Orlando Utilities Commission Florida Municipal Power Agency Eissimmes Utility Authority Docket No. 910382-EM Applicant Witness: Earl C. Windisch Exhibit No. ___ (ECW-2)

CURTIS H. STANTON ENERGY CENTER
UNIT 2
PROJECT PLANNING STUDY



DOCUMENT NUMBER-DATE
04335 MAY -2 1991
CRSC-RECORDS/REPORTING.

CURTIS H. STANTON ENERGY CENTER UNIT 2 PROJECT PLANNING STUDY ERATA SHEET

Page 2-5	Revise SEC Unit 2 Replication 1997 from 537,271 to 529,924
	Revise SEC Unit 2 Rebid 1997 from 552,174 to 544,827
Page 2-6	Replace Table 2-2 DOLLARS COMMITTED AT END OF QUARTER with attached revised Table 2-2.
Page 6-2	Article 6.2, second paragraph, Line 6 - Revise 5.25 to 4.00.
Page 6-3	Article 6.4, Revise SEC Unit 2 Replication 1997 from 537,271 to 529,924.
	Revise SEC Unit 2 Rebid 1997 from 552,174 to 544,827.
Page 7-2	Table 7-1 CASH FLOWS BY QUARTER with attached revised Table 7-1.
Page 7-6	Table 7-4 DOLLARS COMMITTED AT END OF QUARTER with attached revised Table 7-4.
Appendix C	Cost Estimates SEC, Unit 2 - Replace with the attached revised cost estimates.
Appendix D	Cash Flow 1997 C.O. (Replicate) - Replace with the attached revised cash flow.
	Cash Flow 1997 C.O. (Rebid) - Replace with the attached revised cash flow.

TABLE 2-2. DOLLARS COMMITTED AT END OF QUARTER

Commercial			Rebid			Replicate	
Operation fiscal year	Quarter	1995 (\$x1,000)	1996 (\$x1,000)	1997 (\$x1,000)	1995 (\$x1,000)	1996 (\$x1,000)	1997 (\$x1,000)
1989	4	200	0	0	200	0	0
1990	1	220	0	0	220	0	0
1990	2	220	224	20	220	224	20
1990	3	240	244	40	240	244	40
1990	4	881	244	40	240	244	40
1991	1	2,238	264	270	1,281	264	270
1991	2	6,908	270	277	3,328	270	277
1991	3	23,490	659	315	13,046	309	315
1991	4	50,326	1,610	689	32,343	328	334
1992	1	96,557	3,270	1,677	70,083	1,434	373
1992	2	168,697	7,713	4,147	122,850	3,559	1,543
1992	3	NA	24,742	10,207	NA	13,652	4,793
1992	4	NA	52,617	27,984	NA	33,701	15,498
1993	1	NA	100,592	60,908	NA	72,920	40,312
1993	2	NA	175,524	107,132	NA	127,794	77,102
1993	3	NA	NA	189,469	NA	NA	137,980

TABLE 7-1. CASH FLOWS BY QUARTER

Fiscal		SI	C Unit 2 Replicat	.0		SEC Unit Bid	
Year	Quarter	1995 (\$x1,000)	1996 (\$x1,000)	1997 (\$x1,000)	1995 (\$x1,000)	1996 (\$x1,000)	1997 (\$x1,000)
1989	4	20	0	0	20	0	0
1990	1	80	0	0	80	0	0
	2	60	76	20	60	76	20
	3	80	76	20	80	76	20
	4	0	56	0	640	56	0
991	1	1,041	57	77	1,357	57	77
	2	2,048	6	64	2,225	6	64
	3	6,566	39	96	6,806	389	96
	4	5,900	19	57	6,032	951	412
1992	1	11,726	1,106	39	11,983	1,660	988
	2	16,525	2,125	1,170	17,100	1,899	2,469
	3	37,594	6,814	3,250	38,768	6,853	3,457
	4	34,647	6,119	7,349	35,689	6,253	7,356
993	1	30,571	12,177	10,550	31,541	12,362	10,785
	2	38,820	17,180	9,101	39,855	17,698	9,758
	3	40,899	39,092	22,282	41,953	40,309	23,729
	4	42,940	36,028	41,879	43,932	37,108	42,687
1994	1	40,796	31,788	34,313	41,756	32,794	35,550
	2	36,755	40,368	42,014	37,624	41,441	42,409
	3	23,761	42,531	34,829	24,342	43,624	35,605
	4	23,651	44,655	41,012	24,212	45,683	42,105
1995	1	23,431	42,424	39,706	23,950	43,420	40,755
	2	21,130	38,222	31,224	21,611	39,122	31,963
	3	27,382	24,708	32,630	27,998	25,309	33,368
	4	19,014	24,594	30,201	19,394	25,174	30,795
1996	1	4,809	24,366	21,032	4,946	24,902	21,266
	2	3,696	21,973	29,375	3,767	22,470	30,031
	3	-	28,475	25,087		29,112	25,648
	4	-	19,773	20,467		20,165	20,934
1997	1	-	4,999	30,433	-	5,134	32,177
	2	_	3,842	13,038	_	3,913	12,838
	3		_	4,828		_	4,427
	4			2,984			3,039

TABLE 7-4. DOLLARS COMMITTED AT END OF QUARTER

Commercial			Rebid			Replicate	
Operation fiscal year	Quarter	1995 (\$x1,000)	1996 (\$x1,000)	1997 (\$x1,000)	1995 (\$x1,000)	1996 (\$x1,000)	1997 (\$x1,000)
1989	4	200	0	0	200	0	0
1990	1	220	0	- 0	220	0	0
1990	2	220	224	20	220	224	20
1990	3	240	244	40	240	244	40
1990	4	881	244	40	240	244	40
1991	1	2,238	264	270	1,281	264	270
1991	2	6,908	270	277	3,328	270	277
1991	3	23,490	659	315	13,046	309	315
1991	4	50,326	1,610	689	32,343	328	334
1992	1	96,557	3,270	1,677	70,083	1,434	373
1992	2	168,697	7,713	4,147	122,850	3,559	1,543
1992	3	NA	24,742	10,207	NA	13,652	4,793
1992	4	NA	52,617	27,984	NA	33,701	15,498
1993	1	NA	100,592	60,908	NA	72,920	40,312
1993	2	NA	175,524	107,132	NA	127,794	77,102
1993	3	NA	NA	189,469	NA	NA	137,980

			-	1993	1993	1996	1998	1997	1997
SPEC	BESCRIPTION .	00C 2003	(MET 2	ESCALATION FACTOR	BOLLAR TOTAL	ESCALATION FACTOR	DOLLAR TOTAL	ESCALATION FACTOR	DOLLAR TOTAL
\$1.0403	Built Ratorials Handling FAE	61002	\$1,157,000	1.205	01,394,185	1.253	\$1,449,721	1.293	81,484,431
41.0405	Dust Collection Equipment	61003	\$330,000	1.705	8421,730	1.253	1430,550	1.203	\$469,650
8040.14	Cool Cars (297)		114,730,000	1.205	628,400,450	1.253	121,213,290	1.703	621,721,190
61.0410	Presentic Raterial Handling	61007	627,000	1.205	632,535	1.253	933,831	1.203	830,668
41.1001	Chisney F&E	41008	64,317,000	1.205	85,798,660	1.253	16,027,436	1.283	16,173,794
41.1201	Cranes & Hoists	61009	8317,000	1.205	1384,395	1.253	6399,707	1.293	9409,277
61.1601	Possenger Elevators FAE	61011	\$359,000	1.205	9432,595	1.753	\$449,827	1.293	9460,597
61.1803	Retal Holl Panel F&E	61017	\$1,557,000	1.205	\$1,878,595	1.253	91,953,427	1.203	62,000,197
61.2005	Buct Expansion Joints	61013	9435,000	1.205	\$765,175	1.753	\$795,633	1.293	6814,783
41.2006	Buct Bappers	81014	61,733,000	1.705	62,088,263	1.733	\$2,171,449	1.293	62,223,439
61.3801	Breeching and Ducts	61019	03,332,000	1.705	64,015,060	1.233	94,174,796	1.283	11,274,934
41.3802	Coal Siles	61020	9402,000	1.205	1484,410	1.253	1503,706	1.703	1015,766
61.4001	Structural Steel-Hajor Fac. FAE	81021	\$24,000,000	1.205	128,920,001	1.256	\$30,147,122	1.312	638,496,472
61.4002	SIR STL-Coal 1000, AGCS, TO	61022	\$573,000	1.205	\$670,465	1.253	6717,969	1.283	6735,159
	Subtotal Structural Procurement		156,188,000		967,706,541		670,478,686		672,793,676
62.0201	Particulate Reserval Equip FAE	61024	118,238,000	1.205	921,976,799	1.293	122,052,214	1.203	123,399,354
62.0202	Flue Sas Scrubber & SLS COM FAE	61025	\$26,955,000	1.205	132,480,775	1.253	633,774,613	1.203	\$34,383,265
62.0401	Air Coopressers	61027	0135,000	1.205	\$162,675	1.753	\$169,135	1.203	9173,205
62.0405	Carbon Bioside Supply	81028	100,000	1.205	176,400	1.253	\$100,240	1.203	8102,640
62.0601	Cooling Tower FAE	61029	\$13,625,000	1.205	\$16,418,125	1.253	917,072,125	1.283	817,480,875
62.0001	Fire Protection Equip	61030	\$182,000	1.205	9219,310	1.253	\$220,046	1.283	9233,506
62.0805	Fire Suppression Systems F&E	91021	\$432,000	1.205	1761,560	1.253	6791,896	1.283	9810,854
62.1001	Turbine Generator F&E	61032	\$34,360,000	1.203	941,403,800	1.253	943,053,000	1.283	\$44,083,880
62.1201	Air Preheating Coils	61034	\$100,000	1.205	\$120,500	1.253	\$125,300	1.283	\$128,300
67.1202	Anniliary Cooling Heat Each.	61033	8354,000	1.205	9426,570	1.253	\$443,562	1.283	9454,182
62.1203	Condenser and Auxiliary Equip	91029	\$1,500,000	1.205	\$1,728,000	1.253	\$2,004,800	1.203	92,052,800
62.1204	Condenser Tubes	61037	1818,000	1.205	\$1,071,840	1.253	\$1,062,544	1.283	91,087,784
62.1205	Descrator	91028	\$344,000	1.205	\$414,520	1.253	\$431,032		8441,352
62.1206	Feedmater Heaters	91033	82,283,000	1.205	\$2,731,015	1.253	\$2,860,599	1.283	\$2,929,009
62.1711	Ford Bil Heaters	41641	156,000	1.705	667,400	1.253	970,160	1.763	671,040
62.1801	Ash Handling System	P1042	84,832,000	1.205	85,822,560	1.253	\$6,030,496	1.203	96,199,456
62.2001	Boiler Feed Puop Turbine	61044	91,657,000		01,996,685	1.253	\$2,076,221	1.203	12,125,931
62.2201	High Pressure Fabricated Pipe	81043	14,561,000		85,496,005	1.253	15,714,933		15,851,763
62.2203	Ash Staice Pipe	61046	\$121,000		\$145,805	1.253	6151,613	1.203	\$155,243
62.2205	Circulating Water Pipe	61047	61,410,000		81,477,050	1.253	\$1,766,730	1.203	\$1,007,030
62.2403	Espansion Joints-Rubber	61049	631,000		437,355	1.253	\$30,043		639,773
62.2408	Pipe Supports	61030	8535,000		\$644,675	1.253	6670,355	1.293	5685,403
62.2414	Steam Vent Silencers	\$1031	615,000		\$18,073	1.253	110,775		\$17,245
62.7602	Boiler Feed Pumps (Incl Startup)		\$1,774,000		12,137,670	1.753	12,722,022		02,276,042
62.2603	Circulating Hater Pumps	61054	1586,000		6706,130	1.253	6734,250		8751,030
62.2604	Condensate Punps	61055	1580,000		\$490,900	1.253	6726,746	1.203	1744,140
62.2607	Fire Pueps	61036	\$37,000		144,585	1.253	946,361 937,590	CONTRACTOR OF THE PARTY OF THE	947,475
62.2610	Dil Punps	61057	\$30,000		636,130	1.253	1347,129		6375,919
67.7619	Vertical Water Pumps	61058	6293,000		6353,065	Control of the Contro	AND RESIDENCE OF THE PARTY OF T	Committee of the Commit	1273,007
62.2802	General Service Pumps	61059	\$229,000		\$275,945		6206,937 625,040		925,660
62.2002	Luke Dil Filters	61060	\$20,000	Committee of the second	924,100				184,150
62.3201	Auto Flushing Type Mater Str.	61061	150,000		\$60,250	1.253	962,630 930,891		160,301
62.3201	Air Conditioning Equipment	61062	\$47,000	The second secon	\$56,635		\$286,937	Charles and the control of the Contr	\$293,807
	Ventilating Fans	61663	1229,000		6275,945				
67.3401	Sless Generator F&E	61064	\$55,270,000	1.205	\$66,600,350	1.253	949,253,310	1.203	970,911,410

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SPEC MORES	DESCRIPTION	CODE	OUC UNIT 2	1995 ESCALATION FACTOR	1975 BOLLAR TOTAL	1996 ESCALATION FACTOR	1996 POLLAR TOTAL	1997 ESCALATION FACTOR	1997 BOLLAR TOTAL
62.3402	Forced Braft Fans	61063	1632,000	1.203	1761,560	1.253	1791,096	1.283	1810,856
42.3403	Induced Braft Fans	61066	\$1,061,000	1.205	11,278,505	1.253	61,329,433	1.283	\$1,361,263
82.3601	Field Erected Tanks FAE	61010	9371,000	1.705	1447,055	1.233	9464,863	1.203	9475,793
62.3602	Shop Fabricated Tanks	61067	6173,000	1.205	\$232,565	1.753	6241,829	1.203	8247,419 832,073
42.3801	Putterfly Valves-Ext. Steam	41070	675,000	1.205	130,125	1.753	631,329	1.203	6430,333
42.3802	Large Dutterfly Valves	41071	\$351,000	1.205	6422,955	1.253	1439,003	1.283	9118,636
82.3803	Butterfly Valves-Beneral Serv.	61072	192,000	1.205	6110,060	1.753	\$115,276 \$255,612	1.263	1261,732
62.3804	Extraction Steam-Hon-Return VI	61073	5204,000	1.205	9245,020	1.753	62,175,208	1.203	\$2,227,298
62.3805	H.P. Cast Steel & H.D. Valves	61074	\$1,736,000	1.295	\$2,071,080	1.253	9816,476	1.283	1631,236
62.3807	Cast Steel See. Serv. Valves	61075	\$492,000	1.205	\$592,865 \$333,785	1.753	\$347,001	1.203	4335,391
62.3809	Control Valves-Gen Application	61077	\$277,000	1.205	\$156,630	1.253	1167,890	1.783	\$184,790
62.3010	Control Valves-Spec. Application	\$1078	\$130,000	1.205	9472,360	1.253	\$491,176	1.783	6502,936
62.3811	Forged Steel Valves-Sen. Serv	61000	\$392,000	1.205	123,305	1.253	626,313	1.283	\$26,943
62.3013	Branze Valves-General Service	61001	\$21,000 \$61,000	1.203	173,505	1.253	676,433	1.283	678,263
62.3815	Safety and Relief Valves	61082 61161	\$75,000	1.203	670,375	1.253	193,973	1.283	696,225
62.3817	Enife Sate Valves Setterfly Valves-Spec Syce	41144	183,000	1.205	\$100,015	1.753	9103,999	1.283	6104,489
62.3819	Storry Plog Valves	61100	116,000	1.205	117,200	1.253	120,048	1.203	\$20,528
	Subtotal Mechanical Procurement		\$178,311,000		6214,864,755		6223,423,683		\$220,773,613
63,0001	Overhead Conductor		\$8,000	1.205	17,640	1.253	\$10,024	1.283	\$10,264
43.0002	Control Cable	41004	1792,000	1.205	8954,360	1.253	1992,376	1.783	11,016,136
43.0004	Instrument Cable	41086	\$339,000	1.705	1408,493	1.253	\$424,767	1.283	8434,937
47.0804	15kV Fower Cable	\$1000	1657,000	1.205	1794,015	1.253	1825,727	1.283	1865,497
63.0007	600 Volt Power Cable	61089	1804,000	1.205	61,067,630		\$1,110,150	1.203	61,136,738
63.0000	Coorial & Spec. Purpose Cable	61087	\$97,000		\$114,885	1.253	1121,541	1,203	6174,451
63.1201	Isolated Phase Bus	61291	6342,000		6417,110		6428,526	1.283	9430,786
63.2002	Electrical Panels	61092	\$266,000		6320,530		6333,298	1.203	6341,278
43.2201	Reters	61093	\$1,556,000		91,874,980		\$1,747,648		\$1,996,348
63.2601	Cable Tray	61075	\$180,000		\$216,900		9223,540	1.283	\$230,940
43.20:1	Batteries and Battery Chargers	61076	1187,000		9225,335		6234,311	1.283	6239,921
63.2003	Continuous AC Fower Equipment	61097	\$176,000		\$212,080		9220,529	1.283	1225,800
43.3001	Notor Control Centers	61018	1433,000		4521,765		6542,549	1.203	4535,539
63.3201	Trans. & Subst. Struc. & Hat.	61077	\$531,000		\$639,855		8665,343	1.203	1681,273
63.3401	Power Circuit Breaters	61101	\$500,000		\$602,500		4626,500	1.203	1641,500
63.3404	SCADA Equipment	P1102	916,000		\$19,290			1.203	\$20,528
63,3407	Substation Control & Rolay Pol	61106	\$114,000		9137,370			1.203	6146,262
63.3409	Fiber Optic Equipment	61215	\$30,000		636,150				138,490
63.3601	Switchgear & Sec Unit Substation	61100	\$3,338,000		94,022,290				64,282,634
63,3801	Transformers	61110	\$3,429,000	1.205	14,372,945	1.753	64,547,137	1.203	14,656,007
	Subtotal Electrical Procurement		\$14,079,000)	\$16,965,193		617,640,987		618,063,337

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SFEC MUNICER	DESCRIPTION	OUC CODE	UNIT 2	1975 ESCALATION FACTOR	1993 BOLLAR TOTAL	1996 ESCALATION FACTOR	1996 BOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR 1814L
44,0702	Couré, Control & Info Consuter	Allil	\$2,455,000	1.285	13,199,275	1.753	63,326,713	1.203	13,496,365
64,0204	Programable Controllers	61112	1624,000	1.205	9751,970	1.253	4781,672	1.793	1000,592
64,0401	Annunciation Equipment	61113	1233,600	1.205	\$280,765	1.253	\$291,949	1.293	1298,937
64,0101	Rachinery Monitoring	61114	1200,000	1.205	6741,000	1.253	9250,600	1.293	1256,600
64.0602	Primary Flow Elements	61116	6168,000	1.205	1202,440	1.253	\$210,500	1.283	1215,544
64.1401	Flue Gas Monitoring System 1	61162	\$433,000	1.705	1521,765	1.253	8542,549	1.283	9335,339
64.1601	Control Panels	61124	1338,000	1.205	1407,290	1.253	0423,514	1.283	6433,654
64.1602	Instrument Racks	61125	\$612,000	1.205	1737,460	1.253	9764,836	1.203	6785,196
64.1663	Control Relay Cabinets	61126	8147,000	1.205	1179,545	1.253	1184,697	1.203	9191,167
	Subtotal Control Procurement		65,412,000		66,521,460		96,791,236		66,963,596
65.0202	Chesical Feed System	61127	1121,000	1.205	\$145,805	1.253	4151,613	1.203	1155,243
45.0203	Chlorination Equipment	61128	160,000	1.203	172,300	1.253	175,100	1,283	674,700
45.0001	Condensate Polishing System	61129	\$1,347,000	1.205	\$1,647,235	1.253	91,712,851	1.203	01,753,961
45.0402	Hater Quality Control System	61134	\$320,000	1.205	1305,600	1.253	1900,960	1.203	9410,560
65.0801	Blowdown Treastment Equipment	61160	67,200,000	1.205	\$8,676,000	1.253	89,021,600	1.283	\$9,237,400
	Subtotal Chemical Procurement		17,068,000		\$10,926,940		611,362,204		111,634,244
71.0401	Pilling	81144	16,150,000	1.205	17,410,750	1.253	17,705,950	1.283	17,890,430
71.0402	General Constr. Substructures	61145	\$13,300,000	1.705	\$16,026,500	1.253	\$16,664,700	1.203	617,663,900
71.0403	Beneral ConstSuperstructures	61146	\$12,330,000	1.705	614,857,650	1.753	\$15,449,490	1.703	\$15,819,390
71.0404	Painting	61147	\$1,300,000	1.205	\$1,576,140	1.253	\$1,630,924	1.283	91,678,164
71.0407	Concrete Supply	61150	\$313,000	1.205	\$377,165	1.253	6392,189	1.283	9401,379
71.0408	Construction Testing		\$1,175,000		61,415,875	1.253	61,472,275		81,307,525
71.0407	Bactwork Lining	61167	\$1,305,000	1.205	41,572,525	1.253	\$1,435,165	1.203	61,674,313
	Sebtotal Structural Construction		135,881,000		143,236,605		\$44,958,893		946,035,323
72.0202	Meating, Ventilating & Air Con	61152	11,665,000	1.205	\$2,006,325	1.253	12,006,245		62,136,193
72.0401	Mechanical Construction	61153	\$18,560,000		122,364,900	1.253	\$23,255,680		923,812,480
72.0403	Piping and Equip. Insulation	61134	\$1,917,000		\$2,309,985		92,402,001		12,459,511
72.0601	Flue Gas Cln For Test		\$78,000	1.205	\$118,070	1.253	\$122,794	1.283	\$125,73
	Subtotal Mechanical Construction		\$22,240,000		126,799,200		627,866,720		128,533,920
73.0201	Electrical Construction	61155	99,812,000	1.205	\$11,823,460	1.253	\$12,794,436		112,588,790
73.0204	T-Line & Substation Construction	61156	\$1,065,000	1.205	\$1,283,325	1.253	\$1,334,445	1.203	01,366,39
	Subtetal Electrical Construction		\$10,877,000		\$13,106,783		913,429,981		\$13,955,19
74.0400	Elec. Test & Calibration Serv.	61137	\$1,900,000		\$2,287,500		62,380,700		12,437,70
75.0100	Boiler and Preboiler Cleaning	61150	9168,000		\$202,440		9210,504		1213,54
75.0200	Special Protective Coatings	61159	\$65,000		\$78,375		681,443		683,39
76.0100	Site Services	61160	12,165,00	1.705	12,600,021	1.253	12,712,745	MA (1)	\$3,110,00
	Subtotal Control Construction		14,278,00	•	\$5,179,090		\$5,385,396		13,044,631

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	ORLANDO UTILITIES COMISSION STANDAR UNIT 2 425 NO PRELIMINARY ESTINATE 3-JAM-09 0 REDIO								10-Ray-10	
SPEC	RESCRIPTION	SOC CODE	BUC UNIT 2	1995 ESCALATION FACIUM	1995 BOLLAR TOTAL	1996 ESCALATION FACTOR	1996 BOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL	
	•						*************			
10.1001	DUC Indirects									
	Startop Punter C Bil	61163	\$503,135	1.205	1406,278	1.753	1630,470	1.283	1645,522	
	Startup Diesel Oil	61165	\$107,070	1.205	4131,453	1.253	6134,690	1.283	1137,962	
	Administrative Costs	61201	52,500,000	1.203	63,012,500	1.253	43,132,500	1.293	83,207,500	
	Pre-operations & Raint	61204	\$7,500,000	1.205	69,037,500	1.253	17,397,500	1.293	19,622,500	
	Construction Hanagement	41206	12,500,000	1.205	13,012,500	1.253	43,132,500	MA (1)	43,508,000	
	Insurance	61208	68,500,000	1.205	\$10,242,500	1.253	\$10,650,500	1.203	610,703,500	
	Special Projects	61210	1300,000	1.705	\$361,500	1.253	1375,900	1.283	\$394,900	
	Project Spare Parts		\$4,000,000	1.705	64,820,000	1.253	15,017,000	1.263	15,132,000	
	Net Of Power Sales		[11,000,000]	1.705	(94,820,000)	1.253	(45,012,000)		(03,112,000)	
	Sobtotal DUC Indirects		621,912,225		\$26,494,731		627,456,018		429,413,885	
90.1100	867 Engineering Services	41203	\$23,185,000	1.203	127,937,925	1.253	929,050,805	1.283	179,746,335	
90.1300	DAY Construction Heat, Service	61207	914,570,000	1.203	617,556,850	1.253	918,236,210	800 (11)	121,307,000	
90,2000	Project Contingency		\$25,000,000	1.203	\$30,125,000	1.253	\$31,325,000	1.308	132,290,241	
10.4000	Sales fax		6320,000	1.205	1385,600	1.253	\$400,760	1.203	1410,560	
			163,075,000		176,005,375		679,032,975		183,834,156	
			•							
	TOTAL		421,341,225		\$507,716,177		\$528,015,677		\$344,827,000	

NOTE (1) HIGHER COSTS DUE TO LONGER CONSTRUCTION SCHEDULE 42 NO.

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SPEC MUNICER	BESCRIPTION	DUC CORE	BUC UNIT 2	1995 ESCALATION FACTOR	1995 BOLLAR TOTAL	1996 ESCALATION FACTOR	1996 POLLAR TOTAL	1997 ESCALATION FACTOR	1997 SOLLAR TOTAL
61.0403	Buit Materials Handling Fi	E \$1002	11,157,000	1.205	\$1,394,105	1.253	\$1,449,721	1.283	11,401,431
41.0405	Pust Collection Equipment	61003	6350,000	1.205	\$471,750	1.253	\$438,550	1.203	8449,030
81.0408	Coal Cars (297)		\$16,730,000	1.705	\$20,400,650	1.753	621,213,290	1.203	121,721,190
61.0410	Preventic Material Handling	61007	\$27,000	1.205	032,535	1.753	633,831	1.283	134,641
61.1001	Chianey FI		\$4,612,000	1.705	15,557,460	1.253	\$5,778,836	1.293	15,917,196
61.1201	Crones & Hoists	61007	8215,000	1.205	1394,395	1.253	6399,707	1.203	\$409,277
61.1601	Passenger Elevators FI		\$359,000	1.705	6432,595	1.253	\$449,827	1.203	\$468,397 \$2,000,197
61.1803	Hetal Hail Panel FI		\$1,557,600	1.205	01,070,595	1.753	01,953,427	1.283	1014,705
61.2005	Buct Expansion Joints	41013	\$635,000	1.205	6765,175	1.253	6795,653 62,171,449	1.283	12,223,439
61.2006	Duct Bassers	61014	81,733,000	1.705	12,000,265	1.253	\$4,174,996	1.203	279,936
61.3001	Breeching and Ducts	61017	63,332,000	1.705	84,015,060	1.253	1503,706	1.283	9313,766
61.3902	Coal Siles	61020 ME 41021	\$402,000	1.205	\$484,410 \$28,134,751	1.256	129,330,430	1.312	130,643,443
61.4001 61.4007	Structural Steel-Hajor Fac. Fi STR STL-Coat IMD, YD	61022	\$23,350,000 \$573,000	1.205	1470,443	1.253	\$717,969	1.203	6735,199
	Sobtotal Structural Procureson	t	655,338,000		666,682,291		167,411,602		671,684,647
62,0201	Particulate Resoval Equip Fi	BE 61024	617,790,000	1.205	821,424,909	1.253	\$22,278,340	1.203	122,811,740
42.0202	Five Gas Scrubber & SLG COND F		\$26,955,000	1.203	432,480,775	1.253	633,774,615	1.203	134,583,265
82.0401	Air Congressors	61027	\$135,000	1.205	8162,675	1.253	\$167,155	1.203	6173,205
82.0405	Carbon Diexide Supply	61028	100,000	1.205	176,400	1.253	\$100,240	1.203	\$102,640
67.0601		ME 61029	\$13,525,000	1.205	614,297,625	1.253	\$16,946,825	1.203	117,332,573
62.0801	Fire Protection Equip	61030	\$182,000		9219,310	1.253	1220,046	1.283	8233,506
62.0005	Fire Suppression Systems F	FE 91021	1632,000	1.205	6761,560	1.253	\$791,896	1.293	\$810,856
62.1001	Turbine Generator F	BE 61032	\$32,760,000		139,475,800	1.253	141,048,200	1.283	942,031,080
62.1201	Air Preheating Coils	61034	\$100,000		\$120,500	1.753	\$175,300	1.283	\$120,300
62.1202	Auxiliary Cooling Heat Each.	61035	\$354,000		1426,570	1.253	9443,562	1.203	\$454,182
62.1203	Condenser and Auxiliary Equip	61036	\$1,600,000		\$1,928,000	1.753	62,004,800	1.283	\$2,052,000
62.1204	Condenser Tobes	61037	1848,000		\$1,021,040	1.253	91,062,544	1.283	\$1,087,984
62.1205	Deserator	\$1038			6414,520	1.253	\$431,632	. 1.203	8441,352
62.1706	Feednater Heaters	\$1039			62,751,015	1.253	12,860,399	1.283	\$2,929,089 \$71,848
62.1711	Fuel Dil Heaters	61041	\$54,000		667,480	1.253	\$70,168 \$6,034,496	1.203	16,199,456
62.1801	Ash Handling System	41043	APPLICATION OF ROLL AND STREET		\$5,822,560	1.253	62,074,221	1.263	12,125,931
62.2001	Boiler Feed Pump Turbine	61044	CONTRACTOR OF THE PARTY OF THE		81,996,685	1.253	\$5,714,933	1.283	95,851,763
62.7201 62.7203	High Pressure Fabricated Pipe Ash Sluice Pipe	61045 61045			\$3,496,003 \$143,803	1.253	\$151,413	1.283	\$155,243
62.7705		61047		CALCO DEVINE NAME OF THE OWNERS OF	\$1,699,050	1.253	61,766,730	1.203	\$1,809,630
62.2403	Circulating Water Pipe Expansion Joints-Rubber	61049			437,355	1.253	138,843	1.283	\$39,773
62.2408	Pipe Supports	61050			1641,675	1.253	8670,335	Name and Address of the Owner o	1686,405
62.2414	Steam Vent Silencers	61051	ACT OF THE PARTY OF THE CO.		\$10,075	1.233	610,795	No. 11 Common Co	819,245
62.2602	Boiler Feed Puops (Incl Starts				12,137,670	1.253	\$2,222,822		\$2,276,042
62.2603		61050			1704,130	1.253	6734,250		9751,838
62.2604	Condensate Pumps	6105			\$678,700	1.253	\$726,740		6744,140
82.2607	Fire Punps	61050	Committee of the Commit	A STATE OF THE PARTY OF THE PAR	144,383	1.253	\$46,341		947,471
42.2610		6105			434,150		137,590		\$38,490
62.2614	Vertical Water Pumps	61050			\$353,063		1347,129	1.283	\$375,919
62.2615		6105			1275,945	1.253	\$286,937		9293,007
62.2802	Lube Dil Filters	6106			624,100		\$23,060		925,860
62.3001	Auto Flushing Type Water Str.	6106	1 \$50,00		\$60,250		167,650		164,150
62.3201	Air Conditioning Equipment	6106	2 \$47,00		\$56,435		658,891		140,30
62.3204		6106	CONTRACTOR OF THE PARTY OF THE		\$275,945		\$286,937		\$293,807
62.3401	Steam Generator F	BE 6106	4 \$52,780,10	0 1.205	863,600,021	1.253	866,133,465	1.203	967,716,860

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SPEE MESSER	DESCRIPTION	CODE	BMEL 3	ESEMATION FACTOR	STATE TOTAL	ESCALATION FACTOR	1996 BOLLAR TOTAL	ESCALATION FACTOR	1997 BELLAR TOTAL
62,3002	Forced Braft Fans	61045	6432,000	1.205	1761,560	1.253	1791,096	1.703	6810,834
42.3463	Induced Braft Fans	61066	\$1,061,000	1.203	01,278,505	1.253	\$1,329,433	1.203	41,361,763
42.3401	Field Erected Tanks FAE	84014	6371,000	1.205	6467,653	1.253	\$464,863	1.793	\$473,993
62.3602	Shop Fabricated Tanks	81067	\$193,000	1.205	6232,565	1.253	6741,879	1.203	9247,619
42.3801	Butterfly Valves-Est. Steam	41070	\$25,000	1.203	630,125	1.753	631,325	1.703	632,075
62.3802	Large Butterfly Valves	61071	9351,000	1.205	8422,955	1.253	9439,803	1.703	\$450,333
A2.3003	Butterfly Valves-General Serv.	61072	192,000	1.205	\$110,860	1.753	\$113,276	1.783	1118,036
62.3804	Extraction Steam-Hon-Return VI	61073	1201,000	1.205	1245,820	1.253	6755,612	1.203	6261,732
67.3805	R.P. Cast Steel & R.B. Valves	61074	61,736,000	1.205	\$2,071,000	1.253	12,175,208	1.793	92,727,780
62.3807	Cast Steel Geo. Serv. Valves	41075	8492,000	1.705	1572,840	1.253	9616,476	1.703	9431,734
62.3809	Control Volves-Gen Application	41077	\$277,000	1.205	6333,785	1.253	6347,001	1,293	6359,391
62.3816	Control Valves-Spec. Application	61079	1130,000	1.205	\$156,650	1.253	\$162,890	1.203	6165,790
62.3011	Forged Steel Valves-Ben. Serv	£1000	\$392,000	1.205	6472,360	1.253	9491,176	1.203	6502,936
62.3013	Bronze Valves-General Service	1001	\$21,000	1.205	\$25,305	1.253	926,313	1.203	626,943
62.3815	Safety and Relief Valves	91085	\$61,000	1.205	673,565	1.253	676,433	1.203	678,263
62.3817	Knife Gate Valves	61161	175,000	1.205	\$90,373	1.253	693,975	1.203	196,225
62.3818	Butterfly Valves-Spec Svco	44114	183,000	1.205	\$100,015	1.753	\$103,999	1.283	\$166,409
62.3819	Slerry Plug Valves		\$16,000	1.205	\$17,280	1.253	\$20,048	1.203	620,520
	Subtotal Rechanical Procurement		6173,663,100		1207,264,036		6217,599,864		1222,009,757
43,0001	Overhead Conductor		18,000	1.205	\$7,540	1.253	910,024	1.203	610,264
A3.0002	Control Coble	A100A	1792,000	1.205	8954,360	1.253	6992,376	1.283	91,014,134
63,0004	Instrument Cable	61006	\$339,000	1.205	6408,495	1.253	\$424,767	1.283	8434,937
63.0006	15kV Power Cable	41000	8657,000	1.205	1794,075	1.753	0823,727	1.283	1843,497
43.0807	600 Volt Power Cable	41009	188L,000	1.205	\$1,047,430	1.733	\$1,110,158	1.293	91,136,738
83.080B	Coaxial & Spec. Purpose Cable	61087	\$97,000	1.205	\$114,885	1.253	\$121,541	1.283	6124,451
43.1701	Isolated Phose Bus	41071	9342,000	1.205	6412,110	1.253	\$428,526	1.283	6438,786
63.2002	Electrical Panels	41092	\$244,000	1.205	\$320,530	1.753	\$333,298	1.203	9341,270
63.2701	Hotors	61093	\$1,556,000	1.205	\$1,874,780	1.753	\$1,747,648	. 1.293	\$1,994,348
63.26-1	Cable Tray	61095	\$180,000	1.205	1214,700	1.253	9225,540	1.283	\$230,740
63.2801	Batteries and Battery Chargers	61076	\$187,000	1.705	9225,335	1.253	1234,311	1.203	9239,921
43.2803	Continuous AC Power Equipment	61097	1176,000	1.205	\$212,080	1.253	1220,528	1.203	1223,000
43,3001	Notor Control Centers	61078	1433,000	1.205	6521,765	1.253	\$542,549	1.283	6353,339
63.3201	Trans. & Subst. Struc. & Hat.	41099	1531,000	1.205	1437,855	1.253	9465,343	1.203	1401,273
63.3401	Power Circuit Breakers	41101	\$500,000	1.205	8402,500	1.753	\$626,500	1.203	1641,500
43,3404	SCAGA Equipment	61103	114,000	1.205	\$19,280	1.253	\$20,048	1.203	120,520
43.3407	Substation Control & Relay Pal	61106	\$114,000	1.203	\$137,370	1.253	\$147,842	1.283	6146,762
43.3409	Fiber Optic Equipment	61213			436,150	1.253	837,590	1.203	130,490
63.3601	Switchgear & Sec Unit Substation	61100			\$4,022,290		84,182,514	1.203	94,282,654
43.3801	Transformers	61110			14,372,945		\$4,547,137	1.283	\$4,656,067
	Subtotal Electrical Procurement		\$14,079,000		616,960,193		\$17,640,987		110,063,357

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SPEC HAPPER	DESCRIPTION	CODE	GUC GRIT 2	1995 ESCALATION FACTOR	1995 BOLLAR TOTAL	ESCALATION FACTOR	DOLLAR TOTAL	ESCALATION FACTOR	1997 BOLLAR TOTAL
64.0202	Courd. Centrol & Info Cooputer	61111	\$2,655,000	1.205	63,199,275	1.253	63,324,715	1.203	63,406,365
84.0204	Programmable Controllers	61112	\$624,000	1.205	6751,920	1.253	6701,872	1.203	6800,592
1000.54	Annunciation Equipment	91113	1233,000	1.205	6290,765	1.253	6291,969	1.283	1278,739
14.0004	Machinery Monitoring	61114	\$200,000	1.205	6241,000	1.253	1250,600	1.703	6254,400
64.8682	Prinary Flow Elements	61116	6148,000	1.205	1202,440	1.253	6210,504	1.263	6215,544
P4"140F	Flue Gas Monitoring System 1	61162	\$433,000	1.205	6521,763	1.253	8542,549	1.203	\$555,539
64.1661	Control Panels	61124	1338,000	1.705	6407,290	1.253	1423,514	1.283	9433,654
64.1667	Instrument Racks Control Relay Cabinets	41175 41174	\$617,000 \$147,000	1.205	6737,468 6179,545	1.753	6766,036 6106,697	1.203	6785,1% 6191,167
	Subtotal Control Procurement		65,412,000		16,521,460		94,781,236		96,941,386
	Services Control Processing		10,111,111						
65.0202	Cheeical Feed System	61127	\$121,000	1.205	6145,805	1.253	9151,613	1.203	0155,243
45.0203	Chlorination Equipment	41120	140,000	1.205	972,300	1.253	675,180	1.203	\$76,990
45.0401	Condensate Polishing System	61129	\$1,367,000	1.203	01,647,235	1.253	01,712,051	1.203	\$1,753,861
63.0602	Water Quality Control Systee	61134	6320,000	1.203	1385,400	1.233	1400,740	1.283	9410,360
92'0801	Dloudown Treesteent Equipment	41160	\$7,200,000	1.205	10,676,000	1.253	99,021,600	1.203	99,237,600
	Subtotal Chesical Procurement		\$7,068,000		\$10,726,740		911,362,204		911,434,244
71.0001	Pilling	61144	\$4,150,000	1.205	97,410,750	1.233	17,705,950	1.203	\$7,890,450
71.0402	Beneral Constr. Substructures	81145	\$13,300,000	1.205	\$16,026,500	1.753	\$16,664,900	1.203	\$17,063,900
71.0403	General ConstSuperstructures	61146	\$12,330,000	1.205	\$14,857,650	1.253	\$15,447,490	1.283	\$15,817,390
71.0404	Painting	61147	\$1,309,000	1.205	\$1,576,140	1.753	\$1,638,924	1.283	\$1,678,164
71.0407	Concrete Supply	61150	\$313,000	1.203	1377,165	1.253	4392,109	1.283	6401,579
71.0408	Construction Testing		\$1,175,000		91,415,975	1.253	\$1,472,275	1.203	\$1,507,525
71.0409	Ductions Lining	61167	\$1,305,000	1.205	61,572,525	1.253	\$1,635,165	1.283	61,674,315
	Subtotal Structural Construction		\$35,881,000		143,236,605		\$44,738,873		\$46,035,323
72.0202	No.ting, Ventilating & Air Con	41152	91,665,000	1.205	12,004,325	1.253	12,006,245	1.203	\$2,136,193
72.0401	Mechanical Construction	61122	\$18,560,000		122,344,800	1.253	123,255,600	1.283	623,812,400
72.0403	Piping and Equip. Insulation	61134	\$1,917,000	1.205	\$2,307,985	1.253	\$2,402,001	1.783	\$2,459,511
72.0601	Flue Bes Cln For Test		178,000	1.205	\$118,070	1.253	9122,794	1.283	6125,734
	Subtotal Mechanical Construction		\$22,240,000		124,799,200		\$27,866,720		628,533,920
73.0201	Electrical Construction	41133	17,812,000	1.205	\$11,823,460	1.253	612,294,436	1.283	912,500,794
73.0204	T-Line & Substation Construction	61136	\$1,065,000		\$1,283,325	1.253	11,334,445	1.203	\$1,366,393
	Subtotal Electrical Construction		\$10,877,000		\$13,106,785		913,428,801		\$13,935,191
74.0400	Elec. Test & Calibration Serv.	61157	\$1,700,000	1.205	12,789,500	1.253	12,380,700	1.203	62,437,700
75.0100	Doiler and Prebailer Cleaning	61158	\$168,000		6202,440	1.733	1210,504	1.203	\$213,544
75.0200	Special Protective Coatings	41139	\$65,000	1.205	178,325	1.253	181,445	1.203	\$83,393
76.0100	Site Services	61160	\$2,165,000	1.205	62,600,825	1.253	12,712,745	MA (1)	\$3,110,000
	Subtotal Control Construction		\$4,298,000		\$5,179,090		\$5,385,394		15,846,631

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ORLANDO UTILITIES CONSISSION STANTON UNIT 2 425 NO PRELIMINALY ESTIMATE 1-JAN-09 0 REPLICATION

14-Hay-90

	MAL ICATION			1993	1993	1996	1996	1997	1997
SPEC	NESCRIPTION	CINE	unit 2	ESCALATION FACTOR	BOLLAR TOTAL	ESCALATION FACTOR	DOLLAR TOTAL	ESCAL ATTOM FACTOR	DOLLAR TOTAL
	INC Indirects								
1001.00	Startus Sunter C Bil	41143	0503,135	1.205	9406,278	1.253	9430,420	1.703	1645,522
	Startup Diesel Oil	61165	\$107,010	1.705	\$131,453	1.253	9136,690	1.203	4139,962
	Administrative Costs	61201	\$2,500,000	1.203	63,012,500	1.253	93,132,500	1.293	63,207,500
	Pre-operations & Haint	61204	\$7,000,000	1.205	48,435,000	1.753	98,771,000	1.283	18,781,000
	Construction Management	41704	\$2,500,000	1.203	63,012,500	1.253	43,132,500	MA (1)	\$3,508,100
	Insurance	61208	18,500,000	1.205	\$10,242,500	1.253	\$10,650,500	1.203	\$10,905,500
	Special Projects	A1210	\$300,000	1.205	\$361,500	1.253	\$375,900	1.203	\$384,900
	Project Spare Parts		\$2,000,000	1.205	62,410,000	1.253	12,506,000	1.283	12,514,000
	Net Of Power Sales		[\$4,000,000]	Control of the Contro	[84,820,000]	1.753	(65,012,000)	1.203	(15,132,000)
	Subtotal DIC Indirects		\$19,412,225		123,391,731		\$24,323,518		\$25,206,405
90,1100	BLV Engineering Services	61203	619,750,000	1.205	123,790,750	1.753	124,746,750	1.283	625,339,230
99,1300	BAY Construction Rest. Service	61207	\$14,570,000	1.705	917,356,850	1.253	618,256,210	MA (1)	621,387,600
90.2000	Project Contingency	The care	\$25,000,000	1.205	130,125,000	1.253	\$31,325,000	1.283	832,675,000
70.4000	Sales Tax		\$320,000	1.205	1305,400	1.253	1400,960	1.203	8410,560
			137,649,000		971,866,200		\$74,728,920		177,211,810
	TOTAL		409,900,325		6493,939,532		6513,688,219		6529,924,369

NOTE (1) HIGHER COSTS DUE TO LONGER CONSTRUCTION SCHEDULE 42 NO.

MEANDO UTILITIES COMMISSION STANTON UNIT 2, 425 NO																								
ESTIMATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REPLICA)	BOLLARS	1 1000											MILLARS I	1000										
DESCRIPTION	3AR 90	FEB 90	HAR 90	APR 90	MAY 90	JUH 90	JEL 90	AUS 10	SEP 90	90 90	NOV 90	DEC 90	38M 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 71	SE 91	0CT 91	10V 91	DEC 91
PP ANALYSIS EARLY EXTENSION & BACT ICCHISING INCENSING A PROCUSEMENT INSTRUCTION MANAGEMENT ISSELANCOUS INDIRECTS RULPHENT & CONSTRUCTION	20.0				20.0					19.1	19.1	19.1	19.1	19.1	6.3 17.1	19.1 4.3	19.1 6.3 20.0	19.1	19.1 6.3	19.1 6.3	6.3	6.3	6.3 20.0	٠
MONTHLY TOTALS	20.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	19.1	39.1	19.1	19.1	19.1	25.4	25.4	45.4	25.4	25.4	25.4	6.3	6.3	26.3	6.
YEARLY TOTALS							FY1990 T	OTAL >>>	40										FY1991 T	OTAL >>>	294			
QUARTERLY TOTALS			20.0			20.0			0.0			77.3			63.6			96.2			57.1			30.
CUMULATIVE TOTALS	20	20	20	20	40	10	40	10	40	57	98	117	136	155	101	206	252	211	302	320	334	340	367	37
INLANDO UTILITIES COMMISSION TANTON UNIT 2, 425 MM																								
STIMATE AS OF 14-MAY-90	DOLLARS	erchanthoods.											BOLLARS	I 1000										
ASH FLOW 1997 C.O. (REPLICA) DESCRIPTION	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	9CT	NOV 92	DEC 92	JAM 93	FEB 93	MAR 93	APR 93	MAY 93	JUM	JUL 93	AUG 93	SEP 93	93	VON	DEC

ESTIMATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REPLICA)	DOLLARS	I 1000											BOLLARS	I 1000										
Chan From 1777 C.a. (Herefor)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUS	SEP	OCT	NOA	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DESCRIPTION	92	92	92	92	92	92	92	92	92	92	92	92	93	93	93	93	93	93	93	93	93	93	93	93
IPP ANALYSIS		•••••	•••••		•••••					•••••											•••••	•		
PERMIT EXTENSION & BACT	6.3																							
LICENSING		227.5	227.5	227.5	227.5	227.5	227.5	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1									
PROJECT MANAGEMENT (DUC)	41.8	41.8	41.8	41.8	61.8	41.8	41.8	41.8	41.8	41.8	61.8	41.8	41.8	41.8	41.8	41.8	61.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
ENGINEERING & PROCURENENT		233.2	349.8	466.4	466.4	536.4	536.4	536.4	536.4	536.4	536.4	536.4	536.4	536.4	536.4	536.4	583.0	839.5	839.5	886.2	792.9	676.3	676.3	746.3
CONSTRUCTION NAMAGEMENT																373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
MISCELANEOUS INDIRECTS	0.0	0.0	0.0	0.0	0.0	101.9	152.8	254.6	152.8	157.8	152.8	611.1	254.6	254.6	254.6	509.3	763.9	763.9	763.9	2037.1	1273.2	1273.2	1018.5	1018.5
EQUIPMENT & CONSTRUCTION	0.0	0.0	0.0	0.0	0.0	851.0	1276.5	2127.5	1276.5	1276.5	1276.5	5106.1	2127.5	2127.5	2127.5	4255.1	6302.6	5382.6	6382.6	17020.2	10637.7	10637.7	8510.1	8510.1
MONTHLY TOTALS	48.1	502.5	619.1	735.7	755.7	1758.5	2235.0	3033.5	2080.6	2080.6	2100.6	6368.5	3033.5	3033.5	3033.5	5716.0	8164.8	8401.3	8401.3	20358.8	13119.0	13002.4	10620.2	10690.2
YEARLY TOTALS							FY1992	IOTAL >>	11,808										FY1993	101AL >>	83,811			
QUARTERLY TOTALS			1169.8			3250.0			7349.1			10549.8			9100.5			22282.0			41879.0			34312.8
CUMULATIVE TOTALS	421	924	1,543	2,278	3,034	4,793	7,028	10,061	12,142	14,222	16,323	22,692	25,725	28,759	31,792	37,508	45,673	54,074	63,475	82,834	95,953	108,955	119,576	130,266

TANTON UNIT 2, 425 HN STINATE AS OF 14-MAY-70	DOLLARS	I 1000											DOLLARS	I 1000										
ASH FLOW 1997 C.W. (REPLICA)	388	FEB	HAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	BEC 94	JAN 95	FEB 95	HAR 95	APR 95	MAY 95	JUN 95	JUL 95	AUS 95	SEP 95	95	10V 95	95C
DESCRIPTION	94	94	94		94	94	94	71		94	94		13	73	13		13	73	13					
PP ANALYSIS ERMIT EXTENSION & BACT ICENSING																						1		
ROJECT MANAGEMENT (DUC)	41.8	41.8	41.8	41.8	41.8	41.0	41.8	41.8	41.0	41.8	41.8	41.8	41.8		41.8	MANAGER (TABLE	41.8	41.8	41.8	41.8	41.9	41.8	41.8	
IGINEERING & PROCUREMENT	816.2	884.2	536.4	443.1	536.4	534.4	513.0	417.0	417.8	256.5	209.9	209.9	209.9	256.5	303.2	279.8	233.2	233.2	233.2	233.2	233.2	233.2	233.2	T
MSTRUCTION MANAGEMENT	373.4	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.7	580.7	580.9	380.9	580.9	500.9	509.3	A STREET, STRE
SCELAMEOUS INDIRECTS	1018.5	1018.5	2037.1	1120.4	1120.4	1120.4	1884.3	1120.4		1018.5			1018.5	1018.5	III Serioteophiles	A PROPERTY.	1782.4		1171.3	814.8	967.6	967.6		Sillipacio
UIPMENT & CONSTRUCTION	8510.1	8510.1	17020.2	9361.1	9361.1	9361.1	15743.7	9361.1	4291.1	8510.1	16169.2	8510.1	8510.1	Byeni	8210.1	11914.2	14892.7	0.0	9786.6	6598.1	8024.6	8081.6	4255.1	4255
MONTHLY TOTALS	10760.1	11037.6	20216.4	11547.3	11640.6	11640.6	18763.8	11524.0	11524.0	10407.9	10937.1	10361.3	10361.3	10407.9	10454.5	14242.7	17531.1	835.9	118/3.9	8470.9	9908.2	9908.2	5620.3	5503
YEARLY TOTALS							FY1994 1	IOTAL >)	152,967										FY1995 1	OTAL >>>	133,761			
QUARTERLY TOTALS CUMULATIVE TOTALS			42014.1			34828.4			41811.8			39706.2			31223.7			32629.7			30200.9			21032

STANTON UNIT 2, 425 MM	BOLLARS	I 1000											DOLLARS	I 1000								
ASH FLOW 1997 C.O. (REPLICA)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
DESCRIPTION:	96	96	96	96	96	96	96	96	96	96	96	96	97	97	97	97	97	97	97	97	97	COST
IPP ANALYSIS PERMIT EXTENSION & BACT LICENSING					1																	210 65 1,950
ROJECT MANAGEMENT (DUC) NGINEERING & PROCUREMENT	41.8	41.8	41.8	CHICKEN CAN	41.8	41.8		- District	41.8	41.0	41.8	41.8	41.8	233.2	41.0	41.0	41.0	41.0	41.8	41.8	41.8	23,320
ONSTRUCTION MANAGEMENT	116.6	116.6	116.6		116.6	116.6	The State of the		414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9						24,89
IISCELAMEDUS INDIRECTS	967.6	967.6	967.6	509.3	967.6	967.6	1018.5	A THE PERSON NAMED IN	713.0	1069.5	1067.5	967.6	916.7	152.8	152.8	152.8	203.7	101.9	101.9	101.9	101.9	50,92
OUIPMENT & CONSTRUCTION	8084.6	8084.6	8084.6	4255.1	8084.6	8084.6	8510.1	2127.5	5957.1	8935.6	8935.6	8084.6	7659.1	1276.5	1276.5	1276.5	1702.0	851.0	851.0	851.0	851.0	425,500
MONTHLY TOTALS	9791.6	9791.6	9791.6	5503.7	9791.6	9791.6	10268.0	2955.5	7243.4	10461.8	10461.8	9509.0	9032.6	2119.3	1886.1	1884.1	1947.6	994.7	994.7	994.7	994.7	529,92
YEARLY TOTALS							FY1996	TOTAL >>	95,960										FY1997 1	IOTAL >>>	51,283	
QUARTERLY TOTAL			29374.7			25086.8			20466.9			30432.7			13037.9			4828.4			2984.1	
CUMULATIVE TOTALS	413,505	423,296	433,088	438,591	448,383	458,174	468,442	471,398	478,641	489,103	499,565	509,074	518,107	520,226	522,112	523,998	525,946	526,940	327,935	528,930	529,924	

ESTINATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REBID)	DOLLARS	1 1000							•				DOLLARS	1 1000										
DESCRIPTION	JAN 10	FEB 90	MAR 90	APR 90	MAY 90	JUN 90	JUL 90	AUG 90	SEP 90	90 90	NOV 90	BEC 90	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	J6N 91	JUL 91	AUG 91	SEP 91	0CT 91	HOV 91	DEC 91
IPP ANALYSIS					955					19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1				
PERMIT EXTENSION & BACT													100000	elekson.	4.3	6.3	6.3	4.3	6.3	6.3	6.3	4.3	4.3	6.3
LICENSING PROJECT MANAGEMENT (OUC)																								
ENGINEERING & PROCUMERENT CONSTRUCTION MANAGEMENT HISCELANEOUS INDIRECTS EQUIPMENT & CONSTRUCTION	20.0				20.0						20.0						20.0			31.0	39.0	39.0	STATISTICS.	39.0
MONTHLY TOTALS	20.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	19.1	39.1	19.1	19.1	19.1	25.4	25.4	45.4	25.4	25.4	4.1	322.6	322.6	342.6	322.6
FISCAL YEAR TOTALS							EV1990 1	DTAL >>>	40										EV1001 1	IGTAL >>>	649			
QUARTERLY TOTALS			20.0			20.0			0.0			17.3			63.6			96.2	,,,,,,,	///	412.4			987.8
CUMULATIVE TOTALS	20.0	20	20	20	40	40	40	40	40	59	98	117	136	155	191	206	252	277	302	367	689	1,012	1,355	THE PARTY
ORLANDO UTILITIES COMMISSION STANTON UNIT 2, 425 MV ESTINATE AS OF 14-MAY-90	DOLLARS	I 1000											DOLLARS	1 1000										
STANTON UNIT 2, 425 HW ESTINATE AS OF 14-NAY-90				A99					80	871		w.	DOLLARS											
STANTON UNIT 2, 425 MV ESTINATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REDID) DESCRIPTION	DOLLARS JAN 92	I 1000 FEB 92	HAR 92	APR 92	MAY 92	JUN 92	JUL. 92	AUG 97	SEP 92	0C1 92	NOV 92	BEC 92	JAM 93	I 1000 FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 13	OCT 93	NOV 93	BEC 93
STANTON UNIT 2, 425 MV ESTIMATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REDID)	JAN	FEB	NAR 92	APR 92	MAY 92	Jun 92	JUL 92	AUG 92		The Property of the	NOV 92	BEC 92	JAN	FEB	HAR 93	APR 93	MAY 93	JEM 93		AUG 93	U.S. P. Total Add Total	30007GA0001	NOV 93	N. Charles
STANTON UNIT 2, 425 MV ESTINATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REBID) DESCRIPTION IPP ANALYSIS PERMIT EXTENSION & BACT	JAN	FEB	HAR 92	APR 92	HAY 92	JUN 92	JUL 92	AUG 92		The Property of the	NOV 92	BEC 92	JAN	FEB	MAR 93	APR 93	нау 93	3UM 3UM		AUG 93	U.S. P. Total Add Total	30007GA0001	NOV 93	N. Charles
STANTON UNIT 2, 425 MV ESTIMATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REBID) DESCRIPTION IPP AMALYSIS PERMIT EXTENSION & BACT LICENSING	JAM 92	FEB 92 227.5	227.5	227.5	227.5	227.5	73.1	73.1	73.1	92 73.1	73.1	73.1	JAM 93	FEB 93	1000 173	APR 93	MAY 93	JUN 93		AUG 93	U.S. P. Total Add Total	30007GA0001	NOV 93	N. Charles
STANTON UNIT 2, 425 MV ESTIMATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REBID) DESCRIPTION IPP AMALYSIS PERMIT EXTENSION & BACT LICENSING PROJECT MANAGEMENT (DUC)	JAM 92 	FEB 92 227.5 39.0	227.5	227.5	227.5	227.5	73.1	73.1	73.1 39.0	73.1 39.0	73.1	73.1	JAM 93 73.1 39.0	FEB 93 73.1 39.0	39.0	39.0	59.0	39.0	93	39.0	93	93	39.0	93
STANTON UNIT 2, 425 MV ESTINATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REBID) DESCRIPTION IPP ANALYSIS PERMIT EXTENSION & BACT LICENSING PROJECT MANAGEMENT (OUC) ENGINEERING & PROCUREMENT	JAM 92	FEB 92 227.5	227.5	227.5	227.5	227.5	73.1	73.1	73.1	73.1 39.0	73.1	73.1	JAM 93 73.1 39.0	FEB 93 73.1 39.0	39.0	39.0 998.2	59.0 1053.6	39.0 942.7	93 39.0 804.1	39.0 801.1	93 39.0 887.3	93 39.0 970.5	39.0 1053.6	93 39.4 637.
STANTON UNIT 2, 425 MV ESTIMATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REBID) DESCRIPTION IPP AMALYSIS PERMIT EXTENSION & BACT LICENSING PROJECT MANAGEMENT (DUC)	JAM 92 	FEB 92 227.5 39.0 554.5	727.5 39.0 554.5	227.5 39.0 554.5	227.5 59.0 554.5	227.5 39.0 354.5	73.1 39.0 554.5	73.1 39.0 554.5	73.1 39.0 354.5	73.1 39.0 554.5	73.1 59.0 554.5	73.1 39.0 554.5	73.1 39.0 554.5	73.1 39.0 637.7	39.0 998.2	39.0 998.2 373.4	59.0 1053.6 373.4	39.0 942.7 373.4	93 39.0 804.1 373.4	39.0 804.1 373.4	93 39.0 897.3 373.4	39.0 970.5 373.4	39.0 1053.6 373.4	93 39.4 637.3 373.4
STANTON UNIT 2, 425 MV ESTINATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REBID) DESCRIPTION IPP ANALYSIS PERMIT EXTENSION & BACT LICENSING PROJECT MANAGEMENT (OUC) ENGINEERING & PROCUMEMENT CONSTRUCTION MANAGEMENT	JAM 92 	FEB 92 227.5 39.0	227.5	227.5	227.5	227.5 39.0 354.5	73.1 39.0 554.5 163.0 1297.7	73.1 39.0 554.5 271.7 2162.9	73.1 39.0 354.5 163.0 1297.7	73.1 39.0 554.5 163.0 1297.7	73.1 59.0 554.5 163.0 1297.7	73.1 39.0 554.5 652.2 5190.9	JAM 93 73.1 39.0 554.5 271.7 2162.9	73.1 39.0 637.7 271.7 2162.9	37.0 998.2 271.7 2162.9	39.0 998.2 373.4 543.5 4325.8	59.0 1053.6 373.4 815.2	39.0 942.7 373.4 815.2	39.0 804.1 373.4 815.2	39.0 801.1	93 39.0 887.3 373.4 1358.7	39.0 970.5 373.4 1358.7	39.0 1053.6 373.4 1007.0	39.6 637.3 373.1
STANTON UNIT 2, 425 MV ESTINATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REBID) DESCRIPTION IPP ANALYSIS PERMIT EXTENSION & BACT LICENSING PROJECT MANAGEMENT (OUC) ENGINEERING & PROCUMEMENT CONSTRUCTION MANAGEMENT NISCELANEOUS INDIRECTS	Jan 92 	FEB 92 227.5 39.0 554.5 0.0 0.0	227.5 39.0 554.5	227.5 39.0 554.5 0.0 0.0	227.5 59.0 554.5 0.0 0.0	227.5 39.0 554.5 108.7 865.2	73.1 39.0 554.5 163.0 1297.7	73.1 39.0 554.5 271.7 2162.9	73.1 39.0 554.5 163.0 1297.7	73.1 39.0 554.5 163.0 1297.7	73.1 59.0 554.5 163.0 1297.7	73.1 39.0 554.5 652.2 5190.9	73.1 39.0 554.5 271.7 2162.9	73.1 39.0 637.7 271.7 2162.9	39.0 998.2 271.7 2162.9	39.0 998.2 373.4 543.5 4325.8	59.0 1053.6 373.4 815.2 6400.7	39.0 942.7 373.4 815.2 4488.7	93 39.0 804.1 373.4 815.2 6488.7	39.0 804.1 373.4 2174.0	93 39.0 887.3 373.4 1358.7 10814.5	39.0 970.5 373.4 1358.7	39.0 1053.6 373.4 1007.0 8651.6	93 437. 373. 1087. 8651.
STANTON UNIT 2, 425 MV ESTINATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REBID) DESCRIPTION IPP ANALYSIS PERMIT EXTENSION & BACT LICENSING PROJECT MANAGEMENT (OUC) ENGINEERING & PROCUMENENT CONSTRUCTION MANAGEMENT INSCREAMEOUS IMMORRETS EQUIPMENT & CONSTRUCTION	JAN 92	FEB 92 227.5 39.0 554.5 0.0 0.0	227.5 39.0 554.5	227.5 39.0 554.5 0.0 0.0	227.5 59.0 554.5 0.0 0.0	227.5 39.0 554.5 108.7 865.2	73.1 39.0 554.5 163.0 1297.7 2127.5	73.1 39.0 554.5 271.7 2162.9	73.1 39.0 554.5 163.0 1297.7 2127.5	73.1 39.0 554.5 163.0 1297.7	73.1 59.0 554.5 163.0 1297.7	73.1 39.0 554.5 652.2 5190.9	73.1 39.0 554.5 271.7 2162.9	73.1 39.0 637.7 271.7 2162.9	39.0 998.2 271.7 2162.9	39.0 998.2 373.4 543.5 4325.8	59.0 1053.6 373.4 815.2 6400.7	39.0 942.7 373.4 815.2 6488.7	93 39.0 804.1 373.4 815.2 8488.7	39.0 804.1 373.4 2174.0 17303.2 20693.7	93 39.0 887.3 373.4 1358.7 10814.5	39.0 970.5 373.4 1358.7	39.0 1053.6 373.4 1007.0 8651.6	93 437. 373. 1087. 8651.
STANTON UNIT 2, 425 MV ESTINATE AS OF 14-MAY-90 CASH FLOW 1997 C.O. (REBID) DESCRIPTION IPP AMALYSIS PERMIT EXTENSION & BACT LICENSING PROJECT MANAGEMENT (OUC) ENGINEERING & PROCUMEMENT CONSTRUCTION MANAGEMENT MISCELANEOUS INDIRECTS EQUIPMENT & CONSTRUCTION MONTHLY TOTAL	JAM 92	FEB 92 227.5 39.0 554.5 0.0 0.0	227.5 39.0 554.5	227.5 39.0 554.5 0.0 0.0	227.5 59.0 554.5 0.0 0.0	227.5 39.0 554.5 108.7 865.2	73.1 39.0 554.5 163.0 1297.7 2127.5	73.1 39.0 554.5 271.7 2162.9	73.1 39.0 554.5 163.0 1297.7 2127.5	73.1 39.0 554.5 163.0 1297.7	73.1 59.0 554.5 163.0 1297.7 2147.5	73.1 39.0 554.5 652.2 5190.9	73.1 39.0 554.5 271.7 2162.9	73.1 39.0 637.7 271.7 2162.9	39.0 998.2 271.7 2162.9	39.0 998.2 373.4 543.5 4325.8	59.0 1053.4 373.4 815.2 4488.7	39.0 942.7 373.4 815.2 6488.7	93 39.0 804.1 373.4 815.2 4488.7 8520.5	39.0 804.1 373.4 2174.0 17303.2 20693.7	93 39.0 887.3 373.4 1358.7 10814.5	39.0 970.5 373.4 1358.7	39.0 1053.6 373.4 1007.0 8651.6	93 437. 373. 1087. 8651.

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ESTIMATE AS OF 14-MAY-90 CASM FLOW 1997 C.O. (REDID)	DOLLARS	I 1000											DOLLARS	I 1000										
rusu trad taat rin. (mental	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUS	SEP	OCI	NOV	338	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	VON	BEC
DESCRIPTION	94	94	94	94	94	94	94	94	94	94	94	94	95	95	95	95	95	95	95	95	95	95	95	95
								•••••					******	•••••	•••••	•••••	•••••	•••••	•••••	•••••	******	•••••	•••••	
IPP ANALYSIS PERRIT EXTENSION & BACT LICENSING																		•					37.0	37.
PROJECT MANAGEMENT (OUC)	39.0		39.0	39.0	White the control of	SUCCESSION.	SOUNDERS FOR	SECTION AND ADDRESS.	39.0	39.0		39.0	39.0	39.0	39.0	39.0	37.0	39.0	39.0	39.0	PARTY NAMED IN	37.0		PARTICIPATION OF THE PARTY OF T
ENGINEERING & PROCURENENT	526.8	637.7	637.7	610.0	499.1	499.1	305.0	249.5	249.5	249.5	305.0	360.5	332.7	277.3	277.3	277.3	277.3	277.3	277.3			138.6	TO LOCALIDADE LOS	
CONSTRUCTION MANAGEMENT	373.4	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9		500.9	THE RESIDENCE	580.9	580.9	580.9	580.9	580.9	580.9	No contract of	Contractor
MISCELANEOUS INDIRECTS	1087.0	1087.0	2174.0	1195.7	1195.7	1195.7	2010.9	1195.7	1195.7	1087.0	2065.3	1097.0	1097.0	1087.0	1087.0	1521.8	1902.2		1250.0			1032.6	543.5	SHEET COLDER
EQUIPMENT & CONSTRUCTION	8651.6	8651.6	17303.2	9516.7	9516.7	9516.7	14005.4	9516.7	9516.7	8651.6	16438.0	8651.6	8651.6	6.31.6	8651.6	12112.2	15140.3	0.0	9949.3	6921.3	8217.0	8219.0	4325.0	4325.
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ORLANDO UTILITIES CONVISSION STANTON UNIT 2, 425 MI ESTIMATE AS OF 14-NAY-90 CASH FLOW 1997 C.O. (REBID)	DOLLARS	I 1000											DOLLARS	I 1000								
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DESCRIPTION	96	96	96	96	96	96	96	96	96	96	96	96	97	97	97	97	97	97	97	97	97	COST
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NISCELAMEOUS INDIRECTS	1032.6	1032.6	1032.6	543.5	1032.6	1032.6	1087.0	271.7	760.9	1195.7	1195.7	1032.6	978.3	A CONTRACTOR		108.7	White division	108.7		THE PLANT SHAPE		54,349
EQUIPMENT & CONSTRUCTION	8219.0	8219.0	8219.0	4325.8	8219.0	8219.0	8651.6	2162.9	6056.1	9516.7	9516.7	8219.0	7786.4	1297.7	865.2	865.2	1730.3	865.2	865.2	865.2	865.2	432,579
HONTHLY TOTAL	5 10010.2	10010.2	10010.2	5627.0	10010.2	10010.2	10497.1	3027.2	7409.6	11305.0	11166.4	9705.6	9218.6	2192.0	1427.8	1427.8	1986.7	1012.9	1012.9	1012.9	1012.9	544,827
FISCAL YEAR TOTAL	s						FY1996	IOTAL >>	97.878										FY1997	101AL >>>	52,481	
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1.0 INTRODUCTION

The Integrated Demand-Side and Supply-Side Resource Planning Study, dated September 13, 1988, and prepared by Southern Electric International, recommended that two 38 MW combustion turbines be installed for peaking power in the 1991/1992 time frame followed by installation of Stanton Energy Center (SEC) Unit 2 in 1995. Orlando Utilities Commission (OUC) would own 277 MW of the proposed 440 MW coal fired SEC Unit 2. OUC would sell 104 MW of the 227 MW until the year 2001. In addition, this study recommended that the commission appropriately review their system requirements to ascertain that the projected needs remain valid.

OUC has performed subsequent studies which includes the addition of Combustion Turbine Generators A and B at the Indian River Plant Site.

These studies indicated that two additional combustion turbine generators should be available by January 1994 and that SEC Unit 2 should be available by January 1997.

With the long lead times required to install a new power plant and with the uncertainty of future load growths, this Project Planning Study was initiated to conduct some prelicensing activities, investigate alternatives, and develop information to guide OUC in making further decisions relative to the installation of new power generating facilities that will be required for the OUC system in the 90s.

Specific requirements of this study include the preparation of capital cost estimates, cash flows, and schedules for the following alternatives for various in-service dates.

- e Stanton Energy Center Unit 2--Replication.
- Stanton Energy Center Unit 2--Rebid. .

The requirements of this study also include the consideration of the soliciting Independent Power Producer (IPP) proposals and the effect of that alternative upon the planning scheduled and financial exposure. The following alternatives relative to soliciting IPP proposals for various in-service dates are included.

- e Independent Power Producer-New Site.
- e Independent Power Producer--SEC Site.

This study was also expanded to include capital cost estimates, schedules, and cash flows for the installation of Combustion Turbines C and D at the Indian River Plant for various in-service dates.

2.0 CONCLUSIONS AND SUMMARY OF IMPORTANT INFORMATION

2.1 CONCLUSIONS

The following actions are recommended.

- Update the 1988 Resource Planning Study annually utilizing the latest system load data, operating statistics, and cost projections. Proceed to complete the next update in February 1990, and in the economic analyses consider participation and firm power sales opportunities at prevailing market levels.
- Proceed with schedule activities presented herein to support the
 June 1, 1996 commercial operation of SEC Unit 2.
- Proceed immediately to develop the criteria and requirements to be included in the Request for Proposal (RFP) for soliciting alternate power supply from IPP to support the preparation and issue of the RFP in early 1990.
- e Request an extension of the New Source Review (NSR)/Prevention of Significant Deterioration (PSD) permit by submitting a formal extension request and a Best Available Control Technology BACT assessment for Stanton Unit 2 to EPA by June 30, 1991.
- Proceed with all project activities based on replicating major items of equipment as indicated herein under the replication alternative but retain, until April 1991, the option to rebid all major items of equipment.
- Proceed to make the decisions and commitments in accordance with the Decision Schedule shown in Table 2-1.
- Prepare economic analyses to determine the economic feasibility
 of installing larger combustion turbines for commercial operation
 at the Indian River Plant by June 1992. Include in the analysis
 a determination of the marketability of the power and energy
 available from the unit.

2.2 SUMMARY OF IMPORTANT INFORMATION

• The Integrated Demand-Side and Supply-Side Resource Planning
Study prepared by Southern Electric International is considered

TABLE 2-1. DECISION SCHEDULE

Decision Description	1995	1996	1997
Update Resource Planning Study		Feb 1990	Aug 1990
Need for Power is Established	Aug 1989*	Mar 1990	Sept 1990
Authorization of RFP for IPP Alternative	Aug 1989*	Mar 1990	Sept 1990
Decision on whether Turnkey Proposals will be Solicited and Authorized to Proceed	Aug 1989*	Hay 1990	Aug 1990
Review of Projected Project Costs	Jan 1990	June 1990	Feb 1991
Update Resource Planning Study	Feb 1990	Aug 1990	- 1
Decision on Replication or Rebid Option	June 1990	Apr 1991	July 1991
Decision on Acceptance of IPP Proposal	May 1990	Jan 1991	July 1991
Decision on Acceptance of Turnkey Proposal if Solicited	May 1990	Apr 1991	July 1991
SEC Unit 2 Rebid			
Authorise Preparation of Need for Power and Construction Permit Applications	June 1990	Apr 1991	July 1991
Release for Engineering and Construction Permitting	June 1990	Apr 1991	July 1991
Award Contract for Steam Generator and Turbine Generator	Dec 1990	Dec 1991	Nar 1992
Begin Awarding Contract for Remaining Equipment	June 1991	June 1992	Sep 1992
Award Contract for First Construction Con- tract	Dec 1991	Dec 1992	Mar 1993
Construction Begins	Mar 1992	Mar 1993	June 1993
SEC Unit 2' Replication			
Authorize preparation of Need for Power and Construction Permit Applications	Sept 1990	Sept 1991	. Dec 1991
Release for Engineering and Construction Permitting	Sept 1990	Sept 1991	Dec 1991
Award Contract for Steam Generator and Turbine Generator	Apr 1991	Apr 1992	Aug 1992
Begin Awarding Contracts for Remaining Equipment	June 1991	June 1992	Sep 1992
Award Contract for First Construction Con- tract	Dec 1991	Dec 1992	Mar 1993
Construction Begin	Mar 1992	Mar 1993	June 1993

*These items require expediting and schedule adjustment if a commitment is made for a 1995 unit.

the base document for establishing OUC's need for future electric power generation. OUC should update this study on a semiannual basis incorporating the latest system load information and system operation statistics. The economic analyses of alternatives addressed in the study should likewise be updated to include the most recent cost projection information and to consider the then current participation and firm power sales opportunities at prevailing market levels. All economic parameters should be rigorously examined in preparation of the need for power application to validate the bases and assumptions for such parameters.

- e OUC's current update of the Resource Planning Study indicates that additional baseload generating capacity is not required until 1997. However, with the rapid growth in Florida, and specifically in the Orlando area, it is appropriate that action be taken to avert a shortfall of electric power in 1996. Because of the projected constraint that construction must start by July 1, 1993, to utilize the existing NSR/PSD permit as extended, the schedules developed herein for a June 1, 1996 and a January 1, 1997 commercial operating unit are very similar. OUC could reasonably proceed on a project schedule for June 1, 1996 commercial operation of the unit with critical decision points built into the schedule which would facilitate delay of the project by three to six months should such delay become appropriate.
- e It is concluded that the Need for Power application for certification of the next source of baseload capacity acquired by OUC must consider IPP as a possible source. Therefore, all planning schedules for obtaining future baseload capacity must include time for specifying, bidding, and evaluating proposals from qualified IPP sources. The time required for these activities is approximately 11 months. The legal implications of having an IPP facility located on the SEC site should be thoroughly investigated and resolved prior to preparing a RFP from IPP sources.

 Development of the criteria for the RFP should be initiated

promptly to facilitate its preparation and issuance in accordance with the schedule developed herein.

- It has been determined that the EPA will consider a request for an 18 month extension of the existing NSR/PSD permit for SEC Unit 2. The existing permit requires construction of Unit 2 to start no later than December 31, 1991. The longest extension request that will be considered is 18 months which would defer the expiration date to July 1, 1993, if the request is granted. The later expiration date would provide OUC with added flexibility in planning the construction of SEC Unit 2. The request for extension and the BACT analysis which must accompany the request must be prepared and submitted six months prior to the current expiration date.
- replicated major items of equipment and materials as compared to rebidding all equipment and material shows that a savings of between \$13.7 and \$14.9 million, depending upon the operating date selected, could be realized by OUC by replicating the major equipment item. These estimated savings are conservative and do not include any quantification of intangible advantages to the utilization of replicated equipment. The replication option also results in a shifting of the cash flow to a later date and the benefits of this shift are likewise not quantified in the capital cost estimate.

It has been determined that a reasonable basis exists for directly negotiating contracts for replicated equipment and material with the vendors supplying the Unit 1 major equipment items. The study did not include estimating the costs of SEC 2 utilizing any contracting methods other than negotiating or rebidding major equipment items and obtaining all other equipment and construction contracts through multiple lump sum fixed price contracting.

Capital cost estimates for construction of Combustion Turbines C and D at the Indian River Plant were also prepared.

The capital cost estimates developed are as follows.

<u>Alternative</u>	1995 (\$1,000)	1996 (\$1,000)	1997 (\$1,000)
SEC Unit 2 Replication	493,940	513,688	537,271
SEC Unit 2 Rebid	507,716	528,016	552,174
	1992 (\$1,000)	1993 (\$1,000)	1994 (\$1,000)
IRP Combustion Turbine Frame 6	23,574	24,800	26,081
IRP Combustion Turbine Frame 7E	42,470	44,573	46,893
IRP Combustion Turbine Frame 7E with Quiet Combustors	45,203	47,441	49,913

Because of the advantages the SEC Unit 2 replication alternative has over the rebid SEC Unit 2 alternative, its lower cost, the shifting of cash flow to a later date, and the additional months allowed for the decision to proceed with SEC Unit 2, it is appropriate that the Commission seriously consider proceeding with the replication of the major equipment for SEC Unit 2.

- Major decision points have been identified and the dates when the decisions are required have been established for both the replication and rebid options and for each alternate operating date for SEC Unit 2. The financial exposure of OUC to any decision point has been estimated up to the time construction begins for each alternate schedule. The decision points are shown on Table 2-1 and the estimated financial exposure is shown on Table 2-2.
- Capital cost estimates for installing alternate size combustion turbines for Units C and D at the Indian River Plant show a lower cost per kilowatt of installed capacity for installing the larger units. OUC should explore the marketability of such capacity and conduct economic analyses to determine the economic feasibility of installing the larger combustion turbines. Discussion with

Commercial			Rebid			Replicate	
Operation fiscal year	Quarter	1995 (\$x1,000)	1996 (\$x1,000)	1997 (\$x1,000)	1995 (\$x1,000)	1996 (\$x1,000)	1997 (\$x1,000)
89	4	200	0	0	200	0	0
90	1	220	0	0	220	0	0
90	2	220	224	20	220	224	20
90	3	240	244	40	240	244	40
90	4	881	244	40	240	244	40
91	1	2,238	264	270	1,281	264	270
91 '	2	6,908	270	277	3,328	270	277
91	3	23,490	659	315	13,046	309	315
91	4	50,326	1,610	694	32,343	328	334
92	1	96,557	3,270	1,696	70,083	1,434	373
92	2	168,697	7,713	4,193	122,850	3,559	1,553
92	3	NA	24,742	10,336	NA	13,652	4,841
92	4	NA	52,617	28,378	NA	33,701	15,702
93	1	NA	100,592	61,800	NA	72,920	40,891
93	2	NA	175,524	108,732	NA	127,794	78,244
93	3	NA	NA	192,269	NA	NA	140,036

the manufacturer of Combustion Turbines A and B should be continued to retain current contract options or adjustment of those options for the larger units available until the decision is made.

3.0 PERMITS

The permits required for the construction of SEC Unit 2 are discussed in this section.

3.1 NEED FOR POWER

The Integrated Demand-Side and Supply-Side Resource Planning Study, prepared by Southern Electrical International and presented to the Commission in the October Commission meeting, recommended that construction start on SEC Unit 2 prior to December 31, 1991, which is the expiration date of the NSR/PSD permit. This would place Unit 2 in commercial operation in approximately March of 1995. Following discussion with the Atlanta EPA office, the EPA has advised that they will consider a request for an extension of the NSR/PSD permit of 18 months or until July 1, 1993. Such extension would allow OUC additional flexibility in their planning. OUC should update the Integrated Demand-Side and Supply-Side Resource Planning Study every six months. The latest OUC system load information should be included in each update. The SEC Unit 2 cost estimates developed herein and preliminary estimates of the cost of power produced from the unit indicate that the unit will be very economical from both an ownership participation basis and a power supply basis. Therefore, in performing the Meed for Power economic studies. OUC should consider ownership participation and nominal term power sales agreement on a market level basis in lieu of strictly on a cost level basis. Staggered term power sales agreements providing for capacity reverting back to the OUC system should be thoroughly considered. This update document will allow OUC to determine when the next increment of power will be required as well as the optimum ownership, participation, and power sales quantities.

The need for power will have to be established with the Florida Public Service Commission prior to obtaining site certification for either SEC Unit 2 or an IPP. The updated Integrated Demand-Side and Supply-Side Resource Planning Study can serve as the base document to establish this need for power.

3.2 NEW SOURCE REVIEW

The NSR/PSD permit for the SEC site included the provision to construct two coal fired units on a staged basis.

This permit requires that construction of the second unit begin within 18 months of July 1, 1990, (January 1, 1989 to December 31, 1991). As noted above, discussion with the EPA establish that they will consider a request to extend the NSR/PSD permit an additional 18 months. This would allow OUC to retain the right to begin construction on SEC Unit 2 until July 1, 1993 without reapplying for a NSR/PSD permit. The EPA indicated that OUC should apply for the NSR/PSD permit extension six months prior to the current expiration date. The request for extension must include a BACT assessment of the air pollution control equipment to be utilized on the proposed new unit.

The existing two unit PSD permit currently utilizes most of the short term SO₂ increment at the site boundary. Other sources which propose to locate in the area are required to model emissions from the unconstructed Unit 2 at full permitted levels. Emissions from Unit 1 would be modeled using actual emission data. The existing PSD permit provides OUC with flexibility to increase its short-term SO₂ emissions and yet remain in full compliance with all permit conditions. OUC can retain its current control over the availability of increment near the site by demonstrating that Unit 1's actual short-term emissions occasionally approach the maximum permitted level.

3.3 POWER PLANT SITE CERTIFICATION

Any new large steam electric unit built in the State of Florida must receive site certification under the Florida Power Plant Siting Act prior to construction. Because the SEC site has previously undergone the permitting process, and is qualified for an ultimate site development of four units with an approximate capacity of 2,000 MW, the time allowed by Florida statute for the review process is reduced to seven months in lieu of the 14 months allocated for a new site.

4.0 ALTERNATIVES

The detailed information relative to the various alternatives considered and developed in this study is included in this section.

4.1 SEC UNIT 2 REPLICATION

This alternative contemplates that the SEC Unit 1 major equipment items would be replicated for SEC Unit 2. The basic concept of this alternative is that significant capital cost savings and operating advantages could accrue to the Commission. Consideration of this alternative is predicated on the following.

- The Commission must be willing to support and accept negotiated contracts with sole source manufacturers for the equipment being replicated.
- The sole source manufacturers must be willing to negotiate in good faith to ensure that each contract negotiated is advantageous to both the Commission and the manufacturer. Preliminary discussions have been held with the following manufacturers to determine if reasonable basis exists for negotiating contracts for replicated equipment.
 - -- Westinghouse Electric Corporation-Turbine Generator.
 - -- Babcock & Wilcox-Steam Generator.
 - -- Marley Cooling Tower Company-Cooling Tower.
 - -- Wheelabrator Frye--Particulate Removal Equipment.
 - -- Cives -- Structural Steel.
 - -- Pullman Power Products Corporation-Concrete Chimney.

All of the above manufacturers have responded positively and appear to be willing to negotiate in good faith. Budgetary estimates have been obtained from these equipment suppliers. A copy of each response is included in Appendix A. During the design process, it may be determined that some items of auxiliary equipment should also be replicated and separately negotiated.

• Contracts for other plant equipment that need not be negotiated to fulfill the primary objectives of replication would be contracted in accordance with OUC standard bidding and contracting procedures for obtaining lump sum fixed price contracts. All construction contracts will be bid and contracted in accordance with current Commission procedures for obtaining multiple lump sum fixed price contracts.

4.1.1 Replication Advantages

The advantages of replicating the above SEC Unit 1 major items of equipment for SEC Unit 2 are as follows.

- The equipment has been shown to be conservatively designed and has proven to be extremely reliable.
- by OUC would be reduced. While there would be a need to increase the number of some items of spare parts because there would be two units, a complete set of duplicate spares would not be required. Purchase of equipment from a different manufacturer would require a completely new set of spare parts.
- The initial training of operating personnel and maintenance personnel would be reduced. While the limited number of new operators and maintenance personnel required for SEC Unit 2 would still require training, the existing personnel would already be familiar with these major items of equipment.

In addition, the experience, knowledge, and known characteristics of the equipment that has been acquired during the operation and maintenance of SEC Unit 1 will be applicable to the replicated equipment.

• The time required for the engineering design and equipment design can be reduced if the major equipment for SEC Unit 2 is replicated. This results in allowing additional time before a commitment for engineering must be made. It also permits consideration of limiting number of construction contracts because of the completeness of design at an earlier date.

 Replicating the major items of equipment results in a savings in both the design cost for the equipment and the engineering cost of the buildings and associated facilities.

4.1.2 Replication Risks

The potential risks relative to the replication option for SEC Unit 2 are as follows.

- Other manufacturers of major items of equipment which would be replicated for SEC Unit 2 may object to not being allowed an opportunity to submit a proposal for furnishing such similar equipment. Such objection could result in allegations of impropriety in the Commission's purchasing procedure and potential public controversy. The Commission has historically adopted purchasing procedures which are deemed to be in the best interest of the Commission and has steadfastly defended its right to do so.
- Development of the BACT analysis may determine that the replication of the electrostatic precipitator is not acceptable and, therefore, the savings accredited to duplication of this equipment may not be realized.

4.2 SEC UNIT 2 REBID

This alternative includes rebidding and contracting all equipment and construction contracts in accordance with current OUC procurement procedures for obtaining multiple lump sum fixed price contracts. Under this approach, equipment and construction services are purchased through a number of contracts with each contractor responsible for completing a specified scope of work for a fixed price.

Equipment and construction contracts are awarded in a staged sequence to allow completion of the detail design engineering by the Engineer prior to tendering design documents for bid and the start of construction.

Under these procedures, all qualified manufacturers would be allowed to submit proposals for the major items of equipment. Proposal evaluations would include consideration of total cost advantage to the Commission for any replicated equipment that may be proposed. Although the basic SEC Unit 1 plant arrangement would be utilized, incorporating nonreplicated

equipment would require that the detailed design of the building be modified to accommodate the specific requirements of the alternate equipment.

It is possible that the Commission could accrue some of the cost advantage indicated under the replication option should any of the Unit 1 major equipment manufacturers have the lowest evaluated cost proposal submitted under this alternative. It is likewise possible that under this alternative the Unit 1 major equipment manufacturers could price their proposals to keep a portion of the overall possible savings otherwise available to the Commission recognizing that their equipment would have some advantage in a total cost evaluation.

In addition to contracting all equipment and construction contracts in accordance with the multiple lump sum fixed price contracting method utilized for constructing SEC Unit 1, there are the following methods whereby SEC Unit 2 could be constructed.

Single Responsibility "Turnkey" Contracts—Under this approach, the engineering, purchasing, installation of power plant equipment, and plant construction are performed by a single party contractor from a performance type specification which defines a broad scope of work. The contract is awarded very early into the project. Thus, the contract spans over a long period of time, and generally provides for price adjustments for escalation of labor, equipment, and materials.

Because of the size and complexity of large power generating projects, the prime contractor usually awards a significant portion of the work to subcontractors. Unfortunately, excessive subcontracting and contracts with long time spans tend to increase project cost.

Detail design engineering for single responsibility "turnkey" contracts is performed by one or more manufacturers, with contractors and engineers acting as subcontractors to the prime contractor. Under this arrangement, the design is done under the supervision and direction of the contractor and thereby will reflect the contractor's pricing constraints. This method of contracting would require that several months be included in the schedule to allow preparation of the specification, bidding, evaluating, and awarding of the turnkey contract. The schedule requirement for these activities is similar to the schedule requirements for soliciting IPP proposals.

Under this method of contracting, the turnkey contractor adds contingency to his bid because he has not completed the design of the plant nor does he generally have firm price proposals for all the equipment at the time he makes his proposal. In addition, the construction portion of the contract is uncertain and therefore must include contingency. In effect, the turnkey contractor takes the bidding and construction risks and includes the cost of those risks in his proposal.

The Commission also loses a certain amount of control in this type of contracting. As noted above, the contract is usually based on performance of the completed plant and a limited amount of specific detail. The selection of equipment, plant layout, maintenance provisions, etc., is the contractor's option and the OUC staff would have only that input provided in the performance specification serving as the bid document for the project. Future maintenance cost considerations would not be a significant consideration in a design for minimum capital cost.

The benefits that could flow to the Commission for the "turnkey" contract are (1) there is only one contractor involved, (2) except for the escalation provision of the contract, the cost of SEC Unit 2 would be known at the time the commitment for SEC Unit 2 is made, and (3) all construction interfaces and details are the responsibility of the contractor minimizing the Commission's potential involvement in settlements with several contractors.

Multiple "Turnkey" Island Contracts—Under this approach, the
engineering, purchasing, and installation of major power plant
equipment and the construction of associated plant systems are

performed under several large turnkey contracts from performance type specifications which define a broad scope of work.

Normally, two large "turnkey" contracts, identified as the "turbine-generator island" and "steam generator island," are awarded for design and construction of the generating plant complex. Additional turnkey packaging may include the coal handling system, ash and dust handling system, electrical and switchyard, and air quality control systems. The civil work is completed under separate contracts, by civil contractors, from a fixed scope of work identified through detail construction drawings and technical specifications prepared by the Engineer.

Multiple "turnkey" contracting reflects the European approach to engineering and design. That is, the engineer and contractors share the detail design engineering responsibility for the project. The engineering includes project planning, conceptual design, preparation of performance type procurement specifications for turnkey packages, post contract administration and management, and the detail design for the civil work all of which is performed by the Engineer.

Detail design of the mechanical, electrical, and control systems is the responsibility of the turnkey contractors. This approach requires very close supervision of the total project engineering, by the Engineer, to properly interface the detail design performed under the various turnkey contracts. Areas of particular concern are unit protection and safety, coordinated plant control, and where engineering and contractual interfaces affect quality, unit reliability, and costs.

Since the detailed design of each "island" is performed by different entities, the selection of various devices, materials, and equipment components is the choice of the island turnkey contractor. Standardization of these items is therefore virtually impossible and results in added cost and complications for

the facility Owner in maintaining the devices and providing appropriate onsite spare parts.

Again, the Commission losses a certain amount of control in the Multiple "Turnkey" Island contracts. The selection of equipment, plant layout, maintenance provisions, etc., is done by the contractor and the OUC staff would not have any input other than that provided in the performance specification.

The benefits that could flow to the Commission for the multiple "Turnkey" Island contract are that there is a limited number of contracts involved and, except for the escalation provisions of the contract, the cost for SEC Unit 2 would be known at a relatively early stage in the development of SEC Unit 2.

General Construction Contract—Under this approach, the engineering and purchasing of power plant equipment are performed in accordance with current OUC procedures. However, there would be
one General Construction Contract awarded for the civil work,
installation of structural, mechanical, electrical, control, and
chemical equipment, and all structure mechanical, electrical,
control, and chemical erection work.

The General Construction Contract requires that this contract be awarded at the time construction begins. Because of the limited amount of time between the release for engineering and the time construction begins, the design cannot be fully completed by the time the contract must be issued for bids. Therefore, there must be some contingency in the construction bid. In addition, there could be changes to the contract as the purchasing is completed and the detailed design plans are issued to the contractor.

The advantages to the Commission for the General Construction Contract are that (1) there is only one construction contract and (2) all construction interfaces and details are the responsibility of the contractor.

4.3 INDEPENDENT POWER PRODUCER

An alternate method of obtaining power in the mid 90s is to contract with an IPP to provide the power. This method of obtaining power would be unique for OUC. In the past, OUC has always constructed their own power production facilities or purchased a portion of the power production facilities being constructed by another electrical utility. OUC pays for their share of the capital cost of the power production facilities and the operating and maintenance costs for producing the power.

The contract with an IPP would include the provisions for purchasing power at a specific price for a specific time period. All capital costs, operating, and maintenance costs plus profit would be the responsibility of the IPP. The contract could include the provision that OUC would or could purchase the facilities at a later date.

The reason for considering purchasing power from an IPP is to determine whether the OUC customer is getting the lowest cost power. In addition, the Public Service Commission must consider whether any new power producing facility seeking a need determination under the Power Plant Siting Act is the lowest cost option. In the most recent Need for Power hearings, it has become evident that the Florida Public Service Commission (PSC) expects that the applicants consider and address the potential for obtaining their electric needs from IPPs. Contacts with the PSC staff indicate their support of an official requirement that all Need for Power certification applications demonstrate that the IPP alternative has been fully considered. Therefore, proposals from IPPs will be required for comparison with the cost of power produced by SEC Unit 2.

In this alternative, the IPP could either be another utility or a separate entity who would sell the power that they produce to OUC. The schedules developed in the study assume that a new power production facility would have to be built. These facilities could either be built on a new site or on the SEC site.

Since an IPP must be considered, a specification for the required power must be prepared, issued for bids, and the proposals received and evaluated. The work must be completed before a decision can be made on whether to proceed with the IPP or SEC Unit 2. The time required for this work is included in the schedules.

4.3.1 Independent Power Producer (New Site)

A Greenfield site was assumed for the IPP (new site) alternative. This new site would require up to 12 months of ambient air monitoring data. Additional time would also be required for permitting and for construction to allow for site development such as clearing, leveling, developing roads, developing construction facilities, etc.

4.3.2 Independent Power Producer (SEC Site)

It was assumed for the IPP (SEC site) alternative that the IPP power producing facilities would be developed on the SEC site. The IPP facilities would be completely independent from the SEC Unit 1 facilities and would have completely separate supervision, operating, and maintenance staffs. The power producing facilities are projected to be located remotely from the SEC Unit 1 facilities.

Even though the IPP power producing facilities would be located remotely from SEC Unit 1, they could use the same entrance roads, site security, makeup water pond, substation, makeup water facilities, coal storage area, etc. A decision on which facilities will be made available to the IPP must be made prior to preparing the request for proposal. This decision should include any legal implications that would be a result of using the OUC facilities. Limitations on site must also be developed based upon considerations of the red cockaded woodpecker trees and habitat and wetlands.

4.4 COMBUSTION TURBINE GENERATORS

The current contract for the Combustion Turbine Generators (CTs) recently installed at the Indian River Plant has an option for two additional Frame 6 (approximately 34 MW) combustion turbine generators. General Electric has submitted a proposal for converting this option to include two

Frame 7EA (approximately 78 MW) combustion turbine generators in lieu of the Frame 6 units. Schedules, cost estimates, and cash flows have been developed for these two options. The CTs could be installed in 1992, 1993, or 1994 at the Indian River Plant.

5.0 SCHEDULE

Milestone schedules for SEC Unit 2 have been developed for design, procurement, and construction for both the replication and rebid options. These schedules are included in the appendix. Schedules have been developed for the three commercial dates being considered. These milestone schedules were used in the development of bar chart schedules included herein.

Bar chart schedules for the combustion turbines at the Indian River Plant have also been developed for the design, procurement, and construction for both the Frame 6 and Frame 7E options. Schedules have been developed for the three commercial dates being considered.

The following bar chart schedules have been developed for SEC Unit 2.

- e Commercial operation in 1995-Figure 5-1.
- e Commercial operation in 1996--Figure 5-2.
- e Commercial operation in 1997--Figure 5-3.

Each schedule includes the following.

- e Schedule for PSD permit extension.
- · SEC Unit 2-Replication of major equipment.
- SEC Unit 2-Rebid of all equipment.
- e Evaluation of Independent Power Producer.
- e Independent Power Producer (New Site).
- Independent Power Producer (SEC Site).

The Project Milestone Schedule, Figure 5-4, for the combustion turbines at Indian River Plant includes the following.

- Permits and Licensing.
- e Conceptual Design.
- Design Engineering.
- e Procurement.
- Construction.
- Checkout and Test.

Each of the above listed items are shown for the commercial operating dates of 1992, 1993, and 1994 for Frame 7EA CTs. The schedule for Frame 6 CTs would be essentially the same.

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5.1 SEC UNIT 2

The schedules for SEC Unit 2 are based on the following.

- As discussed in Section 4.2 to allow OUC the maximum flexibility an application for the extension of the NSR/PSD permit should be prepared and submitted. The schedule for preparing the BACT analysis, the review period required by the EPA, and the period of permit extension is shown on all schedules.
- The schedule for SEC Unit 2 is based on a seven-month government agency approval time.

The schedules for the IPP are based on a 12-month government agency approval time for the SEC Site and a 14-month government agency approval time for a new site.

These schedules are included as Figures 5-1, 5-2, and 5-3 and are discussed in the following paragraphs.

5.1.1 SEC Unit 2 Replication

The SEC Unit 2 Replication schedule is based on replicating the major items of equipment as discussed in Section 4.1.

All construction contracts and other equipment supply contracts will be rebid and contracted for in accordance with the OUC current procurement procedures for obtaining multiple lump sum fixed price contracts. If it is determined during the design process that some other auxiliary equipment items should also be negotiated, there would be no detrimental impact on the schedule.

5.1.2 SEC Unit 2-Rebid

The SEC Unit Rebid schedule is based on rebidding and contracting all equipment and construction in accordance with OUC current procurement procedures for obtaining multiple lump sum fixed price contracts.

5.1.3 Independent Power Producer (New Site)

The Independent Power Producer (New Site) schedule is based on the IPP developing his power producing facilities at a Greenfield site. The

construction schedule is based on 41 months in lieu of 39 months used in the other three schedules.

The additional time is required for site development such as clearing, leveling, developing roads, developing construction facilities, and performing other early construction work required. Additional time will be required to obtain the required permit to allow construction to begin: up to 12 months of air quality monitoring may be required; however, it has been assumed that the final monitoring data will be submitted during the agency review; expected approval time by the various government agencies is 14 months versus 12 months for an IPP using the SEC site.

5.1.4 Independent Power Producer (SEC Site)

The Independent Power Producer schedule is based on the IPP developing his power producing facilities on the SEC Site.

5.2 SCHEDULE ANALYSIS

The following is a discussion of the salient points of each of the schedules for SEC Unit 2.

5.2.1 Commercial Operation 1995

Figure 5-1 shows the summary schedule for the various alternatives for generating facilities to be operational in 1995.

- 5.2.1.1 Controlling Parameters. The controlling parameters for this schedule are as follows.
 - It is assumed that the EPA will grant an extension of the permit expiration date to July 1, 1993.
 - Construction must start prior to the expiration of the permit extension, July 1, 1993.
 - Commercial operation at the beginning of the OUC summer load,
 June 1, 1995.
 - Approval time by Florida Statute for the various government
 agencies is seven months for a plant located on a site which has

been previously certified for ultimate site development. Approval time by Florida Statute for the IPP plant is expected to be either 12 or 14 months depending on whether it is located at the SEC site or on a new site. Based on prior experience at SEC Unit 1, an expanded approval time has been included in the SEC Unit 2 and the IPP (SEC Site) schedules to cover delays in the receipt of approval.

- The construction schedule for SEC Unit 2 and the IPP on an existing site is 39 months. Because additional site development work
 and construction facility work must be done on a Greenfield site,
 an additional two months have been included in the construction
 schedule for the IPP (New Site).
- Appropriate times have been included for the purchase of major equipment, the preparation of the studies and permit applications, the need for power and environmental hearings, and governmental approval process.

5.2.1.2 Schedule Results. As shown on the schedule, work on the request for proposal for the IPP would had to have been initiated in April 1989 to maintain the June 1, 1995 operating date without overlapping some of the permitting process activities. The earliest that power could be available for an IPP on a new site, assuming that work on the request for proposal would begin in September 1989, is October 1995 using the normal schedule activity intervals. However, it may be possible to reduce the construction schedule somewhat by application of multiple shifts to the construction work. Actual time required would also depend upon the type of facility proposed by the IPP.

To ensure that an IPP (SEC Site) can provide power by June 1, 1995, work on the request for proposal should be issued by October 1, 1989. The IPP proposal should be received and evaluated by May 1, 1990 to provide adequate time to have power available by June 1, 1995.

A decision relative to the acceptance of an IPP proposal by as late as June 30, 1990 would still provide adequate time for construction of the plant utilizing either the replication or rebid option available to the Commission. Table 5-2 shows the timing of critical decisions which must be made by the Commission to support the schedule.

5.2.2 Commercial Operation 1996

Figure 5-2 shows the summary schedule for the various alternatives for generating facilities to be operational in 1996.

5.2.2.1 Controlling Parameters. The controlling parameters for these schedules are identical to the controlling parameters for the Commercial Operation 1995 Schedules except two months of expended approval time for the government agencies have been added to the IPP (SEC Site) schedule and the schedule for the PSD permit extension has been slipped one month later.

5.2.2.2 Schedule Results. As shown on the schedule, to ensure that a IPP unit at a new site can provide power by June 1, 1996, work on the request for proposal must begin in March 1990. The IPP proposal should be received and evaluated by January 1, 1991 to provide adequate time to have power available by June 1, 1996.

5.2.3 Commercial Operation 1997

Figure 5-3 shows the summary schedule for the various alternatives for generating facilities to be operational in 1997.

- 5.2.3.1 <u>Controlling Parameters</u>. The controlling parameters for these schedules are identical to the controlling parameters for the Commercial Operation 1996 Schedules except for the following.
 - Construction on SEC Unit 2 must start within the permit extension time which expires on July 1, 1993. To allow for some unforeseen delays in the start of construction, the start of construction has been scheduled for June 1, 1993.
 - Due to the restraint that construction must start prior to July
 1, 1993, an extended construction schedule of 43 months was used
 to allow a commercial operation date in 1997.
- 5.2.3.2 Schedule Results. As indicated on the schedule, work on the request for proposal for the IPP must begin in October 1990 to ensure that the decision to proceed with SEC Unit 2 in lieu of an IPP will be made in

time to allow construction to start on SEC Unit 2 before the PSD permit extension expires.

Due to the restraint that construction must start prior to July 1, 1993 and using the extended construction period of 43 months, the commercial operating date for SEC Unit 2 is January 1, 1997 in lieu of the preferred date of June 1, 1997. If it is concluded that commercial operation of SEC Unit 2 should not be until June 1, 1997, the Commission could consider allowing the PSD permit to expire and reapply for the PSD permit in the licensing of the unit.

5.3 COMBUSTION TURBINES C AND D

The schedule for Combustion Turbine Generators (CTs) C and D are based on the following.

5.3.1 Schedule Basis

The period between exercising the option and the delivery date is based on the information given in GEs letter of June 22, 1989 and are as follows.

Year of Shipment	Latest Date for Full Release
1991	16 months prior to shipment
1992	18 months prior to shipment
1993	20 months prior to shipment

The engineering schedule is based on 12 months for detail design. The construction schedule is based on beginning construction nine months prior to the commercial operation date of Combustion Turbine Generator C.

5.4 SCHEDULE SUMMARY

The milestone dates for the various schedules are summarized in Tables 5-1 and 5-2.

The dates when decision should be made for the various schedules are summarized in Table 5-3.

TABLE 5-1. MILESTONE SUMMARY

Commercial Operation Date	1995	1996	1997
Date to Begin Work on Permit Extension	12/90	2/91	2/91
Permit Extension Expires	7/1/93	7/1/93	7/1/93
Issue Request for IPP Proposal	10/89	6/90	12/90
Decision to Proceed with SEC Unit 2 or IPP	5/90	10/90	7/91
Start of Construction SEC Unit 2	3/92	1/94	6/93
Commercial Operation SEC Unit 2	6/95	6/96	1/97
Commercial Operation IPP	6/95	6/96	6/97

TABLE 5-2. COMBUSTION TURBINES C AND D MILESTONES

Commercial Operating Date	1992	1993	1994
Date to Begin Engineering	10/89	6/90	4/91
Date to Begin Permit and Licensing	2/90	2/91	2/92
Release of CTs	6/90	4/91	2/92
Start of Construction	8/91	8/92	8/93
Delivery of CTs	11-12/91	11-12/92	11-12/93
Commercial Operation	6-7/92	6-7/93	6-7/94

TABLE 5-3. DECISION SCHEDULE

		ommercial Operat	ion
Decision Description	1995	1996	1997
Update Resource Planning Study	-	Feb 1990	Aug 1990
Need for Power is Established	Aug 1989*	Mar 1990	Sept 1990
Authorization of RFP for IPP Alternative	Aug 1989*	Mar 1990	Sept 1990
Decision on whether Turnkey Proposals will be Solicited and Authorized to Proceed	Aug 1989*	Nay 1990	Aug 1990
Review of Projected Project Costs	Jan 1990	June 1990	Feb 1991
Update Resource Planning Study	Feb 1990	Aug 1990	_
Decision on Replication or Rebid Option	June 1990	Apr 1991	July 1991
Decision on Acceptance of IPP Proposal	May 1990	Jan 1991	July 1991
Decision on Acceptance of Turnkey Proposal if Solicited	Nay 1990	Apr 1991	July 1991
SEC Unit 2 Rebid			
Authorise Preparation of Heed for Power and Construction Permit Applications	June 1990	Apr 1991	July 1991
Release for Engine ring and Construction Permitting	June 1990	Apr 1991	July 1991
Award Contract for Steam Generator and Turbine Generator	Dec 1990	Dec 1991	Mar 1992
Begin Awarding Contract for Remaining Equipment	June 1991	June 1992	Sep 1992
Award Contract for First Construction Con- tract	Dec 1991	Dec 1992	Mar 1993
Construction Begins	Mar 1992	Mar 1993	June 1993
SEC Unit 2 Replication			
Authorize preparation of Need for Power and Construction Permit Applications	Sept 1990	Sept 1991	Dec 1991
Release For Engineering and Construction Permitting	Sept 1990	Sept 1991	Dec 1991
Award Contract for Steam Generator and Turbine Generator	Apr 1991	Apr 1992	Aug 1992
Begin Awarding Contracts for Remaining Equipment	June 1991	June 1992	Sep 1992
Award Contract for First Construction Con- tract	Dec 1991	Dec 1993	Mar 1993
Construction Begin	Nar 1992	Mar 1993	June 1993

*These items require expediting and schedule adjustment if a commitment is made for a 1995 unit.

6.0 COST ESTIMATES

6.1 INTRODUCTION

The preliminary cost estimates for SEC Unit 2 have been developed.

Both cost estimates are based on SEC Unit 2 being similar to SEC Unit 1 and being engineered and contracted in the same manner as SEC Unit 1. The specifications for the major items of equipment are as follows.

- e Steam Turbine-425,000 kW tandem compound, two cylinder, two flow exhaust, condensing, reheat type, 3,600 rpm steam turbine with design steam conditions of 2,400 psig, 1,000 F at the throttle, reheating to 1,000 F, 3.0 HgA at the exhaust with eight stages of feedwater heating.
- Generator—516,200 kVA, 0.9 P-F when operating at 60 psig hydrogen pressure, 3,600 rpm, 0.585 CR, 24,000 volts, threephase, 60 hertz hydrogen inner-cooled generator.
- Steam Generator—3,305,000 1b/h main steam at 2,640 psig/1,005 F,
 2,802,000 1b/h reheat steam at 685 psia/1,005 F, pulverized coal fired, balanced draft, drum type natural circulation.
- Cooling Tower—Hyperbolic, counterflow, natural draft, reinforced concrete, with circulating water flow of 200,000 gpm.
- Particulate Removal Equipment—Rigid frame with six fields in the direction of flow designed to treat 5,255,000 lb/h of flue gas with an inlet dust loading of 0.7-4.0 grains/ft³ to an outlet total particulate emission rate of 0.030 lb per million Btu.
- Flue Gas Scrubber—Wet limestone scrubber with three modules, two
 modules designed to handle 100 percent of the design flue gas
 flow of 5,255,000 lb/h with a maximum sulfur dioxide content at
 inlet of 30,300 lb/h. Minimum sulfur dioxide removal efficiency
 of each module 90 percent.
- Chimney-550-foot high concrete with acid resistance brick liner.
 SEC Unit 2 will be located adjacent to SEC Unit 1 and will utilize many of the SEC Unit 1 auxiliary equipment and facilities, such as the

cooling water makeup pond; makeup water treatment equipment; coal car unloading, stockout, and reclaim equipment and facilities; limestone unloading, storage, conveying, and grinding equipment and facilities; turbine room crane; yard service building; and the administration and machine shop facilities.

Additional information for the basis of the cost estimate is contained in Appendix B.

6.2 SEC UNIT 2-REPLICATION

This cost estimate is based on the budgetary estimates received from the manufacturers for furnishing and erecting the following replicated major equipment.

- e Steam turbine generator and all associated equipment.
- Steam generator and all associated equipment.
- e Cooling tower.
- e Particulate removal equipment.
- e Chimney.
- e Structural steel.

Costs for the remaining equipment and construction contracts have been made utilizing (1) "the basis of cost estimate," (2) the SEC Unit 1 quantities and costs adjusted as required for SEC Unit 2, (3) crew size, productive, and labor rates for the Orlando area, (4) escalation that has occurred from SEC Unit 1 to the present (June 1989), and (5) an escalation rate of 5.25 percent from June 1989 to the appropriate equipment delivery or construction period for the various proposed construction schedules. The escalation rate used accounts for basic escalation under current market conditions. It is possible that future demands for power plant equipment could radically change the market conditions and substantially increase the market level of power plant equipment and material. No provisions have been made in the cost estimates for such occurrences because of the speculative nature of such market changes.

6.3 SEC--REBID

This cost estimate is identical to the SEC Unit 2 replication except for the following.

- The cost of all equipment has been estimated based on alternative suppliers equipment, current market conditions, and no savings in the design engineering for the major equipment items.
- The indirect costs for B&V engineering and OUC administration,
 training, and startup have been adjusted to reflect the costs
 associated with the alternate suppliers of new major equipment.

6.4 COST SUMMARY

The estimated SEC Unit 2 costs for the various commercial operating dates are summarized below.

Commercial Operating Date	1995	1996	1997
	1995 (\$x1,000)	(\$x1,000)	(\$x1,000)
SEC Unit 1 Replication	493,940	513,688	537,271
SEC Unit 2 Rebid	507,716	528,016	552,174

The detailed cost estimates are included in Appendix B.

It is apparent that a total capital cost saving range from nearly \$13.7 to \$14.9 million dollars, depending upon the year of commercial operation, can be realized by replicating the Unit 1 major equipment items in lieu of rebidding all items. Additional operational and maintenance savings which would be obtained are not quantified under the scope of this study.

6.5 COMBUSTION TURBINE COST ESTIMATE

The preliminary cost estimate for IR Combustion Turbines C and D has been developed for both Frame 6 and Frame 7E combustion turbines.

6.5.1 Frame 6 CTs

This cost estimate is based on the optional price included in the contract for the Frame 6 machines, with appropriate price adjustments for the changes made to CTs A and B. An escalation rate of 5.6 percent per year has been used to adjust the price from the firm price shipment date of

December 31, 1988 until the appropriate payment date. The payment schedule proposed by GE in their letter of June 23, 1989 for the Frame 7E machines was used.

The cost for other equipment and construction was based on the costs for CTs A and B and adjusted as appropriate.

6.5.2 Frame 7E Combustion Turbines

This cost estimate is based on the option prices included in GE's letter of June 23, 1989. An escalation rate of 5.6 percent per year has been used to adjust the price from the firm price shipment date through December 1990 to the appropriate payment date. The payment schedule proposed by GE in their letter was used.

The cost for other equipment and construction was based on the costs for CTs A and B adjusted as appropriate for the larger machines. GE has developed a "Quiet Combustor" for the Frame 7E machine that reduces the NO_x from 42 ppm to 25 ppm at full load. This option is not available on the Frame 6 machines. The Frame 6 CTs A and B were licensed for an emission limit of 42 ppm. However, depending on the BACT for the Frame 7E machines, the licensing of the Frame 7E machines may require the "Quiet Combustor" at a 1989 cost of \$1,250,000 per machine. A price adder for including the Quiet Combustor is included in the cost estimate.

The estimated costs for CTs C and D for the various commercial operating dates are summarized below.

Commercial Operating Date	1992 (\$x1,000)	1993 (\$x1,000)	1994 (\$x1,000)
Frame 6 CTs	23,574	24,800	26,081
Frame 7E CTs	42,470	44,573	46,893
Frame 7E CTs with Quiet Combustor	45,203	47,441	49,913

The detailed cost estimate is included in Appendix E.

7.0 CASH FLOWS

Cash flows were developed for each of the alternate schedules and cost estimates. The total expenditure required for each fiscal year is shown in Table 7-1 SEC Unit 2 Replication; and SEC Unit 2 Rebid; Table 7-2, Combustion Turbines C and D, Frame 7E; and Table 7-3 CTs C and D Frame 6.

7.1 COMMITTED DOLLARS

The cost estimates for SEC Unit 2 include the costs for preparing specifications and evaluating the proposals for IPP. These costs have been estimated at \$200,000. This money will be committed when the decision to proceed with the preparing of the request for the proposal is made.

The cost estimate for SEC Unit 2 does <u>not</u> include the cost for preparing specifications and evaluating the proposals for a Turnkey Contract. These costs will depend upon the amount of detail and control to be included in the contract. These costs are estimated to range between \$500,000 to \$2,000,000.

The cost estimates for SEC Unit 2 include the costs for preparing the Need for Power analysis, application, and hearing costs. These costs were estimated at \$700,000 and are included in the estimate of Owner Cost. This money will be committed when the decision to proceed with the preparation of the Need for Power analysis is made.

The cost estimates for SEC Unit 2 include the cost for preparing the construction permit analysis, application, and hearing costs. This money could be committed on a monthly basis as shown on the cash flows and would begin when the decision to proceed would be made.

The cost estimates for SEC Unit 2 include the cost for engineering.

This money could be committed on a monthly basis as shown on the cash flows and would begin when the decision to proceed would be made.

The committed dollars for the equipment will begin on the day the contract is awarded. The contractor's early administration costs and, for SEC Unit 2 rebid, costs for engineering will begin at contract award. The costs for materials and fabrication will also begin prior to the actual

Quarter

1

2

3

3

4

1995

(\$x1,000)

20

80

60

80

Piscal

Year

1989

1990

SEC Unit 2 Replicate

(\$x1,000)

0

0

76

76

1996

1997

(\$x1,000)

0

0

20

20

4,891

3,026

SEC Unit Bid

(\$x1,000)

0

0

76

76

1997

(\$x1,000)

0

0

20

20

4,482

3,080

1996

1995

(\$x1,000)

20

80

60

80

Fiscal		With	out Quiet Comb	ustor	With	Quiet Combus	tor
Year	Quarter	1992 (\$x1,000)	1993 (\$x1,000)	1994 (\$x1,000)	1992 (\$x1,000)	1993 (\$x1,000)	1994 (\$x1,000)
1989	4	10	-	-	10		
1990	1	10	-	-	10		-
	2	23	-	-	23	-	-
	3	3,099	7		3,349	7	-
	4	56	11	-	56	11	
1991	1	7,735	11	-	8,360	11	
	2	4,945	24	4	5,341	24	4
	3	5,034	3,671	11	5,425	3,968	11
	4	5,348	56	11	5,734	56	11
1992	1	6,789	8,734	11	7,218	9,440	11
	2	4,304	4,947	5,160	4,329	5,343	5,579
	3	2,398	5,044	22	2,473	5,435	22
	4	2,720	5,375	57	2,875	5,761	57
1993	1	-	6,836	9,000	-	7,266	9,728
	2		4,427	4,949		4,452	5,345
	3	 -	2,431	5,055	l —	2,507	5,445
	4	-	2,825	5,410		2,987	5,795
1994	1			6,946			7,376
	2		- :	4,718	-	-	4,743
	3			2,533	-	-	2,608
	4		· · · ·	3,005			3,176

TABLE 7-3. CASH FLOW FOR CTS FRAME 6 BY QUARTER

Piscal Year	Quarter	1992 (\$x1,000)	1993 (\$x1,000)	1994 (\$x1,000)
1989	4	10	-	
1990	1	10	-	-
	2	23		-
	3	3,099	7	-
	4	56	11	-
1991	1	7,735	11	1 1 -
	2	4,941	24	- 4
	3	5,004	3,671	11
	4	5,236	56	11
1992	1	6,451	8,734	11
	2	2,706	4,943	5,160
	3	1,931	5,013	22
	4	2,463	5,260	57
1993	1		6,511	9,000
	2		2,829	4,945
	3		1,979	5,022
	4 .		2,587	5,285
1994	1		_	6,573
	2	_ // /	- :	2,960
	3	-	_	2,029
	4	-	erine -	2,723

start of construction. It is estimated that this could be as high as 30 percent of the contract costs for the equipment for SEC Unit 2 Replication and 45 percent for SEC Unit 2 Rebid.

These dollars are committed prior to receiving the construction permit. These estimated costs committed up to the time construction is to begin are shown in Table 7-4 Dollars Committed.

TABLE 7-4. DOLLARS COMMITTED AT END OF QUARTER

Commercial	Quarter	Rebid			Replicate		
Operation fiscal year		1995 (\$x1,000)	1996 (\$x1,000)	1997 (\$x1,000)	1995 (\$x1,000)	1996 (\$x1,000)	1997 (\$x1,000)
1989	4	200	0	0	200	* 0	0
1990	1	220	0	0	220	, , 0	0
1990	2	220	224	20	220	224	20
1990	3	240	244	40	240	244	40
1990	4	881	244	40	240	244	40
1991	1	2,238	264	270	1,281	264	270
1991	2	6,908	270	277	3,328	270	277
1991	3	23,490	659	315	13,046	309	315
1991	4	50,326	1,610	694	32,343	328	334
1992	1	96,557	3,270	1,696	70,083	1,434	373
1992	2	168,697	7,713	4,193	122,850	3,559	1,553
1992	3	NA	24,742	10,336	NA	13,652	4,841
1992	4	NA	52,617	28,378	NA	33,701	15,702
1993	1	NA	100,592	61,800	NA	72,920	40,891
1993	2	NA	175,524	108,732	NA	127,794	78,244
1993	3	NA	NA	192,269	NA	NA	140,036

APPENDIX A EQUIPMENT SUPPLIERS RESPONSES



Pullman Power Products Corporation

Concrete Construction Suite 230, Lakeside Plaza 1575 North Universal Avenue Kansas City, Missouri 64120-1377 Telephone (816) 231-7400 Fax (816) 241-5582 Telex 424237

October 26, 1988

Mr. Earl Windisch Black & Veatch, Engineers-Architects Post Office Box 8405 Kansas City, Missouri 64114

Reference: Orlando Utilities Commission

Stanton Energy Center - Unit No. 2

Orlando, Florida

Reinforced Concrete Brick Lined Chimney Pullman Power Products Corporation

Proposal No. P02488

Dear Mr. Windisch:

We are pleased to present our Proposal No. P02488 to detail, furnish, and construct one (1) 550'-0" tall reinforced concrete chimney with one (1) 19'-0" top interior diameter independent pedestal-supported brick liner required to serve Orlando Utilities Commission's Stanton Energy Center - Unit No. 2 located in Orlando, Florida.

Our Proposal is in response to your verbal Request for Quotation and in general accordance with Chimney Specification No. 8927.1001, dated November 1, 1983 for Stanton Energy Center - Unit No. 1.

Please note that our Firm Lump Sum Price is based on material costs and labor rates in effect for October, 1988, and is subject to adjustment for escalation by methods mutually acceptable to all parties for the actual construction period. We anticipate a construction schedule of approximately 91 weeks to complete our scope of work.



Mr. Earl Windisch Black & Veatch October 26, 1898 Page 2

On the Unit No. 1 Chimney, Pullman Power Products Corporation was required to purchase all ready-mixed concrete used ensite from the Owner at pre-established rates. Since information relative to current unit pricing of ready-mixed concrete from the Owner is unavailable, we have not included the material cost of concrete in our price. Our design requires approximately 3,952 cubic yards (including overage) of 4000 psi 28 day strength concrete.

We have based our price upon the Owner providing a "Wrap-Up" insurance program as specified for construction of the Unit No. 1 Chimney. Should the Owner require Pullman Power Products Corporation to furnish Workers' Compensation and Comprehensive General Liability Insurance coverages, please add \$161,000.00 to our Proposal price.

We have not included the cost of a Performance Bond in our pricing. If a 100% Performance Bond is required, the cost of such shall be computed at the following rates and added to our Proposal price:

First 100,000 @ 12.00/1,000 Next 2,400,000 @ 9.60/1,000 Next 2,500,000 @ 8.40/1,000

As we discussed in our telephone conversation of Monday, October 23, 1988, with the current nickel market being what it is, substantial cost savings might be realized should the Owner wish to consider alternate materials to Incomel 625 alloy. The material cost of the breeching duct alone has increased from approximately \$260,000.00 in 1985 to nearly \$420,000.00 today.

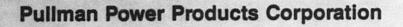
We appreciate this opportunity to provide you with our Proposal pricing and look forward to working with you on this project. Should you require any additional information, please do not hesitate to contact us. Our Proposal will remain open for your acceptance for ninety (90) days, after which time it may be extended or modified at the option of Pullman Power Products Corporation.

Very truly yours,

weein c. coo, J.

William C. Cobb, Jr. Contracts Engineer Concrete Construction

WCC/db



Concrete Construction Suite 230, Lakeside Piaza 1575 North Universal Avenue Kansas City, Missouri 64120-1377 Telephone (816) 231-7400 Fax (816) 241-5582 Telex 424237

April 17, 1989

Mr. Earl Windisch Black & Veatch, Engineers-Architects Post Office Box 8405 Kansas City, Missouri 64114

Reference: Orlando Utilities Commission

Stanton Energy Center - Unit No. 2

Orlando, Florida

Reinforced Concrete Brick Lined Chimney Pullman Power Products Corporation

Proposal No. P02488

Dear Mr. Windisch:

In response to your request we are pleased to offer terms for price adjustment for our Proposal. These terms have been successfully used by us for many projects.

We acknowledge that our proposal pricing is offered in a noncompetitive situation. In light of this we have made every attempt to offer pricing which is as lean as possible. We have not included any costs for engineering and drafting, other than that required to change drawing nomenclature from Unit #1 to Unit #2. We have also asked our subvendors to reflect the non-competion nature of this project in their pricing to us.

We look forward to working with the Orlando Utilities Commission and Black and Veatch again on Stanton Unit #2. Should you have additional questions please do not hesitate to contact us.

Very truly yours,

James L. Naylor, III

Regional Marketing Manager

JIN: ceb



PROPOSED PROCEDURE AND BASE PRICE INDEXES FOR PRICE ADJUSTMENT (FOR ESCALATION AND DE-ESCALATION)

The prices quoted are based on material costs and labor rates in effect during October 1988 and will be adjusted to reflect material costs and labor rates in effect at the time the work is performed using the following processes.

A. MATERIAL

For the purpose of calculating escalation of de-escalation, the prices quoted for Material are broken down as follows:

CATEGORY	INDEX ¹	PERCENTAGE OF SUPPLY (MATERIAL) PORTION OF CONTRACT PRICE	
Concrete	By Owner	N/A	
Brick & Mortar	BLS Code No. 1341 (Building Brick	\$523,000.00	
Electrical	BIS Code No. 117 (Electrical Machinery and Equipment)	396,000.00	
Rebar, Metals & All Other	BIS Code No. 10-1 (Iron and Steel)	934,000.00	
Inconel 625	Published Price/Pound for 1/4" Plate Material	405,000.00	
	TOTAL	\$2,258,000.00	

¹ Includes freight on Material



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Except for the Inconel 625 material, the value of Materials in each of the categories will be adjusted for escalation or de-escalation using the BIS Indexes above. Escalation or de-escalation will be calculated and invoiced monthly in each category of Material, by dividing the Index for the months the materials are delivered to the job site by the corresponding Index published for October 1988. The value of each monthly invoice for each category of Material will be adjusted by the resulting ratio.

The Incomel 625 material price will be adjusted for escalation or de-escalation by dividing the unit price per pound for the 1/4" Incomel 625 plate f.o.b. shipping point quoted by Huntington Alloys; for the month the material is delivered to the fabricator, by \$10.68 per pound. The value of each monthly invoice will be adjusted by the resulting ratio.

COMPOSITE CREW RATE BREAKDOWN - Chart I -

Hourly Rate ²	Fringe Benefits ³	Total Hourly Rate
Brick Layer \$14.92	\$2.25	\$17.17
Carpenter \$14.57	\$2.07	\$16.64
Cement Mason \$10.45	\$1.38	\$11.83
Laborer \$10.45	\$2.07	\$12.52
Iron Worker \$14.67	\$2.51	\$17.18
Operating Engineer \$12.36	\$2.55	\$14.91



Page 3

COMPOSITE CREW RATE EREAKDOWN - Chart II -

Category	Representative Craft	Wages ² &	Fringes ³	% Erection Portion of Cont. Price
Column, Pedestal & Conc. Flrs.	Carpenter Iron Worker Laborer	\$ 17.18/Hr	\$ 15.45/Hr	\$850,000.00
Brick Liner & Floors:	Brick Layer Cement Mason		\$ 14.50/Hr	\$697.000.00
Misc. Metal	Iron Worker	\$ 17.18/Hr	\$17.18/Hr	\$480,000.00
		TOTAL		\$2,027,000.00

Does not include premium for chimney work as specified by the International Agreement for Stacks-Chimneys-Silos, dated November 10, 1971 for Carpenters, Iron Workers and Laborers; and the International Agreement for Stacks-Chimneys-Silos, dated March 1, 1976 for Brick Layers. Pullman Power Products Corporation is signatory to both agreements.

Does not include the following statutory burdens: Federal Unemployment Insurance (F.U.I.); State Unemployment Insurance (S.U.I.); Social Security (FICA); Workmen's Compensation Insurance (W.C.I.); and Comprehensive General Liabilities Insurance (C.G.C.I.).



Page 4

The amounts shown in each of the above categories will be adjusted for escalation of de-escalation to reflect the craft wage rates, plus fringe benefits; published by the Local Unions having jurisdiction at the job site for the period erection is actually performed.

Escalation or de-escalation will be calculated and invoiced monthly by dividing the published hourly wage rates, plus fringe benefits, for the representatie crafts in each category listed above, by the hourly wage rates, plus fringe benefits, published for the representative crafts during October 1988. The value of each monthly invoice for each category of labor will be adjusted by the resulting ratio.

P. O. BOX 2548, DILLON RD., THOMASVILLE, GEORGIA 31799 (912) 228-9780 Panafax (912) 226-2718



May 29, 1989

Black & Veatch, Consulting Engineers 1500 Meadow Lake Parkway Kansas City, MO 64114

Attention: Mr. Earl C. Windisch

'RE: Orlando Utilities

Stanton Energy Center, Unit II

Dear Mr. Windisch:

Cives Steel Company is pleased to present its proposal to furnish the structural steel and associated miscellaneous items for the Stanton Energy Center, Unit II. As we have discussed, there are many advantages in replicating the Unit I project with Cives Steel Company as the structural steel supplier. In this proposal, we would like to review these advantages as we see them, suggest a method for arriving at a mutually agreeable contract price, and present cost estimates for several commercial operating dates.

This proposal anticipates furnishing the following buildings:

Boiler Building - 7,087 tons, replication of Unit I
Turbine Building - 1,528 tons, replication of Unit I
Control Building - 191 tons, replication of Unit I
Precipitator Structure - 756 tons, replication of Unit I
AOC Building - 2,980 tons, new design

The following documents are a part of this proposal:

- 1. Advantages of Replication and Negotiation.
- 2. Project schedule to meet May 1, 1995 commercial operating date.
- 3. Future Adjustment.
- 4. Original Contract Breakdown by Building for the Major and Auxiliary Facilities Contracts.



Mr. Earl C. Windisch

Page 2

May 29, 1989

- 5. Estimated contract value for each of the commercial operating dates for the applicable Major and Auxiliary Facilities structures.
- 6. Summary page for total cost for each of the three schedules.

Very truly yours,

CIVES STEEL COMPANY

RAYMOND A. PHILLIPS

President and General Manager

Southern Division

RAP:dtm Enclosures



ADVANTAGES OF REPLICATION AND NEGOTIATION

- 1. Cives Steel Company is one of the premier structural fabricators (see OVERVIEW attached) and our Thomasville facility is the closest qualified fabricating facility to the project site.
- Engineering and detailing savings range from \$810,000 for a May 1, 1995 COD, up to \$870,000 for a May 1, 1997 COD. Cives Steel Company will convert Unit I structural drawings to Unit II at no cost for the replicated structures.
- 3. Cives Steel Company, at no additional cost, will update existing shop drawings to include fieldwork caused by changes which were too late to perform in the shop, as well as drafting errors on the original project. This assures almost total elimination of detailing errors, resulting in minimum field problems and schedule assurance.
- 4. Cives Steel Company will guarantee that production capacity will be available at the time it is needed. We anticipate, as does Black & Veatch, that power plant construction will resume in earnest in the 90's. Fabricating space for this type of work will be in short supply due to the many fabricators that have gone out of business in the 1980's. Several of the bidders (including the original successful contractor) on the Major Facilities are no longer in business.
- 5. By utilizing existing detail drawings (updated per \$3 above), Black & Veatch will minimize or eliminate checking of shop drawings at significant savings.
- 6. Costs of procurement are eliminated. Solicitation, evaluation, and negotiation of a contract is expensive and time consuming. In the case of structural steel, this process can take weeks and accumulate significant costs depending on the number of quotations scheduled, a complexity of the bids, and the size of the contract.
- 7. Black & Veatch's experience with Cives indicates that minimal or no source inspection or expediting is required. In the past six years, we have brought the following projects to a successful conclusion with Black & Veatch:

Stanton Energy Center - Unit 1 - 20,000 tons
Sherborne County - Unit 3 - 18,000 tons
AES Thames Co-generation Plant - 5,000 tons
Mid Connecticut Resource Recovery - 3,500 tons

8. Our <u>Project Administration System</u> (see attached) has proven itself on Black & Veatch projects.



- 9. Our <u>Field Services</u> (see attached), including our own site representative, and block sequencing saves time and money.
- 10. Our Quality (see attached) means fewer problems and less cost in the field.
- 11. Cleaning and Painting Services (see attached) are unmatched.
- 12. All of the above result in significant cost savings to the owner which in our opinion could amount to 2 million dollars.



OVERVIEW

A WELL MANAGED COMPANY WITH A PROVEN TRACK RECORD

Cives Steel Company, a progressive, privately-owned company in the structural steel fabrication business, has an enviable record of growth and financial strength.

For the twelve months ended December 31, 1988, Cives had a yearly volume in excess of \$145,000,000 and a net worth in excess of \$35,000,000.

The ownership of Cives lies in the hands of about 300 stockholders. Almost 90% of these stockholders are present employees of Cives Steel Company and their families. We are committed to employee ownership, as we believe that this provides the maximum motivation and thereby assures high levels of performance for our clients and accordingly continued success for our company. When you meet a representative of Cives, you can be sure that you are talking to an owner and not simply a hired hand.

THE COMPANY IS OPERATED BY ITS DIVISIONS

Cives believes that our customers can best be served and our employees highly motivated by operating on a fully decentralized basis. Each operating division which makes up Cives is fully staffed with its own President. General Manager. Supervisory Management and Labor Force. Each division is run as a separate profit center, fully self-sufficient with absolute responsibility for its own successful performance. This provides a tremendously deep pool of experienced and capable managerial talent for Cives, while the autonomy results in a closely-knit group of people working to shape their own destiny. This leads to a well-run, on-the-spot, closely-controlled business operation.

CORPORATE HEADQUARTERS

The Cives Corporate headquarters in Atlanta, Georgia monitors and serves the operating divisions. Using the sales, legal, financial, engineering and other professional talent carefully selected to staff its Corporate headquarters, Cives combines the divisional strength into overall programs when a centralized approach is necessary. In addition, cash management, financing, insurance and legal affairs are handled on a Corporate basis. In all this, however, the exclusive goal of Corporate headquarters is to be of service to Cives' divisional operations.

CAPACITY

Cives Steel Company currently has a yearly capacity of approximately 900,000 man-hours. Our capacity related to tonnage is approximately 80,000 tons per year of structural steel and platework for all five operating divisions. Of our approximately 500 shop workers, more than 25% are A.W.S. qualified welders. One hundred percent of our shop work is inspected by our 20 Quality Control inspectors.



PROJECT ADMINISTRATION

OUR PROJECT CONTROL SYSTEM ASSURES CONTROL, SIMPLIFIES COMMUNICATION, MAKES EXPEDITING UNNECESSARY

The Project Control System is our method for managing and coordinating the areas of design, detailing, procurement, fabrication, erection, and quality assurance to achieve the desired result - your structural steel on time and in accordance with your specifications.

It is the philosophy of Cives Steel Company that each of the fabricating divisions assume total responsibility for its own operations. When a contract has been awarded, a project manager is selected from the staff of the division. He assumes total responsibility for the administration of all aspects of the project. In this way our project manager essentially becomes your sole contact, thereby avoiding the confusion and wasted time generated by your having to deal with several different departments within Cives Steel Company.

USING MORE THAN ONE PLANT

If a project requires the participation of two or more fabricating divisions, one of those divisions is selected as the responsible or lead division, and the final responsibility of the project rests with that lead division. The lead division designates a lead project manager. Southern Division in Thomasville, Georgia will be the lead division for the Stanton - Unit II project. In turn, each division assigns a project manager specifically responsible for the activities of that division. These division project managers will report, on the project basis, to the lead project manager at the lead division. Therefore, the lead project manager remains your sole contact. We hasten to point our however, that at no time does this sole contact project management philosophy preclude either you or the Owner from approaching the top management at Cives Steel Company should that be your choice.

PROCEEDING WITH THE PROJECT

The performance of the lead project manager will be monitored very closely by both the general management of the lead division and the headquarters staff. The lead project manager will monitor and expedite the design schedule. As the design is released for detailing, he will direct the preparation of a preplan, which includes the establishment of connection details, erection sequencing, and a thorough analysis and planning of the methods to be used in engineering, detailing, fabricating and erecting the project. The planning involves input from all departments of the division, including project management, production management, engineering, drafting, fabricating shop, quality control, and erection. The results of this planning will then be reviewed with the client.



Following the plan that has been put together and approved, detailing will then proceed. Again the project manager will have ultimate responsibility for monitoring and expediting the progress of the detailing in accordance with the pre-established schedule.

The project manager will also oversee the reservation of appropriate fibricating time in our fabrication schedules and the procurement of materials and subcontract items required for the project in a timely manner. The project manager will monitor the progress of the fabrication through the shop, especially with regard to conformance with both schedule and quality requirements, and will take appropriate actions to resolve problems in either area.

A progress chart will be submitted monthly to the appropriate personnel making expediting unnecessary.



FIELD SERVICES

BLOCK SEQUENCING MINIMIZES FIELD HANDLING, SIMPLIFIES SHIPPING CONTROL - SAVES TIME AND MONEY

During the planning stages of the job, meetings will be held with the appropriate personnel to establish an exection sequence for the project. The project will then be divided into exection blocks or sequences, each block consisting of a specific exectable area of the structure. All exection sequencing and shipping will be by block and each block is given a control number. As each piece is detailed, it is assigned a block number in accordance with its location in the structure and the piece continues to be identified not only with a piece mark, but with a block number. As the piece is fabricated, it is segregated in the shipping yard according to its block number. During shipping and exection, all control is by block number. The exector does not have to search for pieces to complete an area. They are all in the proper block. There are no mixups on shipping - all shipments are specified by block. Lastly, you get exectable sequences in order - not the p rlins first and columns last.

OUR SITE REPRESENTATIVE WILL SAVE YOUR FIELD PEOPLE TIME AND MONEY

In addition to the field staff provided by the erection contractor, Cives Steel Company will place a qualified Erection Representative on the jobsite, housed in our own temporary offices complete with all necessary drawings, specifications, etc. Cives' representative on the jobsite will have full authority to speak for Cives Steel Company and will be the Client's contact on the jobsite. In this capacity he will have authority to establish shipping schedules directly with the Owner and/or his designee and to resolve any problems involving structural steel during erection. He will be directly responsible to the lead Project Manager.



QUALITY

QUALITY MEANS FEWER PROBLEMS & LESS COST IN THE FIELD.

QUALITY MEANS REDUCED SOURCE INSPECTION COSTS

All fabrication is done in accordance with our Cives Steel Company Quality Assurance Program. This program meets the requirements for AISC Certification to Category II - Complex Structures. Currently our five plants retain that certification. A sample of this certificate follows. Each of our plants has a staff of inspectors to carry out the quality control requirements set forth in our program which include 100% inspection. Most are AWS Certified welding inspectors and many of them are certified to ASNT Criteria for Liquid Penetrant, Magnetic Particle, and Ultrasonic Weld Inspection. Likewise, our plants have, the necessary nondestructive inspection equipment to perform such tests, in-house.

Our track record bears out the benefits and relationship of quality and reduced cost.

We have included a sample of our "Quality Control Inspection Sheet" and "Dry Film Report" where we record the results of our paint inspection.

MERICAN INSTITUTE OF STEEL CONSTRUCTION INC.

This is to certify that

Cives Steel Co. Southern Div.

Thomasville, GA Plant

has the personnel, organization, experience, procedures knowledge, equipment, capability, and commitment to produce fabricated structural steel of the required quality for

Category I Conventional Steel Structures
Category II Complex Steel Structures

as set forth in the

M&C Quality Certification Program

Neil W. Zunder

8/50/91





QUALITY CONTROL INSPECTION SHEET

The listed items have been checked for and found to comply with specification requirements pertaining to:

A	Workma	nshio	after	burning
A SCHOOL SHEET	A RACK LINES AND	A POST STORY	80.504	Comments.

- B Dimensional accuracy after fitting
- C Welding conformance

WHERE APPLICABLE, ENTER DATE IN BOX

IF NOT APPLICABLE, WRITE "X" IN BOX

IF REQUIRED, ENTER REPAIR CODE NUMBER IN BOX

WHEN REPAIR COMPLETED, CIRCLE REPAIR CODE AND ENTER DATE

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CLEANING AND PAINTING SERVICES

QUALITY COATINGS ARE A MUST

Cives Steel Company is unique among American fabricators in the quality of its blasting and painting facilities.

All blasting is done on automatic, centrifugal, cleaning machines installed in each of our fabricating plants. No sand is used, nor is any blasting performed by hand.

Painting is done in modern facilities located in a self-contained building at the finished product end of each of the fabricating plants. Each paint facility consists of approximately 16,000 square feet of working floor space.

Each building is temperature controlled by either hot circulating air or infra red (radiant) heating units. Fully controlled ambient temperatures are maintained on an around-the-clock basis to ensure the proper environment for application of paint products per specifications.

Each paint facility is fully serviced by multiple overhead bridge cranes.

The lighting in all of the paint buildings has proven excellent for application of all paint systems.

Each paint facility has complete compressed air services built internally to operate the Grayco Airless painting equipment.

Cives Steel Company has recently completed fabricating many thousands of tons of structural steel and applying the various shop coating systems as listed below with excellent results:

- 1. Epoxy primer with an epoxy top coat(s).
- Organic zinc primer with epoxy top coat(s).
- 3. Inorganic zinc primer with epoxy top coat(s).
- 4. Epoxy primer only.
- 5. Inorganic zinc primer only.
- Organic zinc primer, epoxy intermediate coat and urethane top coat.

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ORLANDO UTILITIES

MAJOR AND AUXILIARY FACILITIES

FUTURE ADJUSTMENT

Adjusting the Orlando Utilities Major Facilities and Auxiliary Facilities contracts for the future will require that the labor and material portions of the contracts be adjusted for cost increases as they may occur. In addition, engineering and detailing for the replicated buildings will not be required and those costs should be deleted.

We believe that it is in the best interest of the Orlando Utilities Commission to adjust the contract based on actual cost increases for the material portions of the contract. We recommend this approach for the following reasons:

- 1. There are no published indices which accurately track the history (and presumably the future) of these items.
- Only actual cost increases plus markup no more/no less will be paid by Orlando Utilities Commission.
- 3. The items which we purchase including steel, bolts, paint have to be purchased by any fabricator performing the contract. Due to Cives Steel Company's size and its purchasing "clout" with the steel mills and vendors, we get the best pricing available for any particular commodity.
- 4. In steel alone, Cives Steel Company will buy approximately

 \$30,000,000 of steel from mills this year. This type of volume
 assures the absolute best pricing which we will pass on to Orlando
 Utilities Commission.
- 5. In all cases, we will take competitive bids, and all information will be reviewed with Black & Veatch prior to vendor selection to assure Black & Veatch and Orlando Utilities Commission that we are buying at the lowest overall cost.
- 6. The original cost for each of the purchased items will be taken from our cost records and, again, be available for Black & Veatch review to substantiate the cost basis.

The labor portion of the contract will be escalated in accordance with the BLS Index. We believe this index is in the best interest of Orlando Utilities Commission in that since we have direct control over our labor costs, an impartial index is more appropriate. If the Utilities Commission would feel more comfortable with actual labor increases, we would be happy to do it that way.



On the attached sheets titled "Original Contract Breakdown," we have broken down the original Major Facilities contract and the Auxiliary Facilities contract by building into specific cost areas (see Item I on these sheets). The following is a description of each Item I cost area, the cost basis, and our adjustment proposal:

- 1. The value of each building of each contract is established by the final contract invoice breakdowns as summarized in Item III.
- 2. The tonnage for each building is established by final bills of material from the detail drawings as summarized in Item II.
- 3. Engineering and drafting is summarized in Item V, and includes the following items distributed by building:
 - Engineering/drafting per Item B.1.1 of the base contract distributed by tonnage.
 - b. Extra drafting distributed by building per "KC" changes.
 - c. Drafting included in the unit price weight changes distributed by tonnage. The amount to be distributed is in the same proportion as in the base contract.
 - d. An estimated amount included in the Deck and Miscellaneous subcontracts.
- 4. The values for miscellaneous steel and decking are from final contract invoice and include administrative fee. Miscellaneous and decking for the new structures will be supplied on a cost reimbursable basis plus 5% administrative fee. Competitive bids will be secured with inquiries and evaluations approved by Black & Veatch.
- 5. Purchased material includes the following. In each case, the original value as determined by cost plus 5% will be documented to the satisfaction of Black & Veatch. The new value will be the new cost plus 5% with the difference being the adjustment to the contract.
 - a. The cost of bolts by building in the original contract will be determined by field bolt procurement lists and the unit prices in the original bolt purchase orders. The amount to be included for bolts in the new structures will be based on a competitively bid purchase order in the same format. The new bolt unit prices will be used with the original bolt lists to determine the new cost for bolts.



- b. Paint will be adjusted as follows. Our cost records show that paint costs for the Major Facilities averaged \$19.32/ton and for the Auxiliary Facilities \$27.47/ton. The amount allocated for the new buildings will be proportionately increased in accordance with the difference in the purchased cost per gallon of paint. The cost for paint will be documented by purchase orders.
- c. The average price per ton of tubing for the Major Facilities was \$564.40 and the Auxiliary Facilities was \$482.56. This price will be increased in proportion to the increase in unit prices as documented by purchase orders.
- d. The average price per ton of steel in the Major and Auxiliary Facilities was approximately \$436.00. These costs can be documented by cost record. A breakdown based on Bethlehem Steel pricing is as follows:

	Major	Auxiliary
	<u>Facilities</u>	<u>Facilities</u>
Base	\$23.90/CWT	\$22.90/CWT
Grade	\$ 2.40/CWT	\$ 2.40/CWT
Section	\$ 2.65/CWT	\$ 2.65/CWT
Cutting	\$ 1.00/CWT	\$ 1.00/CWT
Total	\$29.95/CWT	\$28.95/CWT
Discount	\$ <u>8.15/CWT</u>	\$ 7.15/CWT
Actual Cost	\$21.80/CWT	\$21.80/CWT

The increase in steel cost will be based on the change in published prices plus discount. This amount will be applied to the steel tonnage by building. We will provide sufficient documentation that the discount (if any) at that time is the best available to assure Black & Veatch that they are getting the lowest available cost. For example, current costs are approximately:

Current

	- Current
Base	\$24.90/CWT
Grade	\$ 2.40/CWT
Section	\$ 2.70/CWT
Cutting	\$ 1.00/CWT
Total	\$31.00/CWT
Discount	\$ 3.75/CWT
Actual Cost	\$27.25/CWT

\$ 5.45/CWT- would be the increase in cost.



e. Freight cost will be documented by cost record and invoice.
Average prices per cost record are as follows:

Major Facilities Auxiliary Facilities

Inbound Freight \$35.47/Ton \$35.62/Ton Outboard Freight \$39.52/Ton \$37.05/Ton

Increase will be based on the increase in standard length rate for 40,000 pounds.

The amount remaining after deleting engineering, drafting, miscellaneous, deck and purchased items is associated with labor and this amount will be escalated utilizing data published by the U.S. Department of Labor, Bureau of Labor Statistics, SIC Code 3441, Fabricated Structured Metal.

TOTAL VALUE

ORLANDO UTILITIES - MAJOR FACILITIES ORIGINAL CONTRACT BREAKDOWN

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TUBE TOTAL TONS 9685.3 7087.1 1528.4 382.5 6 ITEM III - VALUE BY BUILDING PER FINAL INVOICE BASE CONTRACT 10830000 7812000 1849000 356000 81 CO #2 ADDS 963445 816257 74165 47399 82 CO #2 CREDITS -50248 -36768 -7929 -1985 -20248 43480 43480 TOTAL CO #2 & #3 956677 822969 66236 45414 83 TOTAL CONTRACT 11786677 8634969 1915236 401414 83 ITEM IV - BREAKDOWN OF CONTRACT ADDS (CO #2 & CO #3) EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 SCOPE CHANGES UNIT PRICE WEIGHT CHANGES 910573 789233 58960 43593 101414 83 ITEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING ITEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 MISC - PER VENDOR 31100 24600 3100 1000 DECK - PER VENDOR 16400 4800 4700 1600						
TOTAL TONS 7883.3 7007.1 TOUS TITEM III - VALUE BY BUILDING PER FINAL INVOICE BASE CONTRACT CO #2 ADDS 763445 816257 74165 47399 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	TUBE					
ITEM III - VALUE BY BUILDING PER FINAL INVOICE BASE CONTRACT 10830000 7812000 1849000 356000 81 CO #2 ADDS 963445 816257 74165 47399 82 CO #2 CREDITS -50248 -36768 -7929 -1985 - 43480 43480 TOTAL CO #2 & #3 TOTAL CO #2 & #3 TOTAL CONTRACT 11786677 822969 66236 45414 83 TOTAL CONTRACT 11786677 8634969 1915236 401414 83 ITEM IV - BREAKDOWN OF CONTRACT ADDS (CO #2 & CO #3) EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 SCOPE CHANGES 16249 11890 2564 642 UNIT PRICE WEIGHT CHANGES 910573 789233 58960 43593 10000 UNIT PRICE WEIGHT CHANGES 910573 789233 58960 45414 83 ITEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING ITEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 MISC - PER VENDOR 31100 24600 3100 1000 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 HILT RULE CHANGES - PERPORTIONED 40836 29881 6444 1613	TOTAL TONS	9685.3				
### BASE CONTRACT ### CO #2 ADDS ### CO #2 CREDITS ### CO #2 CREDITS ### CO #3	*************************			1849000	356000	813000
CO #2 ADDS CO #2 CREDITS CO #3						
CO #2 CREDITS CO #3 TOTAL CO #2 & #3 TOTAL CO #2 & #3 TOTAL CONTRACT 11786677 822969 66236 45414 83 ITEM IV - BREAKDOWN OF CONTRACT ADDS (CO #2 & CO #3) EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 SCOPE CHANGES UNIT PRICE WEIGHT CHANGES 705677 822969 66236 45414 83 ITEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING BASE BID - PER BID FORM EXTRA DRAFT - PER KC'S 910573 789233 58960 43593 17014 17						
TOTAL CD #2 & #3 TOTAL CONTRACT 11786677 8634969 1915236 45414 83 ITEM IV - BREAKDOWN OF CONTRACT ADDS (CO #2 & CO #3) EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 SCOPE CHANGES UNIT PRICE WEIGHT CHANGES TOTAL CO #2 & #3 P56677 822969 66236 45414 83 ITEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING BASE BID - PER BID FORM 485690 355397 76645 19183 33 EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 MISC - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600						
TOTAL CO #2 & #3 TOTAL CONTRACT 11786677 8634969 1915236 401414 83 ITEM IV - BREAKDOWN OF CONTRACT ADDS (CO #2 & CO #3) EXTRA DRAFT - PER KC'S \$29855 21846 4711 1179 SCOPE CHANGES 16249 11890 2564 642 UNIT PRICE WEIGHT CHANGES 710573 789233 58960 43593 TOTAL CO #2 & #3 956677 822969 66236 45414 83 ITEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING BASE BID - PER BID FORM 485690 355397 76645 19183 3 EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 MISC - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600					45414	22058
ITEM IV - BREAKDOWN OF CONTRACT ADDS (CO #2 & CO #3) EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 SCOPE CHANGES 16249 11890 2564 642 UNIT PRICE WEIGHT CHANGES 910573 789233 58960 43593 1000 TOTAL CO #2 & #3 956677 822969 66236 45414 83 ITEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING BASE BID - PER BID FORM 485690 355397 76645 19183 3 EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 MISC - PER VENDOR 31100 24600 3100 1000 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600						
EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 SCOPE CHANGES 16249 11890 2564 642 UNIT PRICE WEIGHT CHANGES 910573 789233 58960 43593 TOTAL CO #2 & #3 956677 822969 66236 45414 8 ITEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING BASE BID - PER BID FORM 485690 355397 76645 19183 3 EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 MISC - PER VENDOR 31100 24600 3100 1000 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4800 4700 1600	TOTAL CONTRACT	11700077	=======			
EXTRA DRAFT - PER KC'S SCOPE CHANGES UNIT PRICE WEIGHT CHANGES TOTAL CO #2 & #3 FINAL CO #2 FINAL CO #2 & #3 FINAL CO #2 & #3 FINAL CO #2 FINAL CO #	ITEM IV - BREAKDOWN OF CONTRACT AD	DS (CO #8	& CO #3	3)		
SCOPE CHANGES UNIT PRICE WEIGHT CHANGES TOTAL CO #2 & #3 P56677 822969 66236 45414 ITEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING BASE BID - PER BID FORM EXTRA DRAFT - PER KC'S MISC - PER VENDOR DECK - PER VENDOR 16400 4800 4700 1600 PRILE BRICE CHANGES - PROPORTIONED 40836 29881 6444 1613	PRACE PER VEIC	29855	21846	471	1 11/9	511
TOTAL CO #2 & #3	CODE CHANGES	16249	11890	2564	4 642	115
TOTAL CO #2 & #3	UNIT DOICE WEIGHT CHANGES	910573	789233	58960	0 43593	1878
ITEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING BASE BID - PER BID FORM . 485690 355397 76645 19183 3 EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 MISC - PER VENDOR 31100 24600 3100 1000 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 16400 4900 4700 1600 THAT BRICE CHANGES - PROPORTIONED 40836 29881 6444 1613	TOTAL CO 40 + 40	956677	822969	66236	5 45414	5502
BASE BID - PER BID FORM . 485690 355397 76645 19183 3 EXTRA DRAFT - PER KC'S 29855 21846 4711 1179 MISC - PER VENDOR 31100 24600 3100 1000 DECK - PER VENDOR 16400 4800 4700 1600 DECK - PER VENDOR 40836 29881 6444 1613	=======================================					======
BASE BID - PER BID FORM . 485690 355397 76645 17163 27	ITEM V - DETERMINE TOTAL VALUE OF	ENGINEERI	NG & DRA	AFTING		
BASE BID - PER BID FORM EXTRA DRAFT - PER KC'S MISC - PER VENDOR DECK - PER VENDOR 16400 4800 4700 1600 16400 4800 4700 1600 16400 4800 4700 1613		495490	355397	7664	5 19183	3446
MISC - PER VENDOR 31100 24600 3100 1000 DECK - PER VENDOR 16400 4800 4700 1600 ANIT PRICE CHANGES - PROPORTIONED 40836 29881 6444 1613	Bude are in an in	2005	2184	471	1 1179	211
DECK - PER VENDOR 16400 4800 4700 1600 1801 1801 1801 1801 1801 1801 18	EXTRA DRAFT - PER KC'S	21100	24400	3100	1000	240
DECK - PER VENDOR - PROPORTIONED 40836 29881 6444 1613		14400	4800	470	0 1600	530
INIT PRICE CHANGES - PRUPUKITURED 40030 C7001	DECK - PER VENDUR	40934	2000	644	4 1613	289
TOTAL VALUE 603881 436524 95601 24575	UNIT PRICE CHANGES - PROPORTIONED	40030	42452	9540	1 24575	4718

29-May-89

EXTRA DRAFT

BANK QTY

TOTAL

26351

-127383

13452080

11706

811115 3611477

52537

ORLANDO UTILITIES - AUXILIARY FACILITIES ORIGINAL CONTRACT BREAKDOWN ****************************

ITEM 1 - CONTRACT BREAKDOWN	TOTAL	PRECIP	AOC	LIME	HATER HGT	CRUSHER	SLUDGE	CC UNLOAD	YARD	COAL TRANS	SMALL BLDGS	PIPE	CDNV	TRANS TOWER	LATE	HORK DRDERS
TOTAL CONTRACT PER ITEM III	13452080	011115	3611477			552093	1964339		335859		1265174	151650	3063039	7480	0	46281
TOTAL TONS PER ITEM II	10238.6	756.2	2980.4	0.0	374.2	444.8	1638.9	235.7	91.8	663.4	618.5	51.9	2343.9	0.0	0.0	38.7
MARKUP	640766	47834	168367	-7513	20395	24009	96610	14622	6848	38997	73645	9883	139107	0	0	3142
ENGINEER & DRAFT PER ITEM V	478891	14920	90746	0			36756	32519	6970	60966	40947	0	125500	0	0	0
HISC - PER FINAL INV. INC	THE RESERVE OF THE PERSON OF T	135	90123	ŏ	26197		21427	7174	9518	55000	4995	0	35000	0	0	0
DECK - PER FINAL INV. INC	241866		TOTES	ő	GOLDON GEOLOGIC	ONE CHIEF TO A CO.	544		0	0	149527	0	0	0	0	0
OPPER - PER FINAL INV. INC	404188	0		ő	HISTORIAN.	o	104140	0	0	0	154065	0	0	0	0	0
ILO - PER FINAL INV. INC	258205	0	. 0		, v	. 0	0		6000	0	0	0	0	0	0	0
DIST - PER FINAL INV. INC	6000	0.	BOTO CONTRACTOR OF THE PARTY	, o	125204	E TO LOCK	576058	77428	The Part of the Control of the Part	236372	249360	22300	975188	0	0	17665
TEEL - ACT COST 432.50 /TN 5.00%	3917509	358453	1129772	Distribution of the	125384	CONTRACTOR OF THE OWNER.	175163	OF THE STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,	15403	95880	34860	0	66224	0	0	0
UBE - ACT COST 482.56 /TN 5.00%	720109	9779	225680	0	CONTRACTOR OF THE PARTY OF		43418	5836	2064	17816	18794	1687	73501	0	0	1331
AINT - ACT COST 27.47 /TN 5.00%	295266	24791	85152	0		.11425		ALCOHOLOGY CONTRACTOR	2193	A STATE OF THE PARTY OF THE PAR	19967	1793	78086	0	0	1415
OLTS - ACT COST 29.18 /TN 5.00%		59338	90464	0	DOMESTICAL PROPERTY.		46127		3392	24110	23111	1844	85206	o	0	1455
B FRT - ACT COST 35.62 /TN 5.00%		27812	109709	0	Service and the service of the servi		60375	Section Section (Section)			CONTRACTOR OF THE PROPERTY OF			0	0	1485
B FRT - ACT COSJ 37.05 /TN 5.00%		28870	113784	0			62571	8999	3506	25326	23613	STATE OF THE PARTY AND THE	1395739	7480	ň	19787
LABOR (REMAINDER)	5408896	301712	1507680	7513	107309	193341	741151		250582							STATE OF THE PARTY
ITEM II - FINAL WEIGHTS STEEL BOLTS TUBE TOTAL TONS	8626.5 190.9 1421.2	724.30 12.60 19.30	2487.80 47.15 445.40	0.00	5.07 93.00	9.91 9.91 0 101.10	1268.50 24.72 345.70 1638.92	170.50 2.50 62.70 235.70	60.30 1.13 30.40 91.83	520.50 18.75 124.10 663.35	549.10 0.59 68.80 618.49	2.62 0.00 51.92	65.82 130.70 2343.92	0.00 0.00 0.00	0.00	0.00
ITEM III - VALUE BY BUILDING PER F	NAL INVOIC	E														
BASE CONTRACT	12640000	770500		and the second	39050	watching and taken that con-	1774500	CARLO CONTRACTOR CONTRACTOR	227500		338000		3026500		676000	
CO #1	-35520	-1259	-4326	(-480	and the second		-20296			-955					
CO #5	28521	0	0	() (0 0) (0	0) () 0	0		, 50351
CO #3															Will street	
KC 1-12	39444	459	16541	-183565	-3303	4 181	4495	MODELLY OF SAME STREET, SAME	250000000000000000000000000000000000000		78994		ACTION TO THE REAL PROPERTY AND ADDRESS.			A Charles Branchise
EXTRA DRAFT	15756	1323	4544		50	4 610	531.	7 311	110	951	1003	90	3928	. 0		7
CO 44																
KC 13-19	713622	26174	22582		391	16121	24830	-16688	1369	6841	599407					Child Sandar-s
		in the second of			A THE RESERVE		THE ARMS	0 () (0	1	151289	9 () 0		
KC 50	151289	0	0	A STATE OF THE PARTY OF THE PAR	0	0 0	TANK CHARLE	0 (,	, ,	AL YESSETT BEST	, 12150	6560			11

-935 34303 16742 116056 26551 30787

9832

0 396555 552093 1964339 507924 335859 739094 1265174 151650 3063039

29-May-89

ORLANDO UTILITIES - AUXILIARY FACILITIES ORIGINAL CONTRACT BREAKDOWN

COAL SMALL PIPE LATE LIME WATER BLDGS BRIDGE TOMER STEEL ORDERS MGT CRUSHER SLUDGE UNLOAD YARD UNLOAD TEM IV - BREAKDOWN OF CONTRACT ADD TOTAL PRECIP XTRA DRAFT - PER KC'S 7497 11047 COPE CHANGES 847850 151289 17891 105123 -189930 NIT PRICE WEIGHT CHANGES -955 -3734 -905 -6999 -1259 -4326 -480 -580 -5509 D #1 & #2 5924 108359 927174 151650 99477 -184500 OTAL CO TEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING IASE BID - PER BID FORM XTRA DRAFT - PER KC'S IISC - PER VENDOR ECK - PER VENDOR INIT PRICE CHANGES - PROPORTIONED -7513 20395

ORLANDO UTILITIES - MAJOR FACILITIES ESTIMATED CONTRACT VALUE

ESTIMATED CONTRACT VALUE - CO DATE - 01-May-95

WEIGHTS	TOTAL		TURBINE	CONTROL
STEEL	7751.0		1385.0	
BOLTS	139.7	119.9	17.1	2.7
TUBE	916.1	773.9	126.3	15.9
TOTAL TONS	8806.7	7087.1	1528.4	191.3

MARKUP	TOTAL	BOILER	TURBINE	CONTROL
1	0750911	8634969	1915236	200707
	201433	161514	35372	4546
5.00%	259714	219401	35806	4508
5.00%	1627700	1300593	290850	36257
5.00%	71462	57508	12402	1552
5.00%	105899	85220	18379	2300
5.00%	64589	51977	11209	1403
5.00%	143925	115821	24978	3126
0.00%	-81662	-65479	-14340	-1843
0.00%	130530	59305	59950	11275
	1265812	1034259	221892	9661
	14540314	11655088	2611734	273491
	-745846	-598038	-130973	-16834
	13794468	11057050	2480761	256657
	5.00% 5.00% 5.00% 5.00% 5.00% 0.00% 0.00%	10750911 201433 5.00% 259714 5.00% 1627700 5.00% 71462 5.00% 105899 5.00% 64589 5.00% 143925 0.00% -81662 0.00% 130530 1265812 14540314	10750911 8634969 201433 161514 5.00% 259714 219401 5.00% 1627700 1300593 5.00% 71462 57508 5.00% 105899 85220 5.00% 64589 51977 5.00% 143925 115821 0.00% -81662 -65479 0.00% 130530 59305 1265812 1034259 14540314 11655088	10750911 8634969 1915236 201433 161514 35372 5.00% 259714 219401 35806 5.00% 1627700 1300593 290850 5.00% 71462 57508 12402 5.00% 105899 85220 18379 5.00% 64589 51977 11209 5.00% 143925 115821 24978 0.00% -81662 -65479 -14340 0.00% 130530 59305 59950 1265812 1034259 221892 14540314 11655088 2611734

29-May-89 ORLANDO UTILITIES - AUXILIARY FACILITIES ESTIMATED CONTRACT VALUE

ESTIMATED CONTRAC	T VALUE CO	DATE -		01-May-95	
WEIGHTS			TOTAL	PRECIP	AQC
STEEL			3212.1	724.30	
BOLTS			59.8	12.60	47.15
TUBE			464.7	19.30	445.40
TOTAL TONS			3736.6	756.20	2980.35
INCREAS		MARKUP			
ORIG VALUE PER FI			4422592	811115	3611477
ENGR & DRAFT	37.00%		79994	17699	62296
TUBE ESCAL	305 /TN	5.00%	148820	6181	142639
STEEL ESCAL	205 /TN	5.00%	691405	155906	535499
PAINT ESCAL	30.00%	5.00%	32983	7437	25546
BOLT ESCAL	40.00%	5.00%	46721	10535	36186
IB FRT ESCAL	20.00%	5.00%	27504	5562	21942
OB FRT ESCAL	30.00%	5.00%	42796	8661	34135
MISC ESCAL	25.00%	5.00%	27737	3917	23821
DECKING ESCAL	50.00%	5.00%	47385	71	47314
LABOR ESCAL .	30.00%		542818	90514	452304
EST CONTRACT VALUE	E		6110756	1117597	4993159
LESS ENGR & DRAFT	SAVINGS		-65533	-65533	0
REPLICATED CONTRA	CT VALUE		6045223	1052064	4993159

ORLANDO UTILITIES - MAJOR FACILITIES ESTIMATED CONTRACT VALUE

ESTIMATED	CONTRACT	VALUE	- CO DATE -	01-May-96
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WEIGHTS			TOTAL	BOILER	TURBINE	CONTROL
STEEL BOLTS TUBE TOTAL TONS			7751.0 139.7 916.1 8806.7	6193.3 119.9 773.9 7087.1	1385.0 17.1 126.3 1528.4	172.7 2.7 15.9
SEESESSEES			=======	7007.1	1328.4	171.5
	INCREASE	MARKUP	TOTAL	BOILER	TURBINE	CONTROL
ORIG VALUE P	ER FINAL INV		10750911	8634969	1915236	200707
ENGR & DRAFT	42.00%		228653	183340	40152	5161
TUBE ESCAL	305.00 /TN	5.00%	293381	247841	40448	5092
STEEL ESCAL	235.00 /TN	5.00%	1912547	1528197	341749	42601
PAINT ESCAL	45.00%	5.00%	80395	64696	13952	1746
BOLT ESCAL	55.00%	5.00%	116489	93742	20217	2530
IB FRT ESCAL	25.00%	5.00%	80736	64971	14012	1753
OB FRT ESCAL		5.00%	161916	130299	28100	3517
MISC	-10.00%	0.00%	-54441	-43652	-9560	-1229
DECKING	60.00%	0.00%	142397	64697	65400	12300
LABOR ESCAL	35.00%		1476781	1206636	258874	11271
EST CONTRACT			15189765	12175736	2728579	285449

REPLICATED CONTACT VALUE 14416698 11555871 2592826 268001

LESS ENGR & DRAFT SAVINGS -773066 -619865 -135753 -17449

29-May-89 ORLANDO UTILITIES - AUXILIARY FACILITIES ESTIMATED CONTRACT VALUE

ESTIMATED CONTRACT	VALUE - CO	DATE -		01-May-96	
WEIGHTS			TOTAL	PRECIP	AQC
STEEL			3212.1	724.30	2487.80
BOLTS			59.8	12.60	47.15
TUBE			464.7	19.30	445.40
TOTAL TONS			3736.6	756.20	
INCREASE		MARKUP			
ORIG VALUE PER FINA			4422592	811115	3611477
ENGR & DRAFT	42.00%		90805	20090	70714
TUBE ESCAL	345 /TN	5.00%	168338	6991	161346
STEEL ESCAL	240 /TN		809449	182524	626926
PAINT ESCAL	35.00%	5.00%	38480	8677	29803
BOLT ESCAL	45.00%	5.00%	52561	11852	40709
IB FRT ESCAL	25.00%		34380	6953	27427
OB FRT ESCAL	35.00%	5.00%	49929	10105	39825
MISC ESCAL	30.00%	5.00%	33285	4700	28585
DECKING ESCAL	55.00%	5.00%	52124	78	52046
LABOR ESCAL	35.00%		633287	105599	527688
EST CONTRACT VALUE	JJ.Com		6385230	1168684	5216546
LESS ENGR & DRAFT S	SAVINGS		-67925	-67925	0
REPLICATED CONTRACT	VALUE		6317305	1100759	5216546

ORLANDO UTILITIES - MAJOR FACILITIES ESTIMATED CONTRACT VALUE

ESTIMATED CONTRACT VALUE - CO DATE - 01-May-97

WEIGHTS			TOTAL	BOILER	TURBINE	CONTROL
STEEL			7751.0	6193.3	1385.0	172.7
BOLTS			139.7	119.9	17.1	2.7
TUBE			916.1	773.9	126.3	15.9
TOTAL TONS			8806.7	7087.1	1528.4	
***********		=======				
	INCREASE	MARKUP	TOTAL	BOILER		CONTROL
	PER FINAL INV		10750911	8634969	1915236	200707
ENGR & DRAFT			255874	205166	44932	5775
TUBE ESCAL	350.00 /TN	5.00%		284408	46415	5843
STEEL ESCAL	270.00 /TN	5.00%		1755801	392648	48946
PAINT ESCAL	50.00%	5.00%		71885	15503	1940
	60.00%	5.00%		102264	22054	2760
BOLT ESCAL		5.00%			16814	2104
		5.00%		144777	31223	
OB FRT ESCAL	-5.00%	0.00%		-21826	-4780	-614
MISC	65.00%	0.00%		70088	70850	13325
DECKING	40.00%	0.00%	1687749	1379012	295856	12881
LABOR ESCAL EST CONTRAC			15848835	12704509	2846751	297575
LESS ENGR &	DRAFT SAVING	s	-800287	-641691	-140533	-18063
REPLICATED	CONTACT VALUE		15048548	12062818		

29-May-89 ORLANDO UTILITIES - AUXILIARY FACILITIES ESTIMATED CONTRACT VALUE

ESTIMATED CONTRACT VALUE - CO DATE - 01-May-97

12202222222	
	.========
724.30	2487.80
12.60	47.15
7 19.30	445.40
5 756.20	2980.35
	12.60

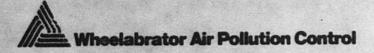
INCREASE		MARKUP			
ORIG VALUE PER FIN	AL INVOICE		4422592	811115	3611477
ENGR & DRAFT	47.00%		101615	22482	79133
TUBE ESCAL	385 /T	N 5.00%	187855	7802	180053
STEEL ESCAL	275 /T	N 5.00%	927494	209142	718352
PAINT ESCAL	40.00%	5.00%	43977	9916	34061
BOLT ESCAL	50.00%	5.00%	58401	13169	45232
IB FRT ESCAL	30.00%	5.00%	41256	8344	32913
OB FRT ESCAL	40.00%	5.00%	57062	11548	45514
MISC ESCAL	35.00%	5.00%	38832	5483	33349
DECKING ESCAL	60.00%	5.00%	56862	85	56777
LABOR ESCAL	40.00%		723757	120685	603072
EST CONTRACT VALUE			6659704	1219771	5439933
LESS ENGR & DRAFT	-70316	-70316	0		
REPLICATED CONTRAC	CT VALUE		6589387	1149455	5439933
			========		

ORLANDO UTILITIES

STANTON ENERGY CENTER - UNIT II

COST SUMMARY

	COMMERCIAL OPERATING DATE MAY 1, 1995			OPERATING DATE	COMMERCIAL OPERATING DATE HAY 1, 1997		
BUILDING	COST	ENGINEERING & DETAILING SAVINGS	COST	ENGINEERING & DETAILING SAVINGS	COST	ENGINEERING & DETAILING SAVINGS	
BOILER	-\$11,057,050	\$598,038	\$11,555,871	\$619,865	\$12,062,818	\$641,691	
TURBINE	\$ 2,480,761	\$130,973	\$ 2,592,826	\$135,753	\$ 2,706,218	\$140,533	
CONTROL	\$ 256,657	\$ 16,834	\$ 268,001	\$ 17,449	\$ 279,512	\$ 18,063	
PRECIPITATOR	\$ 1,052,064	\$ 65,533	\$ 1,100,759	\$ 67,925	\$ 1,149,455	\$ 70,316	
AQC	\$ 4,993,159	<u>-</u>	\$ 5,216,546	115 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	\$ 5,439,933	-	
POTAL	\$19,839,691	\$811,378	\$20,734,003	\$840,992	\$21,637,936	\$870,603	



441 Smithfield Street Pittsburgh, Pennsylvania 15222 Telephone 412-562-7300

Paul J. Feira President

October 24, 1988.

Black & Veatch Consulting Engineers P.O. Box 8405 Kansas City, Missouri 64114

Attention: Mr. E. Windisch

Subject: Electrostatic Precipitator For Orlando Utilities Commission

Gentlemen:

In accordance with your request Wheelabrator has repriced a precipitator identical to the precipitator previously provided at the Orlando jobsite. A present day budget price for this precipitator (material and freight) would be \$9,800,000. This is based on present date costs and would be escalatable. This price represents a savings of approximately \$400,000 to \$450,000 as a result of reductions in engineering and other administrative costs.

Based on increases in equipment prices from our suppliers in the last 7 years we would estimate that the price increases in the future would be approximately 4 to 5% a year. This estimate of course would change based on actual economic conditions.

Wheelabrator is looking forward to working with Black & Veatch and Orlando on this or any other project. We trust that the information provided will be adequate for your needs; however, if you should require any additional information or clarification, please contact Mr. Bill Kissick at 913/381-6311.

Very truly yours,

Saul Feira

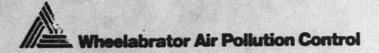
Paul J. Feira

cc: W. Kissick

J. Campbell

R. McBride

S. Seetharama



441 Smithfield Street Pittsburgh, Pennsylvania 15222 Telephone 412-562-7300

Paul J. Feira President

June 6, 1989

Black & Veatch Consulting Engineers P.O. Box 8405 Kansas City, Missouri 64114

Attention: Mr. E. Windisch

Subject: Electrostatic Precipitator for

Orlando Utilities Commission

Gentlemen:

To supplement our April 26, 1989 letter on the subject project, we have prepared an escalatable erection price for your review and consideration. This erection price is subject to terms and conditions in the original Unit 1 contract plus the attached escalation provisions. Both the equipment and erection prices quoted are valid for acceptance until September 1, 1989 at which time they are subject to requotation.

The escalatable erection price is as follows:

- a) Erection Material Price = \$1,322,400.
- b) Erection Labor Price = 6,472,500. TOTAL Erection Price = \$7,794,900.

If you require any additional information or clarification, please contact Mr. Bill Kissick at 913/381-6311.

Very truly yours,

Paul Feira / 55 C

CC: B. Kissick

jpg/bkRCLC

ORLANDO UTILITIES STANTON UNIT 2

ERECTION ESCALATION PROVISIONS

Erection Price Adjustment

- The "Erection Price" is composed of two escalatable components: an "Erection Material Price" and an "Erection Labor Price".
- The "Erection Material Price" will be adjusted using the Equipment Price adjustment provisions contained in Article GC.30.5 of Contract OUC 8927 with the Base Month changed from September 1981 to April 1989.
- 3. The "Erection Labor Price" will be adjusted using the following procedure:
 - a) The "Base Erection Index" shall be \$22.089 (excludes workmen's compensation).
 - b) The "Final Erection Index" shall be the craft rate (including fringes, payroll taxes and insurance) in effect for boilermakers during the month the work is performed.
 - The percentage change between the Base Erection Index and Final Erection Index for the month(s) in which regular invoices are rendered, per the Terms of Payment, will be determined and applied proportionately to the Erection Labor Price being billed for that month. The resultant adjustment will be billed by Contractor to Customer's account monthly by separate and detailed invoices.
- 4. Escalation adjustments shall be calculated to the nearest one-tenth of one percent.

jpg/bkRCLC

THE MARLEY COOLING TOWER COMPANY

9401 Nall - Suite 102/Shawnee Mission, Kansas 66207/(913) 642-9221/FAX (913) 642-3938

May 22, 1989

Black & Veatch Engineers/Architects P.O. Box 8405 Kansas City, Missouri 64114

Attention: Mr. Earl Windisch

Reference: Orlando Utilities Commission Unit No. 2 Cooling Tower

Dear Sir:

At your request, we have closely reviewed our Unit #1 cooling tower project with the thought of duplicating it for Unit #2. We Tooked at both escalating the original contract and building up a price utilizing current day material quotations. We found these two approaches to be very comparable.

We would propose to accept an order at a current day price based on escalating the original contract utilizing the escalation procedures outlined in the contract. That price would be a complete tower installed, and allowing credit for the engineering work that has already been done. This current number is \$13,525,000.00.

As previously stated, this was very close to a current buildup price with the major share of the engineering deleted.

Using that price as a base for May 1989, we would accept a contract utilizing the same escalation procedures and contingencies as outlined in the Unit #1 contract. We would accept this order on the basis of no cancellation charges being in effect until after we were released for final engineering details and/or procurement of materials. We would be in a position to provide outline drawings on the tower without invoking a cancellation clause.

the COOLING TOWER company

For your information, we would estimate a time frame of approximately two years to complete construction of this tower after we were released for final engineering and procurement.

I hope that this provides the information you need for your current report but if we can be of any further assistance, please let me know.

Very truly yours,

THE MARLEY COOLING TOWER COMPANY

Robert E. Hahn

Regional Manager



Westinghouse Electric Corporation Box 2958 Shawnee Mission Kansas 66201

May 22, 1989

Mr. Earl C. Windisch Partner/Project Manager Black & Veatch, Consulting Engrs P. O. Box 8405 Kansas City, Missouri 64114

> Subject: Orlando Utilities Commission Stanton #2 Turbine-Generator

Dear Earl:

As a result of our recent conversations, Westinghouse Electric Corporation is pleased to offer to Orlando Utilities Commission a 425 MW Steam Turbine Generator consisting of:

- One (1) 425,000 KW Tandem compound, two cylinder, two flow exhaust condensing, reheat type, 3,600 RPM Steam Turbine with design steam conditions of 2400 PSIG, 1000F, at the throttle, reheating to 1000F, 3.0" HgA at the exhaust with eight stages of feedwater heating.
- One (1) 516,200 KVA, 0.9 P-F when operating at 60 PSIG hydrogen pressure, 3,600 RPM, .585CR, 24,000 volts, 3 phase, 60 hertz hydrogen inner-cooled Generator.
- One (1) Brushless Excitation System consisting of a permanent magnet pilot exciter, an A-C exciter, and a diode and fuse wheel connected to a generator shaft.
- One (1) Digital electro hydraulic control system
- One (1) Type WTA solid state voltage regulator including associated excitation cubicles
- One (1) Set of accessories duplicate of those supplied with the Stanton #1 Turbine Generator including but not limited to special enclosure, ASME test, AI diagnostics, AI simulator, EH fluid fill, lube oil fill, supervisory instrumentation, spare parts, and special tools.

Technical Field Assistance for installation (installation by others)

Mr. Earl C. Windisch Black & Veatch, Consulting Engrs May 22, 1989 Page Two (2)

The price for the above described Steam Turbine Generator is \$32,000,000.00 and subject to the following payment terms and escalation provisions:

PAYMENT TERMS:

Progress payments for the equipment price will be made in accordance with the following schedule:

- o 5% of the price as adjusted is due in the third calendar month after notification of award of contract.
- o 10% of the price, as adjusted is due in the twenty-fourth (24th) calendar month prior to the contract shipping date.
- o 15% of the price, as adjusted, is due in the sixteenth (16th) calendar month prior to the contract shipping date.
- o 20% of the price, as adjusted, is due in the ninth (9th) calendar month prior to the contract shipping date.
- o 35% of the price, as adjusted, is due in the fifth (5th) calendar month prior to the contract shipping date.
- o 10% of the price, as adjusted, together with all unpaid adjustments on the date of shipment of the last of the major stationary pieces.
- o 5% of the price, as adjusted, together with all remaining unpaid adjustments one (1) year after the date of shipment of the last of the major stationary pieces.

Each of the payments listed above is due and payable on the fifteenth (15th) day of the month in which they are due.

ESCALATION TERMS:

Each payment of the equipment price which is due in July, 1989, and thereafter will be adjusted upward or downward by adding thereto the labor adjustment component and the material adjustment component as defined herein.

Mr. Earl C. Windisch Black & Veatch, Consulting Engrs May 22, 1989 Page Three (3)

ESCALATION TERMS (cont.)

The labor portion of each payment is sixty percent (60%). The labor index is the Average Hourly Earnings for SIC Code 3511, first published by the Bureau of Labor Statistics, United States Department of Labor in "EMPLOYMENT AND EARNINGS," Table G-2. The base labor index is the Average of the labor indexes for the months of May, June, and July 1989. The reference month is the month in which the payment to be adjusted is due except that the reference month for payments due and payable after the contract shipping date is the month which includes the contract shipping date.

The labor adjustment component is the labor portion of each payment multiplied by a fraction the numerator of which is the difference between the Labor Index for the reference month and the base labor index, and the denominator of which is the value of the base labor index. The labor adjustment component as thus calculated may be either a positive or a negative amount.

The material portion of each payment is forty percent (40%). The material index is the Iron and Steel Price Index (Code No. 101), first published by the Bureau of Labor Statistics, United States Department of Labor in "PRODUCER PRICES AND PRICE INDEX," Table 6. The base material index is the Average of the material index for the months of May, June, and July 1989. The reference month is the month in which the payment to be adjusted is due except that the reference month for payments due and payable after the contract shipping date is the month which includes the contract shipping date.

The material adjustment component is the material portion of each payment multiplied by a fraction the numerator of which is the difference between the material Index for the reference month and the base material index, and the denominator of which is the value of the base material index. The material adjustment component as thus calculated may be either a positive or a negative amount

The other terms and conditions governing a contract for this turbine generator will generally be in accordance with the contractual terms and conditions for Stanton #1. A detailed review of these terms will need to be made to confirm continued relevancy.

Based on a negotiated contract and a duplicate unit to Stanton #1, savings of \$1.8M can come from the following areas:

Mr. Earl C. Windisch Black & Veatch, Consulting Engrs May 22, 1989 Page Four (4)

Order specific engineering

Not supplying duplicate erection and maintenance tools 0

Elimination of the ASME test

Reduced supply of spare parts

Elimination of systems that can serve both units

This would result in a price of \$30,200,000.00 that would be subject to the same payment terms and escalation provisions as described above.

Please note that the scopes described do not include erection of the turbine generator, but does include technical field assistance for installation. Westinghouse will provide, at a later date, an offer to manage the erection with the craft labor being supplied by others.

For planning purposes a minimum of 42 months should be used between release of the Turbine Generator and initial operation.

The above offer is for a Steam Turbine Generator for commercial operation mid 1997 or earlier.

If you have any questions concerning this offer, we will be pleased to discuss it with you.

Very truly yours,

WESTINGHOUSE ELECTRIC CORPORATION

Special Sales Representative

Generation & Nuclear Field Sales

RLW:srl

cc: Mr. D. L. Goodling @ Jacksonville

Mr. R. Hebert @ Orlando

a McDermott company

13600 Wyandotte Street Kansas City, MO 64145 (816) 941-2073

July 13, 1989

Black & Veatch P. O. Box 8405 Lansas City, MO 64114

Attention: Mr. Earl Windisch

RE: Orlando Utility Commission Stanton Energy Center Unit #2 Boiler Pricing

Gentlemen:

In response to your request of last month, we have put together a boiler price for June 1993 shipment working from the original price of \$27,675,000 for the June 1983 shipment. We can escalate in accordance with government industries using 55% of the original price for material and 45% for labor. We would use WPI-101FR for the material and AHE-34 for the labor. The average of the WPI-101FR for the six (6) months from May 83 to June 83 is 1.019 and the AHE-134 is 9.15.

We currently expect the material WPI-101FR to increase to 1.438 in June 1993 which would be an increase of 42%. The 45% for the labor portion will expect to increase to 12.70 for AHE-34 which would be a 39% increase in labor.

The material portion would increase from \$15,221,250 to \$21,614,175. The labor portion increased from \$12,453,750 to \$17,310,713. With the inefficiencies in a shop which is operating at a much less efficient rate due to the amount of work and mix of work, which is currently going through the shops which would have an increase in labor factor of 20%, which would make the labor portion \$20,772,855 for this contract.

By adding the material and labor portion together for the material supply of the boiler, we would arrive at a price of:

Forty Two Million Three Hundred Eighty Seven Thousand Thirty Dollars......\$42,387,030 for June 1993 shipment.

We would be happy to discuss these numbers with you at your convenience.

Very truly yours,

BABCOCK & WILCOX a McDermott company

J. A. Shildmyer District Manager

JAS: jj

APPENDIX B BASIS OF COST ESTIMATE

APPENDIX B

ORLANDO UTILITIES COMMISSION STANTON ENERGY CENTER, UNIT 2 BASIS FOR COST ESTIMATE

Basis for Cost Estimate

- o Plant arrangement is identical to Unit 1 with the following exceptions. See attached sketch.
 - (1) Control Room of Unit 1 modified (enlarged by 1-28'-6" bay) to accept Unit 2 control panel and electrical equipment.
 - (2) Condensate Polisher/Electrical Equipment area will be located on the north end of Unit 2. This area will be two bays wide. The roof of this area will be at 134'-0".
 - (3) Goal Pulverizers 2SGA-PLV-1 and 2SGA-PLV-2 will be maintained by access through the extension of the Unit 1 Control Room.
 - (4) Coal Conveyors will be modified as required to serve Unit 2.
 - (5) Turbine room bay 109 to 201 will be identical to 100 to 101 except it is 30'-0" in lieu of 26'-0" to accommodate the 28'-6" Control room bay.
- o 61.0403 Coal Handling Only equipment to be furnished will be the conveyor necessary to feed coal from the existing coal handling system to the Unit 2 coal silos.
- o 61.0403 Limestone Handling The additional limestone silo will be added and the conveyors feeding this silo will be extended.
- o 61.0405 Dust Collection An additional dust collector will be required for the coal silo fill area. The existing limestone dust collector piping will be extended to the new limestone silo fill area.
- o 61.0408 Railroad Cars Three Train Sets.
- o 61.1001 Concrete Chimney Identical to Unit 1 chimney.
- o 61.1201.1 Auxiliary Cranes Commodity based (1) Circulating Water Pump Maintenance Crane, (2) Air Heater Basket Removal Jib Crane.
- o 61.1201.2 Hoists and Trolleys Commodity based (1) Boiler Building Hoist, (2) ID Fan Rotor Maintenance Hoists, (3) Plant Transfer Area Vertical Access Hoist, (4) Plant Transfer Coal Gallery Hoist, (5) Coal Gallery Conveyor 201 Hoist, (6) Startup Boiler Feed Pump Hoist, (7) C. W. Pump Structure Stop Log Hoists, (8) C. W. Chemical Feed Chlorination Tank Removal Hoist, (9) Boiler Back Burner Vertical Access Hoist, (10) Boiler Scaffolding Door Access Hoist, (11) Air Heater Guide Bearing Maintenance Hoist, (12) P. A. Fan Rotor Maintenance Hoist, and (13) F. D. Fan Rotor Maintenance Hoist.

- o 61.1601 Passenger Elevators Commodity Based.
 - (1) Steam Generator Building (Machinery Room located at 309'-0")
 - (2) Flue Gas Scrubber Building
- o 61.1803 Metal Wall Panel Commodity Based.
 - . Turbine Building
 - . Steam Generator Building
 - . Flue Gas Scrubber Building
 - . Control Building
 - . Wastewater Treatment Building
- o 61.2005 Duct Expansion Joints Metallic & Nonmetallic.
 - . Duct Expansion Joints Commodity Based Same as Unit 1.
- o 61.2006 Duct Dampers Same as Unit 1.
- o 61.3801 Breeching and Ducts Same as Unit 1.
- o 61.3802 Coal Silos Same as Unit 1.
- o 61.4001 Structural Steel and Grating Commodity Based
 - (1) Turbine Building
 - (2) Steam Generation Building
 - (3) Flue Gas Scrubber Building
 - (4) Control Building
 - (5) Wastewater Treatment Building
- o 62.0201 Particulate Removal Equipment Same as Unit 1.
- o 62.0202.1 Flue Gas Scrubber Same as Unit 1 (assumes adipic acid feed system added with Unit 1.) Include only one ball mill. Additional limestone storage tanks are not required.
- o 62.0202.2 Sludge Conditioning Equipment Commodity Based (1) Three vacuum filters, (2) Conveyors, and (3) One stabilization mixer.
- o 62.0401 Air Compressors Add only one Crosstie with Unit 1.
- o 62.0405 Carbon Dioxide Supply Same as Unit 1.
- o 62.0601 Cooling Tower Identical to Unit 1.
- 62.0801 Fire Suppression & Detection System Reduced scope to change in Control Room. Provide Fire Protection & Detection System for Electrical Equipment area.
- o 62.1001 Turbine Generator Identical to Unit 1.

- o 62.1201 Air Preheating Coils Same as Unit 1.
- o 62.1202 Auxiliary Cooling Heat Exchangers Same as Unit 1.
- o 62.1203 Condenser and Auxiliary Equipment Same as Unit 1.
- o 62.1204 Condenser Tubes Same as Unit 1.
- o 62.1205 Deaerator Same as Unit 1.
- o 62.1206 Feedwater Heaters Same as Unit 1.
- o 62.1211 Fuel Oil Heaters Same as Unit 1.
- o 62.1801 Ash Handling System
 - (A) Fly Ash Same as Unit 1
 - (B) Bottom Ash Same as Unit 1
- o 62.2001 Boiler Feed Pump Turbine Same as Unit 1.
- o 62.2201 High Pressure Pipe Same as Unit 1.
- o 62.2203 Ash Sluice Pipe Same as Unit 1.
- o 62.2205 Steel Circulating Water Pipe Same as Unit 1.
- o 62.2205 Circulating Water Pipe Same as Unit 1 + added length to Unit 2 Cooling Tower.
- o 62.2403 Rubber Expansion Joints Same as Unit 1.
- o 62.2408 Pipe Supports Same as Unit 1.
- o 62.2414 Steam Blowoff Silencers Same as Unit 1.
- o 62.2602.1 Boiler Feed Pump Same as Unit 1.
- o 62.2602.2 Startup Boiler Feed Pump Same as Unit 1.
- o 62.2603 Circulating Water Pump Same as Unit 1 (added head).
- o 62.2604 Condensate Pumps 2 100% capacity condensate.
- o 62.2607 Fire Pumps Steam Generator Fire Pumps only.
- o 62.2610 Oil Pumps Igniter Oil Pumps only.

- o 62.2614.1 Vertical Water Pumps Commodity Based.
 - (1) Circulating Water Makeup Pumps (1) new pump.
 - (2) Scrubber Makeup Water Pump (1). Provide new impeller/bowl assemblies + new motors for existing 2 pumps (1,150 GPM @ 210 ft).
- o 62.2614.2 Vertical Sump Pumps Commodity Based
 - . Bottom Ash Sump Water Pumps
- o 62.2614.3 Vertical Slurry Pumps Commodity Based
 - . Scrubber Blowdown Pumps Same as Unit 1
- o 62.2615 General Service Pumps Commodity Based
 - (1) Auxiliary Cooling Water Pumps (2)
 - (2) Closed Cycle Cooling Water Pumps (2)
 - (3) Closed Cycle Cooling Water Booster Pumps (1)
 - (4) Injection Water Drain Pump (1)
 - (5) Condensate Polisher Recycle Pump (1)
 - (6) Condensate Makeup Pump (1)
 - (7) Chlorine Injection Water Pump (2)
 - (8) Air Preheat Water Return Pump (2)
 - (9) Feedwater Heater Drain Pump (1)
 - (10) Ash Cooling Water Pump (2)
 - (11) Ash Seal Water Pump (2)
- o 62.2802 Lube Oil Filters Same as Unit 1.
- o 62.3201 Air Conditioning Equipment Commodity Based
 - (1) Air Handling Units
 - (A) Generator Building Switchgear Room (2)
 - (B) AQC Building Cont. Air (2)
 - (2) Exhaust Fans
 - (A) Control CTR Battery Room
 - (3) Fans
 - (A) Elec. Equipment Supply Fan (2)
 - (B) Boiler Area Elevator Machine Room Supply Fan (1)
 - (C) AQC Building Electrical Equipment RMS Supply Fans (2)
 - (D) AQC Building Machine RMS Supply Fans (1)
 - (E) AQC Building Elevator Machine Loom Supply Fans (1)
 - (F) C. W. Chemical Feed Building Supply Fan (1)

- (4) Condensing Units
 - (A) Generator Building Switchgear Rooms (2)
 - (B) AQC Building Cont. Area (2)
- (5) Ventilating Fans 62.3206
- o 62.3401 Steam Generator Identical to Unit 1.
- o 62.3402 F. D. Fans Same as Unit 1.
- o 62.3403 I. D. Fans Same as Unit 1.
- o 62.3601 Field Erected Tanks Commodity Based
 - . Condensate Storage Tank 250,000 gallons
 - . Ignitor Oil Storage Tank 250,000 gallons
- o. 62.3602 Shop Fabricated Tanks Commodity Based
 - (A) Blowdown Tank
 - (B) Flash Tank
 - (C) Air Preheat Drain Tank
 - (D) Miscellaneous Drains Receiver
 - (E) Injection Water Drain Tank
 - (F) Lube Oil Storage Tank
 - (G) Lube Oil Dump Tank
 - (H) Closed Cycle Cooling Water Tank
 - (I) Condensate Polisher Acid Storage Tank
 - (J) Condensate Polisher Caustic Storage Tank
 - (K) Circulating Water Acid Storage Tank
 - (L) Air Receiver
 - (M) Air Quality Control Building Air Receiver
 - (N) Air Quality Ctrl Bldg Control Air Receiver
 - (0) Precipitator Area Control Air Receiver
- o 62.3801 Butterfly Valves Extraction Same as Unit 1.
- o 62.3802 Large Butterfly Valves Same as Unit 1.
- o 62.3803 Butterfly Valves General Service Commodity Based.
- o 62.3804 Extraction Steam Nonreturn Valves Same as Unit 1.
- o 62.3805 High Pressure and Motor Operated Valves Same as Unit 1.
- o 62.3807.1 Cast Steel Valves Commodity Based.
- o 62.3807.0 Cast Steel Fire Water Valves Commodity Based.

- o 62.3809 General Application Control Valves Commodity Based.
- o 62.3810 Special application Control Valves Same as Unit 1.
- o 62.3811 Forged Steel Valves General Service Commodity Based.
- o 62.3813 Bronze Valves General Service Commodity Based.
- o 62.3815 Safety and Relief Valves Commodity Based.
- o 62.3817 Knife Gate Valves Commodity Based.
- o 62.3819 Plug Valves Commodity Based.
- o 62.0802.1 Control Cable Commodity Based.
- o 62.0802.2 Instrument and Thermocouple Cable Commodity Based.
- o 62.0804.0 Coaxial and Special Purpose Cable Commodity Based.
- o 63.0806 15kV Power Cable Commodity Based.
- o 63.0807 600 Volt Power Cable Commodity Based.
- o 63.1201 Isolated Phase Bus Same as Unit 1.
- o 63.2002 Electrical Panels Commodity Based.
- o 63.2201 Motors Commodity Based.
 - (A) F. D. Fan (2) Same as Unit 1
 - (B) I. D. Fan (2) Same as Unit 1
 - (C) Primary Air Fan Motor Same as Unit 1
 - (D) Air Compressor Motors (1) only Same as Unit 1
 - (E) Start-Up Boiler Feed Pump Mtr Same as Unit 1
 - (F) Condensate Pump Motors (2) Same as Unit 1
 - (G) Additive Pulverizer Motor (1) Same as Unit 1
 - (H) Clsd Cycle Cool Wtr Pmp Mtr (2) Same as Unit 1
 - (I) C. W. Pump Motors (3) Same as Unit 1
 - (J) Coal Pulverizer Motors (5) Same as Unit 1
- o 63.2601 Cable Tray Commodity Based.
- o 63.2801 Batteries and Battery Charger Same as Unit 1.
- o 63.2802 Continuous AC Power Equipment Same as Unit 1.
- o 63.3001 Motor Control Centers Commodity Based.

- o 63.3201 Transmission & Substation Structures Commodity Based.
- o 63.3401 Power Circuit Breakers Commodity Based.
- o 63.3404 SCADA Equipment Commodity Based.
- o 63.3407 Substation Control & Relay Panels Commodity Based.
- o 63.3409 Fiber Optic Equipment Commodity Based.
- o 63.3410.1 Fiber Optic Duct Cable Commodity Based.
- o 63.3410.2 Fiber Optic Overhead Ground Wire Commodity Based.
- o 63.3601 Switchgear Commodity Based.
- o 63.3602 Secondary Unit Substation Commodity Based.
- o 63.3801 Transformers Same as Unit 1.
- o 64.0202 Coordinated Control & Information Center Same as Unit 1.
- o 64.0204 Programmable Controllers Modicon Gold. (Standardized on one design)
- o 64.0401 Annunciator Equipment Commodity Based.
- o 64.0404 Machinery Monitoring Sole Source.
- o 64.0602 Primary Flow Elements Same as Unit 1. Sole Source
- o 64.1401 Flue Gas Monitoring Equipment Same as Unit 1.
- o 64.1601 Control Panels Commodity Based.
 - (A) Main Control Panel (1)
 - (B) Auxiliary Control Panel (2)
 - (C) Miscellaneous Equipment Panel (3)
 - (D) Coal Pulverizer Inert and Clean Panel
- o 64.1602 Instrument Panels Commodity Based.
- o 64.1603 Control Relay Cabinets Commodity Based.
- o 65.0202 Chemical Feed System Commodity Based.
- o 65.0203 Chlorination Equipment Commodity Based.
- o 65.0401 Condensate Polishing Same as Unit 1.

- o 65.0602 Water Quality Control System Same as Unit 1.
- o 68.0801 Cooling Tower Blowdown Treatment System Commodity Based.

 (A) Assume add on one Brine Concentrator and Crystallizer
- o 71.0201 Site Preparation Commodity Based.
- o 71.0209 Landscaping Commodity Based.
- o . 71.0401 Piling Commodity Based.
- o 71.0402 Substructures Commodity Based.
- o 71.0403 General Construction Superstructures Commodity Based.

 (A) Include permanent warehouse
- o 71.0404 Painting Commodity Based.
- o 71.0407 Concrete Supply Commodity Based.
- o 71.0408 Construction Testing Commodity Based.
- o 71.0409 Duct Work Lining Same as Unit 1.
- o 72.0202 Heating, Ventilating and Air Conditioning Commodity Based.
- o 72.0401 Mechanical Construction Commodity Based.
- o 72.0403 Piping and Equipment Insulation Commodity Based.
- o 73.0201 Electrical Construction Commodity Based.
- o 73.0204 Substation Construction Commodity Based.
- o 74.0400 Test and Calibration Service Commodity Based.
- o 75.0100 Boiler and Pre-Boiler Cleaning Same as Unit 1
- o .75.0200 Special Protective Coatings Commodity Based.
- o 76.0100 Site Services All platforms, equipment modifications, piping changes,...etc., added under this contract are to be included in appropriate construction contracts. This contract is to only include services as originally specified for Unit 1.
- o Cost Estimate to include line items for the following.
 - (A) Indirects OUC
 - (1) Startup bunker c oil
 - (2) Startup diesel oil

- (3) Administrative costs
- (4) Pre-operation & maintenance
- (5) Construction management
- (6) Insurance
- (7) Special projects
- (8) Spare parts (other than those purchased with equipment)
- (9) Net of power sales
- (B) Engineering
- (C) Construction Management Services
- o Escallation assumed at an annual rate of 4% per year.

APPENDIX C
COST ESTIMATES SEC, UNIT 2

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\$1.0405 Bu \$1.0408 Cr \$1.0410 Pr \$1.1001 Ct \$1.1001 Ct \$1.1001 Ct \$1.1001 Bu \$1.1201 Pr \$1.1803 Mr \$1.1205 Bu \$1.1200 Bu \$1.3801 Br \$1.3802 Cr \$1.3801 Br \$1.3802 Cr \$1.4001 St \$1.4002 St \$1.4002 St \$1.4002 St \$1.4002 St	DESCRIPTION Nulk Materials Handling Oust Collection Equipment Coal Cars (297) Pneumatic Material Handling Chinney Cranes & Hoists Passenger Elevators Metal Hall Panel Duct Expansion Joints Ouct Bangers Oreaching and Ducts Coal Silos Structural Steel-Major Fac. STR STL-Coal HKD, YD Subtotal Structural Procuree	FAE FAE FAE FAE	61602 61003 61007 61008 61007 61011 61012 61013 61014 61019 61020	61,157,000 6350,000 816,730,000 627,000 64,612,000 5319,000 5359,060 61,559,000 61,559,000 61,733,000	1995 ESCALATION FACTOR	1995 BGLLAR TBIAL 41,394,165 4421,750 \$29,400,650 \$32,533 \$5,257,460 \$384,395 \$1,678,595 \$1,678,595	1996 ESCALATION FACTOR 1.253 1.253 1.253 1.253 1.253 1.253 1.253	1996 BOLLAR TOTAL 51,49,721 \$438,550 \$21,213,290 \$33,831 \$5,778,834 \$399,767 \$449,627	1997 ESCALATION FACTOR 1.363 1.363 1.363 1.363 1.363 1.363	1997 BOLLAR TOTAL 1,507,571 436,050 22,059,790 35,181 6,009,436 415,657
\$1.0405 Bu \$1.0408 Cr \$1.0410 Pr \$1.1001 Ct \$1.1001 Ct \$1.1001 Ct \$1.1001 Bu \$1.1201 Pr \$1.1803 Mr \$1.1205 Bu \$1.1200 Bu \$1.3801 Br \$1.3802 Cr \$1.3801 Br \$1.3802 Cr \$1.4001 St \$1.4002 St \$1.4002 St \$1.4002 St \$1.4002 St	Just Collection Equipment Coal Cars (297) Innewaltic Material Handling Chinney Crames & Hoists Passenger Elevators Metal Wall Panel Duct Expansion Joints Just Expansion Joints Just Baspers Preeching and Ducts Coal Silos Structural Steel-Major Fac. STR STL-Coal HKD, YD	FAE FAE FAE	61602 61003 61007 61008 61007 61011 61012 61013 61014 61019 61020	\$11,157,000 \$350,000 \$16,730,000 \$27,000 \$4,612,000 \$319,000 \$359,060 \$1,559,000 \$433,000 \$1,733,000	1.205 1.205 1.205 1.205 1.205 1.205 1.205	61,394,185 6421,750 629,400,650 632,335 65,257,460 8384,395 8632,595	1.253 1.253 1.253 1.253 1.253 1.253	\$1,449,721 \$438,550 \$21,213,290 \$33,831 \$5,778,836 \$399,707	1.303 1.303 1.303 1.303 1.303	1,507,571 454,050 22,059,790 35,181 4,009,436
\$1.0405 Bu \$1.0408 Cr \$1.0410 Pr \$1.1001 Ct \$1.1001 Ct \$1.1001 Ct \$1.1001 Bu \$1.1201 Pr \$1.1803 Mr \$1.1205 Bu \$1.1200 Bu \$1.3801 Br \$1.3802 Cr \$1.3801 Br \$1.3802 Cr \$1.4001 St \$1.4002 St \$1.4002 St \$1.4002 St \$1.4002 St	Just Collection Equipment Coal Cars (297) Innewaltic Material Handling Chinney Crames & Hoists Passenger Elevators Metal Wall Panel Duct Expansion Joints Just Expansion Joints Just Baspers Preeching and Ducts Coal Silos Structural Steel-Major Fac. STR STL-Coal HKD, YD	FAE FAE	61007 61008 61009 61011 61012 61013 61014 61019 61020	\$350,000 \$16,730,000 \$27,000 \$4,612,000 \$319,000 \$359,000 \$1,559,000 \$635,000 \$1,733,000	1.205 1.205 1.205 1.205 1.205 1.205	\$29,400,650 \$32,535 \$5,557,460 \$384,395 \$632,595	1.253 1.253 1.253 1.253 1.253	621,213,290 633,831 65,778,834 6399,767	1,303 1,303 1,303 1,363	22,059,790 35,181 6,009,436
\$1.0408 Co \$1.0410 Pr \$1.1001 Ch \$1.1201 Cr \$1.1201 Cr \$1.1201 Cr \$1.1201 Cr \$1.1200 Br \$1.1200 Br \$1.1200 Br \$1.3801 Br \$1.3802 Co \$1.4001 St \$1.4001 St \$1.4001 St \$1.4001 St \$2.0201 Pr \$2.0201 Pr \$2.0201 Ar \$2.0201 Ar \$2.0405 Cc	Coal Cars (277) Present Referial Handling Chinney Cranes & Hoists Passenger Elevators Metal Hall Panel Duct Expansion Joints Nuct Baspers Presching and Ducts Coal Silos Structural Steel-Major Fac. STR STL-Coal HND, YB	FAE FAE	61007 61008 61009 61011 61012 61013 61014 61019 61020	\$16,930,000 \$27,000 \$4,612,000 \$319,000 \$359,000 \$1,559,000 \$635,000 \$1,733,000	1.205 1.205 1.205 1.205 1.205	\$29,400,650 \$32,535 \$5,557,460 \$384,395 \$632,595	1.253 1.253 1.253 1.253	633,831 65,778,836 6399,707	1.303 1.303 1.363	35,181 4,009,436
\$1.1001 Ch \$1.1201 Cr \$1.1201 Cr \$1.1201 Cr \$1.1201 Cr \$1.1201 Cr \$1.1201 Cr \$1.1202 Cr \$1.1205 Dr \$1.2005 Dr	Chinney Cranes & Hoists Passenger Elevators Netal Wall Panel Ouct Espansion Joints Duct Baspers Greeching and Ducts Coal Silos Structural Steel-Hajor Fac. STR STL-Coal HKD,YD	FAE FAE	61008 61009 61011 61012 61013 61014 61019 61020	\$27,000 \$4,612,000 \$319,000 \$359,000 \$1,559,000 \$635,000 \$1,733,000	1.205 1.205 1.205 1.205	\$5,557,460 \$384,395 0632,595	1.253 1.253 1.253	65,778,836 6399,767	1.303	4,009,436
\$1.1201 Cr \$1.1801 Pa \$1.1803 Me \$1.2005 Bu \$1.2005 Bu \$1.2006 Bu \$1.3801 Cc \$1.3801 Sc \$1.4001 Si \$1.4002 Si \$2.0201 Pa \$2.0201 Pa \$2.0202 Fi \$2.0202 Fi \$2.0202 Fi \$2.0202 Fi \$2.0205 Cc	Crames & Hoists Passenger Elevators Metal Hell Panel Dart Expansion Joints Duct Baspers Greeching and Ducts Coal Silos Structural Steel-Hajor Fac. STR STL-Coal HKD,YD	FAE FAE	61009 61011 61012 61013 61014 61019 61020	\$319,000 \$359,000 \$1,559,000 \$635,000 \$1,733,000	1.205 1.205 1.205	\$384,395 \$632,595	1.253 1.253	6399,707	1.363	
\$1.1801 Pa \$1.1803 Me \$1.2005 Bu \$1.2005 Bu \$1.2006 Bu \$1.3801 Br \$1.3802 Si \$1.4001 Si \$1.4002 Si \$2.0201 Pa \$2.0201 Pa \$2.0202 Fa \$2.0202 Fa \$2.0202 Fa \$2.0202 Fa \$2.0202 Fa \$2.0203 Fa \$2.0205 Ca	Passenger Elevators Metal Hall Panel Duct Espansion Joints Duct Baspers Greeching and Ducts Coal Silos Structural Stael-Hajor Fac. STR STL-Coal HKD,YD	FAE	61011 61012 61013 61014 61019 61020	\$359,000 \$1,559,000 \$635,000 \$1,733,000	1.205 1.205	8632,595	1.253		NEED PROVIDED IN THE BUILDING	415,657
61.1803 Me 61.2005 Be 61.2006 Be 61.3801 Be 61.3802 Si 61.4001 Si 61.4002 Si 62.0201 P. 62.0202 Fi 62.0202 Fi 62.0405 C.	Metal Wall Panel Duct Espansion Joints Duct Baspers Preeching and Ducts Coal Silos Structural Steel-Major Fac. STR STL-Coal HKD,YD	FAE	61012 61013 61014 61019 61020	\$1,559,000 \$635,000 \$1,733,000	1.205			\$449,027	1 747	
61.2005 Bu 61.2006 Br 61.3801 Br 61.3802 Cr 61.4001 St 61.4002 St Sc 62.0201 Pr 62.0202 Pr 62.0401 dc 62.0405 Cr	Duct Expansion Joints Duct Bampers Preeching and Ducts Coal Silos Structural Steel-Hajor Fac. STR STL-Coal HKD,YD		61013 61014 61019 61020	\$635,000 \$1,733,000		\$1,878,595		CHICACONSTITUTION OF THE PARTY OF	1.393	467,777
61.2006 Bit 61.3801 Br 61.3802 Cc 61.4001 St 61.4002 St 61.4002 St 62.0201 Pr 62.0202 Ff 62.0401 At 62.0405 Cc	Duct Baspers Preeching and Ducts Coal Silos Structural Steel-Hajor Fac. STR STL-Coal HKB,YD	FAE	61014 61019 61020	\$1,733,000	1.205		1.253	\$1,953,427	1.303	2,031,377
61.3801 Br 61.3802 Co 61.4001 St 61.4002 St 61.4002 St 62.0201 Pr 62.0202 Ff 62.0401 Ac 62.0405 Co	Preeching and Ducts Coal Silos Structural Steel-Major Fac. STR STL-Coal HKB,YD	FAE	61019 61020	IN THE RESIDENCE OF THE PARTY O		6765,175	1.253	6795,655	1.303	827,405
61.4001 SI 61.4002 SI 61.4002 SI 62.0201 PA 62.0202 FI 62.0202 FI 62.0401 AI 62.0405 CI	Coal Silos Structural Steel-Hajor Fac. STR STL-Coal HKD,YD	F&E	61020		1.205	\$2,088,265	1.253	62,171,449	1 303	2,258,099
61.4001 SI 61.4002 SI Si 62.0201 Pi 62.0202 FI 62.0401 Ai 62.0405 CI	Structural Steel-Major Fac. STR STL-Coal HKD,YD	FAE		\$3,332,000	1.205	84,015,060	1.253	64,174,996	1.303	4,341,596
61.4002 Si Si 62.0201 P. 62.0202 Fi 62.0401 Ai 62.0405 Ci	STR STL-Coal HMB, YB	FAE		\$402,000	1.205	\$484,410	1.253	\$503,706	1.303	523,804
62.0201 P. 62.0202 FI 62.0401 At 62.0405 C			61021	\$23,350,000	1.205	\$28,136,751	1.256	\$29,330,638	1.312	30,643,443
62.0201 P. 62.0202 FI 62.0401 A 62.0405 C	Subtatal Structural Procures		61022	\$573,000	1.205	\$690,465	1.253	\$717,969	1.303	746,619
62.0202 FI 62.0401 A 62.0405 C		ent		\$55,338,000		\$66,682,291		\$69,411,602		672,323,807
62.0401 A: 62.0405 C	Particulate Resoval Equip	FAE	61024	\$17,780,000	1.205	\$21,424,900	1.253	\$22,278,340	1.303	23,167,340
62.0405 C	Flue Gás Scrubber & SLG COMD	FAE	61025	\$26,955,000	1.205	\$32,480,775	1.253	\$33,774,615	1.303	35,122,36
	Air Cospressors		61027	\$135,000	1.205	\$162,675	1.253	8149,155	1.303	175,90
52.0601 C	Carbon Dioxide Supply		61028	\$80,000	1.205	\$76,400	1.253	\$100,240	1.303	104,24
	Cooling Tower	FAE	61029	\$13,525,000	1.205	\$16,297,625	1.253	\$16,946,825	1.303	17,623,07
62.0801 F	Fire Frotection Equip		61030	\$182,000	1.205	\$219,310	1.253	\$228,046	1.303	237,14
62.0805 F	Fire Suppression Systems	FAE	61031	\$632,000	1.205	\$761,560	1.253	6791,896	1.303	823,49
62.1001 To	Turbine Generator	FAE	61032	\$32,760,000	1.205	\$39,475,800	1.253	\$41,048,280	1.303	42,686,28
	Air Proheating Coils		61034	\$100,000	1.205	\$120,500	1.253	\$125,300	1.303	130,30
	Auxiliary Cooling Heat Exch.		61035	\$354,000	1.205	\$426,570	1.253	8443,562	1.303	461,26
	Condenser and Auxiliary Equi	,	61036	\$1,600,000	1.205	\$1,928,000	1.253	\$2,004,800	1.303	2,064,80
	Condenser Tubes		61037	6848,000	1.205	\$1,021,840	1.253	\$1,062,544	1.303	1,104,94
	Beaerator		61038	\$344,000	1.205	\$414,520	1.253	\$431,032	1.303	448,23
THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	Feedwater Heaters		61039	\$2,283,000	1.205	\$2,751,015	1.253	\$2,860,599	1.303	2,974,74
	Fuel Oil Heaters		61041	\$56,000	1.205	\$67,480	1.253	670,168	1.303	72,96
	Ash Handling System		61043	\$4,832,000	1.205	\$5,822,560	1.253	66,054,496	1.303	6,296,09
	Boiler Feed Pump Turbine		61044	\$1,657,000	1.205	\$1,976,685	1.253	\$2,076,221	1.303	2,159,07
	High Pressure Fabricated Pip	18	61045	\$4,561,000	1.205	\$5,496,005	1.253	\$5,714,933	1.303	5,942,98
	Ash Sluice Pipe		61046	\$121,000	1.205	\$145,805	1.253	\$151,613	1.303	157,66
	Circulating Water Pipe		61047	\$1,410,000	1.205	\$1,699,050	1.253	\$1,766,730	1.303	1,837,23
	Expansion Joints-Rubber		61049	\$31,060	1.205	\$37,355	1.253	\$38,843	1.303	40,39
	Pipe Supports		61050	\$535,000	1.205	\$644,675	1.253	\$670,355	1.303	697,10
	Steam Vent Silencers		61051	\$15,000	1.205	\$18,075	1.253	\$18,795	1.303	19,54
	Boiler Feed Pumps (Incl Star	rtup)	61052	\$1,774,000	1.205	\$2,137,670	1.253	\$2,222,822	1.303	2,311,52
	Circulating Water Pumps		61054	\$584,000	1.205	\$705,130	1.253	\$734,258	1.303	763,55
	Condensate Pumps		61055	\$580,000	1.205	\$498,900	1.253	\$726,740	1.303	755,74
	Fire Pumps		61056	\$37,060	1.205	144,585	1.253	\$46,361	1.303	48,21
	Oil Pumps .		61057	\$30,000	1.205	\$36,150	1.253	637,590	1.303	39,09
	Vertical Water Pumps		61058	\$293,000	1.205	\$353,065	1.253	\$357,129	1.303	381,77
	General Service Pumps		61059	\$229,000	1.205	\$275,945	1.253	\$286,937	1.303	298,38
	Lube Oil Filters		61060	\$20,000	1.205	\$24,100	1.253	\$25,040	1.303	26,00
	Auto Flushing Type Water St		61061	\$50,000	1.205	\$60,250	1.253	\$62,650		65,13
	Air Conditioning Equipment		61062	\$47,000	1.205	\$56,635	1.253	\$58,891	1.303	61,2
62.3206 V	Ventilating Fans	FEE .	61063	\$229,000	1.265	\$275,945	-1.253	\$286,937	1.303	298,38

ORLANDO UTILITIES COMMISSION STANTON BALLT 2 425 MN PRELIMINARY ESTIMATE 1-JAN-69 & REPLICATION

	REPLICATION		OUC	1995	1995	1996	1996	1997	1997
SPEC NUMBER	DESCRIPTION	DUC	UNIT 2	ESCALATION FACTOR	DOLLAR TOTAL	ESCALATION FACTOR	BOLLAR TOTAL	ESCALATION FACTOR	TOTAL
62,3402	Forced Draft Fans	61065	\$632,000	1.205	6741,560	1.253	6791,096	1.303	823,496
62.3403	Induced Braft Fans	61066	\$1,061,000	1.205	\$1,278,505	1.253	61,329,433	1.303	1,382,483
62.3601	Field Erected Tanks FAE	61068	6371,000	1.205	\$447,055	1.253	8464,863	1.303	483,413
62.3602	Shop Fabricated Tanks	61069	\$193,000	1.205	\$232,565	1.253	\$241,829	1.303	251,479
62.3801	Butterfly Valves-Ext. Steam	61070	\$25,000	1.205	830,125	1.253	\$31,325	1.303	32,575
62.3802	Large Butterfly Valves	61071	\$351,000	1.205	1422,955	1.253	0439,803	1.303	457,353
62.3803	Butterfly Valves-General Serv.	61072	\$92,000	1.205	\$110,860	1.253	\$115,276	1.303	119,876
62.3804	Extraction Steam-Hon-Return VI	61073	\$204,000	1.205	\$245,820	1.253	\$255,612	1.303	265,812
62.3805	H.P. Cast Steel & M.O. Valves	61074	\$1,736,000	1.205	\$2,091,880	1.253	62,175,208	1.363	2,262,008
62.3807	Cast Steel Ben. Serv. Valves	61075	\$492,000	1.205	1592,866	1.253	\$616,476	1.305	641,076
62.3809	Control Valves-Gen Application	61077	\$277,000	1.205	4333,785	1.253	\$347,081	1.303	360,931
42.3810	Control Valves-Spec. Application	61078	\$130,000	1.205	\$156,650	1.253	\$162,890	1.303	169,390
62.3811	Forged Steel Valves-Sen, Serv	61080	\$392,000	1.205	6472;360	1.253	\$491,176	1.303	510,776
62.3813	Bronze Valves-Beneral Service	61081	\$21,000	1.205	\$25,305	1.253	\$26,313	1.303	27,363
62.3815	Safety and Relief Valves	61082	\$61,000	1.205	\$73,505	. 1.253	676,433	1.303	79,483
62.3817	Knife Gate Valves	61161	\$75,000	1.205	\$90,375	1.253	\$93,975	1.303	97,725
62.3818	Butterfly Valves-Spec Syce	61166	\$83,000	. 1.205	\$100,015.		\$103,999	1.303	108,149
62.3819	Slurry Plug Valves		\$16,000	1.205	\$19,280	1.253	\$20,048	1.303	20,848
	Subtotal Mechanical Procurement		\$173,663,100		\$209,264,036		\$217,599,864		6226,283,019
63.0801	Overhead Conductor		\$8,000	1.205	\$9,640	1.253	\$10,024	1.303	10,424
63.0802	Control Cable	41084	\$792,000	1.205	6954,360	1.253	6992,376	1.303	1,031,976
63.0804	Instrument Cable	61086	\$339,000	1.205	\$408,495	1.253	1424,767	1.303	441,717
43.0804	15kV Poner Cable	61088	\$659,000	1.205	8794,095		\$825,727	1.303	858,677
A3.0807	600 Volt Power Cable	61089	\$884,000	1.205	\$1,067,630	1.253	\$1,110,158	1.303	1,154,458
P2'080B	Coaxial & Spec. Purpose Cable	61087	697,000	1.205	\$116,885	1.253	\$121,541	1.303	126,391
63,1201	Isolated Phase Bus	61091	\$342,000		\$412,110	1.253	\$428,526		445,626
63.2002	Electrical Panels	61092	\$266,000	1.205	\$320,530		\$333,298		346,598
63.2201	Notors	61093	\$1,556,000	1.205	\$1,874,980		\$1,949,668		2,027,468
63.2601	Cable Tray	61095	\$180,000	1.205	\$216,900		\$225,540		234,540
63.2901	Batteries and Battery Chargers	61096	\$187,000	1.205	\$225,335		\$234,311		243,661
63.2803	Continuous AC Power Equipment	61097	\$176,000	1.205	\$212,080		\$220,528		229,328
63.3001	Notor Control Centers	61098	\$433,000	1.205	\$521,765		\$542,549		564,199
63.3201	Trans. & Subst. Struc. & Mat.	61099	\$531,000	1.205	\$639,855		\$665,343		691,893
63.3401	Power Circuit Breakers	61101	\$500,000	1.205	\$602,500		\$626,500		651,500
63.3404	SCADA Equipment	61103	\$16,000	1.205	\$19,280		620,048		
63.3407	Substation Control & Relay Pol	61106	\$114,000	1.205	8137,370	1.253	\$142,842		BERGER CONTRACTORS HEALING CHARACT
43.3409		61215	\$30,000	1.205	\$36,150				
63.3601		61108	\$3,338,000	1.205	\$4,022,290				
\$3.3801		61110	\$3,629,000	0 1.205	\$4,372,94		\$4,547,137	1.303	4,728,587
	Subtotal Electrical Procurement		\$14,079,000	0	\$16,965,19		\$17,640,98	1	\$18,344,937

ORLANDO UTILITIES COMMISSION STANTON BMIT 2 425 MM PRELIMINARY ESTIMATE 1-JAN-89 & REPLICATION

SPEC NUMBER	NESCRIPTION	GUC	DUC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1976 ESCALATION FACTOR	1996 BOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
64.0202	Coord. Central & Info Computer	61111	\$2,655,000	1.205	\$3,199,275	1.253	43,326,715	1.303	3,459,465
64.0204	Programable Controllers	61112	\$624,600	1.205	8751,920	1.253	1781,872	1.303	813,672
4.0401	Annunciation Equipment	61113	\$233,000	1.205	\$280,765	1.253	5291,949	1.303	303,599
4.0404	Machinery Monitoring	61114	\$200,000	1.205	\$241,000	1.253	\$250,600	1.303	260,600
4.0602	Primary Flow Elements	61116	\$168,000	1.205	\$202,440	1.253	6210,504	1.303	219,904
4.1401	Flue Gas Monitoring System I	61162 .	\$433,000	1.205	\$521,765	1.253	\$542,549	1.303	564,199
4.1601	Control Panels	61124	\$338,000	1.205	\$407,21	1.253	6423,514	1.303	440,414
4.1602	Instrument Racks	61125	\$612,000	1.205	6737,460	1.253	\$766,836	1.303	797,436
4.1603	Control Relay Cabinets	61126	\$149,000	1.205	6179,545	1.253	\$184,697	1.303	194,147
	Subtotal Control Procurement		85,412,000		66,521,460		66,781,236		67,051,836
5.0202	Chemical Feed System	61127	\$121,000	1.205	\$145,805	1.253	6151,613	1.303	157,663
5.0203	Chlorination Equipment	61128	\$60,000	1.205	672,300	1.253	\$75,180	1.303	78,180
5.0401	Condensate Polishing System	61129	\$1,367,000	1.205	61,647,235	1.253	\$1,712,851	1.303	1,781,201
5.0602	Water Quality Control System	61134	\$320,000	1.205	\$385,600	1.253	\$400,960	1.303	416,960
5.0801	Blowdown Treastment Equipment	61168	\$7,200,000	1.205	\$8,676,000	1.253	89,021,600	1.303	9,381,600
	Subtotal Chemical Procurement		\$9,048,000		\$10,926,940		\$11,362,204		\$11,815,604
71.0401	Piling	61144	\$6,150,000	1.205	67,410,750	1.253	87,705,950	1.303	8,013,450
1.0402	General Constr. Substructures	61145	\$13,320,000	1.205	\$16,026,500	1.253	\$16,664,900	1.303	17,329,900
1.0403	Beneral ConstSuperstructures	61146	\$12,330,000	1.205	\$14,857,650	1.253	\$15,449,490	1.303	16,065,990
1.0404	Painting	61147	\$1,305,000	1.205	\$1,576,140	1.253	\$1,638,924	1.303	1,704,324
1.0467	Concrete Supply	61150	\$313,000	1.205	6377,165	1.253	1392,189	1.303	407,839
1.0408	Construction Testing		\$1,175,000	1.205	\$1,415,875	1.253	61,472,275	1.303	1,531,025
1.0409	Ductwork Lining	61167	\$1,305,000	1.205	61,572,525	1.253	\$1,635,165	1.303	1,700,415
	Subtotal Structural Construction		\$35,881,000		643,236,605		\$44,958,893		\$46,752,943
72.0202	Heating, Ventilating & Air Con	61152	\$1,665,000	1.205	\$2,006,325	1.253	\$2,086,245	1.303	2,169,495
72.0401	Mechanical Construction	61153	\$18,560,000	1.205	\$22,364,800	1.253	\$23,255,680	1.303	24,183,680
72.0403	Piping and Equip. Insulation	61154	\$1,917,000	1.205	\$2,309,985	1.253	\$2,402,001	1.303	2,497,851
72.0601	Flue Bas Cln For Test		\$98,000	1.205	\$118,090	1.253	\$122,794	1.303	127,694
	Subtotal Mechanical Construction		\$22,240,000		\$26,799,200		\$27,866,720		\$28,978,720
73.0201	Electrical Construction	61155	69,812,000	1.205	\$11,823,460	1.253	\$12,294,436	1.303	12,785,036
73.0204	T-Line & Substation Construction	61156	\$1,065,000	1.205	\$1,283,325	1,253	11,334,445	1.303	1,387,695
	Subtotal Electrical Construction		\$10,877,000		\$13,106,785		\$13,628,881		\$14,172,731
74.0400	Elec. Test & Calibration Serv.	61157	\$1,900,600	1.205	\$2,269,500	1.253	\$2,360,700	1.303	2,475,700
75.0100	Boiler and Preboiler Cleaning	61158	\$168,000		\$202,440	1.253	\$210,504	1.303	218,900
75.0200	Special Protective Coatings	61159	\$65,000	1.205	178,325		\$81,445		84,695
76.0100	Site Services .	61160	\$2,165,000	1.205	\$2,668,925	1.253	\$2,712,745	NA (1)	3,110,000
	Subtotal Control Construction		\$4,258,000		\$5,179,690		15,335,394		\$5,889,299

08-Sep-89

	REPLICATION		OUC	1995	1995	1994	1996	1997	1997
SPEC NUMBER	DESCRIPTION	CODE	UNIT 2	ESCALATION FACTOR	BOLLAR TOTAL	ESCALATION FACTOR	DGLLAR · TOTAL	ESCALATION FACTOR	DOLLAR TOTAL
90.1001	OUC ladirects		45A7 175	1.205	1606,278	1.253	1630,428	1.303	455,585
	Startup Bunker C 0il	61163	\$503,135	1.205	\$131,453	1.253	\$136,690	1.303	142,144
	Startup Diesel Oil	61165	\$109,090	1.205	\$3,012,500	1.253	\$3,132,500	1.303	3,257,500
	Administrative Costs	61201	\$2,500,000	1.205	18,435,000	1.253	\$8,771,000	. 1.303	9,121,000
	Pre-operations & Haint	61204	\$7,000,000	1.205	\$3,012,500	1.253	\$3,132,500	MA (1)	3,508,100
	Construction Hanagement	61206	\$2,500,000	1.205	\$10,242,500	1.253	\$10,450,500	1.303	11,075,500
	Insurance	61208	\$8,500,000			1.253	\$375,900	1.303	390,900
	Special Projects	61210	\$300,000	1.205	\$361,500	1.253	\$2,506,000	1.303	2,606,000
	Project Spare Parts		\$2,000,000	1.205	62,410,000		(\$5,012,000)	COORDINATION SAMELY	(5,212,000)
	Net Of Power Sales		(\$4,000,000)		(\$4,820,000)		(42/417/444)		
	Subtotal BUC Indirects		\$19,412,225		\$23,391,731		624,323,518		625,544,729
90.1100	DEV Engineering Services	61203	\$19,750,000	1.205	623,798,750	1.253	\$24,746,750	1.303	25,734,250
90.1300	BAY Construction Most. Service	61207	\$14,570,000	1.205	\$17,556,850	1.253	\$18,256,210	MA (1)	21,387,000
90.2000	Project Contingency		\$25,000,000	1.205	630,125,000	1.253	\$31,325,000	1.303	32,575,000
90.4000	Sales Tax		\$320,000	1.205	\$385,600	1.253	\$400,960	1.303	416,960
			\$59,640,000		671,866,200		\$74,728,920		680,113,210
	TOTAL .		409,908,325		\$493,939,532		\$513,688,219		537,270,835

NOTE (1) HIGHER COSTS DUE TO LONGER CONSTRUCTION SCHEDULE 42 NO.

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	REBID								
SPEC NUMBER	DESCRIPTION	OUC	GUC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 BOLLAR TOTAL	1997 ESCALATION FACTOR	1V97 DOLLAR TOTAL
61.0403	Bulk Materials Handling	FAE ALO		1.205	61,394,185	1.253	61,449,721	1.303	1,507,571
61.0405	Bust Collection Equipment	610	3 . \$350,000	1.205	\$421,750	1.253	6438,550	1.303	456,050
41.0408	Coal Cars (297)		\$16,930,000	1.205	\$20,400,650	1.253	\$21,213,290	1.303	22,059,790
61.0410	Presentic Material Handling	610	7 \$27,000	1.205	\$32,535	1.253	\$33,831	1.303	35,191
61.1001	Chinney	F&E 610	8 14,812,000	1.205	\$5,798,460	1.253	\$6,029,436	1.303	6,270,036
61.1201	Cranes & Hoists	610	9 \$319,000	1.205	\$384,395	1.253	\$399,707	1.303	415,657
61.1601	Passenger Elevators	FAE A10	11 4359,000	1.205	8432,595	1.253	\$449,827	1.303	467,777
61.1803	Metal Wall Panci	F&E 610	12 \$1,559,000	1.205	\$1,878,595	1.253	\$1,953,427	1.303	2,031,377
61.2005	Duct Expansion Joints	610	3 \$635,000	1.205	1765,175	1.253	6795,655	1.363	827,405
61.2006	Duct Danpers	610	14 \$1,733,000	1.205	\$2,088,265	1.253	\$2,171,449	1.303	2,.58,099
61.3801	Breeching and Bucts	610	19 \$3,332,000	1.205	64,015,060	1.253	64,174,996	1.303	4,341,596
61.3802	Coal Silos	610	20 \$402,000	1.205	\$484,410	1.253	\$503,706	1.303	523,806
61.4001	Structural Steel-Hajor Fac.	FAE 610	21 \$24,000,000	1.205	\$28,920,001	. 1.256	630,147,122	1.322	31,496,472
61.4002	STR STL-Coal MIS, AGCS, YD	610	22 \$573,000	1.205	\$690,465	1.253	6717,969	1.303	746,619
	Subtotal Structural Procures	ent	\$56,188,000		\$67,706,541		\$70,478,686		673,437,436
62.0201	Particulate Removal Equip	F&E 610	24 \$18,238,000	1.205	\$21,976,790	1.253	\$22,852,214	1.303	23,764,114
62.0202	Flue Gas Scrubber & SLG COND	F&E &10	25 626,955,000	1.205	\$32,480,775	1.253	\$33,774,615	1.303	35,122,365
62.0401	Air Compressors	610		1.205	\$162,675	1.253	\$169,155	1.303	175,905
62.0405	Carbon Dioxide Supply	610	28 \$80,000	1.205	\$96,400	1.253	\$100,240	1.303	104,240
62.0601	Cooling Tower	F&E 610	29 \$13,625,000	1.205	\$16,418,125	1.253	\$17,072,125	1.303	17,753,375
62.0801	Fire Protection Equip	610	30 \$182,000	1.205	\$219,310	1.253	\$228,046	1.303	237,146
62.0805	Fire Suppression Systems	F&E 610			\$761,560	1.253	6791,896	1.303	823,496
62.1001	Turbine Generator	FAE A10			841,403,800	1.253	\$43,053,080	1.303	44,771,080
62.1201	Air Preheating Coils	610			\$120,500	1.253	\$125,300	1.303	130,300
62.1202	Auxiliary Cooling Heat Exch.	610			\$426,570	1.253	\$443,562	1.303	461,262
62.1203	Condenser and Auxiliary Equip	p 610	Breit - United Switz Schole		\$1,928,000	1.253	\$2,004,800	1.303	2,084,800
62.1204	Condenser Tubes	610			\$1,021,840	1.253	\$1,062,544	1.303	1,104,944
62.1205	Beaerator	610	SERVICE BY THE TOTAL PROPERTY FOR THE		8414,520	1.253	6431,032	1.303	448,232
62.1206	Feedwater Heaters	610	39 \$2,283,000	1.205	\$2,751,015	1.253	\$2,860,599	1.303	2,974,749
62.1211	Fuel Oil Heaters	610	41 \$56,000	1.205	\$67,480	1.253	\$70,168	1.303	72,968
62.1801	Ash Handling System	610	43 44,832,000	1.205	\$5,822,560	1.253	16,054,496	1.303	6,296,096
62.2001	Boiler Feed Pump Turbine	610	44 \$1,657,000	1.205	\$1,976,685	1.253	12,076,221	1.303	2,159,071
62.2201	High Pressure Fabricated Pip	e 610			\$5,496,005	1.253	45,714,933	1.303	5,942,983
62.2203	Ash Sluice Pipe	610	46 \$121,000	1.205	\$145,805	1.253	\$151,613	1.303	157,663
62.2205	Circulating Water Pipe	610	47 \$1,410,000	1.205	\$1,699,050	1.253	\$1,766,730	1.303	1,837,230
62.2403	Expansion Joints-Rubber	610	49 \$31,000	1.205	\$37,355	1.253	138,843	1.303	40,393
62.240B	Pipe Supports	610	50 \$535,000	1.205	. \$644,675	1.253	\$670,355	1.303	697,105
62.2414	Steam Vent Silencers	610	51 \$15,000	1.205	\$18,075		\$18,795	1.303	19,545
62.2602	Boiler Feed Pumps (Incl Star	tup) 610	52 \$1,774,000	1.205	\$2,137,670	1.253	\$2,222,822	1.303	2,311,522
62.2603	Circulating Water Pumps	610			\$706,130		\$734,258	1.303	763,558
62.2604	Condensate Pumps	61	555 \$580,000	1.205	\$698,900	1.253	\$726,740	1.303	755,740
62.2607	Fire Fumps	610			\$44,585		\$46,361	1.303	48,211
62.2610	Dil Puaps	61	57 \$30,000		\$36,150		\$37,590	1.303	39,090
62.2614	Vertical Water Pumps	61			\$353,065		\$357,129	1.303	381,779
62.2615	General Service Pumps	61	59 \$229,00		\$275,945		\$284,937	1.303	298,387
62.2802	Lube Dil Filters	61	160 \$20,00		\$24,100		\$25,060	1.303	26,060
62.3001	Auto Flushing Type Water Str	. 61	150,00		\$60,250		\$62,650		65,150
£2.3201	Air Conditioning Equipment		62 647,00		\$56,635		458,891	1.303	61,241
62.3206	Ventilating Fans	61	1229,00		\$275,545		\$286,937		296,387
52.7401	Stean Generator	FAE 61	155,270,000		\$55,500,350		\$67,253,310		72,016,610

ORLANDO UTILITIES CONVISSION STANTON UNIT 2 425 NN PRELIMINARY ESTIMATE 1-JAN-09 & REDID

SPEC NUMBER	DESCRIPTION	OUC CODE	DUC UNIT 2	1995 ESCALATION FACTOR	1995 BOLLAR TOTAL	1996 ESCALATION FACTOR	1996 BOLLAR TOTAL	1997 ESCALATION FACTOR	1997 BOLLAR TOTAL
62.3402	Forced Draft Fans	A1065	\$632,000	1.205	6761,560	1.253	\$791,896	1.303	823,496
62.3403	Induced Braft Fans	41044	\$1,061,000	1.205	\$1,278,505	1.253	01,329,433	1.303	1,382,483
62.3601	Field Erected Tanks F&E	61068	\$371,000	1.205	6447,055	1.253	4464,863	1.303	483,413
62.3602	Shop Fabricated Tanks	61069	\$193,000	1.205	\$232,565	1.253	\$241,829	1.303	251,479
62.3801	Butterfly Valver-Est. Steam	61070	\$25,000	1.205	\$36,125	1.253	631,325	1.303	32,575
62.3802	Large Butterfly Valves	61071	\$351,000	1.205	\$422,955	1.253	6439,803	1.303	457,353
62.3803	Butterfly Valves-General Serv.	61072	\$92,000	1.205	\$110,840	1.253	\$115,276	1.303	119,876
62.3804	Extraction Steam-Mon-Return V1	61073	\$204,000	1.205	1245,820	1.253	\$255,612	1.303	265,812
62.3805	M.P. Cast Stdel & M.O. Valves	- 61074	\$1,736,000	1.205	\$2,091,880	1.253	62,175,208	1.303	2,262,008
62.3807	Cast Steel Gen. Serv. Valves	61075	\$492,000	1.205	\$592,860	1.253	9616,476	1.303	641,076
62.3809	Control Valves-Gen Application	61077	\$277,000	1.205	6333,785	1.253	6347,081	1.303	360,931
62.3810	Control Valves-Spec. Application	61078	\$130,000	1.205	\$156,650	1.253	\$162,890	1.303	169,390
62.3811	Forged Steel Valves-Sen. Serv	A1080	6392,000	1.205	9472,360	. 1.253	\$491,176	1.303	510,776
62.3813	Bronze Valves-General Service	61081	\$21,000	1.205	\$25,305	1.253	126,313	1.303	27,363
62.3815	Safety and Relief Valves	61082	\$61,000	1.205	673,505	1.253	\$76,433	1.303	79,483
62.3817	Knife Gate Valves	61161	\$75,000	1.205	\$90,375	1.253	193,975	1.303	97,725
62.3818	Butterfly Valves-Spec Syce	61166	\$83,000	1.205	\$100,015	1.253	\$103,999	1.303	108,149
62.3819	Slurry Plug Valves		\$16,000	1.205	\$19,280	1.253	\$20,048	1.303	20,848
	Subtotal Mechanical Procurement		\$178,311,000		1214,864,755		6223,423,683		\$232,339,233
63.0001	Overhead Conductor		\$8,000	1.205	\$9,640	1.253	\$10,024	1.303	10,424
63.0802	Control Cable	61086	\$792,000	1:205	6954,360	1.253	\$992,376	1.303	1,031,976
63.0804	Instrument Cable	61086	\$339,000	1.205	4408,495	1.253	\$424,767	1.303	441,717
63.0806	15kV Power Cable	61088	\$659,000	1.205	\$794,095	1.253	\$825,727	1.303	858,677
63.0807	600 Volt Power Cable	61089	\$884,000	1.205	. \$1,067,630	1.253	\$1,110,158	1.303	1,154,458
63.0808	Coaxial & Spec. Purpose Cable	61087	\$97,000	1.205	\$116,885	1.253	\$121,541	1.303	126,391
63.1201	Isolated Phase Bus	61091	\$342,000	1.205	\$412,110	1.253	1428,526	1.303	445,626
63.2002	Electrical Panels	61092	\$266,000	1.205	\$320,530	1.253	\$333,298	1.303	346,598
63.2201	Hotors	61093	\$1,556,000	1.205	\$1,974,980	1.253	\$1,949,668	1.303	2,027,468
63.2601	Cable Tray	61095	\$180,000	1.205	\$216,900	1.253	\$225,540	1.303	234,540
63.2801	Batteries and Battery Chargers	61096	\$187,000	1.205	\$225,335	1.253	\$234,311	1.303	243,661
63.2803	Continuous AC Power Equipment	61097	\$176,000	1.205	\$212,080	1.253	\$220,528	1.303	229,328
63.3001	Motor Control Centers	61098	\$433,000	1.205	\$521,765	1.253	\$542,549	1.303	564,199
63.3201	Trans. & Subst. Struc. & Mat.	61099	\$531,000	1.205	\$639,855	1.253	1665,343	1.303	691,893
63.3401	Power Circuit Breakers	61101	\$500,000	1.205	\$602,500	1.253	\$626,500	1.303	651,500
63.3404	SCADA Equipment	61103	\$16,000		\$19,280	1.253	\$20,048	1.303	20,848
63.3407	Substation Control & Relay Pol	61106	\$114,000		\$137,376	1.253	\$142,842	1.303	148,542
63.3409	Fiber Optic Equipment	61215	\$30,000		\$36,150	1.253	\$37,590	1.303	39,090
63.3601	Switchgear & Sec Unit Substation	61108	43,338,000		\$4,022,250	1.253	\$4,182,514	1.303	4,349,414
92.2801	Transformers	61110	\$3,629,000		\$4,372,945		64,547,137	1.303	4,728,587
	Subtotal Electrical Procurement		\$14,079,000		\$16,965,195		\$17,640,987		\$18,344,937

ORLANDO UTILITIES CONNISSION STANTON UNIT 2 425 MM PRELINIMARY ESTIMATE 1-JAN-89 \$ REBID

	REBID								1000
SPEC NURSER	BESCRIPTION	OUC CODE	CHET 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1994 ESCALAVION FACTOR	1996 BOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TGTAL
64.0202	Coord. Control & Info Computer	41111	\$2,655,000	1.205	\$3,199,275	1.253	\$3,326,715	1.303	3,459,465
64.0204	Programmable Controllers	61112	\$624,000	1.205	6751,920	1.253	9791,672	1.303	813,072
64.0401	Annunciation Equipment	91112	\$233,000	1.205	\$280,765	1.253	1291,949	1.303	303,599
64.0404	Machinery Monitoring	61114	\$200,000	1.205	\$241,000	1.253	\$250,600	1.303	260,600
64.0602	Primary Flow Elements	61116	\$168,000	1.205	\$202,440	1.253	\$210,504	1.303	218,904
64.1401	Flue Gas Momitoring System 1	61162	\$433,000	1.205	\$521,765	1.253	8542,549	1.303	564,199
64.1601	Control Panels	61124	\$338,000	1.205	8407,290	1.253	6423,514	1.303	440,414
64.1602	Instrument Racks	61125	\$612,000	1.205	6737,460	1.253	\$766,836	1.303	797,436
64.1603	Control Relay Cabinets	61126	\$149,000	1.205	6179,545	1.253	\$185,697	1.303	194,147
	Subtotal Control Procurement		\$5,412,000		96,521,460		\$6,781,236		67,051,836
65.0202	Chemical Feed System	61127	\$121,000	1.205	\$145,805	1.253	\$151,613	1.303	157,663
65.0203	Chlorination Equipment	61128	\$60,000	1.205	\$72,300	1.253	\$75,180	1.303	79,180
65.0401	Condensate Polishing System	61129	\$1,367,000	1.205	\$1,647,235	1.253	61,712,851	1.303	1,781,201
65.0602	Water Quality Control System	61134	\$320,000	1.205	\$385,600	1.253	\$400,960	1.303	416,960
65.0801	Blowdown Treastment Equipment	61168	67,200,000	1.205	\$8,676,000	1.253	\$9,021,600	1.303	9,381,600
	Subtotal Chemical Procurement		\$9,068,000		\$10,926,940		\$11,362,204		\$11,815,604
71.0401	Pilling	61144	\$6,150,000	1.205	67,410,750	1.253	67,705,950	1.303	8,013,450
71.0402	General Comstr. Substructures	61145	\$13,300,000	1.205	\$16,026,500	1.253	\$16,664,900	1.303	17,329,900
71.0403	Beneral ConstSuperstructures	61146	\$12,330,000	1.205	\$14,857,650	1.253	\$15,449,490	1.303	16,065,990
71.0404	Painting	61147	\$1,308,000	1.205	\$1,576,140	1.253	\$1,638,924	1.303	1,704,324
71.0407	Concrete Supply	61150	\$313,000	1.205	\$377,165	1.253	\$392,189	1.303	407,839
71.0408	Construction Testing		\$1,175,000	1.205	61,415,875	1.253	\$1,472,275	1.303	1,531,025
71.0409	Ductwork Lining	61167	\$1,305,000	1.205	61,572,525	1.253	61,635,165	1.303	1,700,415
	Subtotal Structural Construction		\$35,881,000		\$43,236,605		\$44,958,893		\$46,752,943
72.0202	Heating, Ventilating & Air Con	61152	\$1,665,000	1.205	\$2,000,325	1.253	\$2,086,245	1.303	2,169,495
72.0401	Mechanical Construction	61153	\$18,560,000	1.205	\$22,364,800	1.253	\$23,255,680	. 1.303	24,183,680
72.0403	Piping and Equip. Insulation	61154	\$1,917,000	1.205	\$2,309,985	1.253	\$2,402,001	1.303	2,497,851
72.0601	Flue Gas Cla For Test		\$98,000	1.205	\$118,090	1.253	6122,794	1.303	127,694
	Subtotal Mechanical Construction		\$22,240,000		\$26,799,200		\$27,866,720		\$28,978,720
73.0201	Electrical Construction	61155	\$9,812,000		\$11,823,460	1.253	\$12,294,436		12,785,036
73.0204	T-Line & Substation Construction	61156	\$1,065,000	1.205	\$1,283,325	1.253	61,334,445	1.303	1,387,695
	Subtotal Electrical Construction		\$10,877,000		\$13,10£,785		\$13,628,881		\$14,172,731
74.0400	Elec. Test & Calibration Serv.	61157	\$1,900,000	1.205	\$2,269,500	1.253	\$2,380,700		2,475,700
75.0100	Boiler and Preboiler Cleaning	6115B	\$168,000	1.205	\$202,440		\$210,504		218,964
75.0200	Special Protective Coatings	61159	\$65,000	1.205	\$78,325		181,445		84,695
76.0100	Site Services .	61160	\$2,165,000	1.205	\$2,608,825	1.253	12,712,745	HA (1)	3,110,000
	Subtotal Control Construction		14,298,000		13,179,090		45,385,394		\$5,889,299

	REDID			50.0,550					1997
SPEC NUMBER	DESCRIPTION	OUC	OUC UNIT 2	1995 ESCALATION FACTOR	1995 DGLLAR TOTAL	ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 - ESCALATION FACTOR	BOLLAR TOTAL
90.1001	OUC Indirects						4174 488		
	Startup Bunker C Bil	61163	\$503,135	1.205	\$606,278	1.253	\$630,429	1.303	655,585
	Startup Diesel Dil	61165	\$109,090	1.205	\$131,453	1.253	1136,690	1.303	142,144
	Administrative Costs .	61201	\$2,500,000	1.205	\$3,012,500	1.253	\$3,132,500	1.303	3,257,500
	Pre-operations & Haint	61204	\$7,500,000	1.205	19,037,500	1.253	\$9,397,500	1.303	9,772,500
	Construction Management	61206	\$2,500,000	1.205	43,017,500	1.253	\$3,132,500	MA (1)	3,508,000
	Insurance	61208	\$8,500,000	1.205	\$10,242,500	1.253	\$10,450,500	1.303	11,075,500
	Special Projects	61210	\$300,000	1.205	\$361,500	1.253	4375,900	1.303	390,900
	Project Spare Parts		\$4,000,000	1.205	14,820,000	1.253	45,012,000	1.303	5,212,000
	Net Of Power Sales		(\$4,000,000)	1.205	(\$4,820,000)	1.253	(\$5,012,000)	1.303	(5,212,000)
	Subtotal BUC Indirects		\$21,912,225		\$26,404,231		\$27,456,018		\$28,802,129
90.1100	B&V Engineering Services	61203	\$23,185,000	1.205	\$27,937,925	1.253	\$29,050,805	1.303	30,210,055
90.1300	B&V Construction Mgat. Service	61707	\$14,570,000	1.205	\$17,556,850	1.253	\$18,256,210	MA (1)	21,387,000
90.2000	Project Contingency		\$25,000,000	1.205	\$30,125,000	1.253	\$31,325,000	1.303	32,575,000
90.4000	Sales Tax		\$320,000	1.205	\$385,406	1.253	\$400,960	1.303	416,960
			\$63,075,000		676,005,375		\$79,032,975		\$84,589,015
	TOTAL		421,341,225		\$507,716,177		\$528,015,677		552,173,883

NOTE (1) NIGHER COSTS DUE TO LONGER CONSTRUCTION SCHEDULE 42 MO.

APPENDIX D
CASH FLOWS SEC, UNIT 2

ORLANDO UTILITIES COMMISSION STANTON UNIT 2, 425 MM ESTIMATE AS OF 24-AUS-09	DOLLARS	I 1000									•		DOLLARS	I 1000										
CASH FLOW 1995 C.O. (REBID) DESCRIPTION	JAN 97	FEB 89	MAR 87	APR 87	NAY 87	JUN 89	JUL 89	AUS 87	SEP 89	8CT 89	MGV 87	DEC D9	JAM 79	FEB 90	682 50	APR 90	MAY 10	JAM 90	JIL 90	AUG. 96	SEP 90	ect 90	100V 90	BEC 90
IPP AMALYSIS PERMIT EXTENSION & BACT LICENSINS									20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.9	20.0	26.0						
PROJECT MANAGEMENT (DUC) ENGINEERING & PROCUMENENT CONSTRUCTION MANAGEMENT RISCELANEOUS INDIRECTS EDULPMENT & CONSTRUCTION											20.0						20.0		39.3	39.3 261.3	39.3 261.3	39.3 261.3	59.3 261.3	173.9 39.3 522.6
NORTHLY TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	40.0	20.0	20.0	20.0	20.0	20.0	10.0	20.0	39.3	300.6	300.6	300.6	320.4	739.0
FISCAL YEAR TOTAL			0.0			0.0	1019/02/08/00	TOTAL >>>	20 20.0			80.0			44.0			80.0	FY1990 T	etal >>>	861 640.5			1357.0
CURRILATIVE TOTAL	5.00 (CO) (CO)	•	•	•	•	•	•	•		40	80	100	120	140	160	100	220	240	279	500	801	1,181	1,502	

ORLANDO UTILITIES COMMISSION STANTON UNIT 2, 425 MM ESTINATE AS OF 24-AUG-09 CASH FLOW 1995 C.O. (REDID)	DOLLARS	I 1000			-								DGLLARS	I 1000										
DESCRIPTION	348	FEB 91	MAR 91	APR 91	MAY 91	30M 91	34A. 91	AUS 91	SEP 91	OCT 91	10V	DEC 91	3AM 92	FEB ·	88R 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	BEC 92
IPP AMALYSIS																								
PERMIT EXTENSION & BACT	5.8	5.8	5.8	5.8	5.8	5.8	5.0	5.8	5.8	5.8	5.8	5.8												
LICENSING	173.9	173.9	173.9	173.9	173.9	173.9	74.5	74.5	74.5	74.5	74.5	74.5	74.5											
PROJECT HANAGENERT (OUC)	39.3	39.3	39.3	39.3	59.3	39.3	39.3	39.3	39.3	39.3	59.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
ENGINEERING & PROCUREMENT CONSTRUCTION MAMAGEMENT	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	322.6 385.9	801.0 385.9	The second of the	940.7	992.9	The Control of the Control	757.8				11125550	
MISCELAMEOUS INDIRECTS	0.0	0.0	0.0	109.9	164.9	274.8	164.9	164.9	144.9	459.5	274.8	274.8	100000000000000000000000000000000000000		THE RESERVE OF	824.4	824.4					The second second		200000000000000000000000000000000000000
EQUIPMENT & CONSTRUCTION	0.0	0.0	0.0	802.5	1203.7	2006.1	1203.7	1203.7	1203.7	4814.7	2006.1	2006.1	2006.1	4012.3	8018.4	6018.4	6018.4	18456.5	10030.7	10030.7	8024.5	8024.5	8024.5	8024.5
HONTHLY TOTALS	741.5	741.5	741.5	1653.9	2130.1	3022.5	2010.8	2010.8	2010.8	6116.4	2943.1	2923.1	3303.2	5500.0	8208.7	8208.7	8260.9	22298.2	12587.6	12507.6	10513.7	10592.1	10670.5	10278.5
FISCAL YEAR TOTALS							FY1991 1	IOTAL >>>	16,420										FY1992	TOTAL >>	103,539			
GUARTERLY TOTALS			2224.6			4804.5			4032.3			11982.7			17099.9			38767.7			35488.9			31541.1
CUMULATIVE TOTALS	2,979	3,721	4,462	6,116	8,246	11,269	13,279	15,290	17,301	23,417	26,360	29,284	32,587	38,175	44,303	54,592	62,853	85,151	97,739	110,326	120,840	131,432	142,103	152,381

ORLANDO WILLTIES CONNISSION STANTON UNIT 2, 425 HD ESTINATE AS OF 24-AUG-09	BOLLARS	I 1000											DOLLARS	I 1000										
CASH FLOW 1995 C.O. (REBID) DESCRIPTION	JAN 93	FEB 93	MAR 93	APR 93	MAY MAY	3UH 93	JUL 93	AUS 93	SEP 93	621 6C1	93 93	93 BEC	3AN 94	FEB 94	### 1 94	APR 94	MAY 94	June 99	362 94	885 94	SEP 94	OCT 94	169V 94	BEC 94
IPP AMALYSIS PERMIT EXTENSION & BACT LICENSING																				39.3	39.3	39.3	39.3	39.3
PROJECT NAMAGEMENT (OUC)	39.3	39.3	All University of the last	39.3	39.3	ON STREET STREET	THE RESERVOIS	Call Distriction	相言形成的	39.3	39.3	SIN DESIGNATION OF THE PERSON NAMED IN COLUMN 1	DESCRIPTION	THE RESIDENCE OF	39.3	WHICH STREET	39.3	39.3	TO THE PERSONS	261.3	300000000000000000000000000000000000000		130.7	
ENGINEERING & PROCUMENTY CONSTRUCTION HUMAGEMENT	496.5 514.5	514.5	10.10 Calculation 2.2	574.9 514.5	PERSONAL PROPERTY.			12.73 March 1994	The state of the state of	514.5			SECTION OF THE PARTY OF THE PAR		514.5	514.5	514.5	314.5	314.5	514.5	314.5	HUMANICOS.	SHIDTERSON OF IT	514.5
MISCELANEOUS INCIDENTS	2198.4		1099.2	Control of the last of the las	Ellipholophy	September 1	SSEED MODERNA	2088.5	Sign to be designed	(S)httristod	(GE) Intributes	CONTRACTOR OF THE PARTY OF THE	Elitario de de la constanta de	1254.1	The second	1844.2	No Continues of		All Control of	120700303010		1044.2	549.6	1044.2
EQUIPMENT & CONSTRUCTION	14049.1					A STATE OF THE PARTY OF THE PAR	10030.7		SCHools (Indicated and		Of Francisco Contracts	CONTRACTOR OF THE PARTY OF THE	Manual Administra	COMMENT OF STREET		7623.3	7623.3	4012.3	4012.3	7623.3	7623.3	7623.3	4012.3	7623.3
MONTHLY TOTA	LS 19297.7	10278.5	10278.5	10252.4	19271.6	12429.0	12245.9	18124.1	13562.2	9912.7	13614.4	18228.6	18202.4	11307.4	8114.1	9482.6	9482.6	5377.0	5377.0	9482.6	9352.0	9352.0	5246.3	9352.0

FY1993 TOTAL >>>157,281 FY1994 TOTAL >>>157,281 FY1994 TOTAL >>>157,281 FY1994 TOTAL >>>127,933 GUARTERLY TOTALS 39854.8 41952.8 41952.8 43932.1 41755.7 37623.9 24342.2 24211.6 23950.3 GUARTERLY TOTALS 171,679 181,957 192,236 202,488 221,760 234,189 246,435 264,539 278,121 288,034 301,648 319,877 338,079 349,386 357,500 366,983 376,466 381,843 387,220 396,702 406,034 415,406 420,633 436,005

	DOLLARS	I 1000											BOLLARS	I 1000		
CASH FLOW 1995 C.O. (REBID)	JAN	FEB	MAR	APR	MAY	JUN	JUL.	AUS	SEP	ect	MOV	BEC	JAM	FED	MAR	TOTAL
DESCRIPTION	95	95	95	95	95	95	95	95	95	95	95	95	96	96	96	COST
IPP AMALYSIS PERMIT EXTENSION & BACT LICENSING																200 69 1,739
PROJECT NAMAGENERY (OUC)	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	2,013
ENGINEERING & PROCUREMENT	130.7	130.7	130.7	THE RESERVE	130.7	130.7						261.3				26,130
CONSTRUCTION NAMAGENERY	343.0	343.0	343.0	1 100 to	343.0	Charles to the	343.0	343.0	343.0							20,579
HISCELANEOUS INDIRECTS	1044.2	1099.2	274.8	769.4	1209.1	1209.1	1044.2	989.3	164.9	164.9	164.9	219.8	164.9	164.9	109.9	54,931
EQUIPMENT & CONSTRUCTION	7623.3	8024.5	2006.1	5617.2	8827.0	8827,6	7623.3	7222.1	1203.7	1203.7	1203.7	1604.9	1203.7	1203.7	802.5	401,222
MONTHLY TOTALS	9180.5	9636.7	2793.9	6899.6	10549.1	10549.1	9049.8	8593.7	1750.9	1407.9	1407.9	2125.4	1407.9	1407.9	951.7	507,710
FISCAL YEAR TOTALS								TOTAL >>						TOTAL >>>	#107-32-1125-02-10-10-10-1	
QUARTERLY TOTALS CUMULATIVE TOTALS			21611.1			27997.7			19394.4			4941.1		*** ***	3767.4	

STIMATE AS OF 24-AUG-89	BOLLARS	MAIS MINNEY											BOLLARS											
ASH FLOW 1996 C.O. (REBID) DESCRIPTION	JAN 90	FEB 90	888 90	APR 90	MAY 90	JUN 90	JUL 90	AUS 90	SEP 90	OCT 90	160V 90	DEC 90	36M 91	FEB 91	91	APR 91	MAY 91	J488 91	348. 91	ASS 9i	SEP 91	OCT 91	91 91	BEC 91
PP AMALYSIS ERMIT EXTENSION & BACT ICENSING	19.5	10.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	10.3	10.5				6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3 194.7	6.3 104.7	571/33100.00.53
MAJECT MANAGEMENT (DUC) HIGHERING & PROCHMENENT HISTOUCTION MANAGEMENT HISCELANEOUS INDIRECTS OUIPMENT & CONSTRUCTION	20.0				20.0						20.0						91.3	2M.3	271.3	39.3 271.3	39.3 271.3	39.3 271.3	59.3 271.3	
MONTHLY TOTAL	38.5	18.5	19.5	18.5	30.5	18.5	10.5	10.5	10.5	18.5		0.0	0.0	0.0		4.3		316.9		316.9	314.9	501.6	521.6	637.
FISCAL YEAR TOTALS	SINASUPSADESIDA		75.4			75.6	F¥1990 T	OTAL >>>	207 55.6			57.1			4.3			388.8	FY1991 T	OTAL >>>	1,403			1660.
CUMULATIVE TOTALS		57	75.6	94	133	151	170	100	207	223	264	57.1 264	264	264	270	277	342		976	1,293	1,610	2,111	2,633	

ORLANDO UTILITIES COMMISSION STANTON UNIT 2, 425 MU ESTINATE AS OF 24-AUG-89 CASH FLOW 1996 C.O. (REBID)	BOLLARS	I 1000							0118				DOLLARS	I 1000										
	JAN	FEB	IME	APR	MAY	Jun	JUL	AUG	SEP	OCT	MOV	BEC	JAN	FEB	MAR 93	APR	MAY	JUN 93	JUL 93	AUS 93	SEP 93	ect 93	NOV 93	9EC
DESCRIPTION	92	92	92	92	92	92	92	92	92	92	92	92	93	93	73	93	93	13	73	13	13	73	73	13
IPP ANALYSIS																								
PERMIT EXTENSION & BACT	6.3																							
LICENSING	184.7	184.7	184.7	184.7	79.1	79.1	79.1	79.1	79.1	79.1	79.1													
PROJECT MANAGEMENT (DUC)	39.3	39.3	39.3	39.3	59.3	39.3	39.3	39.3	39.3	39.3	59.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
ENGINEERING & PROCUREMENT CONSTRUCTION NAMAGEMENT	407.0	407.0	407.0	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7	542.7 401.0	624.1 401.0	111112222-050	976.9	1031.1	10 100000	786.9 401.0				Commence of the Commence of th	
HISCELANEOUS INDIRECTS	0.0	0.0	0.0	105.8	158.0	264.6	150.0	150.0	158.8	435.0	264.6	264.6	264.6	529.2	793.8	793.0	793.8	2434.2	1322.9	1322.9	1058.3	1058.3	1058.3	1058.3
EQUIPMENT & CONSTRUCTION	0.0	0.0	0.0	843.1	1264.6	2107.6	1264.6	1264.6	1264.6	5058.3	2107.6	2107.6	2107.6	4215.3	6322.9	6322.9	6322.9	19390.2	10538.2	10538.2	8430.5	8430.5	8430.5	8430.5
HONTHLY TOTALS	637.3	P21'0	631.0	1715.5	2104.4	3033.3	2084.4	2084.4	2084.4	6354.4	3053.3	2954.2	3355.2	5808.9	8533.8	8533.8	8588.1	23107.3	13088.3	13088.3	10931.2	11012.6	11094.0	10687.0
FISCAL YEAR TOTALS							FY1992	OTAL >>>	16,666										FY1993	TOTAL >>	>107,477			
QUARTERLY TOTAL	2.111.221.11480		1099.2			4853.3			6253.3		1	12362.0			17697.9			40309.2			37107.0			32793.5
CUMULATIVE TOTAL	3,908	4,539	5,169	6,885	8,989	12,023	14,107	16,192	18,276	24,631	27,684	30,638	33,993	39,802	40,336	56,870	65,458	88,645	101,734	114,822	125,753	136,766	147,860	158,547

RLANDO UTILITIES CONNESSION			3/94						9/94						3/95						9/95			
TANTON UNIT 2, 425 NO STINATE AS OF 24-AUS-09 ASH FLOW 1996 C.O. (REBID)	BOLLARS	I 1000											DOLLARS	I 1606										
BESCRIPTION	38E 94	FEB 94	14 14	APR 14	MAY 94	JUN 94	3UL 94	AUS 94	SEP 94	94	16V 14	94 94	JAB 95	FEB 95	95	APR 95	95	JUN 95	JUL 95	95-	SEP 95	95 95	95	BEE 95
PP AMALYSIS ERMIT EXTENSION & BACT ICENSING																								
ROJECT MANAGEMENT (OUC)	39.3		431/3/25F-2019/	39.3	39.3	39.3	DESCRIPTION OF THE PARTY OF THE	Committee of the Commit	31.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	150 00000000000000000000000000000000000	39.3	39.3	39.3	39.3	39.3	25-2072/06/2015
MOTHEERING & PROCURENENT	515.6	THE RESERVE OF THE PARTY.	PRINCIPAL COLOR	597.0	488.4	488.4 534.7	298.5 534.7	The second second	244.2	244.2	298.5 534.7	352.8 534.7	325.6 534.7	271.3 534.7	Malica September 13	271.3 534.7	271.3 534.7	WITCHEST CONTRACTOR	271.3 534.7	271.3	135.7	135.7	135.7	OF SUPPLEMENTS
OKSTRUCTION HAMAGEMENT	534.7 2114.7	The state of the s		534.7 1058.3				2010.8		(D-0/2019004)	III II and the state of	Belleville and	2010.0		846.	1005.4	1005.4	2000	SALES STATE OF THE SALES	1005.4	AND SHAREST AND ADDRESS.	1005.4	529.2	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa
DUIPHENT & CONSTRUCTION	14861.1	8430.5	Company of the Compan	Commission (Colorador Constitution	10538.2	The Control of the Co	The Particular Control of the	Control of the second second	A SECTION AND PARTY.	11802.7	16018.0	16018.0	9695.1	6744.4	8007.0	8007.0	4215.3	4215.3	8007.0	8007.0	8007.0	4215.3	8007.
HONTHLY TOTALS	20067.3	10687.0	10687.0	10659.8	20040.2	12923.5	12733.6	18847.1	14102.6	10307.1	14156.9	18935.6	18928.5	11757.5	8436.4	9859.8	1857.8	5589.8	5589.8	1857.8	9724.1	9724.1	5454.1	9724.
FISCAL YEAR TOTALS	SAME REPORT OF THE OWN							TOTAL >>							*****			25309.3	FY1995	ISTAL >>1	133,025 25173.6			24902.
QUARTERLY TOTALS CHRULATIVE TOTALS			41441.2 199,988	210,648	230,688	43623.5			45683.3 289,295	299,602		43419.6			39122.5 371,637				402,736			432,044		
			3/96						9/96						3/97									
MILANDO UTILITIES CONNISSION STANTON UNIT 2, 425 NO									"															
ESTIMATE AS OF 24-AUG-89 CASH FLOW 1996 C.O. (REDID)	BOLLARS	1 1000											BOLLARS	I 1000										
	JAM	FEB		APR		-			SEP	OCT		DEC	****	FEB			TOTAL							

JAM	FEB	MAR	APR	MAY	JUN	JUL	AUS	SEP	OCT	107	DEC	JAH	FEB	MAR	TOTAL
96	96	96	96	96	96	96	96	96	96	96	96	97	97	97	COST
	•														204
															69
															1,847
39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	2,929
135.7	135.7	135.7	135.7	135.7	135.7						271.3				27,135
356.5	356.5	356.5	356.5	356.5	356.5	356.5	354.5	356.5							21,389
1005.4	1058.3	264.6	740.8	1164.2	1164.2	1005.4	952.5	158.8	158.8	158.8	211.7	158.8	158.8	105.8	52,917
8007.0	8430.5	2107.6	5901.4	9273.6	9273.6	8009.0	7587.5	1264.6	1264.6	1264.6	1686.1	1264.6	1264.6	843.1	421,527
	10020 7	'2007 A	7477 4		100/0 2					1442 4	2200 4	1412 4	1417 4	988.2	528,016
	39.3 135.7 356.5 1005.4 8009.0	39.3 39.3 135.7 135.7 356.5 356.5 1005.4 1058.3 8009.0 8430.5	39.3 39.3 39.3 135.7 135.7 135.7 356.5 356.5 356.5 1005.4 1058.3 264.6 8009.0 8430.5 2107.6	39.3 39.3 39.3 39.3 135.7 135.7 135.7 135.7 356.5 356.5 356.5 356.5 1005.4 1058.3 264.6 740.8 8009.0 8430.5 2107.6 5901.4	96 96 96 96 96 96 39.3 39.3 39.3 39.3 39.3 135.7 135.7 135.7 135.7 135.7 356.3 356.3 356.5 356.5 356.5 1005.4 1038.3 244.6 740.8 1164.2 8009.0 8430.5 2107.6 5901.4 9273.6	39.3 39.3 39.3 39.3 39.3 39.3 39.3 135.7 135.7 135.7 135.7 135.7 135.7 136.5 356.5 3	96 96 96 96 96 96 96 96 96 96 96 39.3 39.3	96 96 96 96 96 96 96 96 96 96 96 96 96 9	96 96 96 96 96 96 96 96 96 96 96 96 96 39.3 39.3 39.3 39.3 39.3 39.3 39.3 39.3	96 96 96 96 96 96 96 96 96 96 96 96 96 9	96 96 96 96 96 96 96 96 96 96 96 96 96 9	96 96 96 96 96 96 96 96 96 96 96 96 96 9	96 96 96 96 96 96 96 96 96 96 96 96 96 9	96 96 96 96 96 96 96 96 96 96 96 96 96 9	96 96 96 96 96 96 96 96 96 96 96 96 96 9

FISCAL YEAR TOTALS FY1996 TOTAL >>> 96,649 FY1997 TOTAL >>> 9,047

BURNTERLY TOTALS 22469.8 29112.0 20165.0 5133.6 3913.4

CUMULATIVE TOTALS 456,768 466,788 469,692 476,865 487,835 498,804 508,214 517,150 518,969 520,431 521,894 524,102 525,565 527,028 528,016

68-Sep-81

TANTON UNIT 2, 425 NN STIMATE AS OF 24-AUG-89	BOLLARS	1 1000										MARINE SHEET	MILLARS I	of the last own										
ASH FLOW 1997 C.O. (REDID) DESCRIPTION	3AN 90	FEB 90	MAR 90	APR 90	MAY 90	JUNE 10	JUL 90	AUS 90	SEP 90	901	YEST 10	DEC 90 .	JAN	FEB 91	11AR	APR 91	MAY 91	38M 91	30L 91	856 91	SEP 91	0CT 91	110V 91	9EC 91
PP AMALYSIS ERMIT EXTENSION & MACT										19.1	19.1	19.1	19.1	17.1	19.1	19.1	19.1 6.3	19.1 4.3	19.1 6.3	19.1	6.3	4.3	. 4.3	4.1
ICENSING ROJECT HAMAGEMENT (OUC) HOINEERING & PROCUREMENT	20.0				20.0						20.0						20.0			39.0	39.6 281.7	39.0 281.9	59.0 281.9	WINDOWS
ONSTRUCTION MANAGEMENT ISCELAMEOUS INDIRECTS OUIPMENT & CONSTRUCTION																							•	
MONTHLY TOTAL	20.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	19.1	39.1	19.1	19.1	19.1	25.4	25.4	45.4	25.4	25.4	64.4	327.2	327.2	347.2	327.
FISCAL YEAR TOTALS	and the same of the same of the same of					20.0	FY1990 TB	TAL >>>	40			77.3			43.4				FY1991 T	STAL >>>	654 417.0			1001.
CUMULATIVE TOTALS		20	20.0	20	40	40	40	40	0.0	59	98	77.3	134	155	43.4 101	204	252	96.2	302	367	694	1,621	1,348	1,69

ORLANDO UTILITIES COMMISSION STANTON UNIT 2, 425. NU ESTINATE AS OF 24-AUG-09 CASH FLOW 1997 C.O. (REBID)	DOLLARS	I 1000											DOLLARS	I 1000										
Cush from 1997 c.o. (Menta)	JAN	FEB	MAR	APR	MAY	Jun	JUL	AUG	SEP .	OCT	NOV	.BEC	JAM	FEB	MAR	APR	MAY	JUN	JUL.	AUG	SEP	OCT	NOV	DEC
DESCRIPTION	92	92	92	92	92	92	92	92	92	92	92	92	93	93	93	93	93	93	93	93	93	93	93	93
IPP AMALYSIS			-																					
PERMIT EXTENSION & BACT	6.3																							
LICENSING	227.5	227.5	227.5	227.5	227.5	227.5	73.1	73.1	73.1	73.1	73.1	. 73.1	73.1	73.1										
PROJECT MANAGEMENT (OUC)	39.0	39.0	39.0	39.0	59.0	39.0	39.0	39.0	39.0	39.0	59.0	39.0	39.0	39.0	39.0	39.0	37.0	151/1050200	39.0			39.0		Property and the same of
ENGINEERING & PROCURENENT . CONSTRUCTION NAMASEMENT	563.4	563.8	563.8	543.8	563.8	563.8	563.0	563.8	262.8	563.0	563.8	563.8	563.8	648.4	1014.9	1014.9 373.4	1071.3 373.4	SENTENDAMENTO A	817.5 373.4	NOT THE RESIDENCE	O. C. D. Barrier Co.	986.7 373.4	10 - 25 200	A CHARLES
MISCELANEOUS INDIRECTS	0.0	0.0	0.0	0.0	0.0	110.1	145.1	275.1	145.1	165.1	165.1	640.3	275.1	275.1	275.1	550.3	825.4	825.4	825.4	2201.1	1375.7	1375.7	1100.6	1100.6
EQUIPMENT & CONSTRUCTION	0.0		0.0	0.0	0.0	877.6	1314.3	2193.9	1316.3	1316.3	1316.3	5265.4	2193.9	2193.9	2193.9	4387.8	6581.7	6581.7	4501.7	17551.3	10767.6	10969.6	8775.7	8775.7
HONTHLY TOTAL	836.6	830.3	830.3	830.3	850.3	1817.9	2157.4	3145.0	2157.4	2157.4	2177.4	6601.7-	3145.0	3229.6	3523.0	4345.4	8710.7	8778.1	8637.2	20982.4	13659.8	13744.4	11359.9	10937.1
FISCAL YEAR TOTAL							FY1992	TOTAL >>	14,457									•	FY1993	TOTAL >>	00,140			
QUARTERLY TOTAL	3		2497.2			3498.5			7459.8			10936.5			9897.6			24054.4			43279.4			36041.4
CUMULATIVE TOTAL	2,532	3,363	4,193	5,023	5,873	7,491	9,849	12,994	15,151	17,309	19,486	26,088	29,233	32,462	35,985	42,351	51,262	60,040	68,677	87,659	103,319	117,064	128,423	139,361

66-Sep-81

ORLANDO UTILITIES CRIMISSION STANTON UNIT 2, 425 M ESTINATE AS OF 20-405-00	BOLLARS	I 1000											DOLLARS :	I 1000										
CASH FLON 1997.C.O. (MEDID) DESCRIPTION	38M 94	FEB 94	HAR 94	APR 94	MAY 94	3100 94	302. 94	AUG 94	SEP 94	GCT 94	160V 94	BEC 94	JAM 95	FEB 95	MAR 95	APR 95	MAY 95	Jan 95	38 <u>1</u> 95	AUS 95	SEP 93	OCT 95	150V 15	BEC 95
IPP AMALYSIS PERMIT EXTENSION & SACT LICENSING PODJECT MANAGEMENT (BUC)	39.0	39.0	39.0	39.0	37.0	37.0	37.0	39.0	39.0	39.0	37.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.6	39.6	39.6
ENGINEERING & PROCUMENENT CONSTRUCTION MANAGEMENT HISCELAMEDUS INDIRECTS	535.6 373.4 1100.6	648.4 580.9	Contract (St.	620.2 580.9	507.4	507.4 580.9	310.1	253.7 500.9	255.1 580.9	253.7 580.9	310.1	364.5 580.9 1100.6	338.3 580.9 1100.6	ALCOHOLD STREET		281.9 560,9 540.8	201.9 500.9 1926.0	281.9 500.9 0.0	Ullimentalis	281.9 580.9 880.5	IDEB tradeout	141.0 580.9 1045.5	141.0 300.9- 550.3	141.0 580.9 550.3

8775.7 8775.7 17551.3 9653.2 9653.2 9653.2 16235.0 9653.2 9653.2 8775.7 16673.7 8775.7 8775.7 8775.7 8775.7 1755.7

MENTRLY TOTALS 10024.3 11144.5 21020.8 12104.0 11991.2 11991.2 19201.0 11737.5 10749.9 19694.8 10062.6 10034.4 10778.0 10778.0 14728.5 10105.2 901.8 12259.5 8002.8 10143.3 10143.3 5699.0 5699.0

FY1994 TOTAL >>>157,793 . FY1995 TOTAL >>>130,719

QUARTERLY TOTALS 4299.6 34086.3 42676.0 61307.3 32390.5 33815.6 31205.5 21541.2

CUMBATIVE TOTALS 150,185 161,329 182,350 194,454 206,445 210,436 237,638 249,375 261,112 271,862 291,557 302,420 313,254 324,032 334,810 349,539 367,724 348,626 300,085 309,680 399,631 409,975 415,674 421,373

BRLANDO UTILITIES COMISSION STARTOR UNIT 2, 425 mm ESTINATE AS OF 24-AUG-09 SOLLARS I 1000 CASH FLOW 1997 C.B. (REBID) DESCRIPTION IPP AMALYSIS 210 PERMIT EXTENSION & BACT 69 1,950 LICENSINS PROJECT NANAGEMENT (BUC) 39.0 39.0 39.0 39.0 39.0 39.0 39.0 39.0 39.0 39.0 **ENGINEERING A PROCUREMENT** 141.0 141.0 141.0 141.0 141.0 141.0 141.0 141.0 141.0 28,191 CONSTRUCTION NAMAGEMENT 580.9 414.9 414.9 414.9 414.9 414.9 414.9 414.9 414.9 414.9 24.895 HISCELAMEOUS INDIRECTS 1045.5 1045.5 1045.5 550.3 1045.5 1045.5 1045.5 1100.6 275.1 776.4 1210.6 1210.6 1045.5 990.5 165.1 110.1 110.1 220.1 110.1 110.1 110.1 110.1 55,629 8336.9 8336.9 8336.9 4387.8 8336.9 8336.9 8336.9 8775.7 2193.9 6143.0 9653.2 9653.2 8336.9 7898.1 1316.3 877.6 877.6 1755.1 877.6 877.6 877.6 877.6 438,783 ------552,174 MEMITIMLY TOTALS 10143.3 10143.3 10143.3 5699.0 10143.3 10143.3 10637.1 3063.9 7508.3 11450.7 11317.0 9036.4 9342.5 2217.3 1441.6 1441.6 2014.3 1026.6 1026.6 1026.6 1026.6

FISCAL YEAR TOTALS
FY1996 TOTAL >>> 99,166
FY1996 TOTAL >>> 33,177
GUARRIERLY TOTALS
30429.8
25985.5
21209.3
32612.9
13001.4
4482.5
3079.9
CUMBLATIVE TOTALS 431,516 441,659 451,802 457,501 467,645 477,788 488,425 491,489 498,997 510,456 521,774 531,610 540,953 543,170 544,611 546,053 548,067 549,094 550,121 551,147 552,174

68-5ep-6

ORLANDO UTILITIES CONSISSION STANTON UNIT 2, 625 NO ESTINATE AS OF 24-AUG-09	BOLLARS	I 1000										1	BOLLARS	1 1000										
CASH FLOW 1995 C.O. (REPLICA) DESCRIPTION	JAR 07	FEB 89	MAR 89	6PR 89	NAY 89	JUN 89	JUL 09	AUS 89	SEP 89	0CT 89	10V - 89	DEC B9	JAN 90	FEB 90	MAR 90	A78 90	MAY 90	MM6 02	34A. 90	AUS 90	SEP 90	BCT 90	101	99 99
IPP AMALYSIS PERMIT EXTENSION & BACT LICENSIMS PROJECT MANAGEMENT (DUC)									20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	1			41.1		41.1
ENGINEERING & PROCUMENT CONSTRUCTION HAMAGENERY MISCELANEOUS INDIRECTS EQUIPMENT & CONSTRUCTION																					•		219.9	329.9
NEWTHLY TOTAL	\$ 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	40.0	20.0	20.0	20.0	20.0	20.0	60.0	20.0	0.0	0.0	0.0	41.1	454.9	544.6
VEARLY TOTAL COMMITTERLY TOTAL	AND WORLD TO STATE						FY1909	TOTAL >>>	20.0			80.6			60.6			80.0			0.0			1040.0
COMPLATIVE TOTAL	5 ()	•	•	•	•	•	20	40	80	100	120	140	160	100	220	240	240	240	240	281	736	1,281

ORLANDO UTILITIES COMMISSION STANTON UNIT 2, 425 NU ESTINATE AS OF 24-AUG-09 CASH FLOW 1995 C.O. (REPLICA)	DOLLARS	I 1000											BOLLARS	I 1000										-
	JAM	FEB	MAR	APR	MAY	Jun	JIL	AUS	SEP 91	OCT 91	10V	9EC 91	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL. 92	MIS 92	SEP 92	9CT	10V 92	BEC 92
DESCRIPTION	91	91	91	91	91	91	91	71	71	- 41	*11	71	74		74	74								
IPP ANALYSIS .												•												
PERMIT EXTENSION & BACT	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8												
LICENSING	173.9	173.9	173.9	173.9	173.9	74.5	74.5	74.5	74.5	74.5	74.5	74.5			•									
PROJECT HAMAGENERT (OUC)	41.1	41.1	41.1	41.1	61.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
ENGINEERING & PROCUREMENT CONSTRUCTION MAMAGEMENT	439.8	439.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8	505.8 385.9	549.8 385.9	791.7 385.9	791.7 385.9	835.7 385.9	747.7 385.9	AUTODO DE SERVE		COLUMN DESCRIPTION		St. 10 (400) 200 270	
MISCELANEOUS INDIRECTS	0.0	0.0	0.0	95.7	143.6	239.3	143.6	143.6	143.6	574.4	239.3	239.3	239.3	478.7	718.0	718.0	718.0	2201.9	1196.7	1196.7	957.3	957.3	957.3	957.3
EQUIPMENT & CONSTRUCTION	0.0	0.0	0.0	797.4	1196.0	1993.4	1196.0	1196.0	1196.0	4784.2	1993.4	1993.4	1993.4	3986.8	5980.2	5980.2	5980.2	18339.4	9967.0	9967.0	7973.6	7973.6	7973.6	7973.6
MONTHLY TOTALS	660.5	460.5	726.5	1619.6	2084.2	2859.9	1966.8	1966.8	1944.8	5985.8	2879.9	2859.9	3165.5	5442.2	7916.9	7914.9	7960.9	21715.9	12228.4	12228.4	10190.3	10256.2	10322.2	9992.4
YEARLY TOTALS							FY1991	TOTAL >>	15,554										FY1992	TOTAL >	>100,491			
QUARTERLY TOTALS	1		2047.6			4545.7			5900.4			11725.6			16524.6			37593.6			34647.1			30570.8
CUMULATIVE TOTALS	1.941	2,602	3,328	4.948	7.634	9,894	11,841	13,828	15,794	21,780	24,660	27,520	30,686	36,128	44,045	51,962	59,922	81,638	93,867	106,093	116,285	126,542	134,864	146,856

RLANDO UTILITIES COMMISSION TANTON UNIT 2, 425 MI STIMATE AS OF 24-AUG-09	MULANS	I 1000											OLLARS	I 1000										
ASH FLOW 1995 C.O. (REPLICA) DESCRIPTION	JAN 93	FEB 93	MAR 93	478 93	NAY 93	Jim 93	34A 93	93	92 93	93 93	42 NSA	93 93	JAR 94	FEB 14	MAR 94	APR 94	55AY 94	Jan 94-	38 <u>L</u> 94	A66 94	SEP 94	OCT 94	100y 94	BEC 94
PP AMALYSIS ERMIT EXTENSION & BACT ICENSING																								
ROJECT MANAGEMENT (GHC)	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	STATE STATE
NGINEERING & PROCUMENENT	417.8	505.8	All Participants	60 (1) (2) (3) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	PHILIPPING (CO.)	395.0	STREET, STREET	N 14 20 20 11 1		197.9	241.9	The Part of the Pa	263.9	Contract of the last	217.9	219.9	219.9	219.9	219.9	219.9	110.0	110.0	110.0	Children and Addison
DESTRUCTION MANAGEMENT	514.5	514.5		514.5		514.5	514.5	514.5	温からかは、	314.3	314.5	514.5	514.5	ISS or the second	514.5 7/3.9	514.5 909.5	214.5	470.7	478.7	969.5	909.5	969.5	470.7	
ISCELANEOUS INDIRECTS OUIPMENT & CONSTRUCTION	1914.7 15947.3	957.3 7973.6	957.3 7973.6	957.3 7973.6	1914.7	9967.0	9967.0	15149.9	11162.1	957.3 7973.6	11162.1	15149.9	15149.9	9169.7	Sales and	7575.0	7575.0	A Marinist C	3984.0	7575.0	7575.0	7575.0	3986.8	7575.
HENTIRLY TOTAL	\$ 18835.4	9992.4	9992.4	9970.4	10013.4	12115.1	11961.2	17722.4	13256.9	9684.5	13300.9	17810.3	17788.3	11046.1	7920.3	9259.9	9259.9	5241.0	5241.0	9259.9	9150.0	9150.0	5131.0	9150
YEARLY TOTAL	5						FY1993	TOTAL >>	153,230										FY1994 1	OTAL >>	DANGERS SHRIPTING			
QUARTERLY TOTAL	\$		38820.1			40070.7			42940.4			40795.7			36754.7			23760.8			23650.9			23431

ORLANDO UTILITIES COMPISSION STANTON UNIT 2, 425 M ESTINATE AS OF 24-AUG-89	DOLLARS	I 1000											DOLLARS	I 1000 .			
CASH FLOW 1995 C.O. (REPLICA)	JAM	FEB	MAR	APR	MAY	JUN	JUL	AUS	SEP	OCT	MOV	DEC	JAM	FEB	MAR	. 101	455-00
DESCRIPTION	95	95	95	95	95	95	95	95	95	95	95	93	96	96	96		IST
IPP AMALYSIS PERMIT EXTENSION & BACT LICENSING																	200 69 739
PROJECT HANAGEHENT (OUC)	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1		813
ENGINEERING & PROCUREMENT	110.0		110.0	110.0	THE PERSON NAMED IN	110.0	20 5 5					219.9					991
CONSTRUCTION MANAGEMENT	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	•						20	,579
MISCELAMEOUS INDIRECTS	909.5	957.3	239.3	670.1	1053.1	1053.1	909.5	861.6	143.6	143.6	143.6	191.5	143.6	143.6	95.7	47	,867
EQUIPMENT & CONSTRUCTION	7575.0	7973.6	1993.4	5581.5	8771.0	8771.0	7575.0	7176.3	1196.0	1196.0	1176.0	1594.7	1196.0	1196.0	797.4		,682
MONTHLY TOTAL	8978.5	9425.0	2726.8	6745.7	10318.1	10318.1	8848.5	8422.0	1723.7	1380.7	1380.7	2047.2	1380.7	1380.7	934.2		,940
YEARLY TOTAL	,						FY1995	TOTAL >>	90,957				FY1996	TOTAL >>>	8,504		
QUARTERLY TOTAL	3		21130.3			27382.0			19014.2			4808.7			3495.7		

CUMULATIVE TOTALS 426,887 436,312 439,039 445,785 456,103 466,421 475,289 483,711 485,435 486,816 488,197 490,244 491,625 493,005 493,940

ORLANDO UTILITIES CONNISSION STANTON UNIT 2, 425 NN ESTINATE AS OF 24-AUG-89	DOLLARS	Section 100 Control											BOLLANS	I 1000										
DESCRIPTION	JAN 90	FEB 90	MAR 90	APR 90	MAY 90	June 90	JUL 90	AUS 90	SEP 90	OCT 90	NOV 90	BEC 90	36M 91	FEB 91	MAR 91	APR 91	MAY 91	36M 91	JUL 91	AUG 91	SEP 91	0CT 91	100V 91	BEC 91
PP ANALYSIS ERNIT EXTENSION & BACT ICENSING ROJECT NANAGENENT (BUC)	18.5	10.5	10.5	18.5	18.5	10.5	10.5	10.5	10.5	18.5	10.5				4.3	4.3	6.3	6.3	4.3	6.3	4.3	6.3	184.7	6. 184 42
RETREETING & PROCUMENTAL DISTRUCTION MANAGEMENT ISCELANEOUS INDIRECTS BUIPHENT & CONSTRUCTION																							229.3	342
MONTHLY TOTALS	38.5	10.5	18.5	18.5	30.5	18.5	18.5	10.5	18.5	10.5	30.5	0.0	0.0	0.0	4.3	4.3	26.3	6.3	6.3	6.3	4.3	40.5	481.5	575.
VEARLY TOTALS QUARTERLY TOTALS CHARATIVE TOTALS		57	75.6 76	11	133	75.6 151	FY1990 T	OTAL >>> 100	207 55.6 207	225	264	57.1 264	264	264	6.3 270	211	303	38.1	FY1991 T 315	OTAL >>> 322	121 10.9 328	377		1105
RLAMBO UTILITIES COMMISSION TAMTON UNIT 2, 425 NU STIMATE AS OF 24-AUG-09 ASM FLOW 1994 C.O. (REPLICA)	DOLLARS	I 1000											DOLLARS	I 1000										
DESCRIPTION	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	9CT 92	NOV 92	BEC 92	JAM 93	FEB 93	MAR 93	APR 93	MAY 93	93 93	JUL 93	AUS 93	SEP 93	OCT 93	10V 93	93
IPP AMALYSIS																					•			

CASH FLOW 1994 C.O. (REPLICA)																								
	JAN	FEB	MAR	APR	MAY	Jun	JUL	AUS	SEP	OCT	HOV	DEC	JAM	FEB	MAR	APR	MAY	JUN	JUL	AUS	SEP	OCT	MOV	DEC
DESCRIPTION	92	92	92	92	92	92	92	92	92	92	92	92	93	93	93	93	93	62	93	93	93	93	93	93
IPP AMALYSIS																								
PERMIT EXTENSION & BACT	6.3																							
LICENSING	184.7	184.7	184.7	184.7	184.7	79.1	79.1	79.1	79.1	79.1	79.1	79.1												
PROJECT NAMAGENERT (DUC)	42.3	42.3	42.3	42.3	62.3	42.3	42.3	42.3	42.3	42.3	62.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
ENGINEERING & PROCUREMENT	456.6	456.6	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1		525.1	570.8	821.9	821.9	867.6	776.2	662.1	447.1	730.6	799.1	847.4	525.1
CONSTRUCTION MANAGEMENT													401.0	401.0	Number of the second second	401.0	401.0	401.0	401.0	401.0	534.7	534.7	534.7	CONTRACTOR OF THE PARTY OF THE
MISCELANEOUS INDIRECTS	0.0	0.0	0.0	99.6	149.4	248.9	149.4	149.4	149.4	597.4	240.9	248.9	248.9	497.8	746.0	746.0	744.8	2290.1	1244.6	1244.6	995.7	995.7	995.7	995.7
EQUIPMENT & CONSTRUCTION	0.0	0.0	0.0	829.3	1243.9	2073.2	1243.9	1243.9	1243.9	4975.6	2073.2	2073.2	2073.2	4146.4	6219.5	6219.5	6219.5	19073.2	10365.9	10365.9	8292.7	8292.7	8292.7	8292.7
HORTHLY TOTAL	6 689.8	483.5	752.0	1680.9	2165.3	2968.6	2039.8	2039.8	2039.8	6219.5	2988.6	2968.6	3290.5	5450.3	8231.5	8231.5	8277.2	22582.9	12715.9	12715.9	10594.0	10664.4	10732.9	10390.5
YEARLY TOTAL	5						FY1992	TOTAL >>	16,165										FY1993	TOTAL >>>	104,476			
QUARTERLY TOTAL	S		2125.4		10.11	6814.8			6119.3			12176.0			17180.3			39091.5			36027.7			31787.9
CUMULATIVE TOTAL	8 2,124	2,807	3,559	5,240	7,405	10,374	12,414	14,454	The state of the state of the	22,713	25,701	28,670	31,961			54,082	62,359	LiD rocost to Frontier				131,634	142,367	Charles Hall Services of

SPLANDO UTILITIES COMISSION STANTON UNIT 2, 425 PM ESTIMATE AS OF 24-ANG-09	DOLLARS	I 1000		•									BOLLARS	I 1000										
CASH FLOW 1996 C.O. (REPLICA) RESCRIPTION	JAM 94	FEB	MAR	APR	MAY	J488 94	JUL 94	AUS 94	SEP 94	OCT 94	MDV 94	BEC 94	JAM 95	FEB 93	MAR 93	APR 95	MAY 95	JUN 95	JUL 95	A46 95	SEP 95	OCT 93	110V 93	BEC 95
BEGUNIT TIES	-																							
PP AMALYSIS ERMIT EXTENSION & BACT ICENSING																								
ROJECT NAMAGEMENT (OUC)	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3		900 25 500
IGINEERING & PROCUREMENT	433.8	525.1	525.1	502.3	411.0	411.0	251.1	205.5	205.5	205.5	251.1	296.8	274.0	228.3	220.3	228.3	228.3	NUMBER OF STREET	228.3	228.3		114.2		#11 11 12 1 12 1 12 1 1 1 1 1 1 1 1 1 1
ONSTRUCTION MANAGEMENT	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	\$34.7	534.7	534.7	334.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.
ISCELANEOUS INDIRECTS	1991.4	995.7	995.7	995.7	1991.4	1244.6	1244.6	1071.0	1394.0	995.7	1394.0	1891.8	1971.8	1145.0	794.6	945.9	945.9	497.8	497.8	945.9	945.9	945.9	497.8	The second second
BUIPMENT & CONSTRUCTION	16585.4	8292.7	8292.7	8292.7	14585.4	10365.9	10365.9	15756.2	11609.8	8292.7	11609.8	15756.2	15756.2	9536.6	6634.2	7978.1	7878.1	4165.4	4146.4	7878.1	7878.1	7878.1	4146.4	7678.
MONTIOLY TOTAL	\$ 19507.6	10390.5	10390.5	10367.6	19564.7	12598.4	12438.4	18430.4	13786.2	10070.8	13831.9	18521.7	18498.9	11486.9	8234.0	9629.3	9629.3	5449.5	5449.5	9429.3	9515.1	9515.1	5335.3	9515.
YEARLY TOTAL	6						FY1994	TOTAL >>	159,342										FY1995 1	OTAL >>>	129,948			
QUARTERLY TOTAL	5		40368.5			42530.8			44655.2			42424.5			38221.0			24708.0			24593.0			24365.
CUMULATIVE TOTAL	\$ 172.345	182,735	193.124	263,494	223.058	235.457	248.095	244.524	200.312	290.383	304.215	322.734	341.235	352,722	360,950	370,588	380,217	385,666	391,116	400,745	410,260	419,775	425,111	434,62

IRLANDO UTILITIES COMISSION BIANTON UNIT 2, 425 NN ESTINATE AS OF 24-AUG-09 CASH FLOU 1996 C.O. (REPLICA)	7.5x100000	OLLARS 1	I 1000											BOLLARS	I 1000		
DESCRIPTION		34H 96	FEB 96	MAR 94	APR 16	MAY 96	3UM 96	JUL 96	AUG 96	SEP 94	0CT 96-	96	DEC 96	3AM 97	FEB 97	MAR 97	TOTAL
IPP AMALYSIS PERNIT EXTENSION & BACT LICENSING																	1,0
ROJECT MAMAGEMENT (OUC) ENGINEERING & PROCUREMENT		42.3 114.2	42.3 114.2	42.3	42.3 114.2	42.3 114.2	The second record	42.3	42.3	42.3	42.3	42.3	42.3 228.3	42.3	42.3	42.3	2,1
CONSTRUCTION MANAGEMENT		356.5	354.5	356.5	354.5	356.5	356.5	356.5		356.5							21,
HISCELANEOUS INDIRECTS EQUIPMENT & CONSTRUCTION		945.9 7878.1	995,7 8292.7	248.9 2073.2	697.0 5804.9		1095.3	11 10 3500000	- Orthodoxy	149.4	1243.9	1243.9	1658.5		10202-000	99.6 829.3	414,6
HOKTHLY TO	TALS	9336.9	9801.3	2835.0	7014.8	10730.1	10730.1	9222.7	8758.3	1792.0	1435.5	1435.5	2120.2	1435.5	1435.5	971.1	513,
YEARLY TO	TALS							FY1996	TOTAL >>	94,587				FY1997	TOTAL >>>	8,841	
QUARTERLY TO	TALS			21973.1			28475.0			17773.0			4999.3			3842.1	

CUMULATIVE TOTALS 443,963 453,764 456,599 463,614 474,344 485,074 494,297 503,055 504,847 506,282 507,718 509,846 511,282 512,717 513,688

FANTON UNIT 2, 425 NV STIMATE AS OF 24-AUG-09	DOLLARS	1 1000											BOLLARS 1	1000										
ASH FLOW 1997 C.O. (REPLICA)	366	FEB	HAR	APR	MAY	100	JUL .	AUG	SEP	BCT		BEC	368	FEB	MAR	APR	MAY	300	18L	91	SEP 91	OCT	H07	91
DESCRIPTION	90	90	90	90	70	10	79	19	90	19		79	91	91	····						<u> </u>	<u></u> .		
P AMALYSIS EMIT EXTENSION & RACT LICENSING										17.1		19.1	19.1	19.1	6.3	6.3	6.3	6.3	6.3	4.3	4.3	4.3	4.3	٠
IOJECT MANAGEMENT (DUC) IGHEERING & PROCUREMENT INSTRUCTION MANAGEMENT SCELAMEOUS INDIRECTS INTPRENT & CONSTRUCTION	26. 5				20.0						20.0				1		20.0						20.0	
MONTHLY TOTAL	20.0	0.0	0.0	0.0	20.6	0.0	0.0	0.0	0.0	19.1	39.1	19.1	19.1	19.1	25.4	25.4	45.4	25.4	25.4	25.4	6.3	4.3	26.3	
YEARLY TOTAL							FY1990 T	STAL >>>	- 40										FY1991 T	OTAL >>>	294			
GUARTERLY TOTALS			20.0			20.0			0.0		48	77.3	134	135	43.4	204	252	96.2	302	328	37.1	340	367	31
CUMULATIVE TOTAL	1 20	20	20	20	40	40	40	**	40	39	70	117	136	133	181	200	191	211	392	328	331	340		
LANDO UTILITIES COMMISSION ANTON UNIT 2, 425 MV																								
TINATE AS OF 24-AUG-89 SH FLOW 1997 C.O. (REPLICA)	BOLLARS	Sales Sales and III									<u>. </u>		BOLLARS											
DESCRIPTION	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	92	JUL 92	92	SEP 92	92	NOV 92	BEC 92	340	FEB 93	93	PPR 93	MAY 93	70	98.	93	SEP 93	93	52 MA	BE 1

CASH FLOW 1997 C.B. (REPLICA)																								
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUS	SEP	OCT	NOV	BEC	JAM	FEB	MAR	APR	MAY	JUN	JUL	AUS	SEP	OCT	VON	DEC
DESCRIPTION	92	92	92	92	92	92	92	92	92	92	92	92	42	93	62	93	93	93	42	93	93	93	93	93
IPP ANALYSIS					VIII OF																			
PERMIT EXTENSION & BACT	6.3																							
LICENSING		227.5	227.5	227.5	227.5	227.5	227.5	73.1	73,1	73.1	73.1	73.1	73.1	73.1	73.1								TO STATE	
PROJECT MANAGEMENT (OUC)	41.8	41.0	41.8	41.8	61.8	41.8	41.8	41.8	41.0	41.8	41.0	41.8	41.0	41.6	41.0	41.8	41.8	41.0	41.8	41.8	1110 Oskonovivia	41.8	41.0	Participation of
ENGINEERING & PROCURENENT		237.2	355.7	474.3	474.3	545.5	545.5	545.5	545.5	345.5	545.5	545.5	545.5	545.5	545.5	545.5	592.9	853.8	822.0	901.2	806.3	687.7	100000000000000000000000000000000000000	
CONSTRUCTION NAMAGENERY																373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
HISCELAMEDUS INDIRECTS	0.0	0.0	0.0	0.0	0.0	103.5	155.3	258.9	155.3	155.3	155.3	621.3	258.9	258.9	258.9	517.7	776.6	776.6	776.6	2070.8	1294.3	1294.3	1035.4	1035.4
EQUIPMENT & CONSTRUCTION	0.0	0.0	0.0	0.0	0.0	863.2	1294.8	2158.1	1294.8	1294.8	1294.8	5179.4	2150.1	2150.1	2150.1	4316.1	6474.2	6474.2	6474.2	17264.5	10790.3	10790.3	8432.3	8632.3
MONTHLY TOTALS	48.1	506.5	625.0	743.6	763.6	1781.5	2264.9	3077.3	2110.6	2110.6	2130.6	6461.0	3077.3	3077.3	3077.3	5794.6	8278.9	8519.8	8519.8	20651.8	13306.2	13187.6	10770.7	10841.8
																			FY1993	MATAL	. 85 005			
YEARLY TOTALS QUARTERLY TOTALS			1179.6			3288.8	111992	TOTAL >>>	7452.8		1	10702.2			9232.0			22593.3	North Politics (S)	101ML //	42477.8			34800.2
CUMBLATIVE TOTALS		928		2,296	3,060	CONTRACTOR CONTRACTOR AND ADDRESS OF	7,106	10,184		14,405				29,151	The second second second	38,023	46,302	Control Control Service		83,993			121,258	132,100

ETAMION UTILITIES CONNISSION STANION UNIT 2, 425 NB ESTINATE AS OF 24-AUG-09	BOLLARS	I 1000											BOLLARS	E 1000	•									
DESCRIPTION	JAN 94	FEB 94	MAR 94	479 14	NAY 94	388 94	Jan. 94	AUS 94	SEP 94	OCT 94	160V 94	94 ·	38E 95	FEB 95	15AR	APR 95	MAY 95	JUN 95	75.	95	SEP 95	95	95	95 95
PP AMALYSIS EMMIT EXTENSION & MACT JCENSING MOJECT NAMAGENENT (GMC) MGINEERING & PROCUMENENT	41.8 830.0	41.8	61.8 565.5	41.8 450.4	41.8 545.5	41.8	41.6 521.7	61.8 426.7	41.8 426.9	41.8	41.8 213.4	41.6	61.8 213.4	41.6	41.0	41.0	41.8	- 1405-com	41.0 237.2	41.8 237.2	41.8 237.2 500.9	41.8 237.2 500.9	41.8 237.2 500:9	118.
CONSTRUCTION NAMAGEMENT HISCELANEOUS INDIRECTS COULPRENT & CONSTRUCTION	373.4 1035.4 8632.3	1035.4 8632.3	580.9 2070.8 17264.5	500.9 1139.0 9495.5	380.9 1139.0 9493.5	380.9 1139.0 9495.3	1915.5 19949.7	1139.0 9495.5	1139.0 9493.5	1035.4 8632.3	1967.3 16401.3	1035.4 8632.3	1035.4 8632.3	1035.4 8632.3	1035.4 1632.3	1447.6 12085.2	380.9 1912.0 15106.5	580.9 0.0 0.0	1190.7	6995.8	983.7	983.7	517.7 4316.1	517.
HONTHLY TOTAL	5 10913.0	11191.6	20503.5	11707.8	11802.6	11002.6	19029.7	11684.1	11484.1	10551.3	17204.8	10303.9	10303.9	10551.3	10399.7	14442.1	17778.3	859.9	11977.7	8594.0	10044.2	10044.2	5693.7	3575.
VEARLY TOTAL QUARTERLY TOTAL CHRILATIVE TOTAL		154,204	42508.1 174.708	186,415	198,218	35313.0 210.021		10TAL >>	42397.8		282,175	40259.9 292,678	303,102	313,734	31653.8 324,332	330,774	356,553	33080.3			30615.9		403,766	21313.

	BOLLARS	I 1000								Ne			BOLLARS	I 1000				in a like				
CASH FLOW 1997 C.O. (REPLICA)	JAM	FEB	MAR	APR	MAY	Jun	JAL	Atlia	SEP	OCT	. NOV	338	368	FEB	MAR	APR	MAY	JUN	JUL.	606	SEP	TOTAL
DESCRIPTION	96	96	96	96	96	96	96	96	96	96	96	96	97	97	97	97	97	97	97	97	97	Ces
IPP AMALYSIS PERMIT EXTENSION & DACT LICENSING																						1,9
ROJECT MANAGEMENT (OUC)	41.0	41.0	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.0	41.8	41.8	41.0	41.8	41.8	41.8	41.8	41.8	3,0
MGINEERING & PROCUMENENT	110.6	118.6			118.4	110.6	and designations		118.6					237.2								23,7
ONSTRUCTION MANAGEMENT	580.9	580.9	580.9	580.9	580.9	580.9	580.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9				TALE	West 12	24,8
ISCELANEOUS INDIRECTS	983.7	983.7	983.7	517.7	983.7	983.7	1035.4	258.9	724.8	1087.2	1087.2	983.7	931.9	155.3	155.3	155.3	207.1	103.5	(1 (42) Bills (42)	103.5	103.5	51,7
OUTPHENT & CONSTRUCTION	. 8200.6	8200.6	8200.6	4316.1	8200.6	8200.6	8632.3	2158.1	6042.6	9063.9	9063.9	8200.6	7769.0	1294.8	1294.8	1294.8	1726.5	863.2	863.2	863.2	863.2	431,6
MONTHLY TOTALS	9925.6	9925.6	9925.6	5575.1	9925.6	9925.6	10409.0	2992.3	7342.7	10607.8	10607.8	9641.1	9157.7	2144.1	1906.9	1906.9	1975.4	1008.6	1008.6	1008.6	1008.6	537,2
YEARLY TOTALS							FY199A	TOTAL >>	97.260										FY1997	OTAL >>	51,982	
QUARTERLY TOTALS			29776.8			25424.4			20744.0			30856.7			13208.7			4890.9			3025.8	
CURREATIVE TOTALS	419.767	429.193			454.419	464.545	474.954	477.946	485.289	495.897	504.504	514.145	525,303	527.447	529,354	531,261	533,236	534,245	535,254	536,262	537,271	

APPENDIX E COST ESTIMATES CT'S C&D ORLANDO UTILITIES COMMISSION COMBUSTION TURBINE PROJECT - C & D

THO FR 7 CT'S JUNE 1972 CONHERCIAL OPERATION ALL COSTS ARE EXPRESSED IN 1,000 S PROJECT COST SUMMARY

BAY PROJECT: 15399.021

SPEC MURBER	DESCRIPTION .	SUBGET	ORIGINAL CONTRACT	APPROVED CHANGE DRDERS	CONTRACTOR I	CURRENT CONTRACT TOTAL	ESTIMATED CHANGE ORDERS	CONTINGEN	Y ESCALATION (0000beb	ONTRACT AT	SALES TAX	QUC CONTRACT COSTS	CURRENT ESTIMATED COST
62,1001	Condustion Turbine Benerators	\$33,570	10	10		10		630	0 5645 ((5)	631,670	\$1,900	10	633,570
P3'080F(1)		6131	10	60		50			0 10 ((6)	6124	67	80	SECURITY TO SECURE A SEC
63.0804	Cable	\$268	10	10	0	50		6	10 \$30		6253	615	60	1268
63.1000	Generator Tora Equip	\$339	10	10		80			438		\$320	919	80	\$339
63.3201	Substation Struc & Eq	485	40	10		60			6 610		130	95	80	185
63.3801	Semerator Transformer (C & D)	61,644	40	10		80			5 5184		61,551	693	60	61,644
	General Construction (C & B)	\$2,905		40		10		62			62,740	8164	80	62,905
71.0402		\$961	10	10		50			SHOW THE REAL PROPERTY.		8906	654	. 80	6961
73.0201	Electrical Construction (C & B)	ALL THE STREET, STREET	- 50			80				11	\$165 (2)	610	50	6175
	Spare Parts (2)	6175		90		The second secon			5 6164	Said.	61,364	60 (4)	96	61,364
	Indirects (BAV) Engineering	61,364	60	10		60			10 629		\$241	80 (4)		6241
	Indirects (D&V) Const. Mgnt.	6241	10	10		Marie Trans.			SERVICE STATES OF THE SERVICE AND ADDRESS.		6336	. 60 (4)		4336
-	OUC Indirects	\$336	10	10		90		7.	10 . 60	103				6451
	Project Contingency 8 1 I	6451	10	60	•	- 40	•	0	10 651		\$426	\$26		9931
	SUBTOTAL	842,470	50	10		80		0 67	49 81,591		\$40,176	62,294	. "	642,470
62.1001A	QUIET COMBUSTOR IF REG'B BY DER	\$2,733	90	50		84	•	0 1	25 653	(5)	\$2,578	6155		62,733
	TOTAL	645,203	10	\$0			•	0 87	74 \$1,644		642,754	82,449		945,203

(1) Combustion Turbines & B. D. Project 14137.
(2) Majority of spare parts included with Combustion Turbine Generator.
(3) Escalation based on 5.231 per year unless noted or included in base quote.
(4) Sales Tax Not Required
(5) Escalation at 5.61 based on firm price to January 1991.
(6) Escalation included in quoted price.

GRLANDO UTILITIES CONNISSION COMBUSTION TURBINE PROJECT - C & D

THO FR 7 CT'S JUNE 1993 COMMERCIAL OPERATION ALL COSTS ARE EXPRESSED IN 1,600 6 PROJECT COST SUNNARY

BAYE: 08-Sep-89 BAY PROJECT: 15399.021

SPEC MUNDER	DESCRIPTION	DUDGET	DRIGINAL CONTRACT	AFPROVED CHAMSE ORDERS	C.O.	CURRENT CONTRACT TOTAL	ESTIMATED CHANGE ORDERS	CONTINGENCY	ESCALATION (3)	CONTRACT AT COMPLETION	SALES TAX	OHC CENTRACT COSTS	CURRENT ESTINATED COST
62.1001	Condusting Turbine Senerators	635,240	60	90		90			62,220 (5)	633,265	61,995	10	\$35,260
63.0806(1)		\$131	10	50		10		10	60 (6)	6124	67	10	6131
63.0804	Cable	\$282	10	10		50	86	\$20	944	8266	616		\$282
63.1000	Generator Tero Equip	4357	50	50		50		926	655	6337	620		9357
63.3201	Substation Struc & Eq	689	10	10		10		96	819	484	65	10	189
63.3801	Generator Transformer (C & D)	61,731	60	10		80		\$65	9268	61,633	198	10	\$1,731
71.0402	Scarral Construction (C & D)	63,057	60	60		10		6219	6473	\$2,884	6173	10	\$3,057
73.0201	Electrical Construction (C & D)	61,011	10	80		10		673	\$156	8954 (2)	657	10	61,011
	Spare Parts (2)	\$175	10	50	2007/03/201	. 00		615	10 (-)	\$165	610	10	0175
	Indirects (B&V) Engineering	61,435	90	10		60		625	\$235	\$1,435	50 (4)	10	\$1,435
SECTION AND ADDRESS.	Indirects (B&V) Const. Mgat.	\$254	- 10	80		60		0 50	642	6254	10 (4)	10	6254
	OUC Indirects	8336	10	80		80		0 50	60 (6)	6336	80 (4)		9334
	Project Contingency @ 1 %	6475	\$0	10	0	10		0 60	673	\$448	627	10	6475
	SUBTOTAL	644,573	50	60		80	AND DESCRIPTION OF THE PARTY OF		13,580	642,165	62,408	10	844,573
62.1001A	QUIET COMBUSTOR IF REQ'D DY DER	\$2,868	50	80		50		0 525	\$181 (S	12,706	6162	50	92,968
	TOTAL	147,441	10	80	,	80		0 6774	63,761	944,871	\$2,571	10	\$47,441

Cosbustion Turbines A & B, Project 14137.
 Majority of spare parts included with Combustion Turbine Generator.
 Escalation based on 5.25% per year unless noted or included in base quote.

⁽⁴⁾ Sales Tax Not Required

⁽⁵⁾ Escalation at 5.6% based on fire price to January 1991.
(6) Escalation included in quoted price.

GRLANDO UTILITIES CORMISSION COMBUSTION TURBINE PROJECT - C & D

THO FR 7 CT'S JUNE 1994 CONNERCIAL OPERATION ALL COSTS ARE EXPRESSED IN 1,000 5 PROJECT COST SUMMARY

68-Sep-89 BAY PROJECT: 15399.021

SPEC NUMBER	DESCRIPTION	BUDGET	ORIGINAL CONTRACT	APPROVED CHANGE ORDERS	C.O. NO.	CURRENT CONTRACT TOTAL	ESTIMATED CHANGE ORDERS	CONTINGENC	FECULATION (3	CONTRACT AT) COMPLETION	SALES TAX	OUE CONTRACT COSTS	CURRENT ESTEMATED COST
	Combustion Turbine Generators	637,103	10	50		10		0 630	93,978 (5	435,003	\$2,100	10	637,103
62.1001		\$131	- 40	50		10			0 60 (6	1 9124	67	80	\$131
63.0806(1)		\$297		80		50		6 52	0 658	9280	617	80	6297
63.0604	Cable	\$376	10	50		80		10 52	AND DESCRIPTION OF THE PROPERTY OF THE	\$355	\$21	60	6376
62.1000	Senerator Tera Equip	Decimal of Landson Co.		40		50			MARCHAEL CONTRACTOR	189	63	80	694
63.3201	Substation Struc & En	594						0 55	A STATE OF THE PARTY OF THE PAR	61,718	\$103	80	61,822
63.3801	Generator Transformer (C & D)	\$1,822						10 921	AND DESIGNATION OF THE PARTY OF	63,036	6182	50	\$3,218
71.0402	General Construction (C & D)	\$3,218		90				10 67		\$1,004	\$60	80	81,064
73.0201	Electrical Construction (C & B)	61,064	\$0	10		60		10 61	AND DESCRIPTION OF THE PARTY OF	RWING BACKBERS TO THE	910	50	6175
	Spare Parts (2)	6175	80	10		50		10 67		61,511	80 (4)	60	
	Indirects (B&V) Engineering	91,511	10	10		66				\$267	60 (4)	OMETICAL PROPERTY OF THE	9267
-	Indirects (B&V) Const. Mgst.	\$267	10	80		H			0 655		60 (4)		6336
	QUC Indirects	8336	50	10		84		10	0 40 (/			10	
	Project Contingency 0 1 1	\$500	10	80	•	• • •		10 1	0 997	6472	628		
	SUBTOTAL	\$46,893	60	10)	60 , 674	9 85,774	144,358	62,535	60	\$46,893
62.1001A	UUTET COMBUSTOR IF REQ'D BY DER	63,020	50	60			•	50 63	15 \$324 (5) 62,849	6171	60	83,020
	TOTAL	849,913	90	50		•		10 67	14 \$6,098	\$47,207	\$2,706		\$49,913

(1) Combustion Turbines A & B, Project 14137.
(2) Najority of spare parts included with Combustion Turbine Generator.
(3) Escalation based on 5.25% per year unless noted or included in base quote.

(4) Sales Tax Not Required

(5) Escalation at 5.6% based on fire price to January 1991.

(6) Escalation included in quoted price.

ORLANDO UTILITIES COMMISSION COMBUSTION TURBINE PROJECT - C & B

TWO FR & CT'S JUNE 1992 COMMERCIAL OPERATION ALL COSTS ANE EXPRESSED IN 1,000 6

DAV PROJECT: 15399.021

SPEC NUMBER	DESCRIPTION	DUDGET	ORIGINAL CONTRACT	APPROVED CHANGE ORDERS	C.O. NO.	CURRENT CONTRACT TOTAL	ESTIMATED CHANGE ORDERS	CONTINGENCY		ONTRACT AT	SALES TAX	DUC CONTRACT COSTS	CURRENT ESTIMATED COST
62,1001	Combustion Turbine Senerators	\$17,477	50	10		10	. 60	6100	81,915 (5)	\$16,498	6989	10	917,477
The state of the s	115V Solid Diele Chl/Acc (A & B)	10	80	10		60		50	10 (6)	10	10	- 10	10
A3,0804	Cable	1252	50	10		10	90	619	929	\$238	514	10	6252
A3.1000	Generator Tera Equip	10	50	10		80	96	1 80	10	10	50	50	10
P2'2861	Generator Transformer (C & D)	1885	60	10		10		633	8100	\$835	950	50	6885
71.0402	Seneral Construction (C & D)	\$2,226	10	10		10		\$160	6252	62,100	8126	60	201527W3A743A346550
73.0201	Electrical Construction (C & B) .	6702	50	10		80	80	\$53	680	\$663	640	10	1702
	Spare Parts (2)	458	50	10		10		65	60 (6)	155 (2)	63	60	158
	Indirects (D&V) Engineering	\$1,165	50	80		10		625	\$140	01,165	10 (4)	10	\$1,165
	Indirects (B&V) Const. Mgat.	6241	80	50		10	84	10	129	6241	60 (4)	. 60	\$241
	OUC ladirects	8336	10	10		10	84	1 10	60 (6)	8336	10 (4)	80	6336
-	Project Contingency 0 1 1	1231	50	60		10) 60	926	6218	413	90	6231
	TOTAL	\$23,574	60	\$0		10		6403	62,571	622,338	\$1,236	80	623,574

⁽¹⁾ Combustion Turbines A & B, Project 14137.
(2) Majority of spare parts included with Combustion Turbine Generator.
(3) Escalation based on 5.25% per year unless noted or included in base quote.

⁽⁴⁾ Sales Tax Not Required

⁽⁵⁾ Escalation at 5.62 based on fire price to December 1989

⁽⁶⁾ Escalation included in quoted price.

ORLANDO UTILITIES COMMISSION CONGUSTION TURBINE PROJECT - C & D

TAO FR & CT'S JUNE 1993 COMMERCIAL OPERATION ALL COSTS ARE EXPRESSED IN 1,000 6 PROJECT COST SUMMARY

08-Spp-89 BAV PROJECT: 15399.021

SPEC MUNISER	DESCRIPTION	BUDGET	DRIGINAL CONTRACT	APPROVED CHANGE ORGERS	Service Co.	CURRENT CONTRACT TOTAL	CHANGE ORDERS	CONTINGENCY	ESCALATION (3	CONTRACT AT	SALES TAX	CONTRACT COSTS	CURRENT ESTINATED COST
62.1001	Combustion Turbing Senerators	118,404	10	80	0	10		8100	62,789 (5	1 617,362	91,042	10	\$18,404
COUNTY CONTRACTOR	115V Solid Diele Chl/Acc (A & B)	50	10	10		80	- 11	80	\$0 (4	1 10	10	10	60
63.0804	Cable	\$265	10	10	. 0	10		819	941	1250	615	10	9265
63.1000	Generator Tera Equip	10	10	10	0	10		1 50	10	10	10	60	50
63.3801	Generator Transformer (C & B)	1932	10	50	0	10	. 11	835	6144	\$879	853	10	
71.0402	General Construction (C & D)	12,343	50	10		10	- 11	\$148	1362	\$2,210	8122	80	
73.0201	Electrical Construction (C & D)	6739	10	50	0	10	51	\$33	6114	\$697	642	10	6739
	Spare Parts (2)	\$58	10	10	0	10	- 11	65	10 (1) 155 (2)	63	10	\$58
	Indirects (BAV) Engineering	\$1,226	10	50	0	10		\$25	6201	51,226	60 (4)		
	Indirects (B&V) Const. Mgat.	\$254	80	10		10		50	842	1254	\$0 (4)		
-	OUC Indirects	\$336	10	80	0	10		50	90 (1		80 (4)	10	
-	Project Contingency & 1 1	6243	\$0	60	•	. 50			438	. \$229	614 .	10	\$243
	TOTAL	\$24,800	60	80		10		9405	63,731	623,499	\$1,301	50	824,800

⁽¹⁾ Combustion Turbines A & B, Project 14137.

⁽²⁾ Majority of spare parts included with Combustion Turbine Generator.
(3) Escalation based on 5.252 per year unless noted or included in base quote.

⁽⁴⁾ Sales Tax Not Required

⁽⁵⁾ Escalation at 5.6% based on fire price to December 1988 (6) Escalation included in quoted price.

DALANDO UTILITIES COMISSION COMBUSTION TURBINE PROJECT - C & D

TWO FR & CT'S JUNE 1994 COMMERCIAL OPERATION ALL COSTS ARE EXPRESSED IN 1,000 \$ PROJECT COST SUNHARY

00-Sep-89 BAY FROJECT: 15399.621

SPEC HUMBER	DESCRIPTION	SUDGET	ORIGINAL CONTRACT	APPROVED CHANGE ORDERS	ESCHARO .	CURRENT CONTRACT TOTAL	ESTINATED CHANGE DROERS	CONTINGENCY	ESCALATION (3)	CONTRACT AT	SALES TAX	DUC CONTRACT COSTS	CURRENT ESTIMATED COST
62,1001	Condustion Turbine Generators	919,349	10	10	10	10	80	\$100	63,700 (5)	\$10,273	61,096	10	619,369
The State of	115V Solid Diele Cbl/Acc (A & B)	10	10	10	50	80	- 10	50	60 (6)	60	80	10	50
A3.0804	Cable	\$279	50	10		50		519	\$54	\$263	916	10	1279
63.1000	Generator Iera Equip	80	10	10		10		80		80	\$0	10	10
63.3801	Senerator Transformer (C & B)	6981	10	10	90	10	64	635	6190	1925	156	10	1981
71.0402	General Construction (C & B)	\$2,466	10	10	10	10		8310	6478	62,326	8140	90	\$2,466
73.0201	Electrical Construction (C & B)	6778	10	10	10	10	84	653	6151	9734	544	- 10	1778
	Spare Parts (2)	\$58	10	10	10	10	- 11	15	80 (6)	655 (2)	43	10	150
	Indirects (B&V) Engineering	61,290	10	10	10	10	84	625	8265	\$1,290	60 (4)	10	51,290
	Indirects (B&V) Const. Mget.	\$267	60	10	80	10		50	655	6267	10 (4)	50	
	OUC Indirects	6336	60	10	10	10	81	80	10 (6)	\$336	10 (4)	10	8336
-	Project Contingency @ 1 %	\$256	10	10	50	50		50	650	6241	614	80	6256
	TOTAL	\$26,081	\$0	10		10		\$405	14,944	624,712	\$1,369	10	\$26,081

Combustion Turbines & & B, Project 14137.
 Hajority of spare parts included with Combustion Turbine Generator.
 Escalation based on 5.25% per year unless noted or included in base quote.

⁽⁴⁾ Sales Tax Not Required

⁽⁵⁾ Escalation at 5.61 based on fire price to December 1980

⁽⁶⁾ Escalation included in quoted price.

APPENDIX F CASH FLOWS CT'S C&D ORLANDO UTILITIES COMMISSION FRAME 7 CONDUSTION TUNDINE PROJECT (C & D) 1992 SCHEDULE

	DOLLARS	I 1000											OLLARS	I 1000										
RESCRIPTION	JAH B9	FEB BP	MAR 89	APR 89	BAY 89	31M 89	JUL. 89	A66 87	SEP 89	0C1 09	118V 89	98E 99	34M 90	FEB 90	MAR 90	APR 90	MAY 90	3188 96	38L 90	ASS 90	SEP 90	90 90	10V 90	230
CONTRACTS 42,1001 COMBUSTION TURBINE GENERATORS 43,0004 CABLE 43,0006 CABLE/ACC 115V SOLAD (ABB) 63,1000 GENERATOR TERMINAL EQUIPMENT 43,3201 SUBSTATION STRUCTURES & EQUIPMENT 43,3001 GENERATOR TRANSFORMER 71,0402 GENERAL CONSTRUCTION 73,0201 ELECTRICAL CONSTRUCTION												No. 111						3,672				3,072	3,072	1,558
INDIRECT COSTS CT MEGOTIATION & STUDIES (BAV) PERMITTING (DAV) BESIGN ENGINEERING (BAV) CONSTRUCTION DAMAGEMENT (BAV) OUC INDIRECTS SPARE PARTS											•	•	•	•	;	• • • • • • • • • • • • • • • • • • • •	;	;	13	7	13	13	13	13
CONTINGENCY																								
MONTHLY TOTALS	•	•	0	•						•		4	1	4	11	11	11	3,083	24	20	18	3,097	3,097	1,540
FISCAL YEAR TOTALS QUARTERLY TOTALS CUMULATIVE TOTALS		•	:	•	•	FY1989 0 0	TOTAL >	•	:		•	:	12	16	19 27	30	40	3,104	TOTAL 3		3,193 62 3,193		9,307	7,753 10,947
62.1001A QUIET COMBUSTOR IF REQUIRED																		250				250	250	125
MONTHLY TOTALS WITH COMBUSTOR			0		0	0		0	0		4	4	1	1	11	11	11	3,333	24	20	18	3,347	3,347	1,685
FISCAL YEAR TOTALS WITH COMBUSTOR QUARTERLY TOTALS WITH COMBUSTOR CUMULATIVE TOTALS WITH COMBUSTOR			:			FY1989 0 0	TOTAL >	» •			•	:	12	14	19 27	30	41	3,354	101AL 3,406		3,443 62 3,443		10,137	0,370 11,822

GRAMOO UTILITIES COMMISSION FRAME 7 COMBUSTION TURBINE PROJECT (C & 0) 1992 SCHEDULE

	BOLLARS	I 1000											OLLARS	I 1000												
8ESCRIPTIOS	JAM 91	FEB 91	MAA 91	APR 91	MAY 91	38M 91	JUL 91	AUG 91	SEP 91	ect 91	10V 91	DEC 91	366 92	FE8 92	MAR 92	60'R 92	MAY 92	JUM 92	38L 92	M36 92	92 92	9CT 92	10V 92	9EE 92		TRTM. COST
CONTRACTS																				-						17 576
42.1001 COMBUSTION TURBINE GENERATORS	1,629	1,622	1,615	1,608	1,601	1,594	1,586	1,579	1,572	1,565	2,633	1,085	100	100	100			926	939 27	950						33,570
92'0804 CURENCE TIEN METE (VVB)													39	39	39				13							131
63.1000 GENERATOR TERNINAL EQUIPMENT														153	153				34							339
63.3201 SUBSTATION STRUCTURES & EQUIPM														1,480					164							1,644
63.3001 GENERATOR TRANSFORMER 71.0402 GENERAL CONSTRUCTION									131	235	261	261	392	392	261	261	235	131	52	291						2,905
73.0201 ELECTRICAL CONSTRUCTION												112	130	130	130	130	, 130	61	13	96						961
INDIRECT COSTS																										37
CT MEGOTIATION & STUDIES (DAV)																										79
PERMITTING (BBV) DESIGN ENGINEERING (BAV)		12	12	12	75	100	119	119	119	119	137	137	75	50	25	25	25	25	12	12	12					1,240
CONSTRUCTION NAMAGENERY (DOV)									20	20	20	20	20	20	20	20	20	20	20							241 334
OUC INDIRECTS	13	12	12	13	13	13	12	13	12	12	13	12	13	13	13	13	13	13	13							175
SPARE PARTS																										
CONTINGENCY									45	45	45	45	45	45	45	45	45	45								451
MONTHLY TOTALS	1,453	1,453	1,645	1,630	1,693	1,707	1,718	1,711	1,700	1,997	3,110	1,674	896	2,503	905	621	556	1,221	1,330	1,369	12	•	•	•)	42,470
FISCAL YEAR TOTALS						FY1991	TOTAL :)))	23,073									FY1992	TOTAL 2)))	16,203					
QUARTERLY TOTALS			4,951			5,039			5,330			4,782			4,304			2,398			2,720					
CUMULATIVE TOTALS	12,600	14,253	15,898	17,537	19,230	20,937	22,655	24,367	26,267	28,264	31,374	33,049	33,944	36,447	37,332	37,973	38,529	39,730	41,088	42,43/	42,470	42,470	42,4/0	92,970		
62.1001A QUIET COMBUSTOR IF REQUIRED	122	132	131	131	130	130	129	129	128	127	214	88			•			75	78	71	1					2,733
MONTHLY TOTALS WITH COMBUSTOR	1,786	1,785	1,777	1,769	1,824	1,837	1,848	1,840	2,028	2,125	3,325	1,763	904	2,511	914	621	556	1,296	1,416	1,447	12	٠	•)	45,203
FISCAL YEAR TOTALS WITH COMBUSTOR						EA1601	TOTAL	***	24,870									FY1992	TOTAL	>>>	16,687					
QUARTERLY TOTALS WITH CONBUSTOR			5,347			5,429			5,715			7,212			4,329			2,473			2,875)	
CUMULATIVE TOTALS WITH CONBUSTOR	13,608	15,392	17,169	18,938	20,762	22,599	24,446	26,286	28,314	30,439	33,763	35,526	36,430	38,941	39,855	40,475	41,031	42,328	43,743	45,190	45,203	45,203	45,203	45,20	1	

CRLANDO UTILITIES COMMISSION
FRANC 7 COMBUSTION TURBINE PROJECT (C & D)
1993 SCHEDULE

	BOLLARS	I 1000										•	OLLARS	I 1000								R		
DESCRIPTION	36N 90	FEB 90	16AR 90	APR 90	10AY	JUN 90	JUL 90	AUS 90	SEP 90	90	107	90 90	340 91	FEB 91	91	APR 91	MAY 91	300 91	ALL 91	11	11	91 	91	91
CONTRACTS 62,1001 COMBUSTION TURBINE GENERATORS 63,0004 CARLE 63,0006 CABLE/ACC 115V SOLID (AAB)																3,430						3,056	3,187	1,437
43.1000 GENERATOR TERRINAL ERRIPMENT 43.3201 SUBSTATION STRUCTURES & ERRIPM 43.3001 GENERATOR TRANSFORMER 71.0402 GENERAL CONSTRUCTION 73.0201 ELECTRICAL CONSTRUCTION																								
INDIRECT COSTS CT MEGOTIATION & STUDIES (BAV) PERMITTING (BAV) BESSION ENGINEERING (BAV) CONSTRUCTION NAMAGEMENT (BAV)							•	•	•	•	•	•	•	•	;	;	4 7	,	1	,	•	3 7	\$ 7	
OUC INDIRECTS SPARE PARTS																			13	12	13	13	13	
CONTINGENCY																								
NORTHLY TOTALS	•	•	•	•	•	•	•	•	•		•	'	•	•	10	3,660	10		20	20			3,212	1,00
FISCAL YEAR TOTALS QUARTERLY TOTALS CUMULATIVE TOTALS	•	•	:			FY1990 0 0	TOTAL >		11	14	18	11 21	25	28	17 39	3,699	3,710	571991 3,678 3,716			3,765 59 3,775		10,867	8,75 12,52
62.1001A GUIET COMBUSTOR IF REQUIRED																297						314	251	133
MONTHLY TOTALS WITH COMBUSTOR						0	- 1	4	4	4	4	4	4	4	10	3,957	10	1	20	20	18	4,194	3,471	1,79
FISCAL YEAR TOTALS WITH COMBUSTOR BUARTERLY TOTALS WITH COMBUSTOR						FY1990	TOTAL)	»	11	•		11			17			3,975			4,062			7,46
CUMULATIVE TOTALS WITH COMBUSTOR	•	•	•	•	•	•	•	1	11	14	. 18	21	25	28	34	3,996	4,007	4,013	4,034	4,054	4,072	0,266	11,736	13,35

GRIANDO UTILITIES CONNISSION FRANE 7 CONBUSTION TURBINE PROJECT (C & B) 1993 SCHEDULE

	BOLLARS	I 1000											GLLARS	I 1000												
DESCRIPTION	JAN - 92	FEB 92	MAR 92	APR 92	NAV 92	JUN 92	Jin. 92	AU6 92	SEP 92	OCT 92	110V 92	9EC 92	438 438	93	93	93	93	42 100	93	. 42 . WIR	93 93	93	42 NOA	9	<u>.</u>	TOTAL COST
CONTRACTS 62.1001 CONSUSTION TURBINE GENERATORS 63.0004 CABLE 63.0004 CABLE/ACC \$159 SOLID (AAB) 63.1000 SENERATOR TERMINAL EQUIPMENT 63.3201 SUBSTATION STRUCTURES & EQUIPMENT 63.3001 SENERATOR TRANSFORMER 71.0402 GENERAL CONSTRUCTION 73.0201 ELECTRICAL CONSTRUCTION		1,622	1,615	1,600	1,401	1,594	1,506	1,579	1,572	1,565	2,633	1,065 275 110	100 85 39 413 136	100 85 39 101 1,558 413 136	100 85 37 161 60 275 136	46 275 136	248 136	928 530 64	918 26 13 36 9 173 35 45	990 306 101						35,200 202 131 357 69 1,731 3,657 1,011
INDIRECT COSTS CT MEGOTIATION & STUDIES (BAV) PERMITTING (BAV) DESIGN ENGINEERING (BAV) CONSTRUCTION MANAGEMENT (BAV) OUC INDIRECTS SPARE PARTS CONTINGENCY	5 7 13	5 13	5 13	3 13 13	3 79 13	105	125 13	125	125 21 13	125 21 13	144 21 13	144 21 13	77 21 13	53 21 13	26 21 13	26 21 13 88	26 21 13 88	26 21 13	13 21 13	13 21	13					39 63 1,313 294 336 179
MONTHLY TOTALS FISCAL YEAR TOTALS QUARTERLY TOTALS	1,654	1,453	1,646				TOTAL		1,916 24,115 5,359	2,019	3,135	1,705	934	2,626	945	648			1,405 TOTAL 2		13 16,683 2,856	•	•		•	44,573
CUMULATIVE TOTALS A2.1001A GUIET COMBUSTOR IF REQUIRED	14,183		17,482	19,122	20,819	22,531	24,256		27,890	29,909	33,044	34,749	35,683	30,309	39,253	39,901	40,481	41,717		44,566	44,573	44,573	44,573	44,5	18	2,040
MONTHLY TOTALS WITH COMBUSTOR FISCAL YEAR TOTALS WITH COMBUSTOR GUARTERLY TOTALS WITH COMBUSTOR CUMULATIVE TOTALS WITH COMBUSTOR			5,350			FY1992 5,440	TOTAL	»	25,993			1,793 7,209 37,354			4,530			FY1993 2,539		»»	17,376 3,618 47,441	47,441	47,441	47,4	• • •	47,441

GRANDO UTILITIES COMMISSION FRAME 7 COMBUSTION TUMBINE PROJECT (C & B) 1974 SCHEDULE

	DOLLARS	I 1000											OLLARS	1 1900										
BESCRIPTION	JAM 91	FEB 91	MAR 91	APR 91	91	31M 91	36L 91	446 91	SEP 91	91 91	91	91	340 92	FEB 92	1008 92	972	92	92 92	. 92	466 92	9EP 92	92 	92 	92 92
ENTRACTS																				•				
62.1001 COMBUSTION TURBINE GENERATORS 63.0004 CABLE 63.0006 CABLE/ACC 1137 90L10 (A68)														5,142								4,122	3,187	1,637
43.1000 SEMERATOR TERMINAL CONTPRENT 43.3201 SUBSTATION STRUCTURES & CONTPN 43.3001 GENERATOR TRANSFORMER	•																							
71.0402 GENERAL CONSTRUCTION - 73.0201 ELECTRICAL CONSTRUCTION																								•
INDIRECT COSTS CT MEGOTIATION & STUDIES (DAY) PERMITTING (DAY) DESIGN ENGINEERING (DAY)					•	•	•	•	•	•	•	•	•	•	;	,	1	,	,	,	,	;	;	3 7
CONSTRUCTION NAMAGEMENT (BAY) OUT INDIRECTS SPARE PARTS																			13	13	13	13	13	13
CONTINGENCY														No.										
HONTHLY TOTALS	•	•	•	0	1	4	4	4	4	4	4	4	•	5,146	11	1	1	1	21	21	10	4,147	3,212	1,662
FISCAL YEAR TOTALS QUARTERLY TOTALS CUMULATIVE TOTALS			:		•	FY1991 7 7	10TAL >>	15	19 11 19	22	26	11 30	33	5,179	5,160 5,190	5,197		22	101AL 2))) 5,253	5,253 60 5,272	9,419	12,631	9,621
62.1001A QUIET COMBUSTON IF REQUIRED														418								335	259	133
MONTHLY TOTALS WITH COMBUSTOR		0	0		4	4	1	4	4	4	4	4	•	5,564	11	7	7	,	21	21	10	4,482	3,472	1,795
FISCAL YEAR TOTALS WITH COMBUSTOR QUARTERLY TOTALS WITH COMBUSTOR						FY1991 7	TOTAL >))	19			11			5,579			FY1992 22	IOTAL :	»»	5,671			9,749
CUMULATIVE TOTALS WITH CONSUSTOR	0		·		• •	1	11	15	19	22	26	30	33	5,597		5,616	5,623			5,672	Control of the same	10,172	13,644	

ORLANDO UTILITIES CONNISSION
FRAME 7 CONSUSTION TURBINE PROJECT (C & B)
1994 SCHEDULE

	BOLLARS	I 1000											OLLARS	I 1000												
DESCRIPTION	JAN 93	FEB 93	MAR 93	APR 93	93	JUN 93	38L 93	AUS 93	SEP 93	82 OC1	93	BEC 93	38k 94	FEB 94	16AR	APR 94	86Y 94	JUM 94	34E 94	AUG 94	SEP 94	94 94	94		E N	TOTAL COST
ONTRACTS 62.1001 COMMUNITION TURBING GENERATURS	1,629	1,672	1,615	1,608	1,601	1,594	1,586	1,579	1,572	1,565	2,433	1,065	100	100	100			926	1,050	1,650						37,103 297
A3.0004 CABLE A3.0006 CABLE/ACC 113V TOLED (AAB) A3.1000 GENERATOR TERMINAL EDUIPMENT A3.3201 SUBSTATION STRUCTURES & EQUIPME													39	39 169	39 169 42	42			13 38							131 376 94
A3.3001 GENERATOR TRANSFORMER 71.0402 GENERAL CONSTRUCTION 73.0201 ELECTRICAL CONSTRUCTION									145	261	290	290 124	434 144	1,640 434 144	290 144	290 144	261 144	145	182 58 48	322 106						1,822 3,218 1,064
NOTIFICATION A STUDIES (BAY) PERMITTING (BAY)	,	,	,	,	,																					41 67 1,38
DESIGN EMGINEERING (BAV) CONSTRUCTION NAMAGENENT (BAV) OUC INDIRECTS SPANE PARTS	13	14	13	13	12	13		12	131	131 22 13	152 22 13	152 22 13	22	22 13	22	22 13 88	22 13	22	- EARL DOOR	14 22	2000004500					26 33 17
ONT INGENCY									50	30	50	50	50	50	50	50	50	54								50
ONTHLY TOTALS	1,655	1,654	1,647	1,640	1,702	1,718	1,731	1,724	1,934	2,043	3,161	1,737	975	2,756	987	676	605	1,251	1,477	1,514	14	•	•		•	46,87
FISCAL YEAR TOTALS MARTERLY TOTALS CUMULATIVE TOTALS	15,947	17,602	4,956	20,889		5.060	101AL 26,040		24,426 5,389 29,698			£,940 36,638	37,613	40,369	4,718 41,356	42,032		2,533			17,196 3,005 46,894		44,894	46,0	6 194	
62.1001A QUIET COMBUSTOR IF REQUIRED	133	132	131	131	130	130	129	129	120	127	214	89						75	84	84						3,020
NONTHLY TOTALS WITH CONBUSTOR	1,707	1,784	1,779	1,771	1,032	1,847	1,860	1,053	2,062	2,170	3,375	1,825	983	2,765	995	676	603	1,327	1,563	1,600	14	•	0)	•	49,91
FISCAL YEAR TOTALS WITH COMBUSTOR QUARTERLY TOTALS WITH COMBUSTOR CUMULATIVE TOTALS WITH COMBUSTOR	17,226	19,013	5,352 3 20,791	2 22,562	24,394	5,450	3 TOTAL 0 2 28,102		26,326 5,775 32,016		37,561	7,370 39,386		43,134	4,743			2,608			17,897 3,176 49,914		49,914	49,	0	

ORLANDO UTILITIES CRIMISSION FRAME & COMBUSTION TURBINE PROJECT (C & B) 1972 SCHEDULE

	BOLLARS	1 1000											GLLARS	I 1000										
RESCRIPTION	JAN 07	FEB 09	MAR 09	APR 89	MAY 09	JUN 89	31E. 09	ASS 89	SEP - 89	90T 89	89 89	96E 99	JAN 96	FEB 90	80 WWS	4PR 90	90 90	JUN 90	90 90	90	SEP 90	90	90	338
CONTRACTS A2.1001 COMBUSTION TURBINE GENERATORS A3.0004 CARLE A3.0006 CANLE/ACC 113V SOLID (AAB) A3.1000 GENERATOR TERMINAL EBUIPMENT A3.3201 SUBSTATION STRUCT & EQUIPMENT A3.3001 GENERATOR TRANSFORMER 71.0402 GENERAL CONSTRUCTION 73.0201 ELECTRICAL CONSTRUCTION																		2,712				1,692	1,301	m
INDIRECT COSTS CT NEGOTIATION & STUDIES (BAV) PERMITTING (BAV) DESIGN ENGINEERING (BAV) CONSTRUCTION NAMAGEMENT (BAV) OUC INDIRECTS SPANE PARTS									•		•	•		•	;	•		;	13			,	13	;
CONTINGENCY HONTHLY TOTALS			_								_							2,723	29	20	10	1,715	1,524	794
FISCAL YEAR TOTALS QUARTERLY TOTALS CUMULATIVE TOTALS			:	•		FY1989 0 0	TOTAL >	»» •				:	12		19			FY1990 2,744	TOTAL 2	»	2,833			4,033

COLAMBO UTILITIES COMMISSION
FRAME & COMBUSTION TUMBINE PROJECT (C & D)
1972 SCHEDULE

	BOLLARS	I 1000								•			DOLLARS	I 1000											
	JAN	FEB	naa	APR	MAY	JUN	JIL	MIS	SEP	OCT	101	BEC	300	FEB	MAR	APR	MAY	Jun	ML	ALIS	SEP	BCT	MOV	BEC	TOTAL
DESCRIPTION	91	91	91	91	41																				COST
TENTRACTS																									
42.1001 COMBUSTION TURBINE GENERATORS	748	764	761	757	754	751	747	744	741	737	1,240	511	33	13	33			436	495	493					17,47
63.0001 CARLE		200						TELESON.					76	76	76				25						25
63.0006 CABLE/ACC 135W SOLID (AAB)																									
A3.1000 GENERATOR TERMINAL EQUIPMENT														•											
A3.3201 SUBSTATION STRUCT & EQUIPMENT																									
A3.3801 GENERATOR TRANSFORMER														797					87						
71.0402 GENERAL CONSTRUCTION									100	180	200	700	301	301	200	700	180	100	40	223					2,22
73.0201 ELECTRICAL CONSTRUCTION												82	95	95	93	95	95	44	32	70					70.
IBINECT COSTS																									
CT REGOTIATION & STUDIES (BAY)																									. 1
PERMITTING (BAV)																									7
DESIGN ENSINEERING (BAV)		10	10	10	43	84	100	100	100	100	115	115	43	42	21	21	21	21	10	10	10				1,04
CONSTRUCTION NANAGEMENT (BAV)		A RES							20	20	20	20	20	20	20	20	20	21 20	20	20					24
OUE INDIRECTS	13	13	13	13	13	13	13	13	100 13	100 20 13	115 20 13	13	43 20 13	13	13	21 20 13	21 20 13	13	13						22
SPARE PARTS																29	29								5
CONTINGENCY									23	23	23	23	23	23	23	23	23	23							23
ICHTILLY TOTALS	791	792	789	785	835	848	860	857	997	1,074	1,612	966	623	1,399	481	402	382	650	725	819	10	•	•	•	23,57
FISCAL YEAR TOTALS						FY1991	TOTAL \		11,589									FY1992	TATAL S	,,	9,151				
MARTERLY TOTALS			2,373			2,468	,		2,715			3,651			2,504			1,442		1000	1,554				
CHMULATIVE TOTALS	7 187		9,239																						

ORLANDO UTILITIES CONVISSION
FRAME & COMPUSTION TUMBINE PROJECT (C & 8)
1993 SCHEDULE

	BOLLARS	I 1000											BELLARS	I 1000										
DESCRIPTION	366 90	FER 90	naa 90	APR 90	RAY 90	Jun 90	JIE. 10	90	SEP 90	8CT 90	160V 96	90 90	258 91	FEB 91	11AA	91	MAY 91	308 91	81L 91	AUS 91	91 91	91 	100 91	9EC 91
CONTRACTS 62.1001 COMBUSTION TURBINE GENERATORS 63.0004 CABLE 63.0004 CABLE/ACC 115V SOLID (AAB) A3.1000 GENERATOR TERMINAL EQUIPMENT	• .						-		-							3,462	oars.					1,816	1,501	m
A3.3201 SUBSTATION STRUCT & EQUIPMENT A3.3001 SUBSTATION STRUCT OF SERVICES 71.0402 SERERAL CONSTRUCTION 73.0201 ELECTRICAL CONSTRUCTION																								
INDIRECT COSTS CT MEGOTIATION & STUDIES (DAV) PERMITTING (DAV) DESIGN ENGINEERING (DAV)							•	•	•	•	•	•	•	•	;	;	;	,	,	,	,	;	3	3
CONSTRUCTION MANAGEMENT (BAY) OUC INDIRECTS SPARE PARTS	μ																		13	13	13	13	13	13
CONTINGENCY																								
MONTHLY TOTALS	•	•	•	•	•	•	•	4	4	4	•	•	4	•	10	3,472	10	7	20	20	10	1,840	1,525	793
FISCAL YEAR TOTALS QUARTERLY TOTALS CUMULATIVE TOTALS			:			:	FY1990 1	,,,	11 11		10	11 21	23	20	17		3,522	3,490	3,549		3,577 59 3,587		6,951	4,159 7,746

COLAMBO UTILITIES COMMISSION FRAME & COMBUSTION TUMBINE PROJECT (C & D) 1993 SCHEBULE

	BOLLARS	I 1000										•	OLLARS	I 1000											
DESCRIPTION	34M 92	FEB 92	8AR 92	APR 92	MAY 92	JANS 92	JAR. 92	446 92	SEP 92	92 92	1000 12	DEC 92	JAM 93	FEE 93	MAR . 93	42 448	93 93	42. 29W	93 Jan	93	SEP 93	93 93	93	93 BEC	TOTAL COST
CONTRACTS																									
63.0004 CABLE 63.0004 CABLE 63.0006 CABLE/ACC 189V SOLID (AAB) 63.1000 SENERATOR TERMINAL EQUIPMENT	748	764	761	757	754	751	747	744	741	737	1,240	511	9 99 32	0 0 00 22	0 0 0 33			436	522 27 0	522					10,404 265 0
A3.3201 SUBSTATION STRUCT & EQUIPMENT A3.3801 GENERATOR TRANSFORMER 71.0402 GENERAL CONSTRUCTION 73.0201 ELECTRICAL CONSTRUCTION		•							105	190	211	211 64	314 100	839 314 100	211 100	211 100	196 100	105 47	93 42 33	234 74					932 2,343 739
INDIRECT COSTS CT MEGOTIATION & STUDIES (DAV) PERMITTING (DAV)																									39 63
DESIGN ENGINEERING (DAV) CONSTRUCTION NAMAGEMENT (DAV)	i	ıi	ii	ıi			105	105	105 21 13	105	121 21 13	121 21	86 21	44 21	22 21 13	22 21 13	22 21 13	. 21 . 13	11 21 13	11 21	11				1,100
OUC INDIRECTS SPARE PARTS	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13 29	13	13						331
CONTENSENCY									24	. 24	24	24	24	24	24	24	24	24							243
MONTHLY TOTALS	792	793	790	786	838	853	865	862	1,010	1,091	1,631	101	654	1,470	504	421	400	669	763	862	11	•	•		24,800
FISCAL YEAR TOTALS OURRERLY TOTALS			2,375			2,477			11,749 2,738			3,711			2,628			FY1993 1,489			9,464 1,636				
CUMULATIVE TOTALS	8,538	9,331	10,121	10,907	11,745	12,598	13,463	14,326	15,336	16,426	18,058	17,046	19,700	21,171	21,675	22,095	22,495	23,164	23,927	24,789	24,600	24,800	24,500	24,800	

ORLANDO UTILITIES CONNISSION FRAME & COMMUSTION TUNNINE PROJECT (C & D) 1994 SCHEDULE

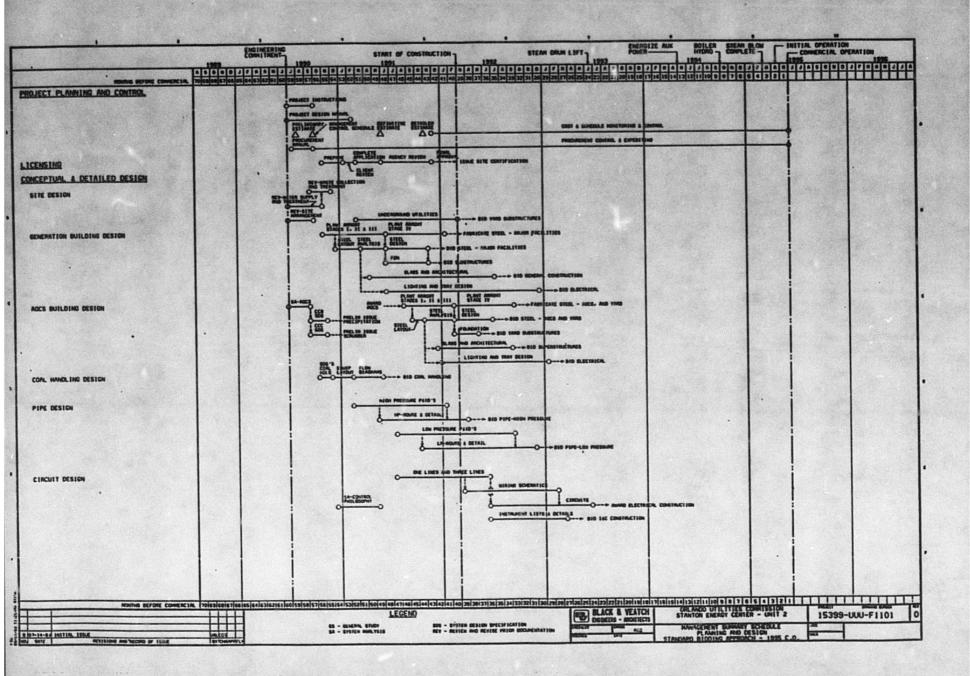
PROJECTED CASE FLOR

	DOLLARS	I 1000											GLLASS	I 1000										
DESCRIPTION	3AM 91	FEB 91	MAR 91	APR 91	MAY 91	Juni 91	310. 91	AUS 91	SEP 91	ect 91	91	BEC 91	3AM 92	FEB 92	1548 192	APR 92	92 92	JUM 92	38E. 92	ASS 92	92 92	92 92	110V 92	NEC 92
CONTRACTS 62.1001 CONDUSTION TURBINE GENERATORS 63.0004 CABLE														4,248		142						1,942	1,501	m
43.0006 CABLE/ACC 115V TOLID (A68) 43.1000 GENERATOR TERMINAL CONTPIENT 43.3201 SUBSTATION STRUCT & EQUIPMENT 43.3001 GENERATOR TRANSFORMER 71.0402 GENERAL CONSTRUCTION 73.0201 ELECTRICAL CONSTRUCTION																							•	
INDIRECT COSTS CT MEGOTIATION & STUDIES (BAV) PERMITTING (BAV) BESIGN ENGINEERING (BAV)						•	•	•	•		•	•	•	٠	;	,	,	,	,	'n	•	:	;	:
CONSTRUCTION MAMAGEMENT (DAV) OUC INDIRECTS SPARE PARTS																			13	13	13	13	13	13
CONTINGENCY HOWTHLY TOTALS														4,252		,	·;	;	21	21	10	1,966	1,525	795
FISCAL YEAR TOTALS QUARTERLY TOTALS CUMPLATIVE TOTALS		•	:	•	•	;	FY1991 >))	19 11 19	n	26	11 30			4,266	4,303		22	TOTAL >	»	4,359 60 4,378	6,344	7,869	4,286 8,664

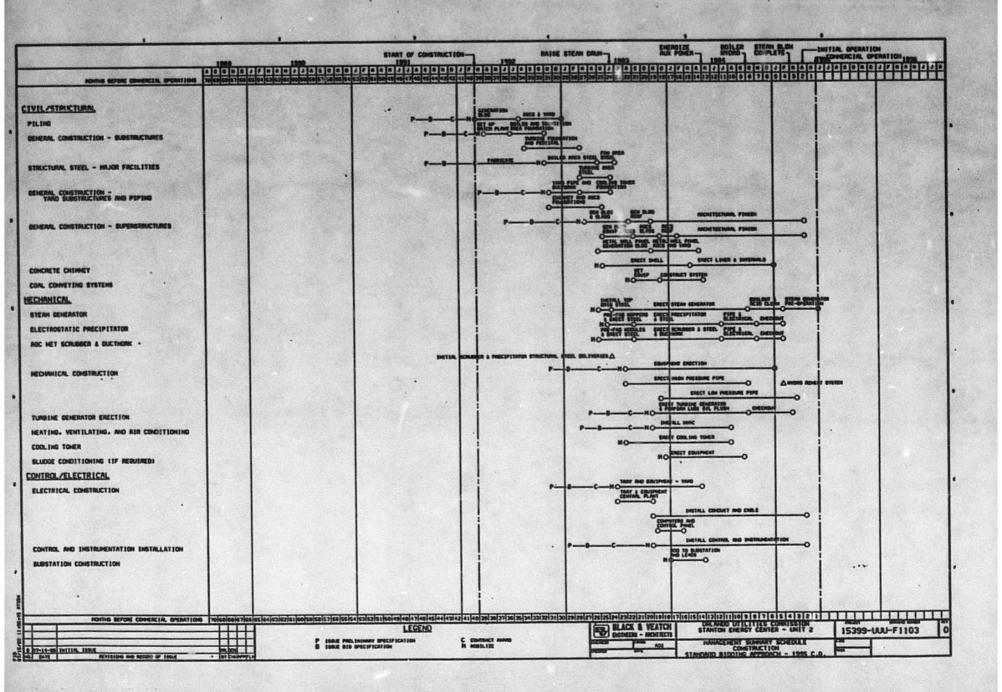
ORLANDO UTILITIES CONVISSION FRAME & COMBUSTION TORBINE PROJECT (C & D) 1994 SCHEDULE

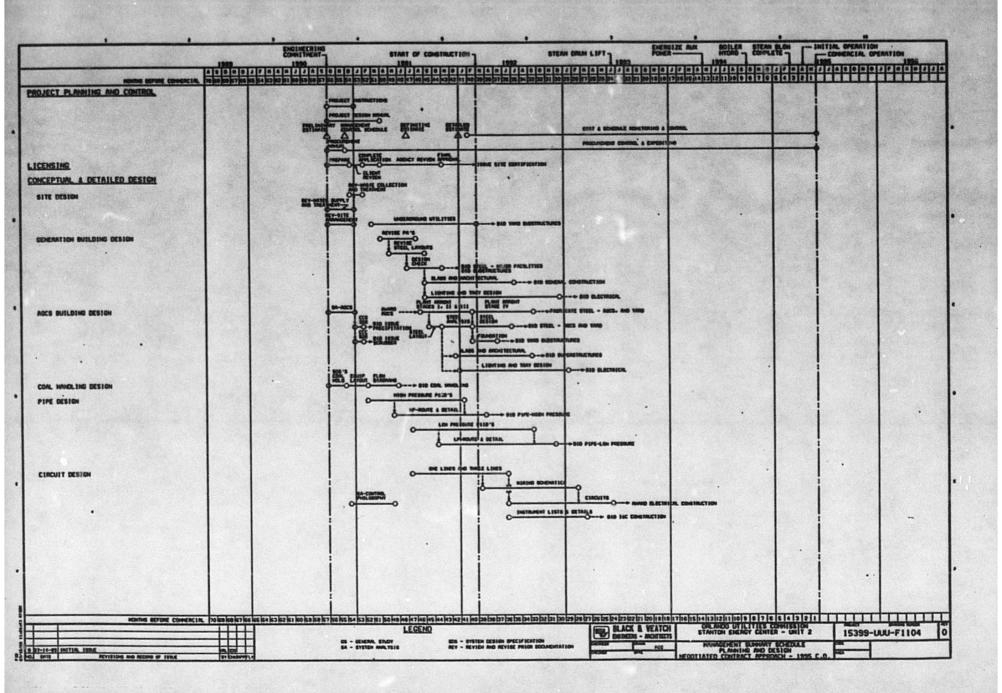
	BOLLARS	I 1000										•	GLLARS	I 1000						•					
DESCRIPTION	52 1991	FEB 93	18AR 193	APR 93	NAY	Jun 93	388. 93	A66 93	95 93	93	62 MIA	93	368 94	FEB 94	BAR 94	APR 94	MAY 94	388 94	38L 94	94	SEP 94	90T 94	110V 94	BEC 94	18TAL CBST
CONTRACTS A2,1001 CONSUSTION TURBINE GENERATORS A3,0004 CABLE A3,0006 CABLE/ACC 113V SOLID (AAD) A3,1000 GENERATOR TERMINAL EQUIPMENT A3,3201 SUBSTATION STRUCT & EQUIPMENT A3,3001 GENERATOR TRANSFORMER 71,0402 GENERAL CONSTRUCTION 73,0201 ELECTRICAL CONSTRUCTION	710	744	14	113	194	731	740	· ***	741 111	737	1,246	311 222 91	33 64 6	33 84 6 6 883 333 105	33 84 0 0 0	¢ 222 165	200 105	436 111 49	548 28 0 6 0 98 44 35	548 247 78					19,36 27 98 2,46
NOTIFICATION OF STANDIES (BAV) PERMITTING (BAV) DESIGN ENGINEERING (BAV) CONSTRUCTION NAMAGEMENT (BAV) OUT INDIRECTS SPARE PARTS	; 6	5 12 13	5 12 13	5 12 13	5 70 13	95 13	110	110	110 22 13	110 22 13	128 22 13	128 22 13	70 22 13	46 22 13	23 22 13	23 22 13 29	23 22 13 29	23 22 13	12 22 13	12 22	12				1 1,11 21 33
CONTINGENCY MONTHLY TOTALS	792	794	791	707	842	857	871	848	1.024		26	1,013	26	1,545	26 528	26	26 418	26 681	801	907	12				26,00
FISCAL YEAR TOTALS GUARTERLY TOTALS CUMULATIVE TOTALS			2.377	11,828		FY1993 2,484	TOTAL >	»	11,912			3,772 20,062			2,759			FV1994 1,540 24,361			9,790 1,719 26,080	25,080	26,080	26,080	

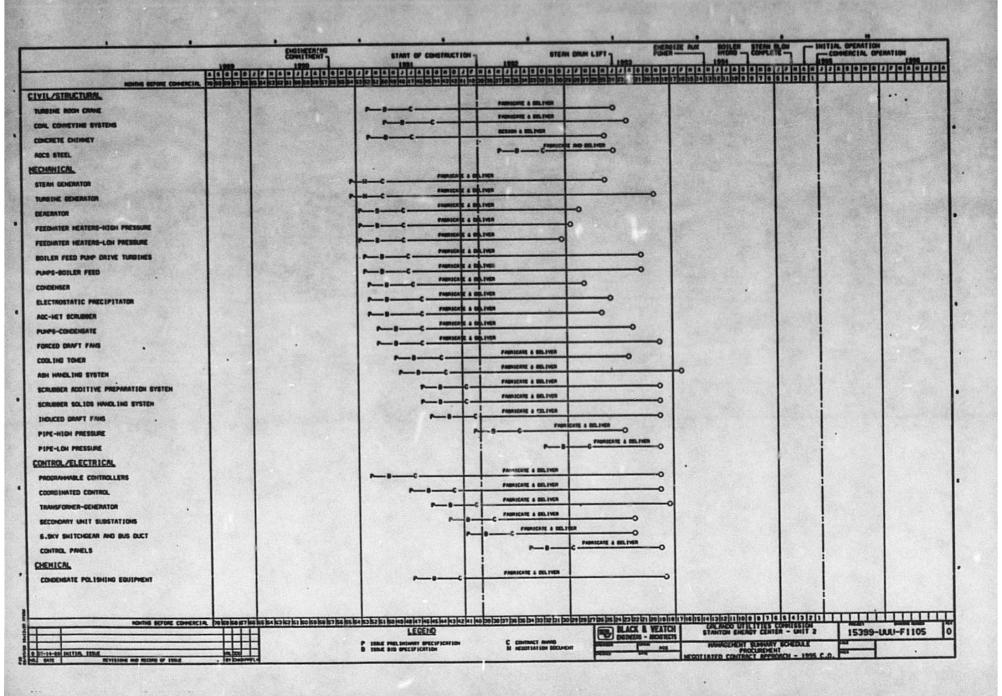
APPENDIX G
MILESTONE SCHEDULES
SEC, UNIT 2

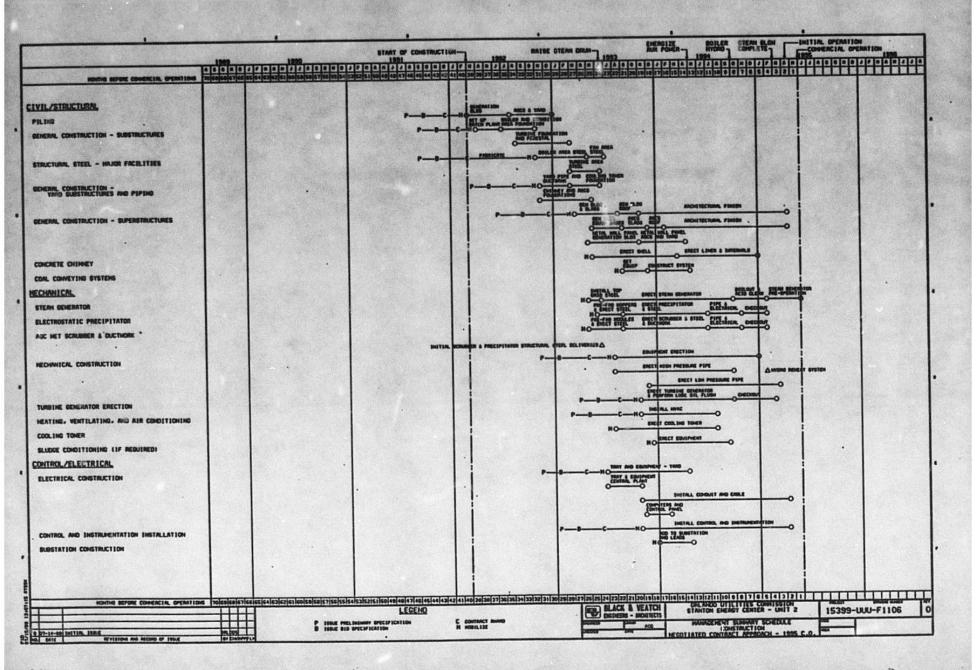


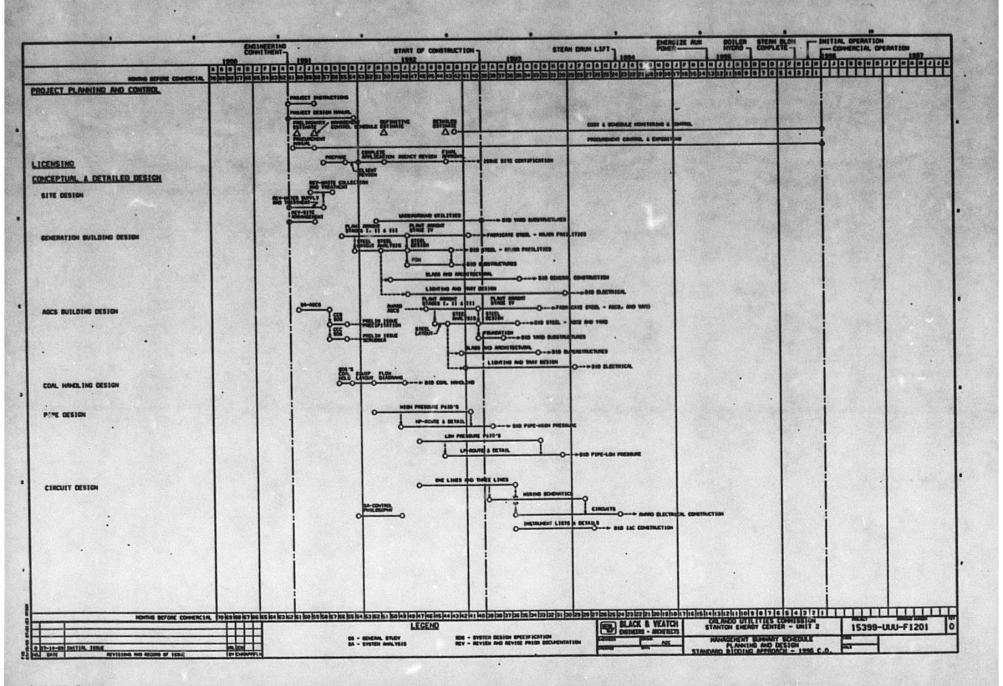
		ENGINEERING COMMITMENT		START OF CONSTRUCTION -
	1909	JENANI	1990	
IVIL/STRUCTURAL	1M. 70 10 10 10 107 06	ES E4 E3 E2 E1 E0	50 50 57 56 NE 54 53	52 51 100 00 00 07 05 05 04 02 02 01 00
TURBINE ROOM CRINE				
COAL COMEYING SYSTEMS				
CONCRETE CHINEY				
ACCE STEEL				
ECHANICAL.				
STEAM CENERATOR			P-0-C	FROMICA E & CO
TURBINE CENERATOR			P-0-C	PROMER & D
DEAERATOR				B G FARMEN E & D
FEEDMATER HEATERS-HIGH PRESSURE				D C PRESCRIC & CO
FEEDMATER HEATERS-LON PRESSURE				D C FAMILE & CO
BOILER PEED PUP DRIVE TURBINES		THE COLUMN TO THE	!	P-0-C FRENCA E & D
PUIPS-BOILER FEED			SIL TENTO	P-B-C FRENCHE & C
CONDENSER				F-8-C FRONICA E & D
ELECTROSTATIC PRECIPITATOR				P-B-C-FARRICA E & CO
AGC-HET SCAUBBER				P-0-C FAMILE & D
PUMPS-CONDENSATE				P-9-C PARTICALE & D
FORCED DRAFT FAMS				P-B-C FRENICA'S & CO
COOLING TOWER			Maria de la companya della companya	P-0
ASH HANGLING SYSTEM				P-8
SCRUBBER ADDITIVE PREPARATION SYSTEM				P-0-c-
SCRUBBER SOLIDS HANGLING SYSTEM			!	P-0
INDUCED DRAFT FAME				P-0-+-
PIPE-HIGH PRESSURE				
PIPE-LON PRESSURE				
CONTROL/ELECTRICAL				
PROGRAMMABLE CONTROLLERS .			! !	
COORDINATED CONTROL				~
TRANSFORMER-GENERATOR				+·
SECONDARY UNIT SUBSTATIONS .				7
6.9KY SHITCHGEAR AND BUS DUCT				
CONTROL PANELS				
HEHICAL			i	
CONDENSATE POLISHING EQUIPMENT				
HOWING REFORE COME	CIAL POSSISSISSISSIS	s ies jea leo leo je s le	10 15.9 15.0 15.7 15.6 15.5 16.4 15	3 52 51 50 49 48 47 46 45 44 43 42 41 4
				LEGEND
07-14-00 INSTEAL ESDAY				TOME POEL MINNET SPECIFICATION

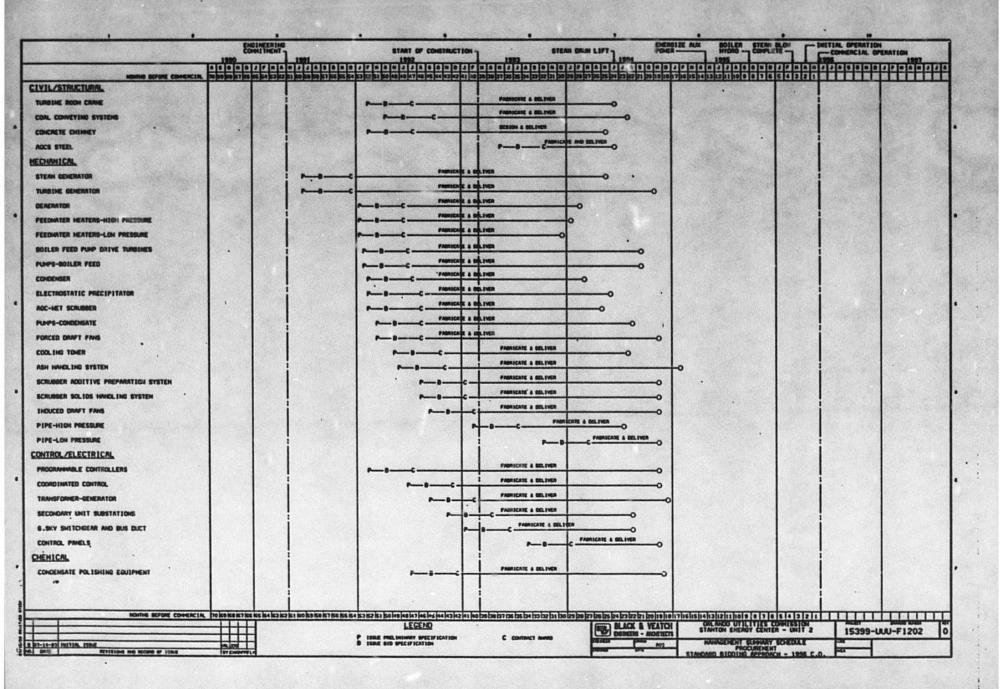


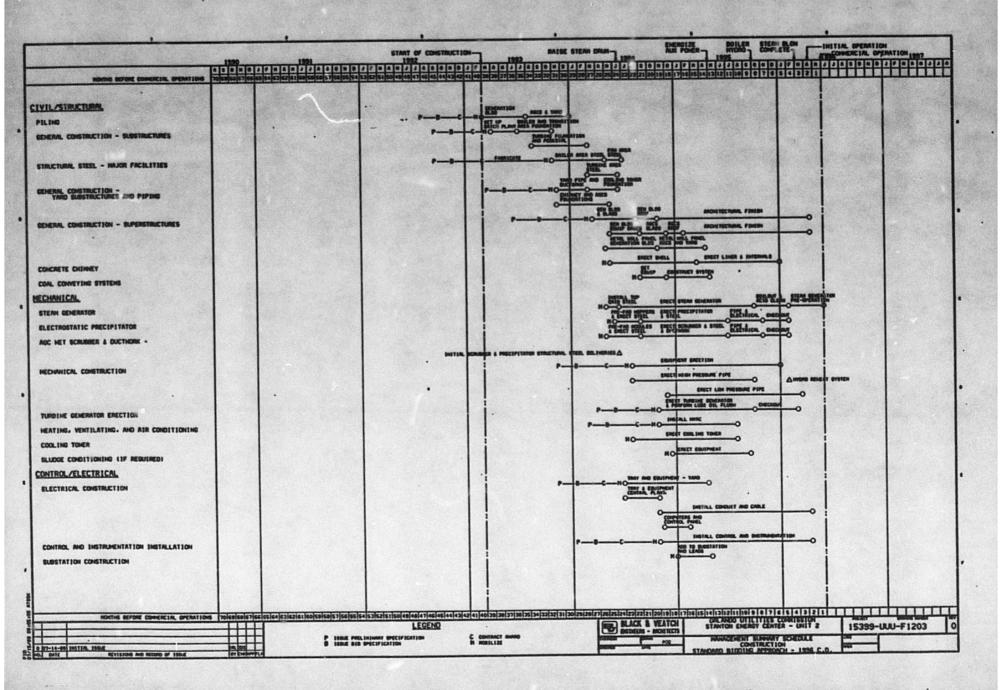


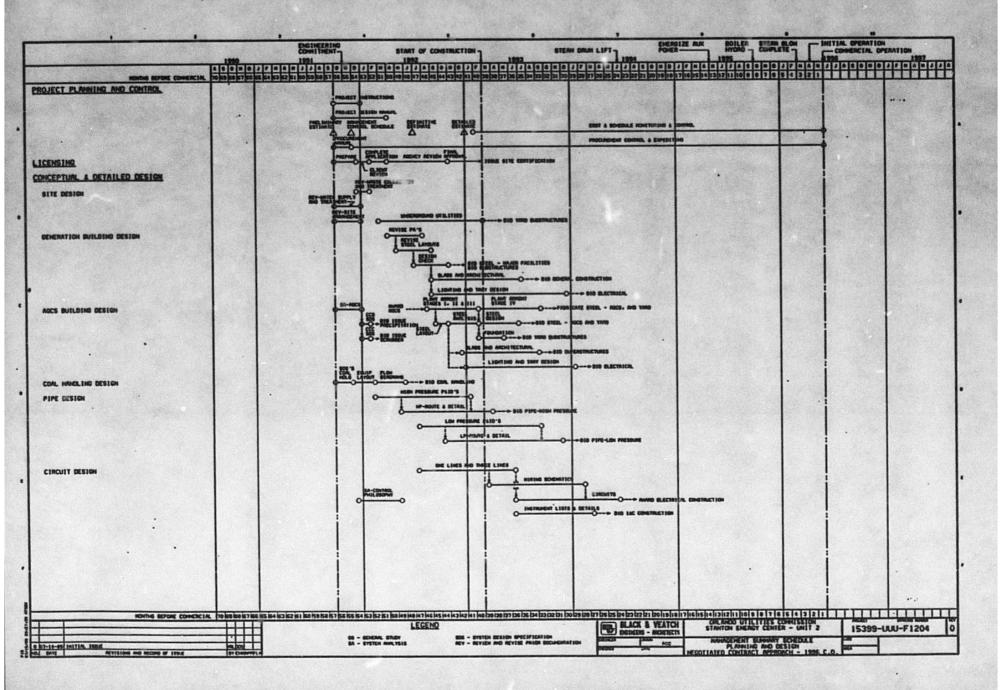




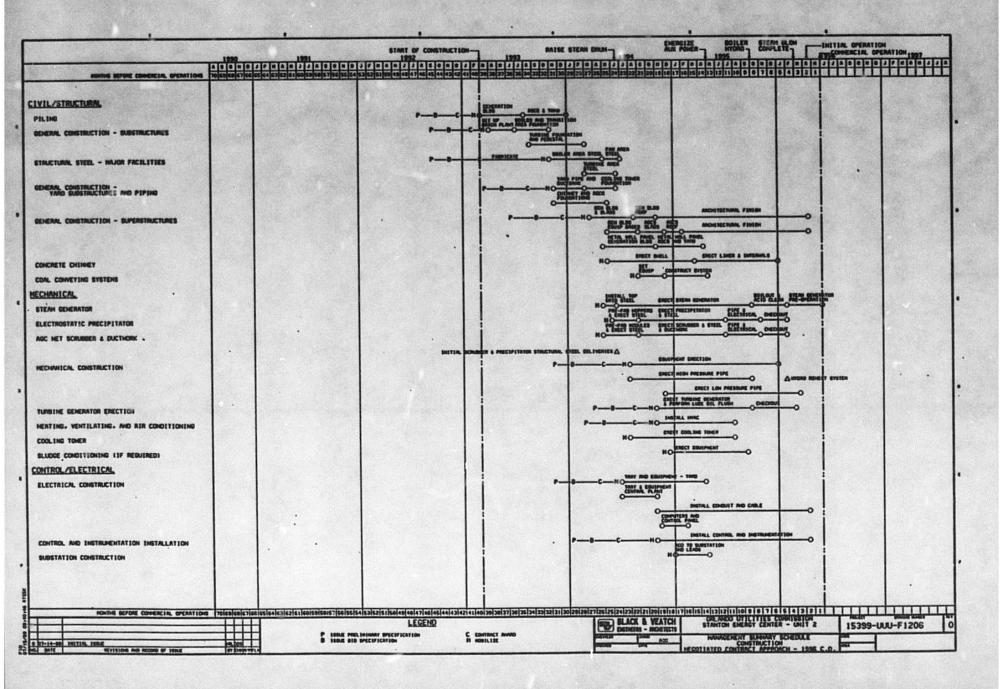


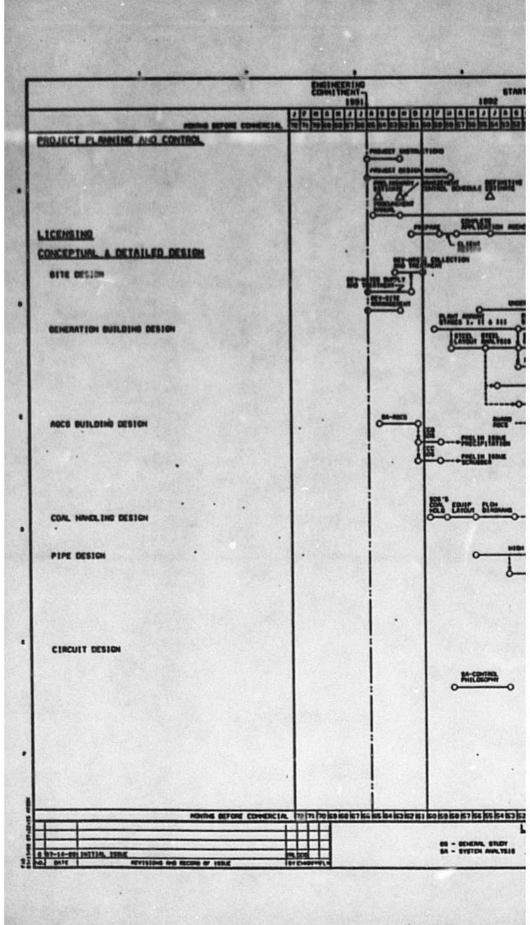


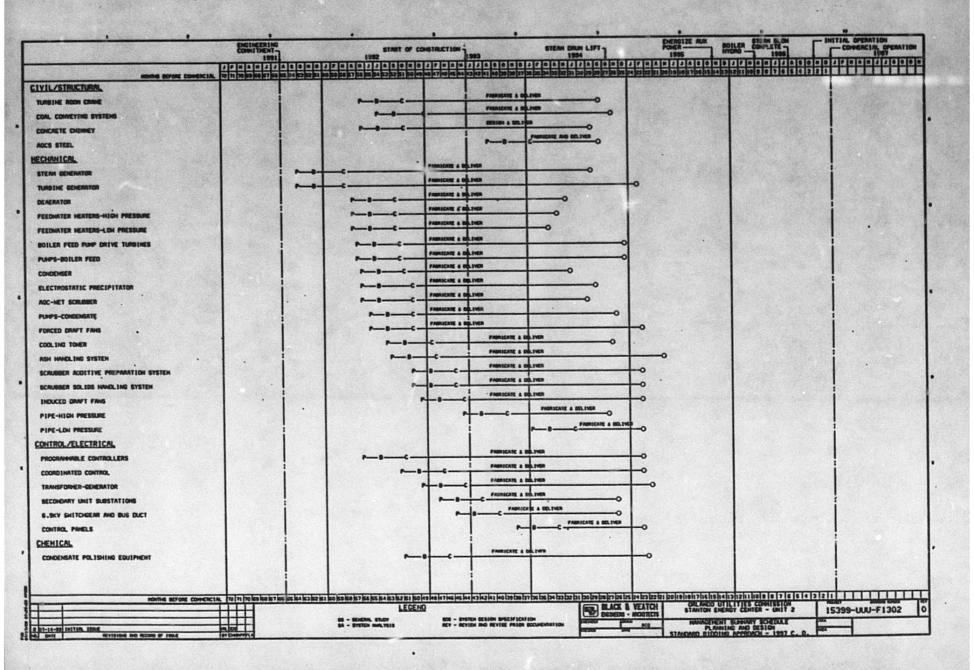


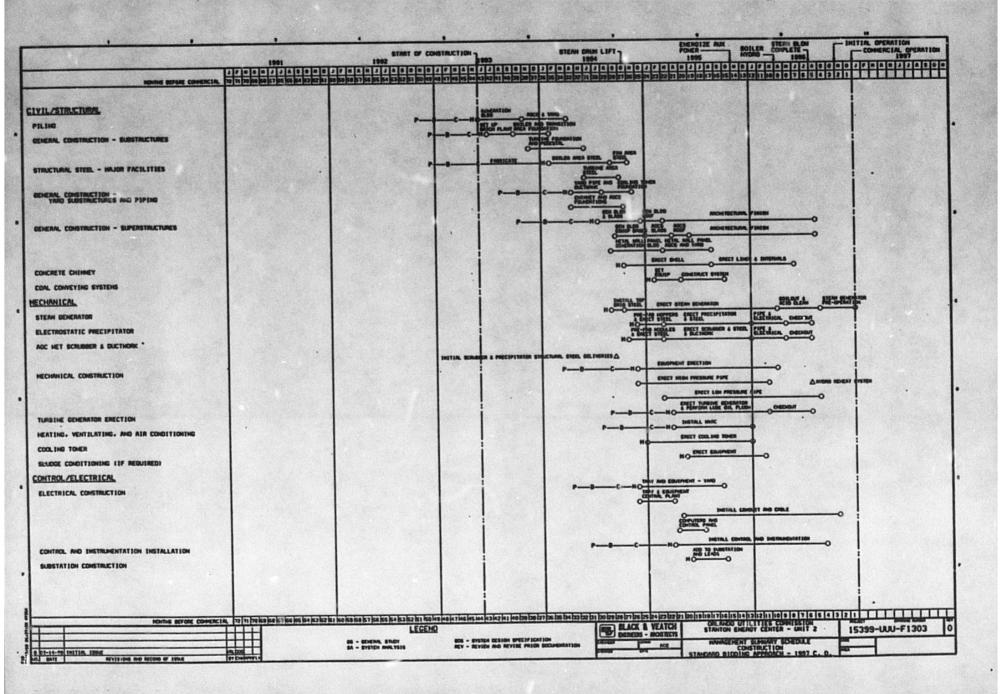


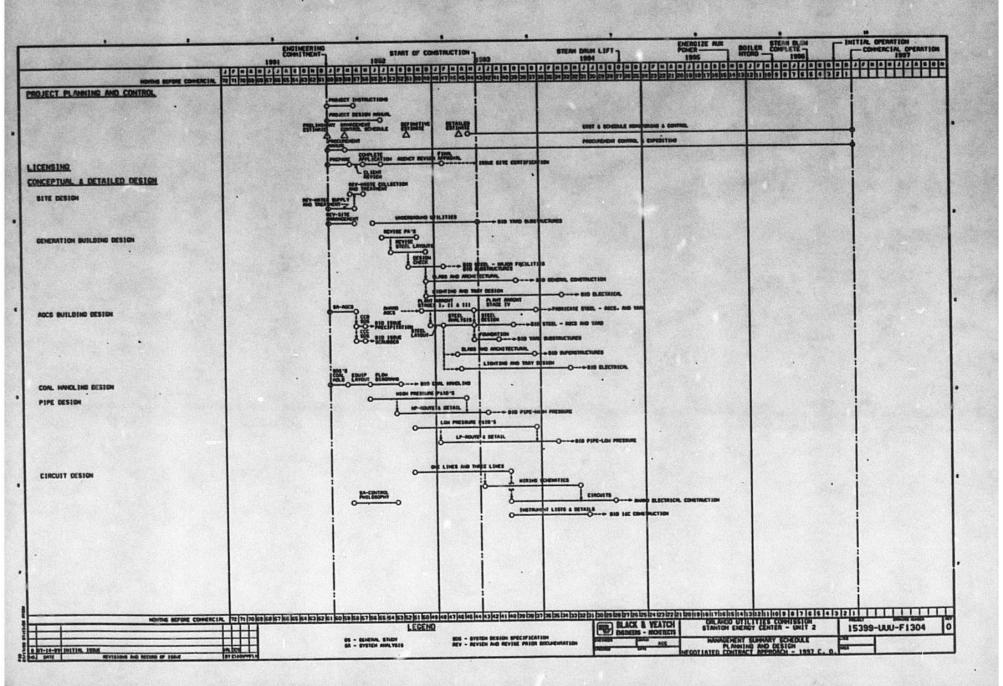
1990 [A] 0 [0]	PROTINCE DING START OF CONSTRUCTION 1992 1993 1994 1994 1994 1994 1995 1996 19		ER HYONO _ COMPLETE _	TIRL OPERATION COORDIAL OPERATION S 1997 JACO O H D J F H A H J J
NUMBER OF THE CONSTRUCTION TO SERVE OF THE S	7 88 85 84 83 82 81 80 80 85 84 83 85 84 83 82 81 80 80 80 87 88 85 84 83 82 81 80 3	when that the law law law law law law law law law law		
		PARAGEANE A RELEVER		
TURBINE ROOM CRIME		PARASCARE & DELIVER O		
COAL CONVEYING SYSTEMS		DESIGN & DOLINER		
CONCRETE CHIMMEY		P-8 - Cremicals and control		
AGCS STEEL.				
ECHANICAL	PRODUCE & DE	nes ·		
STEAN GENERATOR	PROMETE & BIL	nes o	A Charles Control of the S	
TURBINE GENERATOR	Pronicale & Da.	nes .		•
DEAERATOR	Promitate & tip	les o		
FEEDMATER HEATERS-HIGH PRESSURE	PROMICES & DA			
FEEDMATER HEATERS-LON PRESSURE	PARTICAL & DA	LIMER .		
BOILER FEED PURP DRIVE TURBINES	PMANERE & CO.	LIVER		
PUMPS-BOILER FEED	FRONCESE A DO	LIVER		
CONCENSER	FAMILIA E & CO.	LIVER .		
ELECTROSTATIC PRECIPITATOR	FASTICAL & CO.	LINES		
ACC-HET SCRUBBER	Page California a co			
PUMPS-CONDUSATE	P-B-C	A THEM		
FORCED DRAFT FAIG -		FARRICANE & DELIVER		
COOLING TOWER		FRENICANE & DELIVER		
ASH HANDLING SYSTEM		PARTICATE & DELIVER	T° li	
SCRUBBER ADDITIVE PREPARATION SYSTEM	~	PAGNICATE & LIFLIVER		
SCRUBBER SOLIDS HANDLING SYSTEM	~	PRODUCATE & CELLIVER		
INDUCED DRAFT FAMS	P-0	FARRICATE & BELIVER		
PIPE-HIGH PRESSURE		PAGINICATE & GOLLVER		
PIPE-LON PRESSURE		P-0-C		
CONTROL/ELECTRICAL .		FARRICATE & DILLIVER		
PROGRAMMALE CONTROLLERS				
COORDINATED CONTROL	~-0	PRESIDENTE & SECTIONS		
TRANSFORMER-GENERATOR	P-0	FAGRICATE & SELIVER .	•	
SECONDARY UNIT SUBSTATIONS		C PARRICATE & DELIVER		
6.9KY SHITCHGEAR AND BUS DUCT	-	B C FRANCATE & DELIVERO		
CONTROL PANELS		P-B-C FARRICATE & SELIVER		
CHEMICAL				
CONDENSATE POLISHING EQUIPMENT		PARRICATE & DELIVER	0	
HOMING SEPONE CONNENCIAL TO JOS (O	9 14 145 145 145 145 145 145 145 145 145 145 145 145 145 145 145 145 145	। वर्ष दर्श दर्श दर्श दर्श हर्श कर हिन हिन हिन हिन हिन हिन हिन हिन हिन हिन	indistriction in Auto Utility Control in	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	LEGENO	BLACK & VEAT	STANTON ENERGY CENTER - UNIT 2	15399-UUU-F1205
107-14-00 (MITIN, 1904) INC.	P ISSAS PROLIMINARY SPECIFICATION B ISSAS BIG SPECIFICATION Delivery.	M RESOLVENT SHARE SOUNEMENT SHEETS SHARE NO	HANAGENENT SCHWARY SCHEDULE PROCURENENT HECOTIATED CONTRACT APPROACH - 1935 C.	. =











Contract	stant of construction	STEAM DRUM LIFTS	POWER - BO	THE CONTLETE -	TIM OPERATION — CONVENCIAL OPERATION
1991 COMPLINESS	1992	993 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	1005	3 1 0 0 0 3 3 0 0 0 0	77 - 0 - 2 / 0 0 0
SOUTH SET ONE CONVENCIAL 12 11 70 68 40 67 66 65 64 63 62 6	11 80 50 50 50 57 50 95 54 53 52 51 50 40 48 47 46 45 46	342 41 40 70 30 21 20 31 34 32 32 31 20 20 21 21 70 70 20	22/22/21/20/12/10/17/10/15/14/13	12[11]10[9]0[7]6]5[4]2[2]1	
IVILISTRUCTURAL		PARRICATE & DILITER			
TURBINE ROOM CRANE		PARRICATE & GLITER			
COAL COMEYING SYSTEMS		05510x 4 0613 6x			
CONCRETE CHIMEY		P. B. FARMICOSE AND DELIVER			
MCCS STEEL					
CHANICAL	PARTICALE & D				
STEAM GENERATOR	FRENICATE & D	LONG CONTRACTOR CONTRA	•		
TUMBING GENERATOR	PERMICATE & D				
DEMERATOR	Fagnicate a D				
PEEDMATER HEATERS-HIGH PRESSURE	FAGRICATE & D	ilem .			
FEEDMATER MEATERS-LON PRESSURE	P-B-C	undo			
BOILER FEED PURP DRIVE TURBINES	P-B-C-FARRICATE & D	Tree			
PURPS-BOILER FEED	P-B-C	THE TYPE SECURITY SEC			
COMDENSER	P-B-C FAUNTCANE & D	LINES			
ELECTROSTATIC PRECIPITATOR	P-B-C-FARRICATE & D	-			
NOC-HET SCRUSSER	P-0-C-	•			
PUMPS-CONDENSATE	P-B-C	•			1
FORCED DRAFT FAMS	P-0-C-	PARRICATE & DILIVER	⊸		
COOLING TOWER	P-B-C-	PROMICATE & DILINER			
ASH HANDLING SYSTEM	r-0-c-	PARTICULE & DILIVER			i .
SCRUBBER ADDITIVE PREPARATION SYSTEM	P-0		-•		
SCRUBBER SOLIDS WANDLING SYSTEM	P-0	FRANCAIE & OLIVER	-		
INDUCED DRAFT FAIS	P-0	PARAICATE & DELIVER	~		
PIPE-HIGH PRESSURE		B C FAMILIANE & DELIVER O			
PIPE-LON PRESSURE		P-B-C PARTICALE & SELTING	-0		
ONTROL/ELECTRICAL					
PROGRAMMALE CONTROLLERS	P-0-C-	PARRICATE & DILIVER	°		
COORDINATED CONTROL	P-0-C-	FARMICATE & DILIVER	- 0		
TRANSFORMER-GENERATOR	P-8	PARRICATE & OLIVER	— °		
SECONDARY UNIT SUBSTATIONS	P-0-	C ENDUTCATE & DITARE			
6.BKY SHITCHEAR AND BUS DUCT	i _	B C FAMILIZA E & DEL THER			
		P-B-C FARRICATE & OFLITER	-0		
CONTROL PMELS					;
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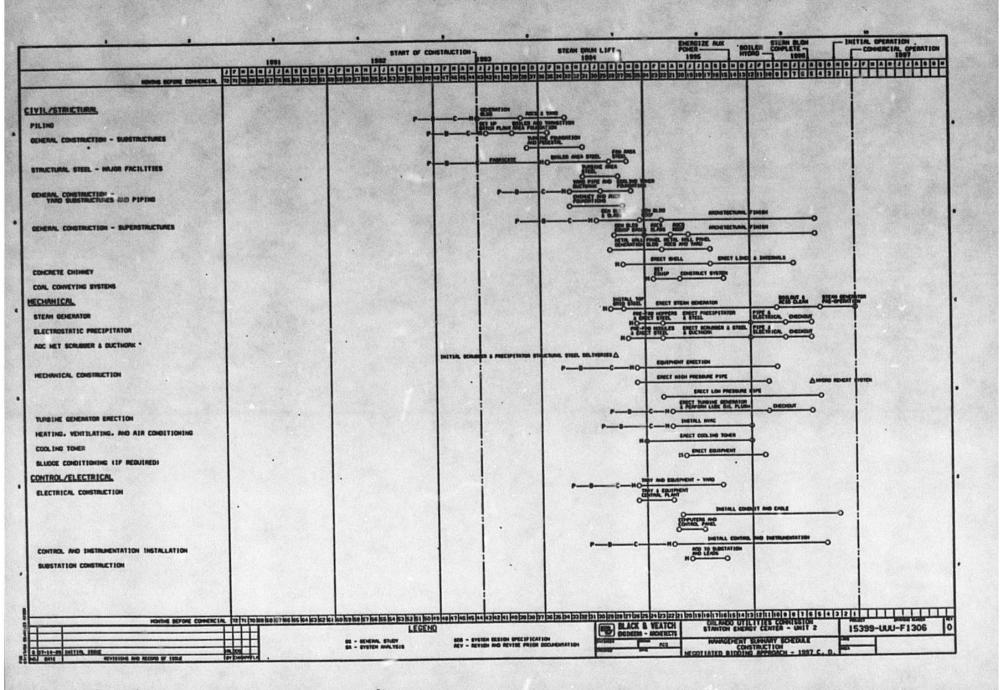


EXHIBIT NO.

WITNESS: WASHBURN

DESCRIPTION: RESPONSE TO STAFF INTERROGATORY 6

STAFF: SHINE

FLORIDA PUBLIC SERVICE COMMISSION
DOCKET 910 382 EM EXHIBIT NO. 4
COMPANY/
WITNESS: Washburn
DATE: 4/18/9/

Orlando Utilities Commission
Florida Municipal Power Agency
Kissimmee Utility Authority
Docket No. 910382-EM
PSC Staff's First Set of Interrogatories
Interrogatory No. 6
Page 2 of 2

ORLANDO UTILITIES COMMISSION

Stage Two Evaluation Summary of Weighted Scoring of Proposals

Area of Evaluation/Description	NRG We	ighted Sco Enron	re PG&E
Technical Location Respondent Experience Level of Development of	13	25	25
	25	25	25
Technology Status of Plans Fuel Diversity Fuel Supply	25	25	25
	9	3	2
	25	13	13
	<u>25</u>	25	25
SUBTOTAL	122	116	115
Financial Committed Capital Equity Component Debt Coverage Ratio Security	1	10	10
	1	5	1
	10	6	6
	10	<u>6</u>	10
SUBTOTAL	22	27	<u>27</u>
Environmental Site Acquisition Permitting and Licensing Permitting Schedule Air Impacts Water Resources Impacts Solid Waste Impacts Land Use Compatibility Aesthetics	10	2	10
	9	9	9
	21	30	21
	9	21	3
	30	9	21
	18	18	18
	2	20	20
	5	11	11
SUBTOTAL	104	120	113
Price Factor Score Front Load Score SUBTOTAL	-67	-73	-60
	0	0	0
	<u>-67</u>	<u>-73</u>	<u>-60</u>
TOTAL	181	<u>190</u>	195

Orlando Utilities Commission
Florida Municipal Power Agency
Kissimmee Utility Authority
Docket No. 910382-EM
PSC Staff's First Set of Interrogatories
Interrogatory No. 6
Page 1 of 2

- 6. Q. Please provide a summary of OUC evaluative criteria for the RFP respondents and the relative scores of each project.
 - A. OUC retained R.W. Beck and Associates to independently evaluate the proposals. A description of the weighted scoring system used to evaluate the proposals is contained in subsection 1A.5.4.4 and Table 1A.5.4-2 of the Supplemental Site Certification Application. The areas of evaluation and the relative weighted scores for the proposals are summarized on page 2.

EXHIBIT NO.____

WITNESSES: WASHBURN

DESCRIPTION: INTERROGATORY 22

COAL TRANSPORTATION CAPABILITY

STAFF: TAYLOR

FLORIDA PUBLIC SERVICE COMMISSION

DOCKET 910382 EM EXHIBIT NO. 5

COMPANY!
WITNESS: Wasburn

DATE 4/18/97

Orlando Utilities Commission
Florida Municipal Power Agency
Kissimmee Utility Authority
Docket No. 910382-EM
PSC Staff's First Set of Interrogatories
Interrogatory No. 22
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- 22. Q. Does the Stanton site have the capability to be served by more than one means of coal transportation? If so, please describe. If not, please discuss the risk of having only one means of coal transportation to the facility.
 - A. The Stanton site is served by one rail line at the present time. The risk of currently having only one rail line serving the site will be handled for Stanton 2 as it was for Stanton 1; that is a long term coal transportation agreement will be entered into. Onsite fuel storage will mitigate the risk of all but a very long rail strike and Congress has recently shown an unwillingness to allow a long rail strike to occur.

EXHIBIT NO.___

WITNESSES: WASHBURN

DESCRIPTION: INTERROGATORY 30

COMBUSTION WASTE PRODUCTS

STAFF: TAYLOR

FLORIDA PUBLIC SERVICE COMMISSION
DOCK 910382-EM EXHIBIT NO. 6
COMPANY/ WITNESS: Washburn
DATE: 6/18/9/

Orlando Utilities Commission
Florida Municipal Power Agency
Kissimmee Utility Authority
Docket No. 910382-EM
PSC Staff's First Set of Interrogatories
Interrogatory No. 30
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- 30. Q. Please provide a summary of the negotiations for supply and disposal of combustion waste products.
 - A. OUC currently has a waste handling contract with Conversion Systems Incorporated (CSI). Under the contract, CSI is responsible for the stabilization of all combustion waste to be landfilled, all landfilling of the combustion waste, and the sale of all bottom and fly ash not required in the stabilization process. The contract extends for two more years. The contract is renewable in five year terms.

OUC provides all of the hardware systems, including transportation, necessary to stabilize the combustion waste. The combustion waste is landfilled on the Stanton site. The site has enough landfill capacity to dispose of the waste from 4 units burning high sulfur coal for 40 years. This capacity does not account for the sale of bottom and fly ash which if sold further extends the landfill capacity. With the sludge and ash from the coal currently being burned, the landfill capacity will be about 100 years.

Approximately 75 percent of the fly ash and 100 percent of the bo tom ash are sold by CSI. It is expected that the existing contract for Stanton 1 would be expanded to accommodate the waste from Stanton 2.