

**Table A.1 Phase 1 Recommendation Summary
Coal Combustion Product Impoundments and Disposal Facilities
Various Locations, Tennessee**

PLANT	FACILITY	Facility Data							Phase 2 Engineering Evaluation				
		⁽¹⁾ Facility Type	Active/Inactive Status	⁽²⁾ Embankment Height (ft)	⁽²⁾ Maximum Water Storage (ac. ft.)	⁽²⁾ Surface Area (acres)	Operated Over Ash Pond	Stacked Weir Outlet Structure	Evaluation Recommended	⁽³⁾ Status	⁽⁴⁾ Estimated Start Date	⁽⁴⁾ Estimated Completion Date	Comments
Allen Fossil Plant	East Ash Pond and Dredge Cell	AP	Active	20	140	70	N	N	X	Future	Aug-09	Feb-10	Anticipate Completing Drilling October 2009
	East Ash Stilling Pond	AP	Active	20	200	10	N	Y	X	Future	Aug-09	Feb-10	Anticipate Completing Drilling October 2009
	West Ash Pond	AP	Inactive	28	N/A	23	N	N	-	-	-	-	See Note 5; See Note 6
Bull Run Fossil Plant	Bottom Ash Disposal Area 1	AP/ST	Active	52	NA	40	Y	N	X	Active	Jun-09	Feb-10	Anticipate Completing Drilling September 2009
	East/West Dredge Cell	DC	Inactive	70	NA	23	N	N	-	-	-	-	See Note 5
	Dry Fly Ash Stack & Sediment Pond	ST/OT	Active	56	NA	50	N	N	-	-	-	-	See Note 5
	Fly Ash Pond/Stilling Pond Area 2	AP	Active	18	800	41	N	Y	X	Active	Jun-09	Feb-10	Anticipate Completing Drilling September 2009
	Gypsum Disposal Area 2A	GS	Active	45	NA	35	Y	N	X	Active	Jun-09	Feb-10	Anticipate Completing Drilling September 2009
Cumberland Fossil Plant	Ash Pond	AP	Active	36	1800	50	N	Y	X	Active	May-09	Oct-09	Anticipate Completing Drilling July 2009
	Dry Ash Stack	ST	Active	35	N/A	110	Y	N	X	Active	May-09	Oct-09	Anticipate Completing Drilling July 2009
	Gypsum Storage Area	GS	Active	50	N/A	170	Y	N	X	Active	May-09	Oct-09	Anticipate Completing Drilling July 2009
Gallatin Fossil Plant	Closed Disposal Area	AP	Inactive	25	N/A	68	N	N	-	-	-	-	See Note 5
	Fly Ash Pond E	AP	Active	25-30	3800	157	N	Y	X	Future	Aug-09	Mar-10	Anticipate Completing Drilling October 2009
	Stilling Ponds B, C, & D	AP	Active	8-10	550	55	N	Y	X	Future	Aug-09	Mar-10	Anticipate Completing Drilling October 2009
	Bottom Ash Pond A	AP	Active	20-25	1400	269	N	Y	X	Future	Aug-09	Mar-10	Anticipate Completing Drilling October 2009
John Sevier Fossil Plant	Bottom Ash Disposal Area 2	AP	Active	37	1500	41	N	Y	X	Active	Apr-09	Sep-09	Drilling Completed June 2009
	Dry Fly Ash Disposal Area & Sediment Ponds	ST	Active	120	N/A	90	Y	N	X	Active	Apr-09	Sep-09	Drilling Completed June 2009
	Ash Disposal Area J	DC	Inactive	50	N/A	22	N	N	-	-	-	-	See Note 5
Johnsonville Fossil Plant	Active Ash Disposal Areas 2 & 3	AP	Active	36	3100	87	N	Y	X	Active	Feb-09	Jun-09	Drilling Completed April 2009
	South Railroad Loop Ash Disposal Area 4	DC	Inactive	70	N/A	95	N	N	-	-	-	-	See Note 5
	Ash Dredge Pond East of Gas Turbines Area 5	DC	Inactive	36	N/A	35	N	N	-	-	-	-	See Note 5
	North Abandoned Ash Disposal Area 1	AP	Inactive	25-30	N/A	158	N	N	-	-	-	-	See Note 5
Kingston Fossil Plant	Peninsula Gypsum Pond	GS	Inactive	28	N/A	51	N	N	X	Complete			Phase 2 limited to review of karst features. Design recently completed by others. No further evaluations are proposed at this time.
	Ash Pond	AP	Active	24	2100	86	N	Y	X	Active	Jan-09	Jul-09	Drilling Completed May 2009
	Stilling Pond	AP	Active	na	N/A	27	N	Y	X	Active	Jan-09	Jul-09	Drilling Completed May 2009
Watts Bar Fossil Plant	Ash Pond/Stilling Pond	AP	N	30	N/A	14.3	N	Y	-	-	-	-	See Note 5; See Note 6
	Slag Disposal Area	AP	N	na	N/A	24.5	N	N	-	-	-	-	-

Notes:

1. Facility Types: AP - Ash Pond ST - Dry Stack DC - Ash Dredge Cell GS - Gypsum Stack OT - Other
2. Embankment height, maximum water storage and surface area data were obtained through cursory field and office measurements, and information reviewed during Phase 1. The data are approximations only and not intended to supersede previously reported values for design or regulatory purposes. The data presented are solely for determining a facilities eligibility for Phase 2 evaluations as part of this study. Prior to initiating Phase 2 efforts, data will be reviewed and additional measurements made, if necessary. Any facility deemed as not meeting the criteria for Further Phase 2 work will be removed from the schedule and further work halted.
3. Status of Phase 2 engineering evaluations are as of June 15, 2009.
4. Estimated start and completion dates may be adjusted based on further observations and findings.
5. Recommendations for additional engineering analysis of inactive facilities are generally limited to development of Record Drawings and updating the Operations & Maintenance Manual, unless otherwise noted.
6. Recommendations for additional engineering analysis of this inactive facility, include evaluation of stormwater runoff conveyance.

Table A.2 Short Term Improvement Recommendations and Status
Coal Combustion Product Impoundments and Disposal Facilities
Various Locations, Tennessee

Facility	Work Plan	Observation	Short Term Improvement Recommendation	Actual/Anticipated Submittal Date to TVA	Construction Status	Anticipated/Actual Construction Completion Date
Allen Fossil Plant (ALF)	Work Plan No. 1	Slough on inside face of the East Fly Ash Pond northern perimeter dike	Installation of geotextile fabric with anchor trench and backfill area with crushed stone and rip rap	April 15, 2009	Complete	March 2009
Bull Run Fossil Plant (BRF)	Work Plan No. 1	Surface Depressions on the South Slope of the Gypsum Disposal Area	Excavation, stabilization of soft/saturated bottom materials with crushed stone, backfill with geotextile wrapped crushed stone, and capping with clay and restoring Curlex erosion blanket	February 25, 2009	Complete	April 2009
	Work Plan No. 2	Small scarp along about 250 ft length of the inside shoulder of the west Ash Pond perimeter dike; near vertical, eroded slope on the ash pond side of the divider dike; animal burrow in the top of the divider dike	Repair of scarp - place 6" to 12" size riprap toe to crest along affected area; divider dike erosion - protect slope from further erosion by placing riprap along Ash Pond side of dike; hand excavate or use small equipment to investigate animal burrow and backfill with compacted like material	May 21, 2009	Active	July 2009
	Work Plan No. 3	Near vertical eroded slopes along the west side of the Sluice Ditch below the Gypsum Disposal Area	Reconstruction of the 2H:1V slope with bottom ash, capped with geotextile fabric for separation and a riprap cover layer for erosion protection.	May 21, 2009	Active	August 2009
Cumberland Fossil Plant (CUF)	Work Plan No. 1	Coal Yard Drainage Basin fines were placed in the Dry Ash Stack area	Slope stability analysis was recommended to verify that fines would not be detrimental to long term slope stability	February 9, 2009	Complete	February 2009
	Work Plan No. 2	Seepage through dike at SW corner Gypsum Disposal Area and elevated piezometer readings	Evaluate existing pump system and install piping to divert gypsum slurry from top of Gypsum Disposal Area	March 23, 2009	Complete	April 2009
	Work Plan No. 3	Poor drainage, standing water and steep, unstable side slopes, as well as heavy vegetation growth within the perimeter dike drainage ditches below the gypsum disposal and dry ash stack areas	Remove vegetation, perform topographic surveying and design; and construct drainage improvements along the entire perimeter dike drainage ditch to eliminate standing water, establish stable side slopes, and reduce maintenance activities associated with vegetation removal	August 21, 2009	Active	May 2010
John Sevier Fossil Plant (JSF)	Work Plan No. 1	Wave-action erosion in Bottom Ash Stilling Pond, woody vegetation growth on different slopes and animal borrows	Re-grade or line eroded areas with crushed stone, remove woody vegetation as per suggested guidelines and treat animal burrows	May 7, 2009	Active	July 2009
	Work Plan No. 2	Irregular and overly vegetated internal slopes and pipe inlets/outlets of Coal Yard Runoff Ponds and access road	Remove vegetation, line interior slopes with filter fabric and crushed stone and pave access road surface with crushed stone	May 27, 2009	Active	June 2009
	Work Plan No. 3	Red water seep along lower access road of North Ash Disposal Stack Slope, where road grade conditions do not provide positive drainage	Continue to monitor area for changes in seepage conditions	June 5, 2009	Active	December 2009
Johnsonville Fossil Plant (JOF)	Work Plan No. 1	Seepage on the southeast dike of the Active Ash Disposal Area	Installation of seepage collection system to provide facility for monitoring seepage	February 2, 2009	Complete	February 2009
	Work Plan No. 2	Steep dike slopes and hummocky, uneven ground surface observed on Active Ash Disposal Area Dike; depressions on NW Dike	Geotechnical exploration and analyses to determine existing stability condition	June 30, 2009	Active	June 2009
	Work Plan No. 3	Existing tall, unsupported weir spillways that surge and inadequate freeboard	Install siphons to lower stilling pond and construct new spillways to operate pool at lower level	May 15, 2009	Active	September 2009
	Work Plan No. 4	Existing abandoned weir spillways	Investigate spillways, design and implement permanent closure	August 21, 2009	Planned	November 2009

Notes:

1. Short term improvement recommendations are based on Stantec's observations as of June 15, 2009. Significant effort has been made by TVA to date to implement these recommendations and improve site conditions.
2. Table A.2 does not include system wide efforts by TVA to improve vegetation management, mitigate animal burrows/erosion, and install stone surfacing. Each of these activities improves site conditions and permits further inspection of sloped areas.