



## TVA Disposal Facility Assessment Phase 1 Plant Summary John Sevier Fossil Plant (JSF)

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Location:	John Sevier Fossil Plant (JSF) 611 Old Highway 70 S Rogersville, Hawkins County, TN 37857
	Latitude: 36.376 N                      Longitude: 82.969 W
Plant Contact:	Jamey Dotson Program Manager Phone: 423-290-7269      Email: vjdotson@tva.gov
Facts and Figures:	The John Sevier Fossil Plant has four coal-fired generating units and generates five billion kilowatt-hours of electricity a year. Construction began in 1952 and was completed in 1957. The plant consumes approximately 5,700 tons of coal per day. It is located along the Holston River in Rogersville, Tennessee.
Coal Combustion Byproduct Disposal:	Approximately 215,000 tons of dry fly ash is collected in silos each year and hauled to an onsite permitted dry stack disposal area (Dry Fly Ash Disposal Area). Approximately 100,000 dry tons of fly ash is marketed offsite to the concrete industry. Approximately 20,000 dry tons per year of bottom ash is wet-sluciced to Bottom Ash Disposal Area 2. At the Bottom Ash Disposal Area, bottom ash is collected and sent offsite by Appalachian Products.
Geology and Seismicity:	The John Sevier Fossil Plant is located in the eastern portion of Tennessee along the southern flank of the Holston River just east (upstream) of the confluence of the river and Dodson Creek. As such, much of the site is underlain by alluvium and terrace deposits varying in thickness from less than 5 feet along the tributary stream banks to more than 30 feet adjacent to the river. Typical of alluvium in this region of the state, these soils consist of sands, silts, and gravels with few interspersed cobbles. The underlying bedrock consists of the Ordovician age Sevier Shale Formation, a silty to sandy calcareous shale with thin limestone layers and lenses of siltstone and sandstone. Solution weathering and the development of karst features may occur in the more calcareous zones of the bedrock unit. Seismic events affecting eastern Tennessee, and thus the plant site, primarily emanate from three zones of earthquake activity – the New Madrid Seismic Zone (NMSZ), Southern Appalachia Seismic Zone (SASZ), and the South Carolina Seismic Zone (SCSZ). The most active zone of the SASZ, the East Tennessee Seismic Zone (ETSZ), extends from northwestern



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Georgia through east Tennessee and is situated in close proximity to the plant. However, most earthquakes emanating from this zone are relatively low in magnitude, with the largest known event in the ETSZ registering a magnitude of 4.6, suggesting a moderate risk of damage from a seismic event. In contrast, if a large earthquake were to occur within the New Madrid zone to the west, damage to East Tennessee would be possible. 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:

- Dry Fly Ash Disposal Area
- Sediment Pond West (Former Stilling Pond)
- Bottom Ash Disposal Area 2
- Ash Disposal Area J
- Sediment Pond East



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1. General Facility Information

Facility Status: Active

Surface Area: 90 acres (estimated)      Maximum Height (toe to top of stack): 120 feet (estimated)

2. Site Visit Information

Stantec Assessment Team: Roger Denick, PE and John Beam, PG

TVA Staff Present: Denver Bennett and Roger Sims

Field Assessment Dates: January 16, 2009 and February 23, 2009

Weather/Site Conditions: Sunny, low teens (January 16, 2009), low to mid 30 degrees F, partly sunny (February 23, 2009)

3. History/Description of Usage

History, Operation and Stacking Plan:

The Dry Fly Ash Disposal Area was originally a series of ash ponds when the plant went online in 1955. The ponds were lettered from A to G with A being the most eastern pond and G being the most western (west half of Area G is now the Sediment Pond West). At the beginning of the plant operations, only Areas A, B and C were active and water was discharged to the river through a spillway in Area C. In 1971, Areas A, B, and C were abandoned and ash was sluiced to Areas D, E and F (spillway in F discharged to river). In 1973, sluicing stopped to areas D, E, and F due to a dike failure in E (though spillway still active) and areas H and I were activated (spillway in I to drainage channel along main plant road). In 1974, areas A, B, C, D, E, and F were used as disposal areas for dredged bottom ash. In 1976, Area G was activated in the west end of the current Dry Fly Ash Disposal Area, and received all sluiced fly ash while Areas H and I received all sluiced bottom ash. In 1979, the Bottom Ash Disposal Area 2 was activated and all sluicing stopped to the Dry Fly Ash Disposal Area. At this same time, Areas A through I were designated for dry ash disposal and Area G was filled and abandoned. In 1982, the bathtub area was constructed in the eastern portion of the Dry Fly Ash Disposal Area. In 1984, the bathtub area began receiving



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dredged bottom ash from the Bottom Ash Disposal Area 2. In 1990, all bottom ash was sluiced to the bathtub area as Bottom Ash Disposal Area 2 was offline. In 1993, dry fly ash began being stacked in the bathtub area, in addition to stacking done in Areas A through I. An operations manual was developed in 1999 for the dry fly ash stacking facility by Tribble & Richardson (along with Law Engineering). In 2001-2002, the eastern two thirds of the north dike was regraded to provide better stability to the dike. A seepage collection system (with two pumps) was constructed in the vicinity of two old clay pipes in the northeast corner in 2000 and expanded as part of the regrading in 2001-2002. Currently approximately 215,000 tons of dry fly ash is collected in silos each year and hauled to an onsite permitted dry stack disposal area (Dry Fly Ash Disposal Area). Approximately 100,000 dry tons of fly ash is marketed offsite to the concrete industry.

Stacking over Dredge Cells or CCB Ponds: Yes. Area use to be a series of ash ponds (see history).

Past Failures/Releases: May 26, 1973 - portion of north dike in what use to be Pond E, failed into the Holston River when area was a series of ponds.  
Other significant slides and sloughs have occurred after the area was transformed to a dry ash disposal area, but none of these released material offsite. The most notable of these were reported in 1989, 1990, 1997 and 2007 inspection reports (see below).

4. Owner's Operations, Maintenance and Inspection Information

TVA Maintenance: Mowing and removal of excess vegetation on the ponds and dry stacks are done once per year in late summer, early fall. Other maintenance work is done on an as-needed basis.

TVA Inspections: TVA Engineering performs annual dike inspections and prepares reports. Plant personnel also perform quarterly red water seep inspections.



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Problems Previously  
Identified During Past TVA  
Inspections:

Reference to concerns related to steep slopes (1967 - 1971)  
Failure noted on north side dike between Ponds E and F (1973)  
Small seep at Area C at location of an abandoned discharge pipe (1974)  
Raised water levels may cause sloughing of interior slopes (1982)  
Leakage in the east discharge pipe (1984)  
Spring at toe of north dike (1988)  
100 feet long x 20 feet deep slide at toe of north side slope. (200' tension cracks in same area)(1989)  
Repaired 1989 slide still had tension cracks at slide location. Several small failures occurred (1990 - 1991)  
Sloughing failures occurred along east dike (1993 - 1994)  
Some sloughing occurred at toe of west dike of Stilling Pond (1994)  
Seepage occurring at some of 4 abandoned/plugged clay discharge pipes at northeast corner of facility. (Primarily Pipes 3 and 4) (1995 - 1999)  
100' Slough at northeast corner of dike (1997 - 1999)  
General concerns expressed about steep slopes after stability analysis showed a factor of safety less than 1.0 at several areas (2000)  
Small seeps in vicinity of Clay Pipe 3 persist. Other seeps noted. Concern about ruptured pipes in dike expressed in 2001 (2000 - 2002).  
50 feet x 25 feet slough reported on lower slope of ash stack near river (2007)

## 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 10H291-1 through 10H291-12,  
10W206-1 through 10W206-11, 10N290, 10N295,  
10N296, 10N297, 10N298, 10N299, 10N400 through  
10N403, 10W204-1 through 10W204-9, 17W445-1  
through 17W445-4, 10W204-C1 through 10W204-C11,  
10W204-1 through 10W204-12



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TVA As-Built Drawings:	None available;
TVA Construction Testing Records:	None available;
TVA Annual Inspection Reports:	TVA Annual Inspection Reports from 1967 to 2008.
Geotechnical Data:	Preliminary Geotechnical Investigations for the John Sevier Steam Plant (TVA, 1952), Draft Engineering Report, Dry Ash Disposal Area (TVA, 1986), Report of Hydrogeologic and Engineering Evaluation (Revised) Proposed Dry Fly Ash Disposal Facility (Law Engineering, 1994), Geotechnical Evaluation of Ash Pond Dike Facility (Parsons Energy and Environmental Services, Inc., 1999) Fly Ash Pond Dike Slope Stability Evaluation (Parsons Energy and Environmental Services, Inc., 1999) Report of Geotechnical Exploration; Dike Exploration and Testing Program (Law Engineering, 1999).

6. Stantec Field Observations

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

6.1. Exterior Slopes and Benches

Vegetation:	Open stack on top with ash sides surrounded by a clay berm, slopes below ash stack are vegetated with grass and light brush, some trees near river bank on north and east side.
Trees:	Dense trees noted on lower slopes near river bank on section 1. Isolated trees on river side of access road on north side.
Erosion:	Erosion gully on east side in exposed ash on upslope of Sediment Pond East.
Instabilities:	Western third of north slope has not been regraded the same way the rest of the slope was and therefore may be less stable. (see observations)



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Uniform Appearance	Area of north slope regraded in 2001 (east portion) has uniform slope and is well vegetated. West half of north dike is irregular but well vegetated.
Benches:	Two main benches, mostly along north side and are marked with roads. First bench from stack is the perimeter road (15 feet wide) with main drainage ditch (50 feet wide). Second bench is below first bench and contains the access road (10 feet wide).
Slope:	From clay berm to perimeter road: 2.7H:1V to 3.3H:1V From perimeter road to access road: 3H:1V Access road to river: 2H:1V and steeper
Height:	120 feet from top of stack to river at measured section 2.
Other:	Clay berm separates the exposed ash from the vegetated exterior slopes. This berm has failed recently in five places and may have contributed to accumulation of ash in drainage channel below it. Four of these berm failures were located on the north side.  Animal burrows are noticed in slope between perimeter road and access road.

6.2. Perimeter Drainage Ditches and Down-Drains

Vegetation:	Grass on drainage ditches, rip rap channels from stack to drainage ditches. Rip rap channels have some vegetation and brush in them.
Rip-Rap Channel Lining:	Rip rap present near outlet to Sediment Pond West. Rest of drainage channels do not have rip rap.
Erosion:	None observed.
Siltation in Ditches:	Fly ash has accumulated in the drainage ditch along the Perimeter Road. This is observed along the entire length of the ditch.
Standing Water in Ditches or on Benches:	Standing water is observed in drainage channel along perimeter road along length of north slope and portion so south slope.
Silted/Impeded Drainage Pipes:	None observed.



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Other:

7. Notable Observations and Concerns

- The current Dry Fly Ash Disposal Area is located over past ash ponds and dredge cells and has had numerous historical instabilities along the north dike which borders the Holston River. Currently, several wet areas, including a red water seep, have been detected in the northeast corner of the disposal area in the area of past sloughs. Construction of embankments and stacking over hydraulically placed ash is a potential slope stability issue and is a concern.
- Wetness is observed along the access road in several places, most notably in the northeast corner in the area of the 2007 slough. Ponding water was noticed under the gravel in the road. Recent wet conditions at the site may be contributing to this.
- The red water seep noted above was observed approximately 240 feet west of the northeast riprap channel on the slope between the ash berm and the perimeter road. The red seep area measured 9 feet by 10 feet and a small flow was observed in 3-4 separate areas. This seep area is located almost directly above the wet area on the access road on the slope below.
- A wet area and possible seep was located between the two sump pumps on the north slope. Standing water was noted upslope from the west most pump and soggy soils extended approximately 300 feet east to the other pump. Loose, soggy soils were also noted near the eastern pump around the rusted standpipe. This area has had some seepage issues in the past due to presence of old clay pipes and should be monitored.
- The clay berm that surrounds the exposed ash at the top of the stack has failed in several places due to heavy rains in January 2009. The resulting failure deposited ash into the drainage channel below. Standing water and ash deposits were observed in the drainage channel along the perimeter road.
- Several animal burrows were noted in the northeast exterior slope near the ash silos.
- On the north side on the upslope from the Perimeter Road, a dip in the stack grade was noted. This low area had ash in the drainage channel below it and appeared to convey runoff from the exposed ash in the stack to the drainage channel below.
- The north slope was re-graded in 2001-2002 for the area below the perimeter road to Holston River. This re-graded area extends from the northeast corner of the stack westward to the connector road connecting the access road to the perimeter road, roughly two-thirds of the dike. The area that was not re-graded in 2001-2002 has a non-uniform but well vegetated surface. The irregular surface conditions include:



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- An apparent slumped area along perimeter road measuring approximately 400 feet long.
- A raised area was observed starting at the east end of the slide noted above. The raised area was approximately 2 feet above the neighboring ground, 18 feet wide and extending the entire slope between the perimeter road and the access road.
- Numerous smaller depression and mounds on the slope between the perimeter road and the access road were observed.
- Two animal burrows were observed in the raised area noted above.
- Trees and brush noted in rip rap channels extending from top of stack to drainage ditch near perimeter road on northeast, northwest, and southwest corners of Dry Fly Ash Disposal Area.
- Standing water was noted on the northeast side on the lower bench prior to the access road. The water was noticed below the outfall of a 42 inch concrete pipe and patches of rip rap.
- A 24 inch concrete pipe was observed in the slope between the access road and the perimeter road, just east of the noted raised area in the slope. This appears to be the former spillway outlet pipe from Area F. Pipe was cracked and half filled with silt. Wetness was noted in the vicinity of this pipe. A concrete riser structure was noted upslope of this pipe on the next bench and they are believed to be connected. It is unknown how this pipe was abandoned or if it is still active.

## 8. Recommendations

### 8.1. Phase 2 Engineering and Programmatic Recommendations

- It is recommended that the Dry Fly Ash Disposal Area undergo further engineering study to evaluate the seepage on the north slope, to evaluate slope stability, and to evaluate the stacking plan over former ash ponds.
- Review of past documentation for the facility has shown multiple drawings for this area to document the recent changes including the 10W204 drawings that have been done within the past year (2008). However, closer examination of these drawings have shown that the topography used for the drawings appears to be pre 2001 as it does not show the access road located on the slope below the perimeter road. It is recommended that new mapping be prepared for this area to accurately depict current conditions.



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- It is recommended that the existing Operations and Maintenance Plan be updated for the facility.
- During the 2001-2002 regrading, the piezometers on the north side of the Dry Fly Ash Disposal Area were abandoned. It is recommended that a monitoring plan be put in place including the installation of piezometers, slope inclinometers and surface monuments.
- A re-grading plan should be developed for the drainage ditch along the perimeter road to provide positive surface runoff to the Sediment Pond West.

#### 8.2. Maintenance Recommendations

- Repair animal burrows where noted.
- Clean out ash deposited in drainage channels along the Dry Fly Ash Disposal Area and regrade channels to drain towards Sediment Pond West (former Stilling Pond).
- Clear trees and brush from the rip rap drainage channels in the northeast, northwest and southwest corners of the Dry Fly Ash Disposal Area.
- Regrade western third of north dike of Dry Fly Ash Disposal Area to match the eastern portion of the north dike regraded in 2001.
- Raise low area in northeast side of Dry Fly Ash Disposal Area upslope from Perimeter Road to eliminate runoff swale for dry fly ash runoff.
- Evaluate the status of the 24 inch concrete discharge pipe located east of the raised area in the north dike of the Dry Fly Ash Disposal Area and presumed to be the former spillway outlet from Area F. If this pipe is still active, clean siltation and brush for proper drainage. If this pipe is abandoned, properly plug or grout pipe.
- Provide temporary vegetation or widen clay berm in areas of ponding water to eliminate further release of ash into the drainage channel in the Dry Fly Ash Disposal Area. Monitor clay berm during and after heavy rainfalls for potential signs of failure.
- Continue to monitor noted seeps and wet areas for change of conditions.
- Continue mowing program on slopes but avoid leaving deep ruts from mowing on side slopes.



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Sediment Pond West (P-W)**

1. General Facility Information

Facility Status:	Active	NID Identification:	Not known
Surface Area (inside dikes):	3 acres	Maximum Height (toe to top of dike):	44 feet (estimated north end crest to reservoir)
Free Water Volume:	Unknown	Maximum Water Storage:	Unknown
Estimated CCB Storage:	N/A	Dike Length:	1500 feet (estimated)
Plant Discharge to Facility:	N/A	Current Pool Elevation:	1090 (estimated)

2. Site Visit Information

Stantec Assessment Team:	Roger Denick, PE and John Beam, PG
TVA Staff Present:	Denver Bennett and Roger Sims
Field Assessment Dates:	January 16, 2009 and February 25, 2009
Weather/Site Conditions:	Sunny, low teens (January 16, 2009), low to mid 40 degrees F, partly cloudy (February 25, 2009)

3. History/Description of Usage

History and Operation:	Sediment Pond West currently takes runoff from the Dry Fly Ash Disposal Area from a 42 inch concrete pipe and 36 inch CMP in the northeast corner of the pond and discharges the effluent to Polly Branch through two 36" concrete riser spillways. In the past, this pond was named Area G and began operation in 1976 and received all sluiced fly ash from the plant. It was abandoned in 1979, but the spillways remained active. In 1984, construction began on turning the west portion of Area G into a stilling pond for the bathtub area of dry fly ash stack.
Past Failures/Releases:	No failures or releases reported.



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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 John Sevier Fossil Plant, covering all active facilities.
TVA Maintenance:	Mowing and removal of excess vegetation on the ponds and dry stacks are done once per year in late summer, early fall. Other maintenance work is done on an as-needed basis.
TVA Inspections:	TVA Engineering performs annual dike inspections and prepares reports. Plant personnel also perform quarterly red water seep inspections.
Problems Previously Identified During Past TVA Inspections:	West toe of exterior slope eroded and exposed a spring (1975) Wetness observed over 100 feet of north exterior slope (1978) Some soughing occurred at toe of west dike of Stilling Pond (1994) Sloughing at toe of west dike to pond (1994) Seepage along entire lower west bank (2002-2003) Slough noted on both sides of stairs at sedimentation pond (2008)

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 number 10N295(R3), 10N296(R2), 10N297 (R2)
TVA As-Built Drawings:	None available.
TVA Construction Testing Records:	None available.
TVA Annual Inspection Reports:	TVA Annual Inspection Reports from 1967 to 2008.



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Geotechnical Data: Preliminary Geotechnical Investigations for the John Sevier Steam Plant (TVA, 1952), Draft Engineering Report, Dry Ash Disposal Area (TVA, 1986), Report of Hydrogeologic and Engineering Evaluation (Revised) Proposed Dry Fly Ash Disposal Facility (Law Engineering, 1994), Geotechnical Evaluation of Ash Pond Dike Facility (Parsons Energy and Environmental Services, Inc., 1999) Fly Ash Pond Dike Slope Stability Evaluation (Parsons Energy and Environmental Services, Inc., 1999) Report of Geotechnical Exploration; Dike Exploration and Testing Program (Law Engineering, 1999).

6. Stantec Field Observations

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

6.1. Interior Slopes

Vegetation:	Grass and brush.
Trees:	None observed
Wave Wash Protection:	None observed, except around inlets on northeast corner of pond.
Erosion:	None observed.
Instabilities:	Some slumps and depressions were noted on along east side. A slight slump was observed on the west side near the riser structures.
Animal Burrows:	None observed.
Freeboard:	<b>Measured:</b> 10 feet (all sections) <b>Design:</b> 4 feet (maximum pond elevation, 10N296 R2)
Encroachments:	None observed.
Slope:	<b>Measured:</b> 2.5H:1V (Section 4) 1.5H:1V (Section 6) 2H:1V (Section 7) 1.8H:1V (Section 8) <b>Design:</b> 2H:1V (10N296 R2)



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6.2. Crest

Crest Cover and Slope:	Gravel road with grass shoulders. Relatively Level.
Erosion:	None observed.
Alignment:	Good.
Settlement/Cracking:	None observed.
Bare Spots/Rutting:	None observed .
Width:	<b>Measured:</b> 15 feet (Sections 6-8) 30 feet (Section 4) <b>Design:</b> 16 feet (10N296 R2)

6.3. Exterior Slopes

Vegetation:	Wooded with trees and brush on south and west side, grass with rip rap at river bank on north side, and grass on east side (shared with Dry Fly Ash Disposal Area).
Trees:	Trees were observed on west and south side.
Erosion:	None observed.
Instabilities:	None observed.
Uniform Appearance:	Good.
Seepage:	Red water seeps have been noted in the past on the west slope, but none were observed during the field assessment.
Benches:	1 bench located on north slope only, 18 feet below the crest. 11 feet wide.
Foundations, Drains, Relief Wells, Instrumentation:	None observed.
Animal Burrows:	None observed.



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Slope:	<b>Measured:</b> Ranges from 1.7H:1V (section 6) to 2.5H:1V (section 8) <b>Design:</b> 3H:1V (10N296 R2)
Height:	<b>Measured:</b> 44 feet (section 8, crest to reservoir) <b>Design:</b> 18 feet (on north end, crest to original ground, 10N296 R2)

6.4. Spillway Weirs/Riser Inlets

Number:	Two (2) total, in west end of pond.
Size, Type and Material:	36 inch diameter, concrete riser structures.
Height of Riser Inlets:	7 feet (10N296 R2).
Access:	No direct access, boat located on bank .
Joints:	Unable to observe.
Mis-Alignment:	Unable to observe.
Closed/Abandoned Conduits:	None noted.

6.5. Outlet Pipes

Number:	Two (2), discharging into Polly Branch west of the pond.
Size, Type and Material:	36 inch concrete.
Headwall:	None observed.
Joint Separations:	None observed.
Mis-Alignment:	None observed.
Closed/Abandoned Conduits:	None observed.



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7. Notable Observations and Concerns

- Outlet structure is two push together RCP structures.
- Past plans have shown three – 36 inch pipes flowing to the pond from the drainage channel along the main plant road on the south side. Only one of the three inlet pipes was located during the field assessment.
- Slight slump was noted on interior slope on west side of pond near outlet structures.
- Small slumps and depressions were observed on the east interior slope of the pond. These areas were well vegetated. The slumps may have been caused by tree and brush removal from the slopes.

8. Recommendations

8.1. Phase 2 Engineering and Programmatic Recommendations

- Based on the limited as-built drawings available, it is recommended that a program be established to develop current conditions / as-built drawings to record future modifications to this facility. Construction records should also be included as part of this program to record and quantify construction means, methods and results.
- It is recommended that the existing Operations & Maintenance Plan be updated.
- It is recommended that an Emergency Action Plan be developed to identify concerns and actions necessary to effectively manage the concerns.

8.2. Maintenance Recommendations

- Repair erosion and sloughed areas where noted on interior slopes of ponds. Any slope steeper than 3H:1V should be lined with rip-rap to help reduce future erosion.
- Continue to monitor areas of past seeps and wet areas for change of conditions.
- Locate the two 36 inch concrete pipes that could not be field verified.
- Monitor concrete spillway risers and joints and repair as needed. This spillway may ultimately be modified or replaced, pending Stantec-TVA assessment.



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Bottom Ash Disposal Area 2 (BAD-2)**

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1. General Facility Information

Facility Status:	Active	NID Identification:	TN07311
Surface Area (inside dikes):	41 acres (estimated)	Maximum Height (toe to top of dike):	37 feet (measured at section 25)
Free Water Volume:	N/A	Maximum Water Storage:	N/A
Estimated CCB Storage:	942,000 tons	Dike Length:	8600 feet (estimated)
Plant Discharge to Facility:	6.4 MGD	Current Pool Elevation:	1133 (estimated)

2. Site Visit Information

Stantec Assessment Team:	Roger Denick, PE and John Beam, PG
TVA Staff Present:	Denver Bennett and Roger Sims
Field Assessment Dates:	January 16, 2009 and February 24, 2009
Weather/Site Conditions:	Sunny, low teens (January 16, 2009), low to mid 30 degrees F, partly sunny (February 24, 2009).

3. History/Description of Usage

History and Operation: The Bottom Ash Disposal Area 2 came online in 1979 to receive all sluiced bottom ash and infrequent sluiced fly ash. A stilling pond exists in the west end of the area, accessed through a rock weir in an internal dike. Bottom ash was stacked in the southeastern portion of the area, starting in 1981. In 1987, sluicing stopped at Area 2 and the ash was dry hauled offsite for disposal. Ash was again sluiced to this area starting sometime between 1990 and 1993. In 1999, a bottom ash collection facility was constructed in the eastern part of the site and run by Appalachian Products, for offsite marketing of bottom ash. Currently, the Bottom Ash Disposal Area 2 receives sluiced bottom ash, intermittent fly ash (sluiced to separate trench for settlement), and discharges from the



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Bottom Ash Disposal Area 2 (BAD-2)**

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Coal Yard Runoff Pond and Chemical Treatment Pond - Iron. Approximately 20,000 dry tons per year of bottom ash is wet-sluciced to the bottom ash disposal area 2.

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 John Sevier Fossil Plant, covering all active facilities.

TVA Maintenance: Mowing and removal of excess vegetation on the ponds and dry stacks are done once per year in late summer, early fall. Other maintenance work is done on an as-needed basis.

TVA Inspections: TVA Engineering performs annual dike inspections and prepares reports. Plant personnel also perform quarterly red water seep inspections.

Problems Previously Identified During Past TVA Inspections: Water/Spring noted from clay pipe(s) along north dike. (1981 - 1990)  
Wet/seep area on north dike near access road (1984 - 2004)  
Soft area observed along south dike (1984)  
Two low flow seeps near toe of north dike, west of access road. Red stained area on south toe (1996)  
Concerns expressed about possible ruptured ash inlet pipes crossing Polly Branch (2002 - 2003)

#### 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 10W293-1 through 10W293-3, 10W294-1, 10N297 (spillway section)

TVA As-Built Drawings: None available.

TVA Construction: None available.



**TVA Disposal Facility Assessment  
Phase 1 Coal Combustion Product Disposal  
Facility Summary  
John Sevier Fossil Plant (JSF)  
Bottom Ash Disposal Area 2 (BAD-2)**

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Testing Records:

TVA Annual Inspection Reports: TVA Annual Inspection Reports from 1967 to 2008.

Geotechnical Data: Preliminary Geotechnical Investigations for the John Sevier Steam Plant (TVA, 1952), Report of Geotechnical Exploration; Dike Exploration and Testing Program (Law Engineering, 1999).

6. Stantec Field Observations

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

6.1. Interior Slopes

Vegetation: Bare ash with sparse brush in east portion of pond, east of internal divider dike. Rest of pond has adequate to dense grass and brush.

Trees: None observed.

Wave Wash Protection: Rip rap placed in northwest corner in Stilling Pond (average diameter 12 to 18 inch). Area had past slope instability (2007).

Erosion: Internal ash dike separating inactive dredge area and ash pond has numerous erosion gullies and one noticeable slide on west bank along ash pond.

Instabilities: North side, west half of pond has noticeable irregular slopes with minor slumps, slides and depressions throughout. This area is well vegetated and none of these look recent.

Animal Burrows: None observed.

Freeboard: **Measured:** 7 feet (Section 24)  
12 to 14 feet (Sections 25 through 28)  
**Design:** 18 feet (10W293-2)

Encroachments: Southeast portion of pond has become an inactive bottom ash dredge cell. Internal dike was constructed out of ash to separate this area from the pond.



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Slope: **Measured:** 2H:1V (all sections)  
**Design:** 2H:1V or flatter (10W293-2)

6.2. Crest

Crest Cover and Slope: Gravel road with grass shoulders. Relatively level.  
Erosion: None was observed.  
Alignment: Good.  
Settlement/Cracking: None was observed.  
Bare Spots/Rutting: None was observed.  
Width: **Measured:** 15-20 feet (all sections)  
**Design:** 16 feet (10W293-2)

6.3. Exterior Slopes

Vegetation: Grass on south side.  
Grass, heavy brush and trees on north side.  
Trees: Moderate to dense on north side.  
Wooded area located downslope from south bench.  
Erosion: None was observed.  
Instabilities: Minor slumping and irregularities on west slope of Stilling Pond.  
Southwest corner of Stilling Pond near access road contained an area 33 feet x 51 feet of multiple depressions and mounds.  
Uniform Appearance: South exterior slope looks good.  
North exterior slope is steep and overly vegetated. Trees present on slope.  
Seepage: Wet areas were noted along south slope. No standing water but wetness located in tire ruts (low area).  
Ponding areas observed in the lower, wooded area south of the southern dike. Unsure if this is local runoff or downstream seepage or boil.  
Benches: 1 located on south side at toe of slope prior to reaching wooded area. Width varies from 38 feet to 55 feet.



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**Bottom Ash Disposal Area 2 (BAD-2)**

Foundations, Drains, Relief Wells, Instrumentation:	None observed.
Animal Burrows:	Multiple animal burrows located on south side. Two located in wooded area on north exterior slope.
Slope:	<b>Measured:</b> 1.7H:1V (Sections 24-26) 2H:1V (Section 27 and 30) 3H:1V (Section 28 and 29) <b>Design:</b> 2H:1V (10W293-2)
Height:	<b>Measured:</b> 20 feet (measured Section 24) 37 feet (measured Section 25) 30 feet (measured Section 26) 13 feet, to bench (measured Section 27) 9 feet, to bench (measured Section 28) 2.5 feet, to bench (measured Section 29) 18 feet, to bench (measured Section 30) <b>Design:</b> 22 feet (10W293-2, crest to original ground at spillway section)

6.4. Spillway Weirs/Riser Inlets

Number:	Two (2) - located in northwest corner of Stilling Pond.
Size, Type and Material:	48 inch Concrete riser pipe with skimmer.
Height of Riser Inlets:	7 feet (10W293-2).
Access:	No access.
Joints:	Unable to adequately observe.
Mis-Alignment:	Unable to adequately observe.
Closed/Abandoned Conduits:	None observed.

6.5. Outlet Pipes

Number:	Two (2) - discharging into Polly Branch to the northwest of the Stilling Pond.
Size, Type and Material:	36 inch concrete pipes.
Headwall:	None.
Joint Separations:	None observed.



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Mis-Alignment:                      None observed.

Closed/Abandoned Conduits:   None observed.

7.      Notable Observations and Concerns

- Steep exterior slopes were noted on the north side of the disposal area. These slopes are steeper than 2H:1V.
- Trees and heavy growth were observed on the north side exterior slopes.
- Slope irregularities were noticed on the interior slopes of the Bottom Ash Pond and Stilling Pond. Area is vegetated and the irregularities do not seem recent.
- Noticeable surging was observed in the culvert pipe between the ash channel and ash pond. This pipe was located in an internal dike.
- Wet areas were observed in the forested area south of the southern embankment. It is currently unknown if this was from local runoff or from the pond. This area should be monitored.
- Numerous animal burrows were observed in the south exterior slope.
- Tire ruts with wetness in the depressions are observed along south exterior bench.
- A slump and numerous erosion gullies were noticed on the east side of the internal ash dike dividing the inactive dredge area and the ash channel. Ash dike was comprised of bare ash.
- Outlet from stilling pond is through two concrete riser structures discharging into Polly Branch. RCP push-together riser structure spillways are a concern.

8.      Recommendations

8.1.    Phase 2 Engineering and Programmatic Recommendations

- It is recommended that Bottom Ash Disposal Area 2 undergo further engineering study to evaluate slope stability.
- Review of past inspection reports have shown one design drawing (10W293-1) constantly being referenced and marked up to show improvements and changes in pond operations over the years. This drawing is dated 1977 and is no longer accurate to current conditions at the disposal area. It is recommended that current mapping be prepared for this area to accurately depict current conditions.



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Bottom Ash Disposal Area 2 (BAD-2)**

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- It is recommended that the existing Operations and Maintenance Plan be updated for the facility.
- The Bottom Ash Disposal Area 2 has changed since it went online in 1979. An updated hydrologic and hydraulic evaluation should be done to determine the current maximum capacity for this facility.

## 8.2. Maintenance Recommendations

- Repair animal burrows where noted.
- Repair erosion and sloughed areas where noted on interior slopes of ponds. Line interior pond slopes with rip-rap to help reduce future erosion.
- Monitor north exterior slope of Bottom Ash Disposal Area 2 for fallen trees. Remove fallen trees and repair areas by compacting earthfill and seeding over disturbed earth.
- Repair erosion areas of internal ash dike in Bottom Ash Disposal Area 2 and provide vegetative cover and/or rip rap protection along the east side of the dike along the ash channel.
- Continue mowing program on slopes but avoid leaving deep ruts from mowing on side slopes. Mow and remove brush from interior slopes of the Bottom Ash Pond and Stilling Pond.
- Continue to monitor noted seeps and wet areas for change of conditions.





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TVA Inspections:	TVA Engineering performs annual dike inspections and prepares reports. Plant personnel also perform quarterly red water seep inspections.
Problems Previously Identified During Past TVA Inspections:	Slopes requiring stabilization on north and south dikes (includes 600' of river bank) (1984). Wash out of the interior slope at the eastern end of the pond (1984). Leakage problems around joints of pond discharge pipes (1984,1986). Stability problem at west end of facility (1985).

## 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:	10W286-1 through 10W286-7, 10H287-4, 10N297 (spillway configuration).
TVA As-Built Drawings:	None available.
TVA Construction Testing Records:	None available.
TVA Annual Inspection Reports:	TVA Annual Inspection Reports from 1967 to 2008.
Geotechnical Data:	Ash Disposal Area Soils Exploration and Testing EN DES Soils Schedule 6.2 (TVA, 1981), Ash Pond J Soils Investigation on Ash Material EN DES Soils Schedule 6.2 (TVA, 1983) Report of Geotechnical Exploration; Dike Exploration and Testing Program (Law Engineering, 1999).



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Phase 1 Coal Combustion Product Disposal  
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Ash Disposal Area J (ADAJ)**

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6. Stantec Field Observations

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

6.1. Exterior Slopes and Benches

Vegetation:	Grass and some brush. Trees and rip rap on north side near river.
Trees:	Some noted near river bank on north side of varying sizes.
Erosion:	None observed.
Instabilities:	None observed.
Uniform Appearance	Good.
Benches:	Two (2) benches observed. First bench is access road around stack, two feet below top of stack, 15 feet wide on all sides. Second bench is on north and west side located 21 feet below access road on north side and 29 feet below access road on west side. Width is 10 feet on north side and 18 feet on west side.
Slope:	2.5H:1V (Section 19 and 22 and 23) 4H:1V crest to bench, 2H:1V bench to river(Section 21) 2.5H:1V crest to bench 1H:1V bench to river (Section 20)
Height:	18 feet above parking lot (Section 19) 50 feet above river (Section 20) 41 feet above river (Section 21) 28 feet above road (Section 22) 15 feet above road (Section 23)
Other:	

6.2. Perimeter Drainage Ditches and Down-Drains

Vegetation:	Grass.
Rip-Rap Channel Lining:	Rip rap located below outlet of selected drainage pipes (one on south side, two on north side).
Erosion:	None observed.



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Siltation in Ditches:	None observed.
Standing Water in Ditches or on Benches:	Standing water was observed in southwest corner drainage ditch on stack.
Silted/Impeded Drainage Pipes:	Numerous drainage pipes from drainage channel around disposal area were partially filled with silt and overgrown with vegetation on downstream end. Several pipes were also deteriorated and dented at the outlet.
Other:	Drainage channel below the outlets of two drainage pipes on the southeast side had a white, musty appearance in the water. Unclear of the source.

## 7. Notable Observations and Concerns

- The drainage ditches next to the road at the southwest corner should be regraded to promote positive drainage and eliminate standing water.
- Standing water in drainage ditch next to road in southwest corner. Water extended for a length of 110 feet and was 6 wide at its widest point.
- Drainage pipes are spaced around the disposal area to take runoff from the drainage ditch and discharge it away from the area into the river and drainage channels. Seven of these pipes were observed and majority of pipes had siltation and deterioration of the pipes on upstream and downstream end.
- Original spillway structure is located in northwest corner and is still active in disposal area. Outlet structure consists of two concrete riser structures, 48 inch inlet with 36 inch outlet. Outlet discharges to the north into the Holston River, but pipes do not reach river and discharge along the bank. Heavy vegetation is observed downstream of the outlet pipes along with some wet areas. Outlet pipes had a small amount of water flowing during February 24, 2009 inspection.

## 8. Recommendations

### 8.1. Phase 2 Engineering and Programmatic Recommendations

- An Operation and Maintenance Plan should be developed for this area.



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Ash Disposal Area J (ADAJ)**

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8.2. Maintenance Recommendations

- Clean siltation and repair deteriorated pipes at Ash Disposal Area J.
- Continue mowing program on slopes but avoid leaving deep ruts from mowing on side slopes. Keep drainage channels clear of excess vegetation.



**TVA Disposal Facility Assessment  
Phase 1 Coal Combustion Product Disposal  
Facility Summary  
John Sevier Fossil Plant (JSF)  
Sediment Pond East (SPE)**

1. General Facility Information

Facility Status:	Active	NID Identification:	N/A
Surface Area (inside dikes):	1.2 acres	Maximum Height (toe to top of dike):	N/A
Free Water Volume:	Unknown	Maximum Water Storage:	Unknown
Estimated CCB Storage:	Unknown	Dike Length:	360 feet (shared with CTP - Iron) 125 feet (shared with CTP - Copper)
Plant Discharge to Facility:	N/A	Current Pool Elevation:	1102 (estimated)

2. Site Visit Information

Stantec Assessment Team:	Roger Denick, PE and John Beam, PG
TVA Staff Present:	Denver Bennett and Roger Sims
Field Assessment Dates:	January 16, 2009 and February 25, 2009
Weather/Site Conditions:	Sunny, low teens (January 16, 2009), low to mid 40 degrees F, partly cloudy (February 25, 2009).

3. History/Description of Usage

History and Operation:	Sediment Pond East went online in 1997 to receive storm water runoff from the Dry Fly Ash Disposal Area. The pond is a depressed structure with no main embankments. It shares a dike with Chemical Treatment Pond - Iron and Copper to the east. It discharges to a drainage ditch along the main plant road through a concrete riser pipe with skimmer. The riser pipe has 3 inch diameter orifice holes located four feet from the top of the riser for normal outflow operations. The outflow discharges into the drainage ditch and flows to the Sediment Pond West.
Past Failures/Releases:	No failures or releases reported.



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Phase 1 Coal Combustion Product Disposal  
Facility Summary  
John Sevier Fossil Plant (JSF)  
Sediment Pond East (SPE)**

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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 John Sevier Fossil Plant, covering all active facilities.
TVA Maintenance:	Mowing and removal of excess vegetation on the ponds and dry stacks are done once per year in late summer, early fall. Other maintenance work is done on an as-needed basis.
TVA Inspections:	TVA Engineering performs annual dike inspections and prepares reports. Plant personnel also perform quarterly red water seep inspections.
Problems Previously Identified During Past TVA Inspections:	None reported.

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:	10H291-1 through 10H291-11.
TVA As-Built Drawings:	None available.
TVA Construction Testing Records:	None available.
TVA Annual Inspection Reports:	TVA Annual Inspection Reports from 1967 to 2008.
Geotechnical Data:	Preliminary Geotechnical Investigations for the John Sevier Steam Plant (TVA, 1952), Draft Engineering Report, Dry Ash Disposal Area (TVA, 1986), Report of Hydrogeologic and Engineering Evaluation (Revised) Proposed Dry Fly Ash Disposal Facility (Law Engineering, 1994), Geotechnical Evaluation of Ash Pond Dike Facility (Parsons Energy and Environmental Services, Inc., 1999) Fly Ash Pond Dike Slope Stability Evaluation (Parsons



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Energy and Environmental Services, Inc., 1999) Report of Geotechnical Exploration; Dike Exploration and Testing Program (Law Engineering, 1999).

6. Stantec Field Observations

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

6.1. Interior Slopes

Vegetation: North and west slopes consisted primarily of clay soil with sparse brush vegetation. South and east slopes were grass covered with some brush.

Trees: None observed.

Wave Wash Protection: None observed.

Erosion: Erosion gullies were observed in the north slope (see observations).

Instabilities: None observed.

Animal Burrows: None observed.

Freeboard: **Measured:** 8 feet (all sections)  
**Design:** 3 feet (minimum, top of riser structure)  
(10H291-10)  
7 feet (typical, centerline of orifice holes)

Encroachments: None observed.

Slope: **Measured:** 2.2H:1V (east side)  
3H:1V (west, north, south sides)  
**Design:** Not shown

6.2. Crest

Crest Cover and Slope: Grass. Relatively Level.

Erosion: None observed.

Alignment: Good.

Settlement/Cracking: None observed.



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**Phase 1 Coal Combustion Product Disposal**  
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**Sediment Pond East (SPE)**

Bare Spots/Rutting:	None observed.
Width:	<b>Measured:</b> 20 feet (sections 12 and 15, shared dike with Chemical Treatment Ponds Iron and Copper) <b>Design:</b> Not shown

6.3. Exterior Slopes

Vegetation:	Grass (shared dikes).
Trees:	None observed.
Erosion:	None observed.
Instabilities:	None observed.
Uniform Appearance:	Good.
Seepage:	None observed.
Benches:	None observed.
Foundations, Drains, Relief Wells, Instrumentation:	None observed.
Animal Burrows:	None observed.
Slope:	<b>Measured:</b> 2.6H:1V (sections 12 and 15 interior slopes of Copper and Iron Chemical Treatment Pond) <b>Design:</b> Not shown
Height:	<b>Measured:</b> 15 feet (sections 12 and 15 interior slopes of Copper and Iron Chemical Treatment Pond) <b>Design:</b> Not shown

6.4. Spillway Weirs/Riser Inlets

Number:	One (1) discharging into a drainage channel along the main road to Sediment Pond West.
Size, Type and Material:	48 inch concrete riser structure (with skimmer) with 3 inch diameter orifice holes (10 total) located 4 feet below top of riser.



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Facility Summary  
John Sevier Fossil Plant (JSF)  
Sediment Pond East (SPE)**

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Height of Riser Inlets:	6 feet above grade (10H291-10).
Access:	Located off south bank, limited access with higher pond water elevation.
Joints:	Unable to observe.
Mis-Alignment:	None observed.
Closed/Abandoned Conduits:	None observed.

#### 6.5. Outlet Pipes

Number:	One (1) - discharging into drainage channel along main plant road.
Size, Type and Material:	36 inch concrete pipe.
Headwall:	None observed.
Joint Separations:	None observed.
Mis-Alignment:	None observed.
Closed/Abandoned Conduits:	None observed.

#### 7. Notable Observations and Concerns

- Outlet structure is a concrete riser structure discharging into a drainage channel along the main plant road. RCP push-together riser structure spillways are a concern.
- North and east interior slopes are primarily clay with little vegetation. Several erosion gullies have formed on the north slope (four total). These gullies measured 2 feet wide x 1.5 feet deep along slope (typical).
- Sediment pond takes runoff from Dry Fly Ash Disposal Area via two open channels which inlet at the midpoint of the west slope. Due to the amount of exposed ash on the dry stack during the current liner project, these channels have noticeable ash deposits in them. Significant accumulation of ash is also observed within the pond itself.



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Phase 1 Coal Combustion Product Disposal  
Facility Summary  
John Sevier Fossil Plant (JSF)  
Sediment Pond East (SPE)**

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8. Recommendations

8.1. Phase 2 Engineering and Programmatic Recommendations

- Based on the limited as-built drawings available, it is recommended that a program be established to develop current conditions / as-built drawings to record future modifications to this facility. Construction records should also be included as part of this program to record and quantify construction means, methods and results.
- It is recommended that the existing Operations and Maintenance Manual be updated for this facility.

8.2. Maintenance Recommendations

- Repair erosion and sloughed areas where noted on interior slopes of ponds. Any slope steeper than 3H:1V should be lined with rip-rap to help reduce future erosion.
- Clear drainage channels of excess deposited ash and remove excess ash from sediment pond to improve capacity.
- Establish vegetative growth on the north and west interior banks to reduce erosion.
- Monitor concrete spillway risers and joints and repair as needed. This spillway may ultimately be modified or replaced, pending Stantec-TVA assessment.



Drawing Mark DS-1-1      Animal burrows (typical) on Dry Ash Disposal Area.



Drawing Mark DS-1-2      Dip in dry stack grade on northeast side of Dry Fly Ash Disposal Area.



Drawing Mark DS-1-3

Drainage channel along perimeter road with standing water and ash deposits.



Drawing Mark DS-1-4

Slump in exposed ash situated on east side at the top of ash stack.



Drawing Mark DS-1-5 Wet area on access road near northeast corner of Dry Fly Ash Disposal Area.



Drawing Mark DS-1-6 Red water seep on slope above perimeter road in northeast corner of Dry Fly Ash Disposal Area.



Drawing Mark DS-1-7

Wet area, possible seep, between leachate collection pumps.



Drawing Mark DS-1-8

Hillside between two ground water relief pumps in vicinity of wet areas on the lower lift of the embankment.



Drawing Mark DS-1-9 Localized wet areas on access road.



Drawing Mark DS-1-10 Vegetated apparent slope slump just downslope of perimeter road.



Drawing Mark DS-1-11 24 inch CMP located in north slope near raised area.



Drawing Mark DS-1-12 Raised area on slope west of apparent slope slump.



Drawing Mark DS-1-13 Clay berm opening on top of reclaimed slope on north side of dry stack area.



Drawing Mark DS-1-14 Ash in drainage channel near inlet to stilling basin at northwest corner of dry stack area.



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**TVA Disposal Facility Assessment**  
**Phase 1 Coal Combustion Product Disposal Facility Summary**  
**John Sevier Fossil Plant (JSF)**  
**Dry Fly Ash Disposal Area**  
**Photos, Concerns/Photo Log**

<b>Concerns/Photo Log</b>		
<b>Drawing Mark</b>	<b>Comments</b>	<b>Photo/GPS ID</b>
DS-1-1	Animal burrows (typical) on Dry Stack.	JSP1A003
DS-1-2	Dip in dry stack grade on northeast side of Dry Fly Ash Disposal Area.	JSP1B1714
DS-1-3	Drainage channel along perimeter road with standing water and ash deposits.	JSP1B1717
DS-1-4	Slump in exposed ash situated on east side at the top of ash stack.	JSP1A083
DS-1-5	Wet area on access road near northeast corner of Dry Fly Ash Disposal Area.	JSP1B1710
DS-1-6	Red water seep on slope above perimeter road in northeast corner of Dry Fly Ash Disposal Area.	JSP1B2058
DS-1-7	Wet area, possible seep, between leachate collection pumps.	JSP1B1729
DS-1-8	Hillside between two ground water relief pumps in vicinity of wet area on the lower lift of the embankment.	JSP1B1728
DS-1-9	Localized wet areas on access road.	JSP1B1738
DS-1-10	Vegetated apparent slope slump just downslope of perimeter road.	JSP1A088
DS-1-11	24 inch CMP located in north slope near raised area.	JSP1B1752
DS-1-12	Raised area on slope west of apparent slope slump.	JSP1B1748
DS-1-13	Clay berm opening on top of reclaimed slope on north side of dry stack area.	JSP1762
DS-1-14	Ash in drainage channel near inlet to stilling basin at northwest corner of dry stack area.	JSP1B1759



Drawing Mark P-W-1 South riser structure on west side of Sediment Pond West.



Drawing Mark P-W-2 North riser structure on west side of Sediment Pond West.



Drawing Mark P-W-3 Outlet pipes from the spillways of Sediment Pond West.



Drawing Mark P-W-4 Slump in interior bank of dike near spillways of sediment pond.



Drawing Mark P-W-5

Inlet pipes from drainage from dry stack area.



Drawing Mark P-W-6

Irregular terrain and possible slump at southeast corner.



Drawing Mark P-W-7

36 inch Concrete drainage pipe near road.  
(Only 1 of 3 pipes located during field  
assessment).



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**TVA Disposal Facility Assessment**  
**Phase 1 Coal Combustion Product Disposal Facility Summary**  
**John Sevier Fossil Plant (JSF)**  
**Sediment Pond West**  
**Photos, Concerns/Photo Log**

<b>Concerns/Photo Log</b>		
<b>Drawing Mark</b>	<b>Comments</b>	<b>Photo/GPS ID</b>
P-W-1	South riser structure on west side of Sediment Pond West.	JSP1B1789
P-W-2	North riser structure on west side of Sediment Pond West.	JSP1B1791
P-W-3	Outlet pipes from the spillways of Sediment Pond West.	JSP1A121
P-W-4	Slump in interior bank of dike near spillways of sediment pond.	JSP1B1794
P-W-5	Inlet pipes from drainage from dry stack area.	JSP1B1793
P-W-6	Irregular terrain and possible slump at southeast corner.	JSP1B1788
P-W-7	36 inch Concrete drainage pipe near road. (Only 1 of 3 pipes located during field assessment).	JSP1B2077



Drawing Mark BAD-2-1

Irregular slopes along interior slope of north dike of ash pond.



Drawing Mark BAD-2-2

Irregular steep exterior slopes of dike on north side of ash pond with trees and brush.



Drawing Mark BAD-2-3

Outlet pipes from riser structures of Bottom Ash Disposal Area 2.



Drawing Mark BAD-2-4

Outlet riser structure in Stilling Pond.



Drawing Mark BAD-2-5

Animal burrows observed in south exterior slope.



Drawing Mark BAD-2-6

Erosion on interior dike at dredge storage area and pond.



Drawing Mark BAD-2-7

Slump and erosion on interior dike of ash pond and dredged storage area.



Drawing Mark BAD-2-8

Riser structure between Bottom Ash Channel and Bottom Ash Pond.



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TVA Disposal Facility Assessment  
Phase 1 Coal Combustion Product Disposal Facility Summary  
John Sevier Fossil Plant (JSF)  
Bottom Ash Disposal Area 2  
Photos, Concerns/Photo Log

Concerns/Photo Log		
Drawing Mark	Comments	Photo/GPS ID
BAD-2-1	Irregular slopes along interior slope of north dike of ash pond.	JSP1B1834
BAD-2-2	Irregular steep exterior slopes of dike on north side of ash pond with trees and brush.	JSP1B1836
BAD-2-3	Outlet pipes from riser structures of Bottom Ash Disposal Area 2.	JSP1B1847
BAD-2-4	Outlet riser structure in Stilling Pond.	JSP1B1845
BAD-2-5	Animal burrows observed in south exterior slope.	JSP1B1850
BAD-2-6	Severe erosion on interior dike at dredge storage area and pond.	JSP1B1859
BAD-2-7	Slump and erosion on interior dike of ash pond and dredged storage area.	JSP1B1861
BAD-2-8	Riser structure between Bottom Ash Channel and Bottom Ash Pond.	JSP1B1827



Drawing Mark AD-J-1

Risers within drainage basin at northwest corner of Ash Disposal Area J.



Drawing Mark AD-J-2

Outlet pipes on northwest corner of Ash Disposal Area J with vegetation and irregular topography at its outlet. Note drainage from pipes.



Drawing Mark AD-J-3 Damaged outlet pipe covered by vegetation (typical problem).



Drawing Mark AD-J-4 Silted inlet pipe within drainage channel (typical problem).





Drawing Mark P-E-1

Western end of sediment pond with inlet end of diversion channel shown.



Drawing Mark P-E-2

Inlet drainage channel to sediment pond showing check dams and ash buildup.



Drawing Mark P-E-3 Northern end of sediment pond.



Drawing Mark P-E-4 Areas of erosion on north bank of sediment pond.



Drawing Mark P-E-5

Outlet riser on southern portion of sediment pond.





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Date Reviewed	Reviewed by	File Name	File Type
2/26/2009	RAD	1950S Displacement Of Weaver Brick Plant And Others Due To John Sevier Project.pdf	PDF
2/26/2009	RAD	1950S Drawings.pdf	PDF
2/26/2009	RAD	1952 Preliminary Geologic Investigation Figure Location And Summary Of Core Drilling.JPG	JPG
2/26/2009	RAD	1952 Preliminary Geologic Investigations Report.pdf	PDF
2/26/2009	RAD	1974 Report Effluent Guidelines For Point Sources.pdf	PDF
2/26/2009	RAD	1978 Approval From Tdph Of Disposal Of Flyash At JSF.pdf	PDF
2/26/2009	RAD	1978 Design Of Monitoring Program For Ash Pond Effluents.pdf	PDF
2/26/2009	RAD	1978 Outfall For New Ash Pond.pdf	PDF
2/26/2009	RAD	1979 December Memo Nldf Compliance.pdf	PDF
2/26/2009	RAD	1979 Draft Memo On Nldf Compliance.pdf	PDF
2/26/2009	RAD	1979 Memo Estimate For Sewage Treatment Facility.pdf	PDF
2/26/2009	RAD	1979 Memo Nldf Compliance.pdf	PDF
2/26/2009	RAD	1979 Nldf Compliance Memo.pdf	PDF
2/26/2009	RAD	1979 Nldf Compliance Program.pdf	PDF
2/26/2009	RAD	1979 Plant Employment Estimates For Sewage Treatment Facilities Evaluations.pdf	PDF
2/26/2009	RAD	1979 Project Authorization Chlorine Minimization.pdf	PDF
2/26/2009	RAD	1980 Car Wash Drains.pdf	PDF
2/26/2009	RAD	1980 Continued Use Of Old Ash Ponds Memo.pdf	PDF
2/26/2009	RAD	1980 Continued Use Of Old Ash Ponds.pdf	PDF
2/26/2009	RAD	1980 Information On Cooling And Lubricating.pdf	PDF
2/26/2009	RAD	1980 Metal Cleaning Waste Treatment Memo.pdf	PDF
2/26/2009	RAD	1980 Nldf Compliance Memo.pdf	PDF
2/26/2009	RAD	1980 Nldf Compliance Site Visit.pdf	PDF
2/26/2009	RAD	1980 Nldf Compliance.pdf	PDF
2/26/2009	RAD	1980 Requirements For Equipment Cooling And Lubricating.pdf	PDF
2/26/2009	RAD	1980S Weir Box Calculations.pdf	PDF
2/26/2009	RAD	1981 Ash Pond Questionnaire.pdf	PDF
2/26/2009	RAD	1981 Development Of Criteria For Disposal Of Utility Wastes In The State Of Tn.pdf	PDF
2/26/2009	RAD	1981 Elimination Of Hazardous Wastes Method Of Treatment.pdf	PDF
2/26/2009	RAD	1981 Investigation Of Potential Groundwater Contamination By Leachate From Ash Disposal Ponds.pdf	PDF
2/26/2009	RAD	1981 Memo Intake Dredging And Settling Pond.pdf	PDF
2/26/2009	RAD	1981 Memo JSF Intake Channel Dredge.pdf	PDF
2/26/2009	RAD	1981 Memo Water Leakage From Ash Pond Dike.pdf	PDF
2/26/2009	RAD	1981 Repair Of Ash Disposal Area 2.pdf	PDF
2/26/2009	RAD	1981 Tva Fly Ash Disposal Facility Phased Assessment Of Potential Environmental Impacts.pdf	PDF
2/26/2009	RAD	1981 Water Leakage From Ash Pond Dike.pdf	PDF
2/26/2009	RAD	1981-1986 Heavy Metal Samples.pdf	PDF
2/26/2009	RAD	1982 Additional Fly Ash Storage Area Memo.pdf	PDF



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Date Reviewed	Reviewed by	File Name	File Type
2/26/2009	RAD	1982 Authorization To Dispose Of Ash At Hawkins County Landfill.pdf	PDF
2/26/2009	RAD	1982 Dmr Excursion Report.pdf	PDF
2/26/2009	RAD	1982 Effluent Guidelines Ph For Point Sources Continually Discharging.pdf	PDF
2/26/2009	RAD	1982 Engineering Approval To Construct New Ash Ponds.pdf	PDF
2/26/2009	RAD	1982 Engineering Cost Study Removal Of Fly Ash Collectors John Sevier Steam Plant.pdf	PDF
2/26/2009	RAD	1982 Interim Compliance Status Report Tva Ash Pond And Metal Cleaning Waste Treatment Discharges.pdf	PDF
2/26/2009	RAD	1982 July Monthly Solid Waste Permit Meeting.pdf	PDF
2/26/2009	RAD	1982 Proposed Waste Treatment Facilities Preparation Of Engineering Reports.pdf	PDF
2/26/2009	RAD	1982 Quarterly Meeting Notes Solid Waste Disposal At Steam Plants.pdf	PDF
2/26/2009	RAD	1982 Request For Approval Construct New Fly Ash Disposal Pond In Area J.pdf	PDF
2/26/2009	RAD	1982 Request For State Approval Section 404 Permit And Construction Erosion And Sediment Control Plan.pdf	PDF
2/26/2009	RAD	1982 Response To Repair Water Leak Ash Pond Dike.pdf	PDF
2/26/2009	RAD	1982 Section 404 Permit For Proposed Fly Ash Disposal Area At Mile 105.0 Left Bank Holston River.pdf	PDF
2/26/2009	RAD	1982 Status Report Corps Of Engineers Section 404 Permits.pdf	PDF
2/26/2009	RAD	1982 Various Fly Ash Disposal Rerouting Of Polly Branch And Wastewater Permitting Correspondence.pdf	PDF
2/26/2009	RAD	1982 Water Temperature Monitoring Program Mod Memo.pdf	PDF
2/26/2009	RAD	1983 Additional Fly Ash Storage Area M10 594.pdf	PDF
2/26/2009	RAD	1983 Analysis Report For Fly Ash Arsenic.pdf	PDF
2/26/2009	RAD	1983 Memo On Additional Ash Storage And Monthly Meeting From January 1983.pdf	PDF
2/26/2009	RAD	1983 Monthly Solid Waste Permit Meeting Notes From Dec 1982.pdf	PDF
2/26/2009	RAD	1983 Report Pursuant To Executive Order 12088.pdf	PDF
2/26/2009	RAD	1983 Test Results For Metals.pdf	PDF
2/26/2009	RAD	1984 Ash Disposal Meeting With State And Tva In Johnson City.pdf	PDF
2/26/2009	RAD	1984 Ash Disposal Program.pdf	PDF
2/26/2009	RAD	1984 Ash Pond 003 Samples.pdf	PDF
2/26/2009	RAD	1984 Hazardous Waste Regulations Interpretations For Utility Wastes.pdf	PDF
2/26/2009	RAD	1984 Informational Memo On Ash Pond J.pdf	PDF
2/26/2009	RAD	1984 Metals Sample Analysis Request For 007 003 And 001.pdf	PDF
2/26/2009	RAD	1984 Metals Samples Ash Ponds 1 2 And 3 And 1983 Dredging And Borrow Area Memos.pdf	PDF
2/26/2009	RAD	1984 Purchase Req For Dredging Ash From Active Pond.pdf	PDF
2/26/2009	RAD	1984 Temporary Change In Discharge Scheme From Ash Pond J.pdf	PDF
2/26/2009	RAD	1984 Water Sampling.pdf	PDF
2/26/2009	RAD	1985 Ash Pond Discharge To Polly Branch Samples.pdf	PDF
2/26/2009	RAD	1985 Borrow Area Permit Application.pdf	PDF
2/26/2009	RAD	1985 Installation Of New Fly Ash Handling System For Dry Stacking At JSF.pdf	PDF
2/26/2009	RAD	1985 Lab Report For Fly Ash At John Sevier.pdf	PDF
2/26/2009	RAD	1985 Long Range Planning Committee Meeting Fossil Plant Waste Disposal Facilities.pdf	PDF
2/26/2009	RAD	1985 Long Range Planning Meeting.pdf	PDF



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Date Reviewed	Reviewed by	File Name	File Type
2/26/2009	RAD	1985 Solid Waste Disposal Inspection Schedule And 1984 Contract With Waste Mgt Of Tri Cities.pdf	PDF
2/26/2009	RAD	1985 Stormwater Runoff.pdf	PDF
2/26/2009	RAD	1986 Ash Disposal And Dry Stacking Decision.pdf	PDF
2/26/2009	RAD	1986 Ash Disposal John Sevier Fossil Plant Request To Pump To Bathtub Area.pdf	PDF
2/26/2009	RAD	1986 Ash Pond 2 Reclamation Of Disposal Of Accumulated Bottom Ash Volume In Onsite Borrow Area.pdf	PDF
2/26/2009	RAD	1986 Categorical Exclusion For Borrow Area.pdf	PDF
2/26/2009	RAD	1986 Evaluation Of Dry Fly Ash Stacking And Stream Rerouting In Ash Ponds At John Sevier Fossil Plant.pdf	PDF
2/26/2009	RAD	1987 Borrow Area Bottom Ash Disposal Permit Application.pdf	PDF
2/26/2009	RAD	1987 Borrow Area Proposed Permit Application.pdf	PDF
2/26/2009	RAD	1987 Ccw Intake Inspection.pdf	PDF
2/26/2009	RAD	1987 Clams.pdf	PDF
2/26/2009	RAD	1987 Evaluation Of The Ash Ponds And Stream Rerouting At John Sevier Fossil Plant.pdf	PDF
2/26/2009	RAD	1987 Flow Model Of Intake Skimmer.pdf	PDF
2/26/2009	RAD	1987 Intake Sample.pdf	PDF
2/26/2009	RAD	1987 JSF Ash Stacking Projects Proposed Plans For Extraction Procedure For Toxicity Testing.pdf	PDF
2/26/2009	RAD	1987 JSF Proposed Borrow Area.pdf	PDF
2/26/2009	RAD	1987 Meeting At Plant To Discuss Permitting Ash Disposal Sites.pdf	PDF
2/26/2009	RAD	1987 Meeting With The State On Ash Disposal Solid Waste Permit.pdf	PDF
2/26/2009	RAD	1987 Npdes Qa Study 7.pdf	PDF
2/26/2009	RAD	1987 Stormwater Samples.pdf	PDF
2/26/2009	RAD	1987 Telecon On Use Of Borrow Area For Ash Disposal.pdf	PDF
2/26/2009	RAD	1987 Validation Of Plant Ash Pond Effluent Flows.pdf	PDF
2/26/2009	RAD	1987 Weed And Debris Problem At JSF Intake.pdf	PDF
2/26/2009	RAD	1987 Workplan For Evaluation Of Dry Fly Ash Stacking And Stream Rerouting In Ash Ponds At John Sevier.pdf	PDF
2/26/2009	RAD	1988 Borrow Area Reclamation Design Of Ash Fill.pdf	PDF
2/26/2009	RAD	1988 Detention Dam Inspection.pdf	PDF
2/26/2009	RAD	1988 Fire Hydrant Flush Memo.pdf	PDF
2/26/2009	RAD	1988 JSF Detention Dam Inspections.pdf	PDF
2/26/2009	RAD	1988 Letter From State To Discontinue Ash Pond Monitoring Following Rain Events In Excess Of One Inch.pdf	PDF
2/26/2009	RAD	1988 Msds For Bottom Ash.pdf	PDF
2/26/2009	RAD	1988 Msds For Fly Ash.pdf	PDF
2/26/2009	RAD	1988 Npdes Sampling.pdf	PDF
2/26/2009	RAD	1988 Trash Rack And Intake Inspection.pdf	PDF
2/26/2009	RAD	1989 Trans Ash Letter.pdf	PDF
2/26/2009	RAD	1990 Acaa Yearly Report Information.pdf	PDF
2/26/2009	RAD	1990 Ea Fonsi Coal Combustion By-Product Marketing.pdf	PDF
2/26/2009	RAD	1990 Proposed Contract For The Sale And Transfer Of Fly Ash From John Sevier.pdf	PDF
2/26/2009	RAD	1991 Contract With Sefa For Sale Of Fly Ash.pdf	PDF



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Date Reviewed	Reviewed by	File Name	File Type
2/26/2009	RAD	1991 Correction Of Npdes Flows For 003 Outfall.pdf	PDF
2/26/2009	RAD	1991 Fly Ash Test Report.pdf	PDF
2/26/2009	RAD	1991 Tdhe Response To Tvas Petition For Rulemaking.pdf	PDF
2/26/2009	RAD	1992 Long Range Disposal Utilization Plans For Coal Combustion By Products JSF.pdf	PDF
2/26/2009	RAD	1992 Waste Survey John Sevier Fossil Plant.pdf	PDF
2/26/2009	RAD	1993 003 Outfall Elimination Request From Npdes Permit.pdf	PDF
2/26/2009	RAD	1993 Meeting To Discuss Pond J Closure.pdf	PDF
2/26/2009	RAD	1993 Notice Of Receipt Of Permit Application For Solid Waste Disposal Facility.pdf	PDF
2/26/2009	RAD	1993 Questionnaire For Partners For Clean Communities.pdf	PDF
2/26/2009	RAD	1994 Law Engineering Report Figure 4.pdf.JPG	JPG
2/26/2009	RAD	1994 Law Engineering Report Figure 6.JPG	JPG
2/26/2009	RAD	1994 Law Engineering Report.pdf	PDF
2/26/2009	RAD	1996 Agreement For Beneficial Use Of Bottom Ash As Cover For Roads And Driveways.pdf	PDF
2/26/2009	RAD	1997 Contract For Bottom Ash Use As Surface Cover.pdf	PDF
2/26/2009	RAD	1997 Contract For Bottom Ash Use In Snow And Ice Control.pdf	PDF
2/26/2009	RAD	1997 Contract Worksheet For Coal Combustion By-Products.pdf	PDF
2/26/2009	RAD	1998 Pz8_Pz9_W26_W27_Logs.pdf	PDF
2/26/2009	RAD	1998 W28-W32_Logs.pdf	PDF
2/26/2009	RAD	1St Qtr 03 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	1St Qtr 04 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	1St Qtr 05 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	1St Qtr 06 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	1St Qtr 07 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	1St Qtr 08 Red Water Seep Inspection.pdf	PDF
2/10/2009	JDB/RAD	1St Qtr Red Water Seep Inspections.pdf	PDF
2/27/2009	RAD	1St Qtr Red Water Seep Inspections.pdf	PDF
2/26/2009	RAD	2Nd Qtr 03 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	2Nd Qtr 04 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	2Nd Qtr 05 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	2Nd Qtr 06 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	2Nd Qtr 07 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	2Nd Qtr 08 Red Water Seep Inspection.pdf	PDF
2/27/2009	RAD	2Nd Qtr Red Water Seep Inspections.pdf	PDF
2/26/2009	RAD	3Rd Qtr 03 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	3Rd Qtr 04 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	3Rd Qtr 05 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	3Rd Qtr 06 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	3Rd Qtr 07 Red Water Seep Inspection.pdf	PDF



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Date Reviewed	Reviewed by	File Name	File Type
2/26/2009	RAD	3Rd Qtr 08 Red Water Seep Inspection.pdf	PDF
2/27/2009	RAD	3Rd Qtr Red Water Seep Inspections.pdf	PDF
2/26/2009	RAD	4Th Qtr 03 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	4Th Qtr 04 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	4Th Qtr 05 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	4Th Qtr 06 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	4Th Qtr 07 Red Water Seep Inspection.pdf	PDF
2/26/2009	RAD	4Th Qtr 08 Red Water Seep Inspection.pdf	PDF
2/27/2009	RAD	Bcp0010 073530232[1].pdf	PDF
3/17/2009	RAD	Chemical Pond Sediment Sampling.pdf	PDF
2/10/2009	JDB/RAD	John Sevier 2008 Ash Inspection Summary.doc	DOC
2/10/2009	JDB/RAD	John Sevier 2008 Ash Inspection Summary.pdf	PDF
3/1/2009	RAD	JohnSevierasbestoslandfillsmesoi87029November301997.pdf	PDF
4/7/2009	JDB	JohnSevierasbestoslandfillsmesoi87029November301997.pdf	PDF
3/1/2009	RAD	JohnSevierashdisposalareaproposeddrystackingsmereport.pdf	PDF
4/7/2009	JDB	JohnSevierashdisposalareaproposeddrystackingsmereport.pdf	PDF
3/1/2009	RAD	JohnSevierashdisposalareasoilsexplorationandtestingendessoilsscheduleno62.pdf	PDF
4/7/2009	JDB	JohnSevierashdisposalareasoilsexplorationandtestingendessoilsscheduleno62.pdf	PDF
3/1/2009	RAD	JohnSevierashdispstackareaexistingdispareaacloseditchsketch.pdf	PDF
4/7/2009	JDB	JohnSevierashdispstackareaexistingdispareaacloseditchsketch.pdf	PDF
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4/7/2009	JDB	JohnSevierashpondsoilsinvestigationonashmaterialendessoilssched6.pdf	PDF
3/1/2009	RAD	JohnSeviercancellationnoticeconstructflyashpondinareaaj51063320656.pdf	PDF
4/7/2009	JDB	JohnSeviercancellationnoticeconstructflyashpondinareaaj51063320656.pdf	PDF
3/1/2009	RAD	JohnSevierdraftengineeringreportdryashdisposalarea.pdf	PDF
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3/1/2009	RAD	JohnSevierdraftreporhydrogeologicandenggevalproposeddryflhashdisposalfacilitysitessept301994.pdf	PDF
4/7/2009	JDB	JohnSevierdraftreporhydrogeologicandenggevalproposeddryflhashdisposalfacilitysitessept301994.pdf	PDF
3/1/2009	RAD	JohnSevierdrawing10H291-6Dryflhashstackcrosssecaandb.pdf	PDF
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3/1/2009	RAD	JohnSevierflyashdrystackorigdispareaajerryglover.pdf	PDF
4/7/2009	JDB	JohnSevierflyashdrystackorigdispareaajerryglover.pdf	PDF
3/1/2009	RAD	JohnSevierflyashponddikeslopestabilityevaluationphaseonereportdec91999.pdf	PDF
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4/7/2009	JDB	JohnSeviergeosyntechpreliminarysitingstudyforaddtlashdisposalnov2004.pdf	PDF



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Date Reviewed	Reviewed by	File Name	File Type
3/1/2009	RAD	JohnSeviergeotechnicalevalofashponddikestabilityreport.pdf	PDF
4/7/2009	JDB	JohnSeviergeotechnicalevalofashponddikestabilityreport.pdf	PDF
4/7/2009	JDB	JohnSevierhydrogeologyreportmarch31994Sandmeinc.pdf	PDF
4/7/2009	JDB	JohnSevierlawenggsummaryoflandfillperimeterclosure.pdf	PDF
4/7/2009	JDB	JohnSeviernewwashdisposalareasoilsinvestigationendessoilscheduleno6Memodec101976.pdf	PDF
4/7/2009	JDB	JohnSevierqaqcforclosurecappingashpondjandcappingborrowareaashstack.pdf	PDF
4/7/2009	JDB	JohnSevierqaqcforgeologicbufferconstrfordsedimentholdingpond.pdf	PDF
4/7/2009	JDB	JohnSevierreportofhydrogeologicandenggevalrevisedproposeddryflyashdispfacilitysesept301994.pdf	PDF
4/7/2009	JDB	JohnSevierreportofhydrogeologiccevalproposeddryflyashdispfacilitymarch231992.pdf	PDF
4/7/2009	JDB	JohnSevierseepagefluxfromashdisposalareaintoholstonriverreportwr28141109May1987.pdf	PDF
4/7/2009	JDB	JohnSeviersteamlantastbestosfolder.pdf	PDF
4/7/2009	JDB	JohnSeviersteamlantastborrowareareclamationdnesoilschedule67.pdf	PDF
2/10/2009	JDB/RAD	JSF Annual Ash Disposal Area Inspection Oct 1973.pdf	PDF
2/10/2009	JDB/RAD	JSF Ash Pond Dike 1973 Failure.pdf	PDF
2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy 2000.pdf	PDF
2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy 2001.pdf	PDF
2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy 2002.pdf	PDF
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2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy80.pdf	PDF
2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy81.pdf	PDF
2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy82.pdf	PDF
2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy83.pdf	PDF
2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy84.pdf	PDF



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Date Reviewed	Reviewed by	File Name	File Type
2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy85.pdf	PDF
2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy86.pdf	PDF
2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy87.pdf	PDF
2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy88.pdf	PDF
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2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy94.pdf	PDF
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2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy97.pdf	PDF
2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy98.pdf	PDF
2/10/2009	JDB/RAD	JSF Ash Pond Insp Fy99.pdf	PDF
3/17/2009	RAD	JSF Dry Fly Ash Storage Investigation.pdf	PDF
2/27/2009	RAD	JSF Inspection 6 21 07 071970633[1].pdf	PDF
2/27/2009	RAD	JSF_Gnd Water Digital File History Submittal 8-17-07 072341247[1].pdf	PDF
2/10/2009	JDB/RAD	JSF_Ash_Pond_Insp_Fy08.pdf	PDF
2/27/2009	RAD	JSF_Historical_Gnd Water Data_For_Dry_Ash_Stack 08-17-07 072341248[1].pdf	PDF
2/10/2009	RAD	JSF-1002H201-Sht -Rev 1 Commercial Access Road To Dry Fly Ash Facility.cal	CAL
2/10/2009	RAD	JSF-10H287-4-Sht -Rev 1 Ash Pond J.cal	CAL
4/7/2009	JDB	JSF-10H289-01 Rev 0.cal	CAL
4/7/2009	JDB	JSF-10H291-01 Rev 0.cal	CAL
4/7/2009	JDB	JSF-10H291-01 Rev 1.cal	CAL
4/7/2009	JDB	JSF-10H291-02 Rev 0.cal	CAL
4/7/2009	JDB	JSF-10H291-02 Rev 1.cal	CAL
4/7/2009	JDB	JSF-10H291-02 Rev 2.cal	CAL
4/7/2009	JDB	JSF-10H291-03 Rev 0.cal	CAL
4/7/2009	JDB	JSF-10H291-03 Rev 1.cal	CAL
4/7/2009	JDB	JSF-10H291-04 Rev 0.cal	CAL
4/7/2009	JDB	JSF-10H291-04 Rev 1.cal	CAL
4/7/2009	JDB	JSF-10H291-05 Rev 0.cal	CAL
4/7/2009	JDB	JSF-10H291-05 Rev 1.cal	CAL
4/7/2009	JDB	JSF-10H291-06 Rev 0.cal	CAL
4/7/2009	JDB	JSF-10H291-06 Rev 1.cal	CAL
4/7/2009	JDB	JSF-10H291-07 Rev 0.cal	CAL
4/7/2009	JDB	JSF-10H291-07 Rev 1.cal	CAL
4/7/2009	JDB	JSF-10H291-08 Rev 0.cal	CAL
4/7/2009	JDB	JSF-10H291-08 Rev 1.cal	CAL



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Date Reviewed	Reviewed by	File Name	File Type
4/7/2009	JDB	JSF-10H291-10 Rev 0.cal	CAL
2/10/2009	RAD	JSF-10H291-10-Sht -Rev 1 Tribble & Richardson Law Engineering Proj. No. 3822-014 Dry Fly Ash Stack Pond Layout.cal	CAL
2/10/2009	RAD	JSF-10H291-11-Sht -Rev 2 Law Engineerng And Tribble & Richardson Inc. Dry Fly Ash Stack Details.cal	CAL
2/10/2009	RAD	JSF-10H291-12-Sht -Rev 1 Yard Ash Disposal Stack Area Location Plan.cal	CAL
2/10/2009	RAD	JSF-10H291-1-Sht -Rev 1 Law Engineering And Tribble & Richardson Inc. Dry Fly Ash Stack Existing Contours (West).cal	CAL
2/10/2009	RAD	JSF-10H291-2-Sht -Rev 2 Law Engineering And Tribble & Richardson Inc. Dry Fly Ash Stack Proposed Contours (West).cal	CAL
2/10/2009	RAD	JSF-10H291-3-Sht -Rev 2 Law Engineering And Tribble & Richardson Inc. Dry Fly Ash Stack Existing Contours (East).cal	CAL
2/10/2009	RAD	JSF-10H291-4-Sht -Rev 2 Law Engineering And Tribble & Richardson Inc. Dry Fly Ash Stack Proposed Contours (West).cal	CAL
2/10/2009	RAD	JSF-10H291-5-Sht -Rev 2 Law Engineering And Tribble & Richardson Inc. Dry Fly Ash Stack Cross - Section A.cal	CAL
2/10/2009	RAD	JSF-10H291-6-Sht -Rev 2 Law Engineering And Tribble & Richardson Inc. Dry Fly Ash Stack Cross - Section B And D.cal	CAL
2/10/2009	RAD	JSF-10H291-7-Sht -Rev 2 Law Engineering And Tribble & Richardson Inc. Dry Fly Ash Stack Cross - Section C.cal	CAL
2/10/2009	RAD	JSF-10H291-8-Sht -Rev 2 Law Engineering And Tribble & Richardson Dry Fly Ash Stack Cross - Section E.cal	CAL
2/10/2009	RAD	JSF-10H291-9-Sht -Rev 0 Law Engineering And Tribble & Richardson Inc Dry Fly Ash Stack Access Road Plan And Profile.cal	CAL
2/11/2009	RAD	JSF-10N205-Sht -Rev 3 Condensing Water Supply Intake Trash Boom Beneral Layout & Dike Details.cal	CAL
4/7/2009	JDB	JSF-10N207-Sht -Rev 1.cal	CAL
2/11/2009	RAD	JSF-10N212-Sht -Rev 0 Coal Yard Location Of Settlement Slabs.cal	CAL
2/11/2009	RAD	JSF-10N230-Sht -Rev 1 Main Plant Ash Disposal Area Divider Dike & Floating Boom.cal	CAL
4/7/2009	JDB	JSF-10N290 Rev 0.cal	CAL
2/10/2009	RAD	JSF-10N290-Sht -Rev 0 Main Plant Ash Disposal Area E' Dike Repair.cal	CAL
2/10/2009	RAD	JSF-10N295-Sht -Rev 3 Main Plant Fly Ash Disposal Area 'G' - Plan.cal	CAL
2/10/2009	RAD	JSF-10N296-Sht -Rev 2 Main Plant Fly Ash Disposal Area 'G' - Sections & Details.cal	CAL
4/7/2009	JDB	JSF-10N297 Rev 0.cal	CAL
2/10/2009	RAD	JSF-10N297-Sht -Rev 2 Standard Drawing Ash Disposal Spillway.cal	CAL
4/7/2009	JDB	JSF-10N298 Rev 2.cal	CAL
2/10/2009	RAD	JSF-10N298-Sht -Rev 2 Standard Drawing Weir For Ash Disposal Spillway.cal	CAL
2/10/2009	RAD	JSF-10N400-Sht -Rev 3 Yard Concrete Ash Sluice Pipe Trench & Supports Outline & Reinf - Sheet 1.cal	CAL
2/10/2009	RAD	JSF-10N401-Sht -Rev 2 Yard Concrete Ash Sluice Pipe Trench & Supports Outline & Reinf - Sheet 2.cal	CAL
2/10/2009	RAD	JSF-10N402-Sht -Rev 4 Yard Concrete Ash Sluice Pie Trench & Supports Outine & Reinf Sheet 3.cal	CAL
2/10/2009	RAD	JSF-10N403-Sht -Rev 1 Yard Units 1 - 4 Concrete Ash Disposal Trench Outline & Reinf..cal	CAL
2/10/2009	RAD	JSF-10N410-Sht -Rev 3 Mn Plnt Ash Dpspl Area.cal	CAL
2/10/2009	RAD	JSF-10Rs403-Sht 1-Rev 0 Yard, Units 1-4 Ash Disposal Trench Reinforcement Schedule For Dwg 10N403.cal	CAL
4/7/2009	JDB	JSF-10W200-01 Rev 2.cal	CAL
2/10/2009	RAD	JSF-10W204-1-Sht -Rev 0 Yard Ash Disposal Stack Area Phase 1 Stack Plan.cal	CAL
2/10/2009	RAD	JSF-10W204-2-Sht -Rev 0 Yard Ash Disposal Stack Area Phase 2 Stack Plan.cal	CAL
2/10/2009	RAD	JSF-10W204-3-Sht -Rev 0 Yard Ash Disposal Stack Area Phase 3 Stack Plan.cal	CAL
2/10/2009	RAD	JSF-10W204-4-Sht -Rev 0 Yard Ash Disposal Stack Area Phase 4 Stack Plan.cal	CAL
2/10/2009	RAD	JSF-10W204-5-Sht -Rev 0 Yard Ash Disposal Stack Area Final Stack Plan.cal	CAL
2/10/2009	RAD	JSF-10W204-6-Sht -Rev 0 Yard Ash Disposal Stack Area Existing Disposal Area Closure.cal	CAL



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Date Reviewed	Reviewed by	File Name	File Type
2/10/2009	RAD	JSF-10W204-7-Sht -Rev 0 Yard Ash Disposal Stack Area Sections And Details.cal	CAL
2/10/2009	RAD	JSF-10W204-8-Sht -Rev 0 Yard Ash Disposal Stack Area Contour Prior To Closure And Interim Cover For Phase 1.cal	CAL
2/10/2009	RAD	JSF-10W204-9-Sht -Rev 0 Yard Ash Disposal Stack Area Existing Contour.cal	CAL
2/10/2009	RAD	JSF-10W206-10-Sht -Rev 0 Yard Partial Plan New Riprap Along Ash Dike Toe.cal	CAL
2/10/2009	RAD	JSF-10W206-11-Sht -Rev 0 Yard Ash Disposal-Stack Area Cross Sections.cal	CAL
2/10/2009	RAD	JSF-10W206-1-Sht -Rev 1 Yard Ash Disposal - Stack Area Existing Features As Of February 2001 Legend & Drawing Index.cal	CAL
2/10/2009	RAD	JSF-10W206-2-Sht -Rev 0 Yard Ash Disposal-Stack Area Existing Features As Of February 2001 Sheet 2.cal	CAL
2/10/2009	RAD	JSF-10W206-3-Sht -Rev 0 Yard Ash Disposal-Stack Area Existing Features As Of February 2001 Sheet 3.cal	CAL
2/10/2009	RAD	JSF-10W206-4-Sht -Rev 1 Yard Ash Disposal-Stack Area Slope Regrading Plan Sheet 1.cal	CAL
2/10/2009	RAD	JSF-10W206-5-Sht -Rev 0 Yard Ash Disposal-Stack Area Slope Regrading Plan Sheet 2.cal	CAL
2/10/2009	RAD	JSF-10W206-6-Sht -Rev 0 Yard Ash Disposal - Stack Area Slope Regrading Plan Sheet 3.cal	CAL
2/10/2009	RAD	JSF-10W206-7-Sht -Rev 0 Yard Ash Disposal-Stack Area Cross Sections.cal	CAL
2/10/2009	RAD	JSF-10W206-8-Sht -Rev 0 Dike Embankment Stability Evaluation Ash Disposal-Stack Area Details.cal	CAL
2/10/2009	RAD	JSF-10W206-9-Sht -Rev 0 Yard Ash Disposal-Stack Area Slope Regrading Road Plan & Profile.cal	CAL
2/11/2009	RAD	JSF-10W211-1-Sht -Rev 1 Main Plant General Grading Plan Plant & Coal Yard Areas Detail & Sections.cal	CAL
2/11/2009	RAD	JSF-10W211-2-Sht -Rev 0 Main Plant Coal Yard Base Drainage Network Plan.cal	CAL
2/11/2009	RAD	JSF-10W211-3-Sht -Rev 0 Main Plant Coal Yard Base Drainage Network Profile.cal	CAL
2/10/2009	RAD	JSF-10W211-4-Sht -Rev 0 Main Plant Coal Yard Base Drainage Network Sections & Details.cal	CAL
2/11/2009	RAD	JSF-10W211-Sht -Rev 15 Main Plant General Grading Plan Plant & Coal Yard Areas.cal	CAL
2/11/2009	RAD	JSF-10W211-Sht -Rev 15 Main Plant General Grading Plan Plant & Coal Yard Areas.cal	CAL
2/10/2009	RAD	JSF-10W213-Sht -Rev 2 Main Plant Miscellaneous Sections Coal Yard Area.Tif	Tif
3/12/2009	RAD	JSF-10W213-Sht -Rev 2 Main Plant Miscellaneous Sections Coal Yard Area.Tif	Tif
2/10/2009	RAD	JSF-10W215-Sht -Rev 3 Yard Paving & Grading Under Fly Ash Precipitators.cal	CAL
4/7/2009	JDB	JSF-10W286-01 Rev 0.cal	CAL
4/7/2009	JDB	JSF-10W286-01 Rev 3.cal	CAL
4/7/2009	JDB	JSF-10W286-02 Rev 0.cal	CAL
4/7/2009	JDB	JSF-10W286-02 Rev 2.cal	CAL
4/7/2009	JDB	JSF-10W286-03 Rev 1.cal	CAL
4/7/2009	JDB	JSF-10W286-04 Rev 1.cal	CAL
4/7/2009	JDB	JSF-10W286-05 Rev 0.cal	CAL
4/7/2009	JDB	JSF-10W286-06 Rev 0.cal	CAL
2/10/2009	RAD	JSF-10W286-1-Sht -Rev 3 Fly Ash Disposal Area J.cal	CAL
2/10/2009	RAD	JSF-10W286-2-Sht -Rev 2 Main Plant Fly Ash Disposal Area J Sheet 2.cal	CAL
2/10/2009	RAD	JSF-10W286-3-Sht -Rev 1 Main Plant Fly Ash Disposal Area J Sheet 3.cal	CAL
2/10/2009	RAD	JSF-10W286-4-Sht -Rev 1 Main Plant Flyash Disposal Area J Sheet 4.cal	CAL
2/10/2009	RAD	JSF-10W286-5-Sht -Rev 1 Main Plant Fly Ash Disposal E Plan.cal	CAL
2/10/2009	RAD	JSF-10W286-6-Sht -Rev 1 Main Plant Ash Disp Area J Closure - Sections Sheet 6.cal	CAL
2/10/2009	RAD	JSF-10W286-7-Sht -Rev 0 Main Plant Fly Ash Disposal Area J Closure Plan Sections & Details - Sheet 7.cal	CAL



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Date Reviewed	Reviewed by	File Name	File Type
2/11/2009	RAD	JSF-10W288-Sht -Rev 1 Yard Borrow Area Ash Stack Closure Plan & Cross-Sections.cal	CAL
3/23/2009	RAD	JSF-10W291 Rev 1.cal	CAL
3/23/2009	RAD	JSF-10W291 Rev 2.cal	CAL
4/7/2009	JDB	JSF-10W292 Rev 2.cal	CAL
2/11/2009	RAD	JSF-10W293-1-Sht -Rev 2 Main Plant Ash Disposal Area No. 2 Plan.cal	CAL
2/11/2009	RAD	JSF-10W293-2-Sht -Rev 1 Main Plant Ash Disposal Area No. 2 Sections And Details.cal	CAL
2/11/2009	RAD	JSF-10W293-3-Sht -Rev 0 Main Plant Ash Disposal Area No. 2 Sections And Details.cal	CAL
2/11/2009	RAD	JSF-10W294-1-Sht -Rev 0 Main Plant Fly Ash Disposal Area No. 2 Catwalk To Water Level Monitoring Station.cal	CAL
3/12/2009	RAD	JSF-10W299-Sht -Rev 0 Main Plant Fly Ash Disposal Area 'G' Catwalk To Water Level Monitoring Station.cal	CAL
3/10/2009	RAD	JSF-10W321-1-Sht -Rev 0.cal	CAL
3/10/2009	RAD	JSF-10W321-2-Sht -Rev 0.cal	CAL
3/10/2009	RAD	JSF-10W421-01 Rev 1.cal	CAL
3/10/2009	RAD	JSF-10W421-02 Rev 1.cal	CAL
3/10/2009	RAD	JSF-10W421-03 Rev 1.cal	CAL
2/11/2009	RAD	JSF-10W708-Sht -Rev 0 Coal Handling Facilities Contractor'S Use Areas.cal	CAL
3/10/2009	RAD	JSF-17W438 Rev 2.cal	CAL
3/12/2009	RAD	JSF-17W445-1-Sht -Rev 2.cal	CAL
3/12/2009	RAD	JSF-17W445-1X-Sht -Rev 0.cal	CAL
3/12/2009	RAD	JSF-17W445-2-Sht -Rev 3.cal	CAL
3/12/2009	RAD	JSF-17W445-3-Sht -Rev 2.cal	CAL
3/12/2009	RAD	JSF-17W445-4-Sht -Rev 2.cal	CAL
2/27/2009	RAD	Kg0305 082410913[1].pdf	PDF
3/17/2009	RAD	Law Ground Water Monitoring Well Installation.pdf	PDF
3/17/2009	RAD	Law Report Of Geotechnical Exploration_Dike Exp And Testing.pdf	PDF
2/27/2009	RAD	M75080310 001 Solid Waste Correspondence 080810206[1].pdf	PDF
2/27/2009	RAD	M75080910 001 Solid Waste Correspondenc 082550699[1].pdf	PDF
2/27/2009	RAD	M75081205 001 Solid Waste Correspondence 083500030[1].pdf	PDF
2/27/2009	RAD	M75081210 001 Solid Waste Correspondence 083500035[1].pdf	PDF
2/27/2009	RAD	M75090106001 Solid Waste Correspondence 090140173[1].pdf	PDF
3/12/2009	RAD	Operations Manual.pdf	PDF
3/17/2009	RAD	Report Of Geographical Soil Sampling.pdf	PDF
2/27/2009	RAD	Sb0435 071910415[1].pdf	PDF
2/27/2009	RAD	Sb0437 071910422[1].pdf	PDF
2/27/2009	RAD	Sb0511 071940314[1].pdf	PDF
2/27/2009	RAD	Spb0792 072550597[1].pdf	PDF
2/27/2009	RAD	Spb4229 073460123[1].pdf	PDF
3/12/2009	RAD	Waste Disposal Permit And Ash Stacking Plan 12_05 App E.pdf	PDF
2/27/2009	RAD	Wjc00049 082191185[1].pdf	PDF



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Date	Reviewed		File
Reviewed	by	File Name	Type
2/27/2009	RAD	Wjc00090 082200110[1].pdf	PDF