

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

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
Paradise Fossil Plant	Scrubber Sludge Complex - Gypsum Stack	GS	Active	62	7000	225	N	N	X	Active	Feb-09	Jul-10	Field Geotechnical Drilling Complete April 2009
	Scrubber Sludge Stilling Pond	GS	Active	34	1100	30	N	N	X	Active	Feb-09	Jul-10	Field Geotechnical Drilling Complete April 2009
	East and West Dredge Cells	DC	Inactive	25	300	41	N	N	-	-	-	-	See Note 5
	Jacob's Creek Ash and Stilling Pond	AP	Inactive	34	2000	74	N	Y	X	Future	Sep-09	Mar-10	H&H Evaluation
	Peabody Ash and Stilling Pond	AP	Active	18	3500	137	N	Y	X	Future	Sep-09	Mar-10	Geotechnical Drilling, H&H Evaluation
	Slag Mountain	ST	Inactive	50	N/A	N/A	N	N	-	-	-	-	See Note 5
	Slag Mountain Pond 1	OT	Inactive	20	125	6	N	N	-	-	-	-	See Note 5
	Slag Mountain Pond 2	OT	Inactive	20	75	5	N	N	-	-	-	-	See Note 5
	Slag Pond 2A	AP	Active	10	350	16.5	N	N	X	Future	Jul-09	Nov-09	H&H Evaluation
	Slag Pond 2B	AP	Active	24	85	11.5	N	N	X	Future	Jul-09	Nov-09	H&H Evaluation
	Slag Stilling Pond	AP	Active	20	70	3.5	N	Y	X	Future	Jul-09	Nov-09	H&H Evaluation
Shawnee Fossil Plant	Consolidated Waste Dry Stack	ST	Active	100	N/A	110	Y	N	X	Future	Sep-09	30-Mar	A comprehensive geotechnical exploration was performed as part of recent expansion permitting. Phase 2 will be limited to supplementary explorations
	Active Ash Pond No. 2	AP	Active	25	Unknown	180	N	Y	X	Future	Sep-09	30-Mar	Anticipate completing drilling October 2009
	Inactive Dredge Cell	DC	Inactive	20	N/A	29	Y	N	-	-	-	-	Dredge cell is located within footprint of the active ash pond; See Note 5

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.

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

Facility	Work Plan	Observation	Short Term Improvement Recommendation	Actual/Anticipated Submittal Date to TVA	Construction Status	Anticipated/Actual Construction Completion Date
Paradise Fossil Plant (PAF)	Work Plan No. 1	Seepage, sloughing, inadequate freeboard of the east and west pond of the Gypsum Stack	Re-route all sluicing to East Pond, repair sloughing on north dike of East Pond, perform geotechnical exploration, repair all saturated slope areas, cut vegetation	January 26, 2009	Complete	March 2009
	Work Plan No. 2	Apparent abandoned spillway pipes located from east and west pond of the Gypsum Stack	Grouting of pipes to properly abandon	February 11, 2009	Active	August 2009
	Work Plan No. 3	Wet and soft bench and slope areas near active decant spillway outlets between east and west ponds of the Gypsum Stack	Construct a toe buttress using rip-rap	February 24, 2009	Complete	March 2009
	Work Plan No. 4	Poor drainage and wet and soft slope conditions on east slope of west pond of the Gypsum Stack	Repair ditches using fabric and rip-rap, grout rip-rap and replace drain pipe	February 26, 2009	Complete	March 2009
	Work Plan No. 5	Poor drainage and wet and soft slope conditions on east slope of west pond of the Gypsum Stack	Minor dimension changes to Work Plan No. 4	March 3, 2009	Complete	March 2009
	Work Plan No. 6	Poor drainage and wet and soft slope conditions on east slope of west pond of the Gypsum Stack extending above and around constructed Toe Buttress	Extend ditch repairs to the extents of toe buttress and extend toe buttress to elevation of intermediate bench on east side of West Pond	March 11, 2009	Complete	March 2009
	Work Plan No. 7	Poor drainage along east pond of the Gypsum Stack east side access road ditch	Clean out and repair ditch using fabric and rip-rap, replacement of drain pipe	March 20, 2009	Complete	April 2009
	Work Plan No. 8	Poor drainage along three benches and ditches on south side of west pond of the Gypsum Stack	Clean out and repair ditches using filter fabric and rip-rap, modification of benches and regrading using soil fill and stone, and construction of connector channels	March 31, 2009	Active	July 2009
	Work Plan No. 9	Poor drainage along three benches and ditches on south side of west pond of the Gypsum Stack	Dimension modifications to Work Plan No. 8	April 2, 2009	Active	July 2009
	Work Plan No. 10	Slumping on south slope of east pond of the Gypsum Stack near the northeast corner of Stilling Pond	Construct a toe buttress using rip-rap	April 17, 2009	Complete	May 2009
	Work Plan No. 11	Poor drainage along benches and ditches on south and east sides of east pond of the Gypsum Stack	Clean out and repair ditches using filter fabric and rip-rap, modification of benches and regrading using soil fill and stone, and construction of connector channels	April 20, 2009	Active	July 2009
	Work Plan No. 12	Erosion of interior slopes on south and east sides of Peabody Ash Pond due to wave action, animal burrows present near pool level	Repair interior slopes using filter fabric and rip-rap	April 30, 2009	Active	July 2009
	Work Plan No. 13	Depressions in rim-ditch on east side of east pond of the Gypsum Stack with presumed piping channels	Excavate exploratory pit to monitor for piping channels, backfill pits with filter fabric and compacted dry gypsum	June 5, 2009	Complete	June 2009
	Work Plan No. 14	After construction of toe buttress near northeast corner of Stilling Pond additional slope movement occurring resulting in visible cracks on the slope.	Extend the previously constructed toe buttress from Work Plan No. 10	June 8, 2009	Active	July 2009
Shawnee Fossil Plant (SHF)	Work Plan No. 1	Elevated TSS levels at Rail Loop Pond outlet	Drain Pond and Install BMP's to reduce TSS levels	May 8, 2009	Active	August 2009
	Work Plan No. 2	Steep slopes, scarps, trees along Intake Channel Dredge Cell slopes	Grading Plan to Flatten slopes, remove trees, and excavate pond for added capacity	June 5, 2009	Active	August 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.