

OPTION 3-1

Case: Reduced drainage layer  
 Location: In Pond  
 Governing Assumptions:  
 Coal Supply 2.8 #

Drainage Layer  
 Present cost in 2005 dollars -Phase 2 5,598,822  
 Present cost in 2005 dollars -Phase 3 2,155,779  
 Phase 2 cost with 50% reduction 2,799,411  
 Phase 3 cost with 50% reduction 1,077,890

NOT REDUCED  
IN 1-1

Gypsum Marketing 100% marketing after 2011  
 No gypsum disposal cost after 2011

In Pond gypsum handling cost:  
 Present cost over 20 years 5,188,249  
 Assume same cost as for peninsula -  
 no increased cost through 2014 3,644,075

Fly Ash handling cost  
 Present cost over 20 years 12,624,840  
 Assume same cost as for peninsula -  
 no increased cost through 2014 11,554,547

WAS ALREADY  
THE SAME  
REDUCED?

Delay Dry Ash conversion  
 Present year for dry ash conversion 2016 1,309,440  
 Gypsum marketing - 2012-2016 2.75  
 Years of fly ash storage gained  
 Revised year for dry ash conversion 2019

NO REMARKS  
ON #1

Reduced Fly Ash Handling cost  
 Present cost/yr for dry ash handling 1,479,015  
 Revised cost for handling dense slurry  
 based on conversation with JEA and  
 Calvin Toney (1 dozer and 1 operator) 250,000

\$0.53/cy (17%)

	Cash Flows	NPV
2005	4,455,553	
2006	1,036,721	
2007	1,077,153	
2008	4,904,225	
2009	1,374,637	
2010	1,428,247	\$ 10,892,184
2011	1,483,949	
2012	1,304,232	
2013	1,356,401	
2014	1,410,657	
2015	1,467,083	\$ 13,231,093
2016	4,043,439	
2017	1,586,797	
2018	1,650,269	
2019	43,891,315	
2020	504,785	
2021	524,976	
2022	545,975	
2023	567,814	
2024	590,527	
2025	614,148	
2026	638,714	
2027	664,262	
2028	690,833	
2029	718,466	\$ 21,279,352

KINGSTON FOSSIL PLANT OPTION 1 - WET ASH IN POND GYPSUM ON PENNSULA  
(WITHOUT POND BUFFER)

PRESENT WORTH

ESTIMATE NUMBER 0509301R1

IN PAND

ITEM No.	DESCRIPTION	UNITS	Total Cost 2005 Dollars	Number of Cycles	2005 Dollars per Cycle	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Escalated SubTotal	PRESENT WORTH of using Capital Dollars				
						1.00	1.04	1.08	1.13	1.17	1.21	1.26	1.31	1.36	1.42	1.48	1.54	1.60	1.66	1.73	1.80	1.87	1.94	2.02	2.10	2.18	2.27	2.36	2.46	2.56						
<b>CAPITAL COSTS</b>																																				
1	Install Drains For Swan Pond Road	Lump Sum	\$1,887,628	1	\$1,887,628																														\$1,887,628	
4	Ash And Gypsum In Pond	Lump Sum	\$682,456	1	\$682,456																														\$682,456	
4A	Phase 1 Base Construction	Lump Sum	\$7,094,411	1	\$7,094,411																														\$7,094,411	
4B	Phase 2 Base Construction	Lump Sum	\$1,077,890	1	\$1,077,890																														\$1,077,890	
5A	Miscellaneous	Lump Sum	\$1,086,838	3	\$682,279																														\$2,059,675	\$1,154,086
5	Dry Fly Ash Conversion	Lump Sum	\$24,175,580	1	\$24,175,580												\$41,743,395																	\$41,743,395	\$5,869,534	
Z	Engineering	Lump Sum	\$349,210	1	\$349,210																													\$349,210	\$49,210	
Total Capital Costs			\$ 32,839,013			\$ 3,481,573		\$ 3,765,083								\$ 2,517,672																		\$ 61,507,874	\$ 12,391,004	
<b>OPERATING COSTS</b>																																				
6	Disposal Cell Phase 1	Lump Sum	\$11,556,567	12	\$962,879																														\$11,556,567	\$7,831,890
10,11,12,13,18&19	Phase 2 Wet Gypsum (Initial Thru Stage 4)	Lump Sum	\$3,844,075	20	\$192,204																													\$3,844,075	\$331,137	
14,15,16,17&20	Phase 3 Dry Ash (Initial Thru Stage 4)	Lump Sum	\$3,000,000	12	\$250,000																													\$3,000,000	\$5,821,638	
	QA/QC For Construction Of Disposal Facility	Lump Sum	\$748,254	24	\$31,101																													\$748,254	\$299,474	
Total Operating Costs			\$ 19,154,896			\$ 983,980	\$ 1,038,721	\$ 1,077,153	\$ 1,119,162	\$ 1,174,637	\$ 1,228,247	\$ 1,283,247	\$ 1,338,247	\$ 1,393,247	\$ 1,448,247	\$ 1,503,247	\$ 1,558,247	\$ 1,613,247	\$ 1,668,247	\$ 1,723,247	\$ 1,778,247	\$ 1,833,247	\$ 1,888,247	\$ 1,943,247	\$ 1,998,247	\$ 2,053,247	\$ 2,108,247	\$ 2,163,247	\$ 2,218,247	\$ 2,273,247	\$ 2,328,247	\$ 2,383,247	\$ 2,438,247	\$ 2,493,247	\$ 2,548,247	\$ 2,603,247
Total Costs			\$ 51,993,909			\$ 4,465,553	\$ 4,527,292	\$ 4,844,236	\$ 5,143,249	\$ 5,437,484	\$ 5,726,494	\$ 6,010,494	\$ 6,289,494	\$ 6,563,494	\$ 6,832,494	\$ 7,106,494	\$ 7,375,494	\$ 7,640,494	\$ 7,901,494	\$ 8,159,494	\$ 8,414,494	\$ 8,667,494	\$ 8,918,494	\$ 9,167,494	\$ 9,414,494	\$ 9,659,494	\$ 9,902,494	\$ 10,143,494	\$ 10,383,494	\$ 10,622,494	\$ 10,859,494	\$ 11,095,494	\$ 11,330,494	\$ 11,565,494	\$ 11,800,494	\$ 12,035,494
Present Worth of this Option			\$ 21,279,352			\$ 1,483,849	\$ 1,594,247	\$ 1,710,247	\$ 1,831,247	\$ 1,957,247	\$ 2,088,247	\$ 2,224,247	\$ 2,365,247	\$ 2,511,247	\$ 2,662,247	\$ 2,818,247	\$ 2,979,247	\$ 3,145,247	\$ 3,316,247	\$ 3,492,247	\$ 3,673,247	\$ 3,859,247	\$ 4,050,247	\$ 4,246,247	\$ 4,447,247	\$ 4,653,247	\$ 4,864,247	\$ 5,080,247	\$ 5,301,247	\$ 5,527,247	\$ 5,758,247	\$ 6,004,247	\$ 6,255,247	\$ 6,511,247	\$ 6,772,247	

DRY  
ASH  
@ \$0.52/cy  
  
NO  
PHASE 2  
PHASE 2