

KINGSTON FOSSIL PLANT
 OPTION 5 - WET ASH IN POND & GYPSUM ON PENINSULA
 (WITH BUFFER OPTION)

Project name KIF0509305FLY&BOTTM ASH

Engineer DAN SMITH

Estimator C. L. Toney

Labor rate table KIF 40 2004

Equipment rate table TVA Equipment

Project Ash
 Plant KIF
 Estimate # 0509305
 PCN # KIF530
 Requesting Engr Dan Smith
 Option 5
 Revision 0
 Phase 2
 Estimate Type Preliminary
 Estimate Accuracy +/- 20%
 Est. Issue Date 12/20/2004
 Funding Type Capital
 Unit N

Notes Wet ash in pond & gypsum on peninsula (Wet ash in dredge cell/Phase 1, and Phase 2, Phase 3 not constructed, Gypsum on peninsula).

All cost are based in 2005 dollars. Additional notes are as follow:

(1) Closure costs not included.

(2) Bottom ash columns are subjected to change with final design.

(3) Engineering (incl TVA oversight, subcontracts, and geotechnical investigation) - Assumes 10% of construction cost.

(4) Assuming a disposal rate of 475,600 cy annually (including bottom and fly ash) & gypsumash generating 327,360 cy annually.

(5) Single phase power is assumed for pump installed for dredgs cell seepage retrofit. 3-phase power is assumed not to be required.

Report format Sorted by 'Location/Activity'
 Detail summary

Location	Activity	Description	Takeoff Quantity	Labor Productivity	Labor Quantity	Labor Amount	Material Amount	SUB Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	
01	Erosion Controls P	Erect Silt Fences	1,000.00 lf	0.069	68.57 mh	1,994	502	-	-	317	2,813	2,813	
		Geotextile (Nonwoven) Erosion Protection Channel	4,300.00 sy	0.016	68.80 mh	1,563	5,772	-	-	175	1,844	7,911	7,911
		500' Riprap	5,215.00 ln	0.320	1,668.00 mh	49,667	53,037	-	-	26,865	24,85	129,568	129,568
		3" Stone, 1" Thick To Prevent Erosion (Assume 105 pcf)	2,094.00 ln	0.096	192.36 mh	6,056	16,190	-	-	13,063	13,063	27,312	27,312
		Sig 1-6 CMP Mill Spillway (1/2 of 48" Dia Riser Stand Pipe @ 128 Ft/E)	4.00 ea	166.084	-	-	20,450	20,450	-	-	10,860.84	43,443	43,443
		Cut/Excavation For Placement Of 48" Dia Half-Round Pipes @ 43' bcy	52.00 cy	0.400	20.80 mh	599	1,771	-	-	177	14,91	17,68	17,68
		Fill With 1032 Compacted/Crushed Stone	93.00 ln	0.400	37.20 mh	1,107	804	-	-	599	26.99	2,510	2,510
		30" Diameter CMP Culvert	1,000.00 lf	0.800	800.00 mh	17,487	28,442	-	-	3,962	47,811	47,811	47,811
		Bedding For 30" CMP, 6" Thick	135.00 lf	0.900	67.50 mh	1,543	1,284	-	-	230	25.61	3,457	3,457
		30" Diameter CMP Stand Pipe (42' long @ 4 Stages w/30" Per. Stages)	720.00 lf	0.750	540.00 mh	16,533	19,038	-	-	2,279	52.70	37,940	37,940
		150.9" Riprap Outlet For Metal Spillway	53.00 ln	0.320	16.96 mh	505	539	-	-	273	24.85	1,317	1,317
		Galvanized Corrugated Metal Anti-Sleep Collar	16.00 ea	16.000	256.00 mh	1,461	4,862	-	-	869.59	13,914	13,914	13,914
		Erosion Controls P	150,687	150,687	4,201.35 hrs	125,853	150,687	42,029	-	-	869.59	318,569	318,569
		01			4,201.35 hrs	125,853	150,687	42,029	-	-	869.59	318,569	318,569
		02	Seed/Mulch	Seed/Mulch Disturbed Areas	26.00 ac	-	-	-	-	64,619	-	-	2,485.34
Seed/Mulch	-			-	-	-	64,619	-	-	-	64,619	64,619	
03	South Access Road	1032 Crushed Stone Base, 6" Depth	3,520.00 tn	0.120	422.40 mh	13,739	31,950	-	-	4,147	14.16	49,836	
		South Access Road	-	-	-	13,739	31,950	-	-	4,147	49,836	49,836	
		Perimeter Road	-	-	-	13,739	31,950	-	-	4,147	49,836	49,836	
04	Perimeter Road	1032 Roller Compacted Crushed Stone Base, 6" Depth	6,885.00 tn	0.120	826.20 mh	26,872	62,493	-	-	8,112	14.16	97,478	
		Perimeter Road	-	-	-	26,872	62,493	-	-	8,112	97,478	97,478	
05	Inlet Drai/Swan Pond	5" Dia Pipe Bollards	24.00 ea	1.500	36.00 mh	1,038	4,892	-	-	245	256.78	6,163	
		PVC Monitoring Wells	6.00 ea	-	-	-	-	12,324	-	-	2,054.00	12,324	
		6" Dia Non-Perf HDPE Corrugated Tubing Lateral Outlet Pipes (EL. 772)	474.00 lf	0.200	94.80 mh	2,987	765	-	-	403	7.96	3,774	
		Crushed Stone, Bedding 6" Depth	16.00 ln	0.500	8.00 mh	230	152	-	-	27	25.61	410	
		6" Dia Non-Perf HDPE Corrugated Tubing Lateral Outlet Pipes (EL. 730)	520.00 lf	0.200	104.00 mh	2,838	861	-	-	442	7.96	4,141	
		Crushed Stone, Bedding 6" Depth	18.00 ln	0.500	9.00 mh	259	171	-	-	31	25.61	461	
		6" Dia Non-Perf HDPE Corrugated Tubing Lateral Outlet Pipes (EL. 732)	491.00 lf	0.200	98.20 mh	2,880	813	-	-	417	7.96	3,910	
		Crushed Stone, Bedding 6" Depth	17.00 ln	0.500	8.50 mh	245	162	-	-	29	25.61	435	
		6" Dia Non-Perf HDPE Corrugated Tubing Lateral Outlet Pipes (EL. 810)	1,282.00 lf	0.200	256.40 mh	6,968	2,122	-	-	1,089	7.96	10,208	
		Crushed Stone, Bedding 6" Depth	43.00 ln	0.500	21.50 mh	619	409	-	-	73	25.61	1,101	
		6" Dia Non-Perf HDPE Corrugated Tubing Lateral Outlet Pipes (EL. 817)	1,218.00 lf	0.200	243.60 mh	6,948	2,016	-	-	1,034	7.96	9,699	
		Crushed Stone, Bedding 6" Depth	41.00 ln	0.500	20.50 mh	580	390	-	-	70	25.61	1,050	
		6" Dia Non-Perf HDPE Corrugated Tubing Lateral Outlet Pipes (EL. 825)	1,180.00 lf	0.200	236.00 mh	6,941	1,953	-	-	1,022	7.96	9,386	
		Crushed Stone, Bedding 6" Depth	40.00 ln	0.500	20.00 mh	576	380	-	-	63	25.61	1,024	
		6" Dia Non-Perf HDPE Corrugated Tubing Lateral Outlet Pipes (EL. 832)	1,160.00 lf	0.200	232.00 mh	6,934	1,920	-	-	985	7.96	9,237	
		Crushed Stone, Bedding 6" Depth	39.00 ln	0.500	19.50 mh	561	371	-	-	66	25.61	989	
		Cut For 6" Dia Non-Perforated HDPE (17,858 bcy)	21,190.00 sy	0.200	4,238.00 mh	121,995	37,1	-	-	36,025	7.46	156,020	
		Basin For 6" Dia Non-Perforated HDPE (12,181 bcy)	14,833.00 sy	0.250	3,708.25 mh	109,748	44,481	-	-	10,250	7.46	151,227	
		Cut For 6" Dia Perforated HDPE (18,166 bcy)	21,624.00 sy	0.250	4,364.80 mh	125,648	37,103	-	-	7,46	162,748	162,748	
		Basin For 6" Dia Perforated HDPE (12,730 bcy)	15,276.00 sy	0.250	3,819.00 mh	109,534	45,810	-	-	10,20	155,744	155,744	
		6" Dia Perforated HDPE Perimeter Underdrain (EL. 785)	2,090.00 lf	0.200	400.00 mh	10,817	3,310	-	-	1,698	7.96	15,926	
		1081 Crushed Stone	378.00 ln	0.150	56.70 mh	1,632	3,431	-	-	14.67	5,545	5,545	
		Geotextile Woven Monofilament	1,555.00 sy	0.200	32.01 mh	613	3,151	-	-	109	4,173	4,173	
		6" Dia Perforated HDPE Perimeter Underdrain (EL. 772)	3,790.00 lf	0.200	758.00 mh	20,688	6,273	-	-	7.96	30,179	30,179	
		1081 Crushed Stone	716.00 ln	0.150	107.40 mh	3,592	6,499	-	-	14.67	10,503	10,503	
		Geotextile Woven Monofilament	2,948.00 sy	0.021	60.64 mh	1,730	5,959	-	-	2.68	7,905	7,905	
		6" Dia Perforated HDPE Perimeter Underdrain (EL. 780)	4,180.00 lf	0.200	832.00 mh	22,707	6,886	-	-	3,332	7.96	33,125	
		1081 Crushed Stone	786.00 ln	0.150	117.90 mh	3,904	7,134	-	-	14.67	11,530	11,530	
		Geotextile Woven Monofilament	3,235.00 sy	0.021	66.56 mh	1,899	6,552	-	-	2.68	8,678	8,678	
		6" Dia Perforated HDPE Perimeter Underdrain (EL. 792)	3,925.00 lf	0.200	785.00 mh	21,625	6,497	-	-	7.96	31,204	31,204	
1081 Crushed Stone	742.00 ln	0.150	111.30 mh	3,904	6,735	-	-	14.67	10,885	10,885			
Geotextile Woven Monofilament	3,053.00 sy	0.021	62.80 mh	1,792	6,182	-	-	2.68	8,197	8,197			
6" Dia Perforated HDPE Perimeter Underdrain (EL. 810)	6,410.00 lf	0.200	1,282.00 mh	34,668	10,610	-	-	5,443	14.67	51,042			
Crushed Stone	1,211.00 ln	0.150	181.65 mh	5,238	10,992	-	-	1,544	17,765	17,765			
Geotextile Woven Monofilament	4,988.00 sy	0.021	102.36 mh	2,628	349	-	-	2.68	13,371	13,371			
6" Dia Perforated HDPE Perimeter Underdrain (EL. 817)	6,990.00 lf	0.200	1,392.00 mh	33,242	10,090	-	-	5,171	14,684	14,684			
1081 Crushed Stone	1,151.00 ln	0.150	172.65 mh	4,070	10,447	-	-	14.67	16,885	16,885			
Geotextile Woven Monofilament	4,737.00 sy	0.021	97.44 mh	2,380	9,592	-	-	3.11	12,703	12,703			
6" Dia Perforated HDPE Perimeter Underdrain (EL. 825)	5,900.00 lf	0.200	1,180.00 mh	32,205	9,765	-	-	5,010	7.96	46,981			

Location	Activity	Description	Takeoff Quantity	Unit	Productivity	Labor Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	
06	Inlet Dms/Swan Pond	1081 Crushed Stone	1,115.00	in	0.150	167.25	4,814	-	10,121	-	1,422	14.67	16,357	
		Geotextile Woven Monofilament	4,589.00	sq yd	0.021	94.40	2,693	-	9,292	-	321	-	2.68	12,306
		6" Dia Perforated HDPE Perimeter Underdrain (EL 632)	9,800.00	in	0.200	1,160.00	31,659	-	9,800	-	4,925	-	7.96	46,185
		1081 Crushed Stone	1,066.00	in	0.150	164.40	4,732	-	9,946	-	1,397	-	14.67	16,078
		Geotextile Woven Monofilament	4,511.00	sq yd	0.021	92.79	2,647	-	9,134	-	316	-	2.68	13,092
		12" Dia Face Main HDPE Perimeter Underdrain (EL 763)	2,590.00	in	0.250	845.00	17,604	-	13,087	-	2,741	-	12.96	32,432
		1081 Crushed Stone	575.00	in	0.150	86.25	2,483	-	5,219	-	733	-	14.67	8,435
		Submersible Pumping Station Equipment Package	1.00	ea	56.000	56.00	2,298	-	5,085	-	209	-	7,560.57	7,561
		80" Diameter Catch Basin (Precast)	2,293.00	sq yd	60.000	60.00	1,810	-	3,051	-	476	-	5,338.36	5,338
		Geotextile Woven Monofilament	4,540.00	sq yd	0.021	47.17	1,346	-	4,843	-	160	-	5.68	6,148
		Grout Seal Storm Drain - 24" Diameter (Pump & Plug)	54.00	cy	1,000	54.00	1,515	-	2,656	-	489	-	50.19	4,970
		Seal Weld 1/4" Thick A-36 Steel Plate	2.00	ea	4,000	8.00	1,002	-	1,002	-	80	-	243.02	486
		Grout Seal Storm Drain - 24" Diameter (Pump & Plug)	53.00	cy	1,000	53.00	1,467	-	2,693	-	80	-	90.19	4,780
		Seal Weld 1/4" Thick A-36 Steel Plate	2.00	ea	4,000	8.00	1,002	-	1,002	-	80	-	243.02	486
		Grout Seal Storm Drain - 24" Diameter (Pump & Plug)	23.00	cy	1,000	23.00	645	-	1,216	-	212	-	90.19	2,074
		Seal Weld 1/4" Thick A-36 Steel Plate	2.00	ea	4,000	8.00	1,002	-	1,002	-	80	-	243.02	486
		24" CMP Storm Drain	38.00	in	0.480	18.24	499	-	773	-	69	-	35.24	1,339
		Excavation For 24" Dia Pipe (25' bcy)	30.00	cy	0.300	30.00	173	-	173	-	77	-	6.31	249
		Backfill For 24" Diameter CMP (17' bcy)	21.00	cy	0.320	6.72	193	-	193	-	166	-	17.13	360
		36" CMP Storm Drain	4.00	in	0.500	2.00	58	-	58	-	7	-	25.61	102
		Bedding For 24" Culvert	72.00	in	0.600	43.20	1,259	-	2,709	-	265	-	58.80	4,233
		Excavation For 36" Dia Pipe (67' bcy)	61.00	cy	0.200	18.20	466	-	466	-	207	-	6.31	976
		Backfill For 36" Diameter CMP (47' bcy)	57.00	cy	0.220	18.24	525	-	525	-	451	-	17.13	976
		Bedding For 36" Culvert	9.00	in	0.500	4.50	86	-	86	-	15	-	25.61	230
		Anchor Trench - Excavate into Borrow Area (8,650 bcy)	10,360.00	cy	0.200	2,076.00	59,750	-	59,750	-	28,489	-	8.31	88,229
Upper & Lower LDPE Geomembrane	110,668.00	sq yd	0.650	5,534.40	157,885	-	157,885	-	14,113	-	3.79	419,651		
Sediment Trap (3,630 bcy)	4,356.00	cy	0.040	174.24	5,807	-	5,807	-	4,592	-	2.39	10,389		
Inlet Dms/Swan Pond						35,789.66 hrs	1,016,066	495,205	12,324	265,158	-	1,786,753		
						35,789.66 hrs	1,016,066	495,205	12,324	265,158	-	1,786,753		
06	Dig Call#1 Opr Cost	Elev. 810 To Elev. 866	1.00	lot								0.00	0	
		Bottom Ash Dike Fill	822,416.00	cy	1,300.000	476.76	1,155,419	-	966,966	-	-	-	3.42	2,126,405
07	Gypsum Skt Peninsula	Dredge	4,553,654.00	cy	375.000	1,810.28	531,669	-	1,264,903	-	-	-	2.65	1,786,953
		Wet Dip And Stack	12,900	yr									0.00	0
07	Clear And Grub	Clear And Grub	50.00	ac	72.000	9,400.00	193,775	-	160,944	-	-	0.00	354,719	
		Strip 1 ft Vegetation And Topsoil - Spoil At Stockpile	128,000.00	cy	0.020	2,560.00	79,390	-	82,238	-	-	-	1.25	161,618
08	Erosion Controls	Gypsum Skt Peninsula				9,060.00	273,155		243,181				516,336	
		Clear And Grub				48,954.36	1,691,078		2,331,880				11,554,547	
08	Erosion Controls	Dig Call#1 Opr Cost				48,954.36	1,691,078		7,631,580				11,554,547	
		Clear And Grub				9,060.00	273,155		243,181				516,336	
09	Roads	Bottom Ash (South Access Road)	2,400.00	cy	1,904.000	1,26	3,052	-	3,118	-	-	2.57	6,170	
		Crushed Stone Base (South Access Road)	2,900.00	in	0.20	348.00	11,319	-	26,233	-	-	-	14.16	41,058
10	Fencing	Crushed Stone Base (Permanent Parking Lot Paved Stone)	340.00	in	0.20	40.80	1,327	-	3,068	-	-	14.16	52,042	
		Roads				479.56	15,698		6,935				52,042	

Location	Activity	Description	Takeoff Quantity	Labor Productivity	Labo Quantity	Labo Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount	
18	Ph 2 Base Construct	18" Dia Concrete Bottom Ash Drain Columns (haul 2 miles, 1:10 lcs)	16,920.00 lf	1,400.000	12,650 cd	74,304	-	347,537	-	-	-	20.54	347,537
		Roll Tilt Fly Ash Layer	177,100.00 sy	1,300.000	45.96 cd	3,000,000	20,645	-	-	20,645	-	0.54	94,949
		Bottom Ash Dike Fill	183,614.00 sy	1,300.000	126.96 cd	3,000,000	254,191	-	-	254,191	-	3.42	558,966
		1.0' Layer Of Bottom Ash	81,097.00 sy	1,300.000	46.98 cd	113,751	94,905	-	-	94,905	-	3.42	208,696
		Geosynthetic Clay Liner	183,260.00 sy	0.026	4,754.76 mh	135,928	440,312	-	-	12,150	-	3.21	588,331
		4" Diameter Perforated PVC Pipe (Underdrain) SDR 17.5	26,092.00 lf	0.070	1,625.74 mh	49,829	40,942	-	-	7,762	-	3.78	98,333
		Trenching For The Drain System (4" Dia Underdrain), 966 bcy	1,160.00 cy	0.200	232.00 mh	6,878	28,700	-	-	1,972	-	7.48	8,650
		Strip Existing 1' Soil Cover (Phase 1 Expansion), 18,133 bcy	22,960.00 cy	800.000	28.70 cd	14,128	-	-	-	14,930	-	1.27	29,650
		Anchor Trench Cut	1,305.00 cy	0.200	391.20 mh	7,519	30,330	-	-	10,849	-	8.31	39,179
		2.0' Thick Bottom Ash Blanket Drain	24,640.00 cy	1,300.000	18.95 cd	45,869	18,940	-	-	6,835	-	17.13	21,725
		1.0' Thick Filter Drain Ash Layer	12,320.00 cy	1,300.000	9.48 cd	23,240	19,140	-	-	3,821	-	3.42	64,119
		Geomembrane	36,960.00 sy	0.050	1,848.00 mh	52,720	82,684	-	-	4,712	-	3.42	42,090
		Perforated Pipe ADS Drain Tube, 6" Diameter	4,121.00 lf	0.021	86.77 mh	26,398	6,186	-	-	7,966	-	3.79	140,126
		Geotextile For Underdrain	1,091.00 in	0.150	357.75 mh	4,322	9,344	-	-	2,888	-	2.66	39,384
		567 Stone For Outlet Pipe Bedding (135 pc)	1,235.00 in	0.200	308.75 mh	6,747	2,088	-	-	1,276	-	14.67	11,051
		Solid Outlet Pipe ADS Drain 6" Diameter	290.00 in	0.150	37.50 mh	1,079	2,869	-	-	1,050	-	7.96	14,684
		8" Dia Non-Perforated PVC Compugated Tubing Lateral Outlet Pipe (EL. 760)	302.00 lf	0.200	60.40 mh	1,648	500	-	-	256	-	14.67	3,667
1081 Crushed Stone, Bedding 8" Depth	10.00 in	0.500	5.00 mh	144	85	-	-	17	-	7.96	2,405		
6" Dia Perforated HDPE Drain (EL. 760)	1,512.00 lf	0.200	302.40 mh	8,253	2,593	-	-	1,284	-	7.96	12,040		
1081 Crushed Stone	286.00 in	0.500	143.00 mh	4,116	5,500	-	-	487	-	7.96	12,040		
Geotextile Woven Monofilament	1,176.00 sy	0.021	24.19 mh	690	2,381	-	-	82	-	26.81	3,154		
Cut For Underdrain System	224.00 cy	0.200	44.80 mh	1,290	381	-	-	381	-	7.46	1,670		
Backfill For Underdrain System	168.00 cy	0.250	42.00 mh	1,209	-	-	-	504	-	10.20	1,713		
Certification	1.00 ls	-	-	-	-	-	-	-	-	31,500	31,500.00	31,500	
QA/QC For Construction Of Disposal Facility	1.00 ls	-	-	-	-	-	-	-	-	470,247	470,247.00	470,247	
Ph 2 Base Construct												817,784	
17												2,009,441	
83,395.31 hrs												817,784	
6,976.00 cy												12,041	
4,293.00 in												21,837	
6,976.00 sy												3,583	
6,976.00 sy												427	
												34,304	
18												3,583	
1,765.86 hrs												3,583	
1,765.86 hrs												34,304	
234.00 in												23,838	
4,300.00 cy												23,838	
												19,495	
												19,495	
451,295.00 cy												709,988	
0.90 yrs												1.57	
7,370.00 lf												6,258	
6,142.00 sy												7.96	
1,492.00 in												430	
1,656.00 lf												1,902	
336.00 in												1,408	
												428	
												3,090	
												43,972	
												43,972	
255,180.00 sy												24,85	
1,334,690.00 cy												3.30	
11,495.00 lf												2,688	
9,579.00 sy												1,902	
2,328.00 in												1,408	
2,886.00 lf												428	
524.00 in												3,090	
												412,725	
												412,725	
255,180.00 sy												24,85	
1,334,690.00 cy												3.30	
11,495.00 lf												2,688	
9,579.00 sy												1,902	
2,328.00 in												1,408	
2,886.00 lf												428	
524.00 in												3,090	
												412,725	
												412,725	
255,180.00 sy												24,85	
1,334,690.00 cy												3.30	
11,495.00 lf												2,688	
9,579.00 sy												1,902	
2,328.00 in												1,408	
2,886.00 lf												428	
524.00 in												3,090	
												412,725	
												412,725	
255,180.00 sy												24,85	
1,334,690.00 cy												3.30	
11,495.00 lf												2,688	
9,579.00 sy												1,902	
2,328.00 in												1,408	
2,886.00 lf												428	
524.00 in												3,090	
												412,725	
												412,725	
255,180.00 sy												24,85	
1,334,690.00 cy												3.30	
11,495.00 lf												2,688	
9,579.00 sy												1,902	
2,328.00 in												1,408	
2,886.00 lf												428	
524.00 in												3,090	
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255,180.00 sy												24,85	
1,334,690.00 cy												3.30	
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9,579.00 sy												1,902	
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												412,725	
												412,725	
255,180.00 sy												24,85	
1,334,690.00 cy												3.30	
11,495.00 lf				</									

Estimate Totals

Labor	13,202,243								
Material	3,680,722								
Subcontract	16,307,202								
Equipment	10,331,353								
Other	31,550								
	<u>43,753,000</u>	43,753,000							
Engineered Materials - Ph 2			100.000 %						C
Adjustment - Engr Materials		43,753,000	(100.000) %						C
Environmental Costs									
Adjustment Environmental		43,753,000	100.000 %						C
FPG Civil Engr - Phase 2	30,075		0.183 % @	42.00 A					716
Non-TVA Engr - Phase 2	564,067		2.001 % @	72.00 A					7,834
FPG Proj Onli Cost - Phase 2	977		0.006 % @	42.00 A					23
FPG Proj Onli Sched - Phase 2	2,923		0.018 % @	42.00 A					70
FPG Cost Estimating - Phase 2	976		0.006 % @	42.00 A					23
FPG Engr Records - Phase 2	960		0.006 % @	42.00 A					23
Phase 2 Other/Other Org	<u>630,000</u>	44,333,000							L
Rounding		44,333,000							L
Total		44,333,000							