion Repair 1994 - Sheet 1.cal	CAL
2/20/2009	NB	JOF-10W527-2-Sht -Rev 1 Main Plant Ash Disposal Area West Of Boat Area Erosion Repair 1994 Sheet 2.cal	CAL
2/20/2009	NB	JOF-10W527-Sht -Rev 15 Main Plant Ash Disposal Area West Of Boat Harbor.cal	CAL
2/20/2009	NB	JOF-10W528-Sht -Rev 11 Standard Drawing Ash Disposal Spillway.cal	CAL
2/20/2009	NB	JOF-10W529-Sht -Rev 6 Main Plant Ash Disposal Area Sections.cal	CAL
2/20/2009	NB	JOF-10W530-1-Sht -Rev 2 Yard Ash Disposal Area Inside Railroad Loop Sheet 1.cal	CAL
2/20/2009	NB	JOF-10W530-2-Sht -Rev 2 Yard Ash Disposal Area Inside Railroad Loop Sheet 2.cal	CAL
2/20/2009	NB	JOF-10W530-3-Sht -Rev 2 Yard Ash Disposal Area Inside Railroad Loop Sheet 3.cal	CAL
2/20/2009	NB	JOF-10W530-4-Sht -Rev 1 Yard Ash Disposal Area Inside Railroad Loop Sheet 4.cal	CAL
2/20/2009	NB	JOF-10W532-1-Sht -Rev 0 Law Engineering And Tribble & Richardson Inc Rr Loop Ash Stacking Area Incremental Stacking Plan Base Contours.cal	CAL
2/20/2009	NB	JOF-10W532-10-Sht -Rev 0 Law Engineering And Tribble & Richardson Inc Rr Loop Ash Stacking Area Incremental Stacking Plan X-Sect'S Area 3, Misc Details.cal	CAL
2/20/2009	NB	JOF-10W532-17-Sht -Rev 3 Yard Rr Loop Ash Stacking Area Sections.cal	CAL
2/20/2009	NB	JOF-10W532-2-Sht -Rev 1 Law Engineering And Tribble & Richardson Inc Rr Loop Ash Stacking Area Final Contours.cal	CAL
2/20/2009	NB	JOF-10W532-20-Sht -Rev 2 Law Engineering And Tribble & Richardson Inc. Rr Loop Ash Stacking Area Proposed Cover.cal	CAL
2/20/2009	NB	JOF-10W532-21-Sht -Rev 0 Yard Rr Loop Ash Stacking Area Spring 2002 Repairs.cal	CAL
2/20/2009	NB	JOF-10W532-22-Sht -Rev 0 Yard Rr Loop Ash Stacking Area Spring 2002 Broad Area Treatments.cal	CAL
2/20/2009	NB	JOF-10W532-23-Sht -Rev 0 Yard Rr Loop Ash Stacking Area Sections For Spring 2002 Repairs.cal	CAL
2/20/2009	NB	JOF-10W532-24-Sht -Rev 0 Yard Rr Loop Ash Stacking Area Roadway Pipe Gate For Spring 2002 Repairs.cal	CAL
2/20/2009	NB	JOF-10W532-3-Sht -Rev 0 Law Engineering And Tribble & Richardson Inc Rr Loop Ash Stacking Area Incremental Stacking Plan Site Geometry.cal	CAL
2/20/2009	NB	JOF-10W532-4-Sht -Rev 0 Law Engineering And Tribble & Richardson Inc Rr Loop Ash Stacking Area Incremental Stacking Plan Ditch Profiles.cal	CAL
2/20/2009	NB	JOF-10W532-5-Sht -Rev 0 Law Engineering And Tribble & Richardson Inc Rr Loop Ash Stacking Area Incremental Stacking Plan Access Road Profiles..cal	CAL
2/20/2009	NB	JOF-10W532-6-Sht -Rev 0 Law Engineering And Tribble & Richardson Inc Rr Loop Ash Stacking Area Incremental Stacking Plan Stack Profiles Area 1,2, & 3.cal	CAL
2/20/2009	NB	JOF-10W532-7-Sht -Rev 0 Law Engineering And Tribble & Richardson Inc Rr Loop Ash Stacking Area Incremental Stacking Plan Cross Sections Area 1.cal	CAL
2/20/2009	NB	JOF-10W532-8-Sht -Rev 0 Law Engineering And Tribble & Richardson Inc Rr Loop Ash Stacking Area Incremental Stacking Plan Cross Sections Area 2.cal	CAL
2/20/2009	NB	JOF-10W532-9-Sht -Rev 0 Law Engineering And Tribble & Richardson Inc Rr Loop Ash Stacking Area Incremental Stacking Plan Cross Sections Area 3.cal	CAL
2/20/2009	NB	JOF-10N523-Sht -Rev 1 Main Plant Chemical Treatment Pond (Iron).cal	CAL
2/20/2009	NB	JOF-10W526-Sht -Rev 3 Main Plant Chemical Treatment Pond & Ash Pond Interior Dikes.cal	CAL
2/20/2009	NB	JOF-10B719-Sht -Rev 0 Coal Tracks Adzing And Boring Template.cal	CAL



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
2/20/2009	NB	JOF-10H702-Sht -Rev 4 Coal Trcks.cal	CAL
2/20/2009	NB	JOF-10H703-Sht -Rev 5 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H704-Sht -Rev 4 Coal Tracks & Access Hwy..cal	CAL
2/20/2009	NB	JOF-10H705-Sht -Rev 7 Coal Tracks & Access Highway.cal	CAL
2/20/2009	NB	JOF-10H706-Sht -Rev 3 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H707-Sht -Rev 5 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H718-Sht -Rev 2 Coal Tracks Supplemental Track Details.cal	CAL
2/20/2009	NB	JOF-10H720-Sht -Rev 2 Access Highway & Coal Tracks Standard Details For Box Curves.cal	CAL
2/20/2009	NB	JOF-10H721-Sht -Rev 1 Coal Tracks Culvert At Station 111 + 80 6'X6'X117'-73' Skew Barrel.cal	CAL
2/20/2009	NB	JOF-10H722-Sht -Rev 1 Coal Tracks Culvert At Station 111 + 80 6'X6'X117'-73 Skew Wings & Reinforcing Steel.cal	CAL
2/20/2009	NB	JOF-10H723-Sht -Rev 3 Access Highway & Coal Tracks Culvert At Station 163+90 8'X10'X20T-90 Skew Barrel.cal	CAL
2/20/2009	NB	JOF-10H724-Sht -Rev 2 Access Highway & Coal Tracks Culvert At Station 163+90 8'X10'X207' - 90 Skew Wings & Reinforcing Steel.cal	CAL
2/20/2009	NB	JOF-10H731-Sht -Rev 2 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H732-Sht -Rev 2 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H733-Sht -Rev 3 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H734-Sht -Rev 1 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H748-Sht -Rev 2 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H749-Sht -Rev 2 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H751-Sht -Rev 2 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H752-Sht -Rev 1 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H753-Sht -Rev 1 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H754-Sht -Rev 0 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H755-Sht -Rev 0 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H756-Sht -Rev 0 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H757-Sht -Rev 1 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H763-Sht -Rev 0 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H764-Sht -Rev 0 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H770-Sht -Rev 0 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H771-Sht -Rev 0 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10H772-Sht -Rev 0 Coal Tracks.cal	CAL
2/20/2009	NB	JOF-10Mm241-Sht -Rev 0 Coal Yd Ext X-Sects .cal	CAL
2/20/2009	NB	JOF-10Mm242-Sht -Rev 0 Coal Yd Ext X-Sects .cal	CAL
2/20/2009	NB	JOF-10Mm243-Sht -Rev 0 Coal Yd Ext X-Sects.cal	CAL
2/20/2009	NB	JOF-10Mm244-Sht -Rev 0 Coal Yd Ext X-Sects.cal	CAL
2/20/2009	NB	JOF-10Mm854-Sht -Rev 0 Coal Tracks Interchange Yard.cal	CAL
2/20/2009	NB	JOF-10N240-Sht -Rev 5 Yard Catch Basin For Coal Yard.cal	CAL
2/20/2009	NB	JOF-10W211-1-Sht -Rev 1 Main Plant Coal Yard Grading Plan.cal	CAL
2/20/2009	NB	JOF-10W211-2-Sht -Rev 0 Main Plant Coal Yard Cross Sections.cal	CAL
2/20/2009	NB	JOF Ash Pond Insp Fy 2000.pdf	PDF



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
2/20/2009	NB	JOF Ash Pond Insp Fy 2001.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy 2003.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy 2004.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy 2005.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy 2006.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy 2007.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy67.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy68.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy69.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy70.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy71.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy72.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy73.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy74.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy75.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy76.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy77.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy78.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy79.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy80.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy81.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy82.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy83.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy84.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy85.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy86.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy87.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy88.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy89.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy93.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy94.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy95.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy96.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy97.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy98.pdf	PDF
2/20/2009	NB	JOF Ash Pond Insp Fy99.pdf	PDF
2/20/2009	NB	JOF-10N503-Sht -Rev 9.cal	CAL
2/20/2009	NB	JOF-10W527-1-Sht -Rev 1.cal	CAL
2/20/2009	NB	JOF-10W527-2-Sht -Rev 1.cal	CAL



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
2/20/2009	NB	JOF-10W527-Sht -Rev 15.cal	CAL
4/13/2009	PC/NB	Johnsonville.pdf (This Is An Aerial View W/ Structures Located - Also Includes Top And Toe Of Dike Elevations)	PDF
4/13/2009	PC/NB	JOF Api08.pdf	PDF
4/13/2009	PC/NB	JOF Fy09 Ash Pond Report Front.pdf	PDF
4/13/2009	PC/NB	JOF Fy09 Ash Pond Report.pdf	PDF
4/13/2009	PC/NB	JOF_Kee R4 Inspection_Fy08.pdf	PDF
4/13/2009	PC/NB	Pae, Sos, And Smt Inspections Week Of 020109	PDF
4/13/2009	PC/NB	Pae, Sos, And Smt Inspections Week Of 020809	PDF
4/13/2009	PC/NB	Pae, Sos, And Smt Inspections Week Of 021509.pdf	PDF
4/13/2009	PC/NB	Pae, Sos, And Smt Inspections Week Of 022209	PDF
4/13/2009	PC/NB	Pae, Sos, And Smt Inspections Week Of 030109	PDF
4/13/2009	PC/NB	Pae, Sos, And Smt Inspections Wek Of 12509.pdf	PDF
4/13/2009	PC/NB	01 JOF Solid Waste Correspondence.pdf	PDF
4/13/2009	PC/NB	03 JOF Dupont Dredge Cell Remediation Telecon.pdf	PDF
4/13/2009	PC/NB	04 JOF Water Samples From JOF Dredge Cell.pdf	PDF
4/13/2009	PC/NB	05 JOF Dupont Seep Remediation.pdf	PDF
4/13/2009	PC/NB	06 JOF Dupont Trees.pdf	PDF
4/13/2009	PC/NB	07 JOF Design Change Notice.pdf	PDF
4/13/2009	PC/NB	09 JOF Solid Waste Correspondence.pdf	PDF
4/13/2009	PC/NB	10 JOF Ash Disposal Closure - Dupont Pond.pdf	PDF
4/13/2009	PC/NB	11 JOF Misc.pdf	PDF
4/13/2009	PC/NB	13 JOF Notes.pdf	PDF
4/13/2009	PC/NB	16 JOF Addendum Cover Page.pdf	PDF
4/13/2009	PC/NB	17 JOF Design Review Info.pdf	PDF
4/13/2009	PC/NB	18 JOF Evaporative Tree Cap.pdf	PDF
4/13/2009	PC/NB	19 JOF Dupont Dredge Cell Repair Kickoff Meeting.pdf	PDF
4/13/2009	PC/NB	JOF- 10W218- Sh 8- Rev 0.cal	CAL
4/13/2009	PC/NB	JOF- 10W218- Sh 8.cal	CAL
4/13/2009	PC/NB	JOF 2005 Ash Balance & Present Worth.pdf	PDF
4/13/2009	PC/NB	01 JOF 2006 Conceptual Estimates.pdf	PDF
4/13/2009	PC/NB	02 JOF 2006 Misc Reports & Info.pdf	PDF
4/13/2009	PC/NB	03 JOF 2006 Draft Phase 1B Report Rev A Markup.pdf	PDF
4/13/2009	PC/NB	04 JOF 2006 Option 3A Estimate.pdf	PDF
4/13/2009	PC/NB	05 JOF 2006 Phase 1B Supplement Report Rev A.pdf	PDF
4/13/2009	PC/NB	06JOF 2006 Draft Phase 1 B Report Rev C.pdf	PDF
4/13/2009	PC/NB	07 JOF 2006 Draft Phase 1B Report Rev A.pdf	PDF
4/13/2009	PC/NB	604B887R0.cal	CAL
4/13/2009	PC/NB	604K861R1.cal	CAL
4/13/2009	PC/NB	604K862R0.cal	CAL



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	604K881R0.cal	CAL
4/13/2009	PC/NB	604K882R0.cal	CAL
4/13/2009	PC/NB	604K883R0.cal	CAL
4/13/2009	PC/NB	604K884R0.cal	CAL
4/13/2009	PC/NB	604K885R0.cal	CAL
4/13/2009	PC/NB	604K886R0.cal	CAL
4/13/2009	PC/NB	JOF 1977 Soil Exploration & Testing.pdf	PDF
4/13/2009	PC/NB	02 JOF 1996 Pcr.pdf	PDF
4/13/2009	PC/NB	03 JOF 1997.pdf	PDF
4/13/2009	PC/NB	04 JOF 1996 Dike Repair.pdf	PDF
4/13/2009	PC/NB	05 JOF 1995 Repair.pdf	PDF
4/13/2009	PC/NB	06 JOF 1994 Repair.pdf	PDF
4/13/2009	PC/NB	07 JOF Water Elev.pdf	PDF
4/13/2009	PC/NB	08 JOF Misc.pdf	PDF
4/13/2009	PC/NB	JOF 1997 Project Status Reports.pdf	PDF
4/13/2009	PC/NB	JOF Misc Photos.pdf	PDF
4/13/2009	PC/NB	01 JOF 1999 Copied For Item 1.2. Of Epa Letter To Bynum Dated 2-6-99.pdf	PDF
4/13/2009	PC/NB	02 JOF 1999 Copied For Item 1.2. Of Epa Letter To Bynum Dated 2-6-99.pdf	PDF
4/13/2009	PC/NB	03 JOF 1999 Copied For Item 1.2. Of Epa Letter To Bynum Dated 2-6-99.pdf	PDF
4/13/2009	PC/NB	04 JOF 1999 Copied For Item 1.2. Of Epa Letter To Bynum Dated 2-6-99.pdf	PDF
4/13/2009	PC/NB	05 JOF 1999 Copied For Item 1.2. Of Epa Letter To Bynum Dated 2-6-99.pdf	PDF
4/13/2009	PC/NB	01 JOF 2003 Road Repairs.pdf	PDF
4/13/2009	PC/NB	02 JOF 2003 Task Assignment Order.pdf	PDF
4/13/2009	PC/NB	03 JOF 2003 Activities Accomplishments Week If July 28.pdf	PDF
4/13/2009	PC/NB	04 JOF 1981 Repair Of Ash Disposal Area.pdf	PDF
4/13/2009	PC/NB	05 JOF Manhour Cost Estimate Phase Ii Unit 1 2 & 3.pdf	PDF
4/13/2009	PC/NB	06 JOF 2003 Things To Accomplish.pdf	PDF
4/13/2009	PC/NB	07 JOF Environmental Analysis Of Ash Disposal Options Draft.pdf	PDF
4/13/2009	PC/NB	08 JOF Environmental Analysis Of Ash Disposal Options.pdf	PDF
4/13/2009	PC/NB	09 JOF 2003 Recovery Team.pdf	PDF
4/13/2009	PC/NB	10 JOF 2003 Task Assignment Order Tao.pdf	PDF
4/13/2009	PC/NB	11 JOF 2003 North Of Coal Yard.pdf	PDF
4/13/2009	PC/NB	12 JOF 2003 Recovery Team Meeting Minutes & Agenda.pdf	PDF
4/13/2009	PC/NB	13 JOF 2003 Ashpond Reports.pdf	PDF
4/13/2009	PC/NB	15 JOF 2003 Mactec Task Order Proposal For Ash Pond Investigation.pdf	PDF
4/13/2009	PC/NB	16 JOF Poned Fly Ash Test.pdf	PDF
4/13/2009	PC/NB	17 JOF Ash Pond Management Plan.pdf	PDF
4/13/2009	PC/NB	18 JOF Storage Recovery Team Meeting Agenda.pdf	PDF
4/13/2009	PC/NB	19 JOF Effect Of Transash Cell On Fwv.pdf	PDF



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	20 JOF 2003 Ash Management Plan.pdf	PDF
4/13/2009	PC/NB	21 JOF 2003 Recovery Team Activities Accomplishments.pdf	PDF
4/13/2009	PC/NB	22 JOF 2003 2 Additional Holes.pdf	PDF
4/13/2009	PC/NB	23 JOF Johnsonville.pdf	PDF
4/13/2009	PC/NB	24 JOF Ash Friday.pdf	PDF
4/13/2009	PC/NB	25 JOF 1995 Ash Data Law Engineering.pdf	PDF
4/13/2009	PC/NB	26 JOF 2003 Dry Stack Abdn Ash Area.pdf	PDF
4/13/2009	PC/NB	27 JOF Spillway Closure.pdf	PDF
4/13/2009	PC/NB	28 JOF 2003 Nrl Quantities.pdf	PDF
4/13/2009	PC/NB	Main Ash Pond Drawing Topography.cal	CAL
4/13/2009	PC/NB	Ash Pond Prop JOFnc01 (R Values).cal	CAL
4/13/2009	PC/NB	JOF 2002 Slope Stability Analysis .pdf	PDF
4/13/2009	PC/NB	JOF Misc Info.pdf	PDF
4/13/2009	PC/NB	JOF- 10W527- Sh- Rev15.cal	CAL
4/13/2009	PC/NB	Main Ash Complex Topo 9-20-00 J0000029.Pro.cal	CAL
4/13/2009	PC/NB	01 JOF 1994 Final Closure Report - Area 2 Of The Dredged Ash Disposal Facility (Rail Loop Area) - Daily Logs.pdf	PDF
4/13/2009	PC/NB	03 JOF 1994 Final Closure Report - Area 2 Of The Dredged Ash Disposal Facility (Rail Loop Area) - Lab Tests.pdf	PDF
4/13/2009	PC/NB	04 JOF 1994 Final Closure Report - Area 2 Of The Dredged Ash Disposal Facility (Rail Loop Area) - Documents.pdf	PDF
4/13/2009	PC/NB	05 JOF 1994 Final Closure Report - Area 2 Of The Dredged Ash Disposal Facility (Rail Loop Area) - Field Tests.pdf	PDF
4/13/2009	PC/NB	JOF 1994 Final Closure Report Cover Page.pdf	PDF
4/13/2009	PC/NB	02 JOF 1994 Request For Task Proposal.pdf	PDF
4/13/2009	PC/NB	03 JOF 1993 Scope Of Work Partial Closure Of Dry Ash Stack Rr Loop.pdf	PDF
4/13/2009	PC/NB	04 JOF 1993 Request For Task Proposal.pdf	PDF
4/13/2009	PC/NB	05 JOF 1993 Scope Of Work Stage 1 Closure Of Dry Ash Stack Rr Loop.pdf	PDF
4/13/2009	PC/NB	06 JOF 1993 Preliminary Specification Corrosion Protection Of Transmission Line Towers In The Ash Stacking Area.pdf	PDF
4/13/2009	PC/NB	07 JOF 1993 Meeting Clean Stack In The Rr Loop.pdf	PDF
4/13/2009	PC/NB	08 JOF 1991 Closure Post Closure Plan Dredge Ash Disposal Facility (Rail Loop Area) - Tribble & Richardson - Law Engineering.pdf	PDF
4/13/2009	PC/NB	09 JOF 1990 Cost Estimate Request.pdf	PDF
4/13/2009	PC/NB	10 JOF 1990 Scope Of Work - Cost Estimate.pdf	PDF
4/13/2009	PC/NB	10W530-1 Copy.tif	TIF
4/13/2009	PC/NB	10W530-1.tif	TIF
4/13/2009	PC/NB	JOF Photos 3-6-91 Rr Loop Back.tif	TIF
4/13/2009	PC/NB	JOF Photos 3-6-91 Rr Loop.tif	TIF
4/13/2009	PC/NB	JOF Photos Aug 1990 Back.tif	TIF
4/13/2009	PC/NB	JOF Photos Aug 1990.tif	TIF
4/13/2009	PC/NB	01 JOF Fly Ash Bottom Ash & Scrubber Sludge Study Data.pdf	PDF
4/13/2009	PC/NB	02 JOF Calcs Dredge Fly Ash Storage.pdf	PDF
4/13/2009	PC/NB	03 JOF Q Test.pdf	PDF
4/13/2009	PC/NB	04 JOF R Test.pdf	PDF



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	05 JOF Rbar Test.pdf	PDF
4/13/2009	PC/NB	JOF 1986 1988 Crosssections & Computation Sheet.pdf	PDF
4/13/2009	PC/NB	JOF Miscellaneous Info.pdf	PDF
4/13/2009	PC/NB	01 JOF 330 Sluice Line Support.pdf	PDF
4/13/2009	PC/NB	04 JOF330-Bottom Ash & Fly Ash Lines Support And Containment.pdf	PDF
4/13/2009	PC/NB	05 JOF 330 Tech Mtg.pdf	PDF
4/13/2009	PC/NB	06 JOF 330 Support & Containment.pdf	PDF
4/13/2009	PC/NB	07 JOF Plant Phase 1 Kickoff Meeting Agenda.pdf	PDF
4/13/2009	PC/NB	08 JOF 330 Teleconference 1Pm.pdf	PDF
4/13/2009	PC/NB	09 JOF 330 Mtg.pdf	PDF
4/13/2009	PC/NB	10 JOF Categorical Exclusion Checklist.pdf	PDF
4/13/2009	PC/NB	11 JOF Dwg Notes.pdf	PDF
4/13/2009	PC/NB	13 JOF Ppd Rev 1.pdf	PDF
4/13/2009	PC/NB	14 JOF Bottom And Fly Ash Sluice Line Support.pdf	PDF
4/13/2009	PC/NB	15 JOF Trench Docs.pdf	PDF
4/13/2009	PC/NB	16 JOF French Drain System For Trench Dwg Parking Lot.pdf	PDF
4/13/2009	PC/NB	17 JOF Permits And Project Status Mtg.pdf	PDF
4/13/2009	PC/NB	18 JOF Proposed Solutions Support Of Sluice Lines.pdf	PDF
4/13/2009	PC/NB	19 Bottom And Fly Ash Containment.pdf	PDF
4/13/2009	PC/NB	20 JOF Permits.pdf	PDF
4/13/2009	PC/NB	21 JOF Drainage Arrangement Of Dwgs.pdf	PDF
4/13/2009	PC/NB	22 JOF Support And Containment Bottom And Fly Ash Support.pdf	PDF
4/13/2009	PC/NB	23 JOF 330 Bottom Ash & Fly Ash Lines Photos.pdf	PDF
4/13/2009	PC/NB	24 JOF Ash Capital Project Mtg.pdf	PDF
4/13/2009	PC/NB	25 JOF Ash Capital Project Mtg.pdf	PDF
4/13/2009	PC/NB	26 JOF Ash Sluice Line Support And Containment.pdf	PDF
4/13/2009	PC/NB	27 JOF Calcs & Rainfall.pdf	PDF
4/13/2009	PC/NB	29 JOF Wcs Work Completion Statement.pdf	PDF
4/13/2009	PC/NB	30 JOF Draft 6 1 Ash Pipe Containment Phase 1 Reports.pdf	PDF
4/13/2009	PC/NB	31 JOF Ash Sluice Line Support & Containment.pdf	PDF
4/13/2009	PC/NB	32 JOF Estimate Summary & Misc.pdf	PDF
4/13/2009	PC/NB	33 JOF Ash Sluice Line Containment Estimate.pdf	PDF
4/13/2009	PC/NB	34 JOF Temporary Construction Access Road.pdf	PDF
4/13/2009	PC/NB	35 JOF Lifting Beam & Misc.pdf	PDF
4/13/2009	PC/NB	36 JOF Project Planning Document Rev 1.pdf	PDF
4/13/2009	PC/NB	38 JOF Ash Pipe Lifting Beam.pdf	PDF
4/13/2009	PC/NB	39 JOF Drawing For Lifting Device.pdf	PDF
4/13/2009	PC/NB	40 JOF Estimate For Drilling Road.pdf	PDF
4/13/2009	PC/NB	42 Ash Sluic Line Containment.pdf	PDF



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	43 JOF Sluice High Hazzard Lift Plan.pdf	PDF
4/13/2009	PC/NB	44 JOF Estimate Ash Sluice Line Containment.pdf	PDF
4/13/2009	PC/NB	45 JOF Sluice Line Support 50 Percent Design Review.pdf	PDF
4/13/2009	PC/NB	46 JOF Mactec.pdf	PDF
4/13/2009	PC/NB	48 JOF Design Change Notice.pdf	PDF
4/13/2009	PC/NB	49 JOF Project Action Item List.pdf	PDF
4/13/2009	PC/NB	51 JOF Capital Project Justification Form.pdf	PDF
4/13/2009	PC/NB	52 JOF 330 Phase Iii Package Review.pdf	PDF
4/13/2009	PC/NB	54 JOF 2005 Ash Pipe Support & Containment Phase 1 Report.pdf	PDF
4/13/2009	PC/NB	JOF 1994 Geotechnical Evaluation - Ash Pond Dike.pdf	PDF
4/13/2009	PC/NB	JOF 1994 Subsurface Exploration Data - Tva Borings At JOF.pdf	PDF
4/13/2009	PC/NB	JOF 1997 Report Of Subsurface Exploration & Stability Analysis.pdf	PDF
4/13/2009	PC/NB	JOF 1999 Report Of Subsurface Exploration - Proposed Ash Disposal Area.pdf	PDF
4/13/2009	PC/NB	JOF 2000 Report Of Subsurface Exploration - Ash Disposal Area.pdf	PDF
4/13/2009	PC/NB	JOF 2001 Report Of Engineering Services - Ash Dredge Cell Earth Cap Project.pdf	PDF
4/13/2009	PC/NB	01 JOF 2006 Book 3.pdf	PDF
4/13/2009	PC/NB	02 JOF 2006 Misc Email.pdf	PDF
4/13/2009	PC/NB	03 JOF 2006 Estimates.pdf	PDF
4/13/2009	PC/NB	04 JOF 2006 Misc Calcs.pdf	PDF
4/13/2009	PC/NB	05 JOF 2006 Parsons.pdf	PDF
4/13/2009	PC/NB	06 JOF 2004 Rules Of Tn Dep Of Env & Conservation Division Of Water Pollution Control.pdf	PDF
4/13/2009	PC/NB	07 JOF 2006 Tdecs Permitting Handbook - Npdes & State Operating Permit Process.pdf	PDF
4/13/2009	PC/NB	08 JOF 2005 R Petty Emails - Long Term Ash Disposal - Est Quantities.pdf	PDF
4/13/2009	PC/NB	JOF 2006 Ash Capacity Increase Project - Project Planning Document Rev C (Ppd).pdf	PDF
4/13/2009	PC/NB	JOF 2006 Ash Capacity Increase Project - Project Planning Document Rev D (Ppd).pdf	PDF
4/13/2009	PC/NB	JOF 2006 Draft Ash Capacity Increase Project - Project Planning Document Rev D (Ppd).pdf	PDF
4/13/2009	PC/NB	JOF 2006 Misc Handwritten Notes.pdf	PDF
4/13/2009	PC/NB	JOF 2007 Ash Capacity Increase Project - Project Planning Document Rev E (Ppd).pdf	PDF
4/13/2009	PC/NB	JOF Project Planning Document Rev 0 (Ppd).pdf	PDF
4/13/2009	PC/NB	Tva JOF Map 1.jpg	JPG
4/13/2009	PC/NB	Tva JOF Map 2.jpg	JPG
4/13/2009	PC/NB	Tva JOF Map 3.jpg	JPG
4/13/2009	PC/NB	Tva JOF Map 4.jpg	JPG
4/13/2009	PC/NB	Tva JOF Map 5.jpg	JPG
4/13/2009	PC/NB	Tva JOF Map 6.jpg	JPG
4/13/2009	PC/NB	03 JOF 1996 Scenerio For Handling Following Plant Meeting.pdf	PDF
4/13/2009	PC/NB	04 JOF 1996 Delay Area 4 Closure From 1992 To 2002 Dredge Over 3 Year Span.pdf	PDF
4/13/2009	PC/NB	05 JOF 1996 Executive Summary Fhp Fhe Estimating.pdf	PDF
4/13/2009	PC/NB	06 JOF 1996 Minutes Of May 6 1996 Meeting.pdf	PDF



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	07 JOF 1996 Executive Summary Fhp Fhe Estimating.pdf	PDF
4/13/2009	PC/NB	08 JOF 1996 Humphries County Airport Fill Project.pdf	PDF
4/13/2009	PC/NB	09 JOF Capital Project Justification Forms.pdf	PDF
4/13/2009	PC/NB	10 JOF 1996 Trans-Ash Rr Loop Ash Stacking Plan Area 4 Proposal.pdf	PDF
4/13/2009	PC/NB	11 JOF 1995 Long Range Ash Disposal Options.pdf	PDF
4/13/2009	PC/NB	12 JOF 1995 Update On Proposed Activities.pdf	PDF
4/13/2009	PC/NB	13 JOF 1995 Study For Ash Long-Range Plan Land Acquisition.pdf	PDF
4/13/2009	PC/NB	14 JOF 1995 Ash Stacking Plan.pdf	PDF
4/13/2009	PC/NB	15 JOF 1995 By-Product Management Team Meeting Agenda.pdf	PDF
4/13/2009	PC/NB	16 JOF 1995 General Scope.pdf	PDF
4/13/2009	PC/NB	17 JOF 1994 Meeting Minutes.pdf	PDF
4/13/2009	PC/NB	18 JOF 1994 Task Assignment Order Tao.pdf	PDF
4/13/2009	PC/NB	19 JOF 1994 Disposal Options - Estimates Of Cost.pdf	PDF
4/13/2009	PC/NB	20 JOF 1994 Borings.pdf	PDF
4/13/2009	PC/NB	21 JOF 1994 Task Assignment Order Tao.pdf	PDF
4/13/2009	PC/NB	22 JOF 1994 Fly Ash Utilization Project.pdf	PDF
4/13/2009	PC/NB	23 JOF 1994 Fly Ash Utilization Agenda.pdf	PDF
4/13/2009	PC/NB	24 JOF 1994 Proposed Relocation - Changes For Ash Pile Location.pdf	PDF
4/13/2009	PC/NB	25 JOF Misc Drawing.pdf	PDF
4/13/2009	PC/NB	26 JOF Ash Storage Capacity.pdf	PDF
4/13/2009	PC/NB	27 JOF Short Long Term Ash Disposal Plan.pdf	PDF
4/13/2009	PC/NB	28 JOF Areas 1-6 Acres - Storage.pdf	PDF
4/13/2009	PC/NB	29 JOF 1994 Active Ash Pond Kickoff Meeting.pdf	PDF
4/13/2009	PC/NB	30 JOF 1994 Meeting With Sverdrup Co.pdf	PDF
4/13/2009	PC/NB	31 JOF 1994 Pre Johnsonville Meeting.pdf	PDF
4/13/2009	PC/NB	32 JOF 1994 Constant Head Permeability Test Beaver Engineering.pdf	PDF
4/13/2009	PC/NB	33 JOF Why The Flyash Can Not Be Dewatered And Hauled Directly From The Ash Pond.pdf	PDF
4/13/2009	PC/NB	34 JOF Pump Back To The Existing Ash Pond From The Dredge Pond.pdf	PDF
4/13/2009	PC/NB	35 JOF Ash Study.pdf	PDF
4/13/2009	PC/NB	36 JOF Overhead Power Lines In Dry Stacking Area.pdf	PDF
4/13/2009	PC/NB	37 JOF 1994 Phase 1A Input.pdf	PDF
4/13/2009	PC/NB	38 JOF 1993 Phase 1A Initiation.pdf	PDF
4/13/2009	PC/NB	39 JOF Study For Long-Range Byproduct Management.pdf	PDF
4/13/2009	PC/NB	40 JOF 1993 Long Range Plans.pdf	PDF
4/13/2009	PC/NB	41 JOF 1993 Meeting Minutes Ash Disposal.pdf	PDF
4/13/2009	PC/NB	42 JOF 1992 Differential Site Development Quantities.pdf	PDF
4/13/2009	PC/NB	43 JOF Site 2.pdf	PDF
4/13/2009	PC/NB	44 JOF Site 3.pdf	PDF
4/13/2009	PC/NB	45 JOF Gravel Pit.pdf	PDF



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	JOF Pcr.pdf	PDF
4/13/2009	PC/NB	JOF Schedule.pdf	PDF
4/13/2009	PC/NB	Material For Dike Ref Dwgs 10E203-01 02.cal	CAL
4/13/2009	PC/NB	Misc Records.cal	CAL
4/13/2009	PC/NB	01 JOF 2004 Schedules.pdf	PDF
4/13/2009	PC/NB	02 JOF 2004 Meeting Notes.pdf	PDF
4/13/2009	PC/NB	03 JOF 2004 Correspondence.pdf	PDF
4/13/2009	PC/NB	04 JOF 2004 Maps.pdf	PDF
4/13/2009	PC/NB	05 JOF 2004 Design.pdf	PDF
4/13/2009	PC/NB	06 JOF 2001 Cost Est.pdf	PDF
4/13/2009	PC/NB	07 JOF 2001 Option - JOFnrl.pdf	PDF
4/13/2009	PC/NB	08 JOF 2000 2001 Option - JOFnrl Permits.pdf	PDF
4/13/2009	PC/NB	09 JOF 2001 Storm Water Pollution Prevention Plan - Swppp.pdf	PDF
4/13/2009	PC/NB	10 JOF 2001 Operations Manual - North Rail Loop Ash Disposal Facility.pdf	PDF
4/13/2009	PC/NB	11 JOF 2000 Storm Water & Pond Design Calcs.pdf	PDF
4/13/2009	PC/NB	12 JOF 2001 Rev 1 Operations Manual North Rail Loop Ash Disposal Facility.pdf	PDF
4/13/2009	PC/NB	13 JOF 2003 Sepcification John-0-Ts-02210 Rev 0 For Geosynthetic Clay Liner.pdf	PDF
4/13/2009	PC/NB	14 JOF Misc & Estimates North Rail Loop.pdf	PDF
4/13/2009	PC/NB	16 JOF Alternate Form D - Dcn Package Document List (Pdl) For Dcas.pdf	PDF
4/13/2009	PC/NB	JOF Cells 1-3 & Ponds April 27 2004 Not Numbered.cal	CAL
4/13/2009	PC/NB	JOF- 10E200-01- Sh- Rev 5.cal	CAL
4/13/2009	PC/NB	JOF- 421 P 502- Sh- Rev 2.cal	CAL
4/13/2009	PC/NB	Benton Co. Tenn. Map No. 92 & 91.cal	CAL
4/13/2009	PC/NB	Humphreys Co. Tenn. Map No. 88 & 69.cal	CAL
4/13/2009	PC/NB	JOF 2005 Draft Soil Test Boring Record - Soil Classification & Remarks.pdf	PDF
4/13/2009	PC/NB	JOF 2005 Report Of Geotechnical Drilling & Lab Testing - Proposed Causeway Extension.pdf	PDF
4/13/2009	PC/NB	JOF 2006 Proposal For Geotechnical Drilling & Lab Services - Proposed New Ash Pond.pdf	PDF
4/13/2009	PC/NB	JOF 2006 Report Of Subsurface Exploration - Proposed New Ash Storage Area.pdf	PDF
4/13/2009	PC/NB	JOF August 2003 Report Of Ash Pond Investigation.pdf	PDF
4/13/2009	PC/NB	JOF December 2003 Report Of Ash Pond Investigation.pdf	PDF
4/13/2009	PC/NB	JOF 1970 Kentucky Reservation Maps & Survey Branch.pdf	PDF
4/13/2009	PC/NB	JOF 2005 Spreadsheet Report - Nr Loop Proj Estimates.pdf	PDF
4/13/2009	PC/NB	JOF 2006 Additional Ash Capacity - Option 3M.pdf	PDF
4/13/2009	PC/NB	JOF 2006 Additional Ash Capacity - Phase 1B - Schedule Commitments.pdf	PDF
4/13/2009	PC/NB	JOF 2006 Ash Capacity Increase Project - Horizontal Auger Hydraulic Dredge Case Study Paper.pdf	PDF
4/13/2009	PC/NB	JOF 2006 Categorical Exclusion Checklist For Proposed Tva Actions.pdf	PDF
4/13/2009	PC/NB	JOF 2006 Dredge Case Studies Email Conrad Worleyparson.pdf	PDF
4/13/2009	PC/NB	JOF 2006 Economic Eval Of JOF 455 - Transport System Options.pdf	PDF
4/13/2009	PC/NB	JOF 2006 Misc Email Meeting Minutes - Density - Footprint.pdf	PDF



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	JOF 2006 Site Volume Table - Unadjusted - Ash Pond.pdf	PDF
4/13/2009	PC/NB	JOF Caterpillar Commercial Vessels.pdf	PDF
4/13/2009	PC/NB	JOF Fmsm Engineers Drawing - Additional Ash Disposal Study Recommended Disposal Options & Topography Within Five Miles.pdf	PDF
4/13/2009	PC/NB	JOF Proposed Access Drawing.pdf	PDF
4/13/2009	PC/NB	JOF Proposed Ash Storage Area & Embankment Drawing 2.pdf	PDF
4/13/2009	PC/NB	JOF Proposed Ash Storage Area & Embankment Drawing.pdf	PDF
4/13/2009	PC/NB	01 JOF 1977 Memo Ash Disposal Area 2 Dike Raising.pdf	PDF
4/13/2009	PC/NB	02 JOF 1977 Cost Estimate.pdf	PDF
4/13/2009	PC/NB	03 JOF 1977 Request For Cost Estimate For Ash Disposal Pond Construction.pdf	PDF
4/13/2009	PC/NB	04 JOF Existing Dike Sketch.pdf	PDF
4/13/2009	PC/NB	05 JOF Dike Raising Estimates.pdf	PDF
4/13/2009	PC/NB	06 JOF Future Ash-Disposal Area.pdf	PDF
4/13/2009	PC/NB	07 JOF Development Of Ash Disposal Area.pdf	PDF
4/13/2009	PC/NB	09 JOF 1977 Ash Disposal Area Expansion.pdf	PDF
4/13/2009	PC/NB	10 JOF 1975 Ash Pond South Alternate Calcs & Sketches.pdf	PDF
4/13/2009	PC/NB	11 JOF 1974 Misc Note.pdf	PDF
4/13/2009	PC/NB	12 JOF 1973 Ash Disposal Areas - Inspection Trip.pdf	PDF
4/13/2009	PC/NB	13 JOF 1973 Reclamation Of Abandoned Ash Areas - Inspection Trip.pdf	PDF
4/13/2009	PC/NB	14 JOF 1973 Ash Disposal Ponds A And B.pdf	PDF
4/13/2009	PC/NB	15 JOF 1973 Handwritten Ash Pond Dike Reclamation Note.pdf	PDF
4/13/2009	PC/NB	16 JOF Ash Pond Dike - Location Of Base Line.pdf	PDF
4/13/2009	PC/NB	17 JOF 1973 Existing Ash Dikes - Superseded Drawings.pdf	PDF
4/13/2009	PC/NB	18 JOF 1973 Baseline For Cross Sections - Abandoned Ash Pond Dike.pdf	PDF
4/13/2009	PC/NB	20 JOF 1972 Release Of Abandoned Ash Disposal Ponds A And B To E.I. Du Pont Dr Nemours.pdf	PDF
4/13/2009	PC/NB	21 JOF 1972 Environmental Controls - Solids Meeting With Tva - Pond Rework.pdf	PDF
4/13/2009	PC/NB	22 JOF 1973 Estimate - Ash Pond Reclamation.pdf	PDF
4/13/2009	PC/NB	23 JOF 1971 Additional Ash Handling Equipment - Dry Scheme.pdf	PDF
4/13/2009	PC/NB	24 JOF 1971 Unit 7-10 Additional Ash Handling Equipment.pdf	PDF
4/13/2009	PC/NB	25 JOF 1971 Barge Unloading Alternatives Letters.pdf	PDF
4/13/2009	PC/NB	26 JOF 1970 List Of Names.pdf	PDF
4/13/2009	PC/NB	27 JOF 1970 Release Of Ash Disposal Pond Rights To Dupont Company.pdf	PDF
4/13/2009	PC/NB	28 JOF 1970 Ash Disposal Area B - Slag Testing.pdf	PDF
4/13/2009	PC/NB	29 JOF 1969 Ash Pond - Soil & Foundation Exploration.pdf	PDF
4/13/2009	PC/NB	30 JOF 1970 Conversation With Ro Lane Concerning Tests Performed On The Existing Ash Dike.pdf	PDF
4/13/2009	PC/NB	31 JOF 1969 Ash Dike Estimate Of Capacity - Determine No Of Spillways Required To Maintain Approx Equal Elevation In Pond And Lake.pdf	PDF
4/13/2009	PC/NB	32 JOF Total Pump Capacity Present System (Before New Prec).pdf	PDF
4/13/2009	PC/NB	33 JOF 1969 Ash Disposal Area.pdf	PDF
4/13/2009	PC/NB	34 JOF 1969 Expansion Of Ash Disposal Area.pdf	PDF
4/13/2009	PC/NB	35 JOF Records Parrish Thomas.pdf	PDF



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	36 JOF 1969 Ash Ponds At Tva Steam Plants.pdf	PDF
4/13/2009	PC/NB	37 JOF 1969 Ash Dike Repairs.pdf	PDF
4/13/2009	PC/NB	38 JOF 1969 Ash Disposal Area No 2 - Revised Design Schedule.pdf	PDF
4/13/2009	PC/NB	39 JOF 1969 Ash Dike.pdf	PDF
4/13/2009	PC/NB	40 JOF 1969 Ash Dike For New Pond.pdf	PDF
4/13/2009	PC/NB	41 JOF 1969 New Ash Pond - Area For Borrow Inside Pond.pdf	PDF
4/13/2009	PC/NB	42 JOF 1969 Area Available For Borrow Inside New Pond.pdf	PDF
4/13/2009	PC/NB	43 JOF 1969 Volumes Fill.pdf	PDF
4/13/2009	PC/NB	44 JOF 1969 Construction Of New Ash Pond.pdf	PDF
4/13/2009	PC/NB	45 JOF 1969 Ash Dike For New Pond.pdf	PDF
4/13/2009	PC/NB	46 JOF Earth Quantities Ash Dike.pdf	PDF
4/13/2009	PC/NB	47 JOF 1969 Ash Pond West Of Boat Harbor - Quantity Estimate.pdf	PDF
4/13/2009	PC/NB	48 JOF 1969 Capacity Of New Ash Pond @ El 370 377 & 384.pdf	PDF
4/13/2009	PC/NB	49 JOF 1969 New Ash Pond For Borrow Inside Pond.pdf	PDF
4/13/2009	PC/NB	50 JOF 1969 Ash Dike West Of Boat Harbor - Estimate Of Quantities In Dike.pdf	PDF
4/13/2009	PC/NB	51 JOF 1969 Ash Dike West Of Boat Harbor - Earth Quantities To Raise The Dike.pdf	PDF
4/13/2009	PC/NB	52 JOF 1969 Memos Parrish Thomas Ash Disposal.pdf	PDF
4/13/2009	PC/NB	53 JOF 1969 Ash Pond Meetings Between Design And Power And Tva And Dupont.pdf	PDF
4/13/2009	PC/NB	54 JOF 1969 Inspection Of Ash Dike Break.pdf	PDF
4/13/2009	PC/NB	55 JOF 1969 Ash Dike West Of Boat Harbor - Flood Data.pdf	PDF
4/13/2009	PC/NB	56 JOF 1969 Ash Pond Calcs.pdf	PDF
4/13/2009	PC/NB	57 JOF 1969 Elimination Of Head Equalizing Slot In Dike.pdf	PDF
4/13/2009	PC/NB	58 JOF 1969 New Ash Disposal - Calculations Of CI Dike.pdf	PDF
4/13/2009	PC/NB	59 JOF 1969 Ash Disposal.pdf	PDF
4/13/2009	PC/NB	60 JOF Grassing (Ash Dike).pdf	PDF
4/13/2009	PC/NB	61 JOF 1968 Ash Dike Quantities.pdf	PDF
4/13/2009	PC/NB	62 JOF 1968 Ash Area Quantities Ash Capacity And Earth Fill.pdf	PDF
4/13/2009	PC/NB	63 Col 1969 Location Of New Ash Disposal Pond.pdf	PDF
4/13/2009	PC/NB	64 JOF 1968 New Ash Area Relocation Of West Dike.pdf	PDF
4/13/2009	PC/NB	65 JOF 1968 Ash Disposal Area West Of Boat Harbor - Cross Sections.pdf	PDF
4/13/2009	PC/NB	66 JOF 1968 Ash Dike Proposed By Mcgraw.pdf	PDF
4/13/2009	PC/NB	67 JOF 1968 Ash Dike Cross Dike To El 370.pdf	PDF
4/13/2009	PC/NB	68 JOF 1968 Proposed Ash Disposal Area - Plans And Specifications.pdf	PDF
4/13/2009	PC/NB	69 JOF 1968 Ash Dikes Calcs Capacity.pdf	PDF
4/13/2009	PC/NB	70 JOF 1968 Ash Disposal Area No. 2.pdf	PDF
4/13/2009	PC/NB	71 JOF 1949 321A506 Rev 1.pdf	PDF
4/13/2009	PC/NB	72 JOF 1968 Ash-Disposal Pond.pdf	PDF
4/13/2009	PC/NB	73 JOF 1968 Ash-Disposal Spillway.pdf	PDF
4/13/2009	PC/NB	74 JOF 1968 Ash Disposal Dikes.pdf	PDF



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	75 JOF 1968 Ash-Disposal Pond.pdf	PDF
4/13/2009	PC/NB	76 JOF 1968 Ashdisposal Area West Of Boat Harbor.pdf	PDF
4/13/2009	PC/NB	77 JOF 1968 Traverse Computations.pdf	PDF
4/13/2009	PC/NB	78 JOF 1968 Ash Disposal Area No. 2.pdf	PDF
4/13/2009	PC/NB	79 JOF 1968 Ash Disposal.pdf	PDF
4/13/2009	PC/NB	80 JOF 1967 Ash Disposal Studies.pdf	PDF
4/13/2009	PC/NB	81 JOF 1967 Ash Disposal Pond.pdf	PDF
4/13/2009	PC/NB	82 JOF 1966 1967 Ash Disposal Studies.pdf	PDF
4/13/2009	PC/NB	83 JOF 1967 Cost Estimate.pdf	PDF
4/13/2009	PC/NB	84 JOF 1967 Ash Disposal Areas.pdf	PDF
4/13/2009	PC/NB	85 JOF 1967 Ash Ponds.pdf	PDF
4/13/2009	PC/NB	86 JOF 1967 Additional Ash-Disposal Area.pdf	PDF
4/13/2009	PC/NB	87 JOF 1967 Ash Disposal Pond.pdf	PDF
4/13/2009	PC/NB	88 JOF 1967 Ash Disposal Studies.pdf	PDF
4/13/2009	PC/NB	89 JOF 1967 Ash Disposal Pond.pdf	PDF
4/13/2009	PC/NB	90 JOF 1967 Cost Estimate.pdf	PDF
4/13/2009	PC/NB	Kentucky Lake Ash Pond A B & C Section C-C.cal	CAL
4/13/2009	PC/NB	Kentucky Lake Safety Harbor 2.cal	CAL
4/13/2009	PC/NB	Kentucky Lake Safety Harbor.cal	CAL
4/13/2009	PC/NB	Main Plant Dike For Ash Disposal Area 10N503 Rev 7.cal	CAL
4/13/2009	PC/NB	Topography Johnsonville Site 461K509-B-5 R Top Of Dike Elevation 365.0.cal	CAL
4/13/2009	PC/NB	Topography Johnsonville Site 461K509-B-5 R.cal	CAL
4/13/2009	PC/NB	JOF 1988 Material Evaluations.pdf	PDF
4/13/2009	PC/NB	JOF 2002 N. Rail Loop Disposal Facility.pdf	PDF
4/13/2009	PC/NB	01 JOF 2000 Operations Manual - North Rail Loop Ash Disposal Facility.pdf	PDF
4/13/2009	PC/NB	02 JOF 2000 Operations Manual - Appendix A.pdf	PDF
4/13/2009	PC/NB	03 JOF 2000 Operations Manual - Appendix B.pdf	PDF
4/13/2009	PC/NB	04 JOF 2000 Operations Manual - Appendix C.pdf	PDF
4/13/2009	PC/NB	05 JOF 2000 Operations Manual - Appendix D.pdf	PDF
4/13/2009	PC/NB	06 JOF 2000 Operations Manual - Appendix E.pdf	PDF
4/13/2009	PC/NB	07 JOF 2000 Operations Manual - Appendix F.pdf	PDF
4/13/2009	PC/NB	08 JOF 2000 Operations Manual - Appendix G.pdf	PDF
4/13/2009	PC/NB	09 JOF 2000 Operations Manual - Appendix H.pdf	PDF
4/13/2009	PC/NB	JOF-10W222-1-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-10-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-11-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-12-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-13-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-14-Sht -Rev 0 .cal	CAL



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	JOF-10W222-14-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-15-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-2-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-3-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-4-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-5-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-6-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-7-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-8-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W222-9-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	01 JOF Cover.pdf	PDF
4/13/2009	PC/NB	02 JOF 1992 Dredged Ash Disposal Permit No Idl 431020082.pdf	PDF
4/13/2009	PC/NB	03 JOF Alternative Permeability Testing Of Pond Liners.pdf	PDF
4/13/2009	PC/NB	04 JOF Thermoplastic Pipe.pdf	PDF
4/13/2009	PC/NB	05 JOF Scope Of Work - Cost Estimate.pdf	PDF
4/13/2009	PC/NB	06 JOF Ash Pond Dredge Drawings.pdf	PDF
4/13/2009	PC/NB	07 JOF 1992 Request For Task Proposal.pdf	PDF
4/13/2009	PC/NB	10 JOF 1990 Scope Of Work - Cost Estimate - Raise New Dredge Cell And Final Closure& New Dredge Pond.pdf	PDF
4/13/2009	PC/NB	11 JOF 1990 Ash Pond Construction Of Second Dike.pdf	PDF
4/13/2009	PC/NB	12 JOF 1990 Phase Ii Dredge Cell.pdf	PDF
4/13/2009	PC/NB	14 JOF 1990 Application For Solid Waste Disposal Permit For Dredged Ash Disposal Area - Sargent & Lundy.pdf	PDF
4/13/2009	PC/NB	15 JOF 1991 Handwritten Notes Exist Rr Loop.pdf	PDF
4/13/2009	PC/NB	16 JOF 1991 Scope Of Work - Cost Estimate.pdf	PDF
4/13/2009	PC/NB	17 JOF 1991 New Dredge Pond - Phase I - Calcs & Sketches.pdf	PDF
4/13/2009	PC/NB	18 JOF 1991 Future Ash Dredging - Stacking Activity.pdf	PDF
4/13/2009	PC/NB	19 JOF 1991 Handwritten Costs.pdf	PDF
4/13/2009	PC/NB	20 JOF 1991 Revised Project Authorization.pdf	PDF
4/13/2009	PC/NB	21 JOF 1991 Cost Estimates.pdf	PDF
4/13/2009	PC/NB	22 JOF 1991 Work Breakdown Summary Schedule.pdf	PDF
4/13/2009	PC/NB	23 JOF 1991 Detailed Cost Justification Statement.pdf	PDF
4/13/2009	PC/NB	23 JOF 1991 Handwritten Estimates.pdf	PDF
4/13/2009	PC/NB	24 JOF 1991 Detailed Cost Justification Statement.pdf	PDF
4/13/2009	PC/NB	25 JOF Attachment No 1 Map Over Kentucky Lake.pdf	PDF
4/13/2009	PC/NB	JOF- 10W218- Sh 1- Rev 0.cal	CAL
4/13/2009	PC/NB	JOF- 10W218- Sh 2- Rev 0.cal	CAL
4/13/2009	PC/NB	JOF- 10W218- Sh 3- Rev 0.cal	CAL
4/13/2009	PC/NB	JOF- 10W218- Sh 4- Rev 0.cal	CAL
4/13/2009	PC/NB	JOF- 10W3264- Sh - Rev 0.cal	CAL
4/13/2009	PC/NB	Section Of The Drawing That Supersedes 10N200R16.cal	CAL



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	02 JOF 2001 Scope Of Work.pdf	PDF
4/13/2009	PC/NB	03 JOF 2001 Cost Estimate - Covering The Dupont Cell.pdf	PDF
4/13/2009	PC/NB	04 JOF 2001 Rev 1 Tva Task Assignment Order Tao.pdf	PDF
4/13/2009	PC/NB	05 JOF 2000 Misc Note Slope Stability Analysis.pdf	PDF
4/13/2009	PC/NB	06 JOF 2000 Preliminary Field Logs B-1 B-2.pdf	PDF
4/13/2009	PC/NB	07 JOF 2000 Approx Location Of Soil Borings.pdf	PDF
4/13/2009	PC/NB	08 JOF 2000 Tva Task Assignment Order Tao.pdf	PDF
4/13/2009	PC/NB	09 JOF 2000 Lawgibb Cost Estimate.pdf	PDF
4/13/2009	PC/NB	10 JOF 2000 Stabliity Analysis Report.pdf	PDF
4/13/2009	PC/NB	11 JOF 2000 Waste Products Study Report.pdf	PDF
4/13/2009	PC/NB	12 JOF 2000 Dupont Dredge Pond.pdf	PDF
4/13/2009	PC/NB	13 JOF 2000 Dupont Dredge Cell Soil Parameters.pdf	PDF
4/13/2009	PC/NB	15 JOF Dredged Fly Ash Storage.pdf	PDF
4/13/2009	PC/NB	16 JOF Fly Ash Bottom Ash & Scrubber Sludge Strength Testing Summary.pdf	PDF
4/13/2009	PC/NB	17 JOF 2000 Contract Invoice.pdf	PDF
4/13/2009	PC/NB	18 JOF Dupont Cell Cover.pdf	PDF
4/13/2009	PC/NB	19 JOF 1990 Design Cost Estimate.pdf	PDF
4/13/2009	PC/NB	20 JOF Raise New Dredge Cell & Final Closure Bill Of Materials.pdf	PDF
4/13/2009	PC/NB	01 JOF 2003 Ash Landfill Final Permit Notice.pdf	PDF
4/13/2009	PC/NB	02 JOF 2000 Roll Test Data Report.pdf	PDF
4/13/2009	PC/NB	05 JOF 1998 Request For Proposal Rfp - Removeal Of Poned Fly Ash - Recommendation Of Award.pdf	PDF
4/13/2009	PC/NB	06 JOF 1998 Closure Bid.pdf	PDF
4/13/2009	PC/NB	07 JOF 1998 Ash Drudging Kickoff.pdf	PDF
4/13/2009	PC/NB	07 JOF 1998 Edr F&Hp Environmental Decision Record.pdf	PDF
4/13/2009	PC/NB	08 JOF 1998 Bid Spreadsheets.pdf	PDF
4/13/2009	PC/NB	10 JOF 1998 Minimum Net Clearances Distances From Live Parts.pdf	PDF
4/13/2009	PC/NB	11 JOF 1998 Liner Bid.pdf	PDF
4/13/2009	PC/NB	12 JOF 1998 Request For Proposal Rfp Removal Of Poned Fly Ash.pdf	PDF
4/13/2009	PC/NB	13 JOF 1998 Items For Addendum - Removal Of Poned Fly Ash.pdf	PDF
4/13/2009	PC/NB	14 JOF 1998 Project Authorization Summary.pdf	PDF
4/13/2009	PC/NB	15 JOF 1998 Ash Handling Project.pdf	PDF
4/13/2009	PC/NB	17 JOF 1998 Tva Purchasing Requisition.pdf	PDF
4/13/2009	PC/NB	18 JOF 1998 Requisition Request Sheet.pdf	PDF
4/13/2009	PC/NB	19 JOF 1998 Rfp Discussion Glover.pdf	PDF
4/13/2009	PC/NB	20 JOF 1998 Short Code For O&M - Dredging Of South End Rr Loop.pdf	PDF
4/13/2009	PC/NB	21 JOF 1998 Draft Agenda For Ash Meeting.pdf	PDF
4/13/2009	PC/NB	22 JOF 1998 Closure Post Closure Plan - Long Term Ash Disposal.pdf	PDF
4/13/2009	PC/NB	23 JOF 1998 List Of Bidders For The Rfp.pdf	PDF
4/13/2009	PC/NB	24 JOF 1998 Ash Meeting - Need To Complete The Following.pdf	PDF



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	25 JOF 1998 Contract With Law Enggr And Environmental Services.pdf	PDF
4/13/2009	PC/NB	26 JOF 1997 Ash Disposal Area Boring Locations.pdf	PDF
4/13/2009	PC/NB	27 JOF 1997 Short Long Term Disposal Plan Meeting.pdf	PDF
4/13/2009	PC/NB	28 JOF 1997 Postpone Meeting - Agenda - Cash Flow - Schedule - Project Status - Closure Plan.pdf	PDF
4/13/2009	PC/NB	29 JOF 1997 Long Range Ash Disposal.pdf	PDF
4/13/2009	PC/NB	30 JOF 1997 Law Enggr & Environmental Services.pdf	PDF
4/13/2009	PC/NB	31 JOF 1997 Ash Dredge Stack O&M Projects - Private.pdf	PDF
4/13/2009	PC/NB	32 JOF 1997 Fossil Supply - Rr Loop Area Dredge Cell Closure Plan.pdf	PDF
4/13/2009	PC/NB	33 JOF 1997 Ash Plans - Action Items From Meeting.pdf	PDF
4/13/2009	PC/NB	34 JOF 1997 Approval Of Invoice.pdf	PDF
4/13/2009	PC/NB	35 JOF 1997 Ash Pond Free Water Volume - Storage Capacity.pdf	PDF
4/13/2009	PC/NB	36 JOF 1997 Preliminary Documentation Of Help Simulation.pdf	PDF
4/13/2009	PC/NB	38 JOF 1997 Preliminary Finished Grading Plan.pdf	PDF
4/13/2009	PC/NB	39 JOF 1996 Survey Of Main Ash Pond.pdf	PDF
4/13/2009	PC/NB	40 JOF 1997 Cost Estimate And Scope Of Work - Rr Loop Area Dredge Cell Modeling & Hydrogeologic Report.pdf	PDF
4/13/2009	PC/NB	41 JOF Cost Estimate And Scope Of Work Draft.pdf	PDF
4/13/2009	PC/NB	42 JOF Drawing Boring Layout On Existing Topography.pdf	PDF
4/13/2009	PC/NB	44 JOF 1993 Closure Post-Closure Plan Dredged Ash Disposal Facility (Rail Loop Area) By Tribble & Richardson And Law.pdf	PDF
4/13/2009	PC/NB	45 JOF 1997 Bearings & Plant Coordinates.pdf	PDF
4/13/2009	PC/NB	46 JOF 1997 Task Order.pdf	PDF
4/13/2009	PC/NB	47 JOF 1997 Task Assignment Order Tao.pdf	PDF
4/13/2009	PC/NB	48 JOF Misc Topo Maps.pdf	PDF
4/13/2009	PC/NB	49 JOF Short Code For 4836 Law Engg Norris Lab Hydrogeologic Study.pdf	PDF
4/13/2009	PC/NB	50 JOF 1997 Borings.pdf	PDF
4/13/2009	PC/NB	51 JOF 1997 Borings.pdf	PDF
4/13/2009	PC/NB	53 JOF 1997 Solid Waste Disposal Strategy - Schedule.pdf	PDF
4/13/2009	PC/NB	54 JOF 1997 Resubmit Rr Loop Closure Plan.pdf	PDF
4/13/2009	PC/NB	55 JOF 1997 Erosion Repair And Reseeding.pdf	PDF
4/13/2009	PC/NB	56 JOF 1997 Long Range Ash Disposal - Phase 3 Project Initiation.pdf	PDF
4/13/2009	PC/NB	57 JOF 1997 Landfill Environment Requirements Pcn 4629.pdf	PDF
4/13/2009	PC/NB	58 JOF 1997 Clean Out Stack Rr Loop Dredge Cell Spend Plan.pdf	PDF
4/13/2009	PC/NB	59 JOF 1996 Additional O&M Required For Ash Handling.pdf	PDF
4/13/2009	PC/NB	60 JOF 1996 Project Authorization Summary.pdf	PDF
4/13/2009	PC/NB	61 JOF 1996 Spend Plan Change Control.pdf	PDF
4/13/2009	PC/NB	62 JOF Hed Costs Acc Npv Costs Mis Reports Disposal Summary.pdf	PDF
4/13/2009	PC/NB	63 JOF Annual Production Of Ash.pdf	PDF
4/13/2009	PC/NB	64 JOF 1996 Capital Project.pdf	PDF
4/13/2009	PC/NB	65 JOF 1996 Budget Adjustments.pdf	PDF
4/13/2009	PC/NB	66 JOF Pcn 4638 & Pcn 4629 Proposed Budget Adjustments.pdf	PDF



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	67 JOF Ash Fill Against Transmission Towers.pdf	PDF
4/13/2009	PC/NB	68 Ash Fill Against Transmission Towers.pdf	PDF
4/13/2009	PC/NB	69 Ash Fill Against Transmission Towers.pdf	PDF
4/13/2009	PC/NB	70 JOF 1996 Area 4 Proposal.pdf	PDF
4/13/2009	PC/NB	71 JOF Groundwater Assessment.pdf	PDF
4/13/2009	PC/NB	JOF 88 Proposed Gravity Dm.pdf	PDF
4/13/2009	PC/NB	JOF Dec 88 Ext Slope @ Plant Const Cell Photo.pdf	PDF
4/13/2009	PC/NB	JOF Dec 88 Plant Const Cell 2.pdf	PDF
4/13/2009	PC/NB	JOF Dec 88 Plant Const Cell 3.pdf	PDF
4/13/2009	PC/NB	JOF Dec 88 Plant Const Cell.pdf	PDF
4/13/2009	PC/NB	Topographical.cal	CAL
4/13/2009	PC/NB	Topography Main Ash Complex_J0000012.Pro.cal	CAL
4/13/2009	PC/NB	JOF 1994 Analysis Of Char - Sbm - Fly Ash & Bottom Ash.pdf	PDF
4/13/2009	PC/NB	JOF 1994 Analysis Of Crushed Stone - Fly Ash - Bottom Ash.pdf	PDF
4/13/2009	PC/NB	JOF 1994 Analysis Of Lime - Fly Ash.pdf	PDF
4/13/2009	PC/NB	JOF 1994 Volume 1 Analysis Of Fly Ash - Cement.pdf	PDF
4/13/2009	PC/NB	JOF 1994 Volume Ii Analysis Of Fly Ash - Cement.pdf	PDF
4/13/2009	PC/NB	01 JOF 1990 Ash Area In Rr Loop.pdf	PDF
4/13/2009	PC/NB	02 JOF 1981 Ash Storage.pdf	PDF
4/13/2009	PC/NB	03 JOF 1981 Cost Estimate.pdf	PDF
4/13/2009	PC/NB	04 JOF 1981 Ash Disposal Area Inside Rr Loop.pdf	PDF
4/13/2009	PC/NB	05 JOF Fill Volume - North Dredge Pond Nw Dike - Ash Disposal Area Within Rr Loop.pdf	PDF
4/13/2009	PC/NB	06 JOF Fill Volume - Dredge Pond Divider Dike - Ash Disposal Area Within Rr Loop.pdf	PDF
4/13/2009	PC/NB	06 JOF Fill Volume - North Dredge Pond Ne Dike - Ash Disposal Area Within Rr Loop.pdf	PDF
4/13/2009	PC/NB	08 JOF Fill Volume - Main Runoff Control Dike - Ash Disposal Area Within Rr Loop.pdf	PDF
4/13/2009	PC/NB	08 JOF Fill Volume - South Dredge Pond South Dike - Ash Disposal Area Within Rr Loop.pdf	PDF
4/13/2009	PC/NB	10 JOF Cut Volume - North Dredge Pond - Ash Disposal Area Within Rr Loop.pdf	PDF
4/13/2009	PC/NB	11 JOF Cut Volume - South Dredge Pond - Ash Disposal Area Within Rr Loop.pdf	PDF
4/13/2009	PC/NB	12 JOF 1981 Cost Estimate Request.pdf	PDF
4/13/2009	PC/NB	13 JOF 1981 Dry Fly Ash Storage Estimate.pdf	PDF
4/13/2009	PC/NB	14 JOF 1981 Siting Program Flood Studies.pdf	PDF
4/13/2009	PC/NB	15 JOF 1981 Cost Estimate.pdf	PDF
4/13/2009	PC/NB	16 JOF 1981 Man Hour Estimate Summary & Cost Worksheet.pdf	PDF
4/13/2009	PC/NB	17 JOF Dry Stacking Volume Inside Rail Loop.pdf	PDF
4/13/2009	PC/NB	18 JOF 1980 Dry Fly Ash Storage Area.pdf	PDF
4/13/2009	PC/NB	19 JOF 1980 Misc Proposed Dry Flyash Handling Collection.pdf	PDF
4/13/2009	PC/NB	19 JOF 1980 Possible Site For Dry Ash Disposal Area.pdf	PDF
4/13/2009	PC/NB	JOF Ash Storage Sketch.cal	CAL
4/13/2009	PC/NB	Tvanjcl.Dwg Sheet 2 Of 3.cal	CAL



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	Tvanjcs.Dwg Sheet 3 Of 3.cal	CAL
4/13/2009	PC/NB	Tvanjex.Dwg Sheet 1 Of 3.cal	CAL
4/13/2009	PC/NB	JOF 1969 Ash Pond - Soil & Foundation Exploration.pdf	PDF
4/13/2009	PC/NB	01 JOF 2002 Waste Disposal Permit & Ash Stacking Plan - Operations Manual Rev 1.pdf	PDF
4/13/2009	PC/NB	02 JOF 2002 Appendix A.pdf	PDF
4/13/2009	PC/NB	03 JOF 2002 Appendix B.pdf	PDF
4/13/2009	PC/NB	04 JOF 2002 Appendix C.pdf	PDF
4/13/2009	PC/NB	05 JOF 2002 Appendix D.pdf	PDF
4/13/2009	PC/NB	06 JOF 2002 Appendix E.pdf	PDF
4/13/2009	PC/NB	07 JOF 2002 Appendix F.pdf	PDF
4/13/2009	PC/NB	08 JOF 2002 Appendix G.pdf	PDF
4/13/2009	PC/NB	09 JOF 2002 Appendix H.pdf	PDF
4/13/2009	PC/NB	10 JOF 2002 Site Information.pdf	PDF
4/13/2009	PC/NB	11 JOF 2002 Description Of Solid Wastes.pdf	PDF
4/13/2009	PC/NB	12 JOF 2002 Daily Operations.pdf	PDF
4/13/2009	PC/NB	13 JOF 2002 Surface Water Management.pdf	PDF
4/13/2009	PC/NB	14 JOF 2002 Geologic Buffer.pdf	PDF
4/13/2009	PC/NB	15 JOF 2002 Gas Control.pdf	PDF
4/13/2009	PC/NB	16 JOF 2002 Leachate Control.pdf	PDF
4/13/2009	PC/NB	17 JOF 2002 Groundwater Monitoring.pdf	PDF
4/13/2009	PC/NB	18 JOF 2002 Environ Protection Statements.pdf	PDF
4/13/2009	PC/NB	19 JOF 2002 Closure & Post Closure.pdf	PDF
4/13/2009	PC/NB	20 JOF 2002 Quality Assurance - Quality Control.pdf	PDF
4/13/2009	PC/NB	21 JOF 2002 References.pdf	PDF
4/13/2009	PC/NB	22 JOF 2002 Appendix B.pdf	PDF
4/13/2009	PC/NB	23 JOF 2002 Appendix B.pdf	PDF
4/13/2009	PC/NB	24 JOF 2002 Appendix C.pdf	PDF
4/13/2009	PC/NB	25 JOF 2002 Appendix D.pdf	PDF
4/13/2009	PC/NB	26 JOF 2002 Appendix E.pdf	PDF
4/13/2009	PC/NB	27 JOF 2002 Appendix F.pdf	PDF
4/13/2009	PC/NB	28 JOF 2002 Appendix G.pdf	PDF
4/13/2009	PC/NB	29 JOF 2002 Appendix H.pdf	PDF
4/13/2009	PC/NB	JOF 1988 Offsite & Onsite Dredge Fly Ash Storage Areas Addendum.pdf	PDF
4/13/2009	PC/NB	JOF 1988 Offsite & Onsite Dredge Fly Ash Storage Areas Misc.pdf	PDF
4/13/2009	PC/NB	JOF 1988 Offsite & Onsite Dredge Fly Ash Storage Areas.pdf	PDF
4/13/2009	PC/NB	JOF 1997 Hydrology Of Rail Loop Dredged Ash Stacking Area.pdf	PDF
4/13/2009	PC/NB	JOF2_1A.Out.txt	TXT
4/13/2009	PC/NB	JOF5_4.Out.txt	TXT
4/13/2009	PC/NB	JOF5_4A.Out.txt	TXT



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	JOF5_5.Out.txt	TXT
4/13/2009	PC/NB	JOF5_5A.Out.txt	TXT
4/13/2009	PC/NB	JOF6_2.Out.txt	TXT
4/13/2009	PC/NB	JOF6_2A.Out.txt	TXT
4/13/2009	PC/NB	JOF6_3.Out.txt	TXT
4/13/2009	PC/NB	JOF6_3A.Out.txt	TXT
4/13/2009	PC/NB	JOF6_4A.Out.txt	TXT
4/13/2009	PC/NB	JOF7_1.Out.txt	TXT
4/13/2009	PC/NB	JOF7_1A.Out.txt	TXT
4/13/2009	PC/NB	JOF7_2.Out.txt	TXT
4/13/2009	PC/NB	JOF7_2A.Out.txt	TXT
4/13/2009	PC/NB	JOF7_3.Out.txt	TXT
4/13/2009	PC/NB	JOF7_3A.Out.txt	TXT
4/13/2009	PC/NB	JOF8_1.Out.txt	TXT
4/13/2009	PC/NB	JOF8_1A.Out.txt	TXT
4/13/2009	PC/NB	JOF8_2.Out.txt	TXT
4/13/2009	PC/NB	JOF8_2A.Out.txt	TXT
4/13/2009	PC/NB	JOF8_3.Out.txt	TXT
4/13/2009	PC/NB	JOF8_3A.Out.txt	TXT
4/13/2009	PC/NB	JOF9_10.Out.txt	TXT
4/13/2009	PC/NB	JOF9_2.Out.txt	TXT
4/13/2009	PC/NB	JOF9_3.Out.txt	TXT
4/13/2009	PC/NB	JOF9_4.Out.txt	TXT
4/13/2009	PC/NB	JOF9_6.Out.txt	TXT
4/13/2009	PC/NB	JOF9_7.Out.txt	TXT
4/13/2009	PC/NB	JOF9_8.Out.txt	TXT
4/13/2009	PC/NB	JOF9_9.Out.txt	TXT
4/13/2009	PC/NB	JOF_Run2_1.Out.txt	TXT
4/13/2009	PC/NB	JOF 1995 Groundwater Assessment.pdf	PDF
4/13/2009	PC/NB	JOF 2000 Hydrogeologic Evaluation Of Proposed North Railroad Loop Ash Disposal Facility Revision.pdf	PDF
4/13/2009	PC/NB	JOF 1998 Closure-Post Closure Plan Dredge Ash Disposal (Rail Loop Area).pdf	PDF
4/13/2009	PC/NB	JOF 1995 Poned Fly Ash (New & Old Dredge Cells - Active Ash Pond) & Bottom Ash.pdf	PDF
4/13/2009	PC/NB	JOF 1948 Geology Of The New Johnsonville Steam Plant Site.pdf	PDF
4/13/2009	PC/NB	JOF 1987 Test Request & Boring Logs.pdf	PDF
4/13/2009	PC/NB	JOF- 461K509 E-4.cal	CAL
4/13/2009	PC/NB	JOF- 461K509 E-5 Rev 1.cal	CAL
4/13/2009	PC/NB	JOF 10E200-01 Rev 5.cal	CAL
4/13/2009	PC/NB	JOF 10E201-01 Rev 6.cal	CAL
4/13/2009	PC/NB	JOF 10E201-02 Rev 6.cal	CAL



**Coal Combustion Product Disposal Facility Assessment
Phase 1 Document Review Form
Johnsonville Fossil Plant (JOF)**

Date Reviewed	Reviewed by	Comments	File Type
4/13/2009	PC/NB	JOF 10E202-01 Rev 3.cal	CAL
4/13/2009	PC/NB	JOF 10N503 Rev 7.cal	CAL
4/13/2009	PC/NB	JOF 10N528 Rev 9.cal	CAL
4/13/2009	PC/NB	JOF 10N529 Rev 3.cal	CAL
4/13/2009	PC/NB	JOF 10W222-01 Rev 0.cal	CAL
4/13/2009	PC/NB	JOF 10W222-03 Rev 0.cal	CAL
4/13/2009	PC/NB	JOF 10W222-04 Rev 0.cal	CAL
4/13/2009	PC/NB	JOF 10W222-05 Rev 0.cal	CAL
4/13/2009	PC/NB	JOF 10W222-06 Rev 0.cal	CAL
4/13/2009	PC/NB	JOF 10W222-07 Rev 0.cal	CAL
4/13/2009	PC/NB	JOF 10W222-08 Rev 0.cal	CAL
4/13/2009	PC/NB	JOF 10W222-09 Rev 0.cal	CAL
4/13/2009	PC/NB	JOF 10W222-10 Rev 0.cal	CAL
4/13/2009	PC/NB	JOF 10W222-13 Rev 0.cal	CAL
4/13/2009	PC/NB	JOF 10W526-13 Rev 2.cal	CAL
4/13/2009	PC/NB	JOF 10W527 Rev 13.cal	CAL
4/13/2009	PC/NB	JOF 10W527-13 Rev 0.cal	CAL
4/13/2009	PC/NB	JOF 10W527-2 Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10N502-Sht -Rev 14.cal	CAL
4/13/2009	PC/NB	JOF-10N700-Sht -Rev 0.cal	CAL
4/13/2009	PC/NB	JOF-10W527-Sht -Rev 15.cal	CAL
4/13/2009	PC/NB	JOF-21W720-1-Sht -Rev 1.cal	CAL
4/13/2009	PC/NB	JOF-21W720-2-Sht -Rev 2.cal	CAL
4/13/2009	PC/NB	JOF-21W720-3-Sht -Rev 1.cal	CAL
4/13/2009	PC/NB	Johnsonvillehydrogeologyofrailandredgedashstackingarea.pdf	PDF
4/13/2009	PC/NB	Johnsonvilleoperationsmanualdredgedashdisposalareaapril2001.pdf	PDF
4/13/2009	PC/NB	Johnsonvillesiteandonsitedredgedflyashstorageareassmesoi87035Feb21988.pdf	PDF
4/16/2009	PJC	JOF_Ap-D_Closure_Report(2003).pdf	PDF
4/16/2009	PJC	JOF_Ash_Pond_Insp_Fy08_Rev1.pdf	PDF
4/16/2009	PJC	10W227 Section K-K - Ash Pond Proposed Stack .cal	CAL
4/16/2009	PJC	01 JOF 1994 Clean Stack In The Rr Loop.pdf	PDF
4/16/2009	PJC	02 JOF 330 Telegon Nb Both Options.pdf	PDF
4/16/2009	PJC	199-03.cal	CAL
4/16/2009	PJC	2006 Additional Ash Disposal Capacity Markup .cal	CAL