

Orlando Utilities Commission
Florida Municipal Power Agency
Kissimmee Utility Authority
Docket No. 910382-EH
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

FPSC-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 Operation fiscal year	Quarter	Rebid			Replicate		
		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 Year	Quarter	SEC Unit 2 Replicate			SEC Unit Bid		
		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
1991	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
1993	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	41,812	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

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TABLE 7-4. DOLLARS COMMITTED AT END OF QUARTER

Commercial Operation fiscal year	Quarter	Rebid			Replicate		
		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

ORLANDO UTILITIES COMMISSION
STATION UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-99
REPOD

14-May-90

SPEC NUMBER	DESCRIPTION	QUC CODE	QUC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
61.0403	Bulk Materials Handling	FBE	61002	1.205	61,374,185	1.253	61,449,721	1.203	61,480,431
61.0405	Dust Collection Equipment		61003	1.205	6421,750	1.253	6430,350	1.203	6469,050
61.0408	Coal Cars (297)		61004	1.205	620,400,450	1.253	621,713,200	1.203	621,721,190
61.0410	Pneumatic Material Handling		61007	1.205	632,335	1.253	633,831	1.203	634,641
61.1001	Chimney	FBE	61008	1.205	65,790,460	1.253	66,029,436	1.203	66,173,796
61.1201	Cranes & Hoists		61009	1.205	6384,395	1.253	6399,787	1.203	6409,277
61.1601	Passenger Elevators	FBE	61011	1.205	6432,995	1.253	6449,027	1.203	6460,597
61.1803	Retal Wall Panel	FBE	61012	1.205	61,870,595	1.253	61,953,427	1.203	62,000,197
61.2003	Duct Expansion Joints		61013	1.205	6765,175	1.253	6795,655	1.203	6814,705
61.2006	Duct Boppers		61014	1.205	62,080,265	1.253	62,171,449	1.203	62,223,439
61.3001	Breaching and Ducts		61019	1.205	64,015,060	1.253	64,174,996	1.203	64,274,956
61.3002	Coal Silos		61020	1.205	6401,410	1.253	6403,706	1.203	6405,766
61.4001	Structural Steel-Major Fac.	FBE	61021	1.205	620,920,001	1.256	630,147,122	1.312	631,496,472
61.4002	STR STL-Coal HND,ADCS,YD		61022	1.205	6699,465	1.253	6717,969	1.203	6733,159
Subtotal Structural Procurement					667,706,541		670,670,601		672,793,676
62.0201	Particulate Removal Equip	FBE	61024	1.205	621,976,790	1.253	622,852,214	1.203	623,399,354
62.0202	Flue Gas Scrubber & SLS COND	FBE	61025	1.205	632,480,775	1.253	633,774,613	1.203	634,383,263
62.0401	Air Compressors		61027	1.205	6162,675	1.253	6169,135	1.203	6173,205
62.0405	Carbon Dioxide Supply		61028	1.205	696,400	1.253	6100,240	1.203	6102,640
62.0601	Cooling Tower	FBE	61029	1.205	616,410,125	1.253	617,072,129	1.203	617,400,075
62.0901	Fire Protection Equip		61030	1.205	6219,310	1.253	6228,046	1.203	6233,306
62.0905	Fire Suppression Systems	FBE	61031	1.205	6761,360	1.253	6791,096	1.203	6810,056
62.1001	Turbine Generator	FBE	61032	1.205	641,403,000	1.253	643,053,000	1.203	644,083,000
62.1201	Air Preheating Coils		61034	1.205	6120,300	1.253	6125,300	1.203	6126,300
62.1202	Auxiliary Cooling Heat Exch.		61035	1.205	6426,570	1.253	6443,362	1.203	6454,182
62.1203	Condenser and Auxiliary Equip		61036	1.205	61,928,000	1.253	62,004,000	1.203	62,052,000
62.1204	Condenser Tubes		61037	1.205	61,071,040	1.253	61,062,544	1.203	61,067,904
62.1205	Deaerator		61038	1.205	6410,520	1.253	6431,032	1.203	6441,352
62.1206	Feedwater Heaters		61039	1.205	62,731,015	1.253	62,804,999	1.203	62,929,009
62.1211	Fuel Oil Heaters		61041	1.205	667,400	1.253	670,160	1.203	671,040
62.1801	Ash Handling System		61043	1.205	65,822,560	1.253	66,050,496	1.203	66,199,456
62.2001	Boiler Feed Pump Turbine		61044	1.205	61,990,605	1.253	62,076,221	1.203	62,125,931
62.2201	High Pressure Fabricated Pipe		61045	1.205	65,496,005	1.253	65,714,933	1.203	65,851,763
62.2203	Ash Sloice Pipe		61046	1.205	6145,805	1.253	6151,613	1.203	6155,243
62.2205	Circulating Water Pipe		61047	1.205	61,699,050	1.253	61,766,730	1.203	61,809,030
62.2403	Expansion Joints-Rubber		61049	1.205	637,355	1.253	638,043	1.203	639,773
62.2408	Pipe Supports		61050	1.205	6644,675	1.253	6670,355	1.203	6686,405
62.2614	Steam Vent Silencers		61051	1.205	610,075	1.253	610,795	1.203	611,245
62.2602	Boiler Feed Pumps (Incl Startup)		61052	1.205	62,137,670	1.253	62,227,022	1.203	62,276,042
62.2603	Circulating Water Pumps		61054	1.205	6706,130	1.253	6730,250	1.203	6751,030
62.2604	Condensate Pumps		61055	1.205	6690,900	1.253	6726,740	1.203	6744,140
62.2607	Fire Pumps		61056	1.205	644,505	1.253	646,361	1.203	647,471
62.2610	Oil Pumps		61057	1.205	636,150	1.253	637,990	1.203	638,490
62.2614	Vertical Water Pumps		61058	1.205	6353,065	1.253	6361,129	1.203	6375,919
62.2615	General Service Pumps		61059	1.205	6275,945	1.253	6286,937	1.203	6293,007
62.2802	Lube Oil Filters		61060	1.205	624,100	1.253	625,060	1.203	625,660
62.3001	Auto Flushing Type Water Str.		61061	1.205	640,250	1.253	642,650	1.203	644,150
62.3201	Air Conditioning Equipment		61062	1.205	656,633	1.253	658,091	1.203	660,301
62.3206	Ventilating Fans		61063	1.205	6275,945	1.253	6286,937	1.203	6293,007
62.3401	Steam Generator	FBE	61064	1.205	666,600,350	1.253	669,253,310	1.203	670,911,610

ORLANDO UTILITIES COMMISSION
STATION UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-99 6
REBID

14-May-99

SPEC NUMBER	DESCRIPTION	OUC CODE	OUC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
62.3402	Forced Draft Fans	61065	6632,000	1.205	6761,560	1.253	6791,896	1.203	6810,856
62.3403	Induced Draft Fans	61066	91,061,000	1.205	11,278,505	1.253	11,329,433	1.203	11,361,263
62.3401	Field Erected Tanks	61068	6371,000	1.205	6447,855	1.253	6464,863	1.203	6475,983
62.3402	Shop Fabricated Tanks	61069	6193,000	1.205	6232,565	1.253	6241,629	1.203	6247,619
62.3001	Butterfly Valves-Ext. Steam	61070	625,000	1.205	630,125	1.253	631,325	1.203	632,875
62.3002	Large Butterfly Valves	61071	6351,000	1.205	6422,915	1.253	6439,883	1.203	6450,333
62.3003	Butterfly Valves-General Serv.	61072	692,000	1.205	616,800	1.253	6115,276	1.203	6110,656
62.3004	Extraction Steam-Non-Return VI	61073	6204,000	1.205	6245,820	1.253	6255,612	1.203	6261,752
62.3005	H.P. Cast Steel & H.D. Valves	61074	91,736,000	1.205	62,091,000	1.253	62,175,200	1.203	62,227,200
62.3007	Cast Steel Gen. Serv. Valves	61075	6492,000	1.205	6592,860	1.253	6616,476	1.203	6636,236
62.3009	Control Valves-Gen Application	61077	6277,000	1.205	6335,785	1.253	6347,401	1.203	6355,391
62.3010	Control Valves-Spec. Application	61078	6130,000	1.205	6156,650	1.253	6162,890	1.203	6166,790
62.3011	Forged Steel Valves-Gen. Serv	61080	6392,000	1.205	6472,360	1.253	6491,176	1.203	6502,936
62.3013	Brass Valves-General Service	61081	621,000	1.205	625,305	1.253	626,313	1.203	626,913
62.3015	Safety and Relief Valves	61082	661,000	1.205	675,505	1.253	676,433	1.203	676,263
62.3017	Knife Gate Valves	61161	675,000	1.205	690,375	1.253	695,975	1.203	696,225
62.3018	Butterfly Valves-Spec Serv	61166	683,000	1.205	6180,615	1.253	6183,999	1.203	6186,889
62.3019	Slurry Plug Valves		616,000	1.205	619,280	1.253	620,048	1.203	620,528
Subtotal Mechanical Procurement			6170,311,000		6214,864,755		6223,423,683		6228,773,613
63.0001	Overhead Conductor		98,000	1.205	99,640	1.253	916,824	1.203	910,264
63.0002	Control Cable	61006	6792,000	1.205	6954,360	1.253	6992,376	1.203	61,016,136
63.0004	Instrument Cable	61006	6339,000	1.205	6400,495	1.253	6424,767	1.203	6434,937
63.0006	15KV Power Cable	61008	6639,000	1.205	6794,095	1.253	6825,727	1.203	6845,497
63.0007	600 Volt Power Cable	61009	6086,000	1.205	61,067,630	1.253	61,110,150	1.203	61,156,730
63.0008	Coaxial & Spec. Purpose Cable	61007	697,000	1.205	6116,885	1.253	6121,541	1.203	6124,451
63.1201	Isolated Phase Bus	61291	6342,000	1.205	6412,110	1.253	6428,526	1.203	6438,786
63.2002	Electrical Panels	61092	6266,000	1.205	6320,530	1.253	6333,290	1.203	6341,270
63.2201	Motors	61093	61,356,000	1.205	61,874,980	1.253	61,949,668	1.203	61,996,348
63.2601	Cable Tray	61095	6180,000	1.205	6216,900	1.253	6225,540	1.203	6230,940
63.2011	Batteries and Battery Chargers	61096	6187,000	1.205	6225,335	1.253	6231,311	1.203	6239,921
63.2003	Continuous AC Power Equipment	61097	6176,000	1.205	6212,080	1.253	6220,520	1.203	6225,800
63.3001	Motor Control Centers	61098	6433,000	1.205	6521,765	1.253	6542,549	1.203	6559,539
63.3201	Trans. & Subst. Struc. & Mat.	61099	6531,000	1.205	6639,855	1.253	6665,343	1.203	6681,273
63.3401	Power Circuit Breakers	61101	6500,000	1.205	6602,500	1.253	6626,500	1.203	6641,500
63.3404	SCADA Equipment	61103	616,000	1.205	619,280	1.253	620,048	1.203	620,528
63.3407	Substation Control & Relay Pnl	61106	6114,000	1.205	6137,370	1.253	6142,842	1.203	6146,262
63.3409	Fiber Optic Equipment	61215	630,000	1.205	636,150	1.253	637,590	1.203	638,490
63.3401	Switchgear & Sec Unit Substation	61100	63,338,000	1.205	64,622,290	1.253	64,182,514	1.203	64,282,454
63.3001	Transformers	61110	63,629,000	1.205	64,372,945	1.253	64,547,137	1.203	64,656,607
Subtotal Electrical Procurement			614,879,000		616,965,195		617,640,987		618,063,357

ORLANDO UTILITIES COMMISSION
STATION UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-89 &
REVID

14-May-90

SPEC NUMBER	DESCRIPTION	DOC CODE	DOC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
64.0202	Coord. Control & Info Computer	61111	\$2,455,000	1.205	\$3,199,275	1.253	\$3,376,715	1.203	\$3,406,365
64.0204	Programmable Controllers	61112	\$621,000	1.205	\$751,920	1.253	\$701,072	1.203	\$800,592
64.0401	Annunciation Equipment	61113	\$233,000	1.205	\$280,765	1.253	\$291,949	1.203	\$290,939
64.0404	Machinery Monitoring	61114	\$200,000	1.205	\$241,000	1.253	\$250,600	1.203	\$256,600
64.0402	Primary Flow Elements	61116	\$168,000	1.205	\$202,440	1.253	\$210,504	1.203	\$215,544
64.1401	Flue Gas Monitoring System I	61162	\$433,000	1.205	\$521,765	1.253	\$562,549	1.203	\$555,539
64.1601	Control Panels	61124	\$330,000	1.205	\$407,290	1.253	\$423,514	1.203	\$433,654
64.1602	Instrument Racks	61125	\$612,000	1.205	\$737,460	1.253	\$766,036	1.203	\$785,196
64.1603	Control Relay Cabinets	61126	\$149,000	1.205	\$179,545	1.253	\$186,697	1.203	\$191,167
Subtotal Control Procurement			\$5,412,000		\$6,521,460		\$6,701,236		\$6,963,596
65.0202	Chemical Feed System	61127	\$121,000	1.205	\$145,005	1.253	\$151,613	1.203	\$155,263
65.0203	Chlorination Equipment	61128	\$60,000	1.205	\$72,300	1.253	\$75,100	1.203	\$76,900
65.0401	Condensate Polishing System	61129	\$1,367,000	1.205	\$1,647,235	1.253	\$1,712,051	1.203	\$1,753,061
65.0602	Water Quality Control System	61134	\$320,000	1.205	\$385,600	1.253	\$390,960	1.203	\$410,560
65.0901	Blowdown Treatment Equipment	61160	\$7,200,000	1.205	\$8,676,000	1.253	\$9,021,600	1.203	\$9,237,600
Subtotal Chemical Procurement			\$9,060,000		\$10,926,940		\$11,362,204		\$11,630,264
71.0401	Piling	61144	\$6,150,000	1.205	\$7,410,750	1.253	\$7,705,950	1.203	\$7,890,450
71.0402	General Constr. Substructures	61145	\$13,300,000	1.205	\$16,026,500	1.253	\$16,664,900	1.203	\$17,063,900
71.0403	General Constr.-Superstructures	61146	\$12,330,000	1.205	\$14,857,650	1.253	\$15,449,490	1.203	\$15,819,390
71.0404	Painting	61147	\$1,300,000	1.205	\$1,576,140	1.253	\$1,630,924	1.203	\$1,670,164
71.0407	Concrete Supply	61150	\$313,000	1.205	\$377,165	1.253	\$392,189	1.203	\$400,379
71.0408	Construction Testing	61151	\$1,175,000	1.205	\$1,413,875	1.253	\$1,472,275	1.203	\$1,507,525
71.0409	Ductwork Lining	61167	\$1,305,000	1.205	\$1,572,525	1.253	\$1,635,165	1.203	\$1,674,315
Subtotal Structural Construction			\$35,001,000		\$43,236,605		\$44,950,075		\$46,635,325
72.0202	Heating, Ventilating & Air Con	61152	\$1,465,000	1.205	\$1,760,325	1.253	\$1,806,245	1.203	\$1,836,195
72.0401	Mechanical Construction	61153	\$10,560,000	1.205	\$12,736,800	1.253	\$13,255,680	1.203	\$13,612,480
72.0403	Piping and Equip. Insulation	61154	\$1,917,000	1.205	\$2,309,985	1.253	\$2,402,001	1.203	\$2,459,511
72.0601	Flue Gas Cln For Test		\$90,000	1.205	\$108,090	1.253	\$112,794	1.203	\$125,734
Subtotal Mechanical Construction			\$22,740,000		\$26,799,200		\$27,666,720		\$28,533,920
73.0201	Electrical Construction	61155	\$9,012,000	1.205	\$11,023,460	1.253	\$12,794,436	1.203	\$12,509,796
73.0204	T-Line & Substation Construction	61156	\$1,065,000	1.205	\$1,283,325	1.253	\$1,334,445	1.203	\$1,366,395
Subtotal Electrical Construction			\$10,077,000		\$12,306,785		\$14,128,881		\$13,876,191
74.0400	Elec. Test & Calibration Serv.	61157	\$1,900,000	1.205	\$2,289,500	1.253	\$2,360,700	1.203	\$2,437,700
75.0100	Boiler and Preboiler Cleaning	61158	\$168,000	1.205	\$202,440	1.253	\$210,504	1.203	\$215,544
75.0200	Special Protective Coatings	61159	\$63,000	1.205	\$77,325	1.253	\$81,445	1.203	\$83,395
76.0100	Site Services	61160	\$2,165,000	1.205	\$2,608,025	1.253	\$2,712,745	MA (1)	\$3,110,000
Subtotal Control Construction			\$4,290,000		\$5,179,090		\$5,385,394		\$5,846,639

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2 425 MW
PRELIMINARY ESTIMATE 5-JAN-99 4
REBID

14-May-98

SPEC NUMBER	DESCRIPTION	UIC CODE	UIC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
90.1001	UIC Indirects								
	Startup Pumper C Bill	61163	\$503,135	1.205	\$606,270	1.253	\$650,470	1.283	\$645,522
	Startup Diesel Bill	61165	\$109,090	1.205	\$131,453	1.253	\$136,690	1.283	\$139,962
	Administrative Costs	61201	\$2,500,000	1.205	\$3,012,500	1.253	\$3,132,500	1.283	\$3,207,500
	Pre-operations & Maint	61204	\$7,500,000	1.205	\$9,037,500	1.253	\$9,397,500	1.283	\$9,622,500
	Construction Management	61206	\$2,500,000	1.205	\$3,012,500	1.253	\$3,132,500	NA (1)	\$3,500,000
	Insurance	61208	\$0,500,000	1.205	\$10,742,500	1.253	\$10,650,500	1.283	\$10,903,500
	Special Projects	61210	\$300,000	1.205	\$361,500	1.253	\$375,900	1.283	\$384,900
	Project Spare Parts		\$4,000,000	1.205	\$4,820,000	1.253	\$5,012,000	1.283	\$5,132,000
	Net Of Power Sales		(\$4,000,000)	1.205	(\$4,820,000)	1.253	(\$5,012,000)	1.283	(\$5,132,000)
	Subtotal UIC Indirects		\$21,912,225		\$26,404,231		\$27,456,010		\$28,413,005
90.1100	DEV Engineering Services	61203	\$23,105,000	1.205	\$27,937,925	1.253	\$29,050,005	1.283	\$29,746,335
90.1300	DEV Construction Mgt. Service	61207	\$14,570,000	1.205	\$17,556,050	1.253	\$18,236,210	NA (1)	\$21,307,000
90.2000	Project Contingency		\$25,000,000	1.205	\$30,125,000	1.253	\$31,325,000	1.300	\$32,290,241
90.4000	Sales Tax		\$320,000	1.205	\$385,600	1.253	\$400,960	1.283	\$410,560
			\$63,075,000		\$76,005,375		\$79,032,975		\$83,834,156
	TOTAL		\$21,341,225		\$507,716,177		\$520,015,677		\$544,027,000

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

OLAHOO UTILITIES COMMISSION
STATION UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-89 0
REPLICATION

14-Nov-90

SPEC NUMBER	DESCRIPTION	UUC CODE	UUC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
61.0403	Duct Materials Handling	FBE	61002	1.205	91,394,103	1.253	91,449,721	1.203	91,404,431
61.0405	Dust Collection Equipment		61003	1.205	9421,750	1.253	9430,550	1.203	9449,050
61.0406	Coal Cars (297)			1.205	916,930,000	1.253	921,213,290	1.203	921,721,190
61.0410	Pneumatic Material Handling		61007	1.205	932,535	1.253	933,831	1.203	934,441
61.1001	Chimney	FBE	61008	1.205	95,357,660	1.253	95,770,836	1.203	95,917,196
61.1201	Cranes & Hoists		61009	1.205	9384,395	1.253	9399,707	1.203	9409,277
61.1601	Passenger Elevators	FBE	61011	1.205	9432,595	1.253	9449,827	1.203	9466,597
61.1803	Metal Wall Panel	FBE	61012	1.205	91,070,595	1.253	91,955,427	1.203	92,000,197
61.2005	Duct Expansion Joints		61013	1.205	9765,175	1.253	9795,655	1.203	9814,705
61.2006	Duct Boppers		61014	1.205	92,000,265	1.253	92,171,449	1.203	92,223,439
61.3001	Breeching and Ducts		61019	1.205	94,015,060	1.253	94,170,996	1.203	94,270,956
61.3802	Coal Silos		61020	1.205	9404,410	1.253	9503,706	1.203	9515,766
61.4001	Structural Steel-Major Fac.	FBE	61021	1.205	928,136,751	1.256	929,330,630	1.312	930,643,443
61.4002	STR STL-Coal HND,YD		61022	1.205	9690,463	1.253	9717,919	1.203	9735,159
Subtotal Structural Procurement			935,330,000		966,682,291		969,411,602		971,604,047
62.0201	Particulate Removal Equip	FBE	61024	1.205	921,429,953	1.253	922,270,340	1.203	922,811,700
62.0202	Fine Gas Scrubber & SLS COND	FBE	61025	1.205	932,400,775	1.253	933,774,615	1.203	934,505,265
62.0401	Air Compressors		61027	1.205	9162,675	1.253	9169,155	1.203	9173,205
62.0405	Carbon Dioxide Supply		61028	1.205	996,400	1.253	996,240	1.203	996,440
62.0601	Cooling Tower	FBE	61029	1.205	916,297,625	1.253	916,946,825	1.203	917,332,575
62.0801	Fire Protection Equip		61030	1.205	9219,310	1.253	9228,046	1.203	9233,506
62.0805	Fire Suppression Systems	FBE	61031	1.205	9761,560	1.253	9791,896	1.203	9810,856
62.1001	Turbine Generator	FBE	61032	1.205	939,475,000	1.253	941,040,200	1.203	942,031,000
62.1201	Air Preheating Coils		61034	1.205	9120,500	1.253	9125,300	1.203	9120,500
62.1202	Auxiliary Cooling Heat Exch.		61035	1.205	9476,570	1.253	9483,562	1.203	9484,182
62.1203	Condenser and Auxiliary Equip		61036	1.205	91,920,000	1.253	92,004,000	1.203	92,052,000
62.1204	Condenser Tubes		61037	1.205	91,021,040	1.253	91,062,544	1.203	91,087,904
62.1205	Boiler		61038	1.205	9414,520	1.253	9431,032	1.203	9441,352
62.1206	Feedwater Heaters		61039	1.205	92,751,015	1.253	92,860,599	1.203	92,929,009
62.1211	Fuel Oil Heaters		61041	1.205	967,400	1.253	970,160	1.203	971,840
62.1801	Ash Handling System		61043	1.205	95,822,560	1.253	96,054,496	1.203	96,199,456
62.2001	Boiler Feed Pump Turbine		61044	1.205	91,996,085	1.253	92,076,221	1.203	92,125,931
62.2201	High Pressure Fabricated Pipe		61045	1.205	95,496,005	1.253	95,714,933	1.203	95,834,763
62.2203	Ash Sluice Pipe		61046	1.205	9145,805	1.253	9151,613	1.203	9155,243
62.2205	Circulating Water Pipe		61047	1.205	91,699,050	1.253	91,766,730	1.203	91,809,030
62.2403	Expansion Joints-Rubber		61049	1.205	937,355	1.253	938,043	1.203	939,773
62.2408	Pipe Supports		61050	1.205	9644,675	1.253	9670,335	1.203	9686,405
62.2414	Steam Vent Silencers		61051	1.205	910,075	1.253	910,795	1.203	911,245
62.2602	Boiler Feed Pumps (Incl Startup)		61052	1.205	92,137,670	1.253	92,222,822	1.203	92,276,042
62.2603	Circulating Water Pumps		61054	1.205	9704,130	1.253	9734,250	1.203	9751,830
62.2604	Condensate Pumps		61055	1.205	9690,900	1.253	9726,740	1.203	9744,140
62.2607	Fire Pumps		61056	1.205	944,585	1.253	946,341	1.203	947,471
62.2610	Oil Pumps		61057	1.205	936,150	1.253	937,590	1.203	938,490
62.2614	Vertical Water Pumps		61058	1.205	9353,065	1.253	9367,129	1.203	9375,919
62.2615	General Service Pumps		61059	1.205	9275,945	1.253	9286,937	1.203	9293,007
62.2802	Lube Oil Filters		61060	1.205	924,100	1.253	925,060	1.203	925,660
62.3001	Auto Flushing Type Water Str.		61061	1.205	940,250	1.253	942,650	1.203	944,150
62.3201	Air Conditioning Equipment		61062	1.205	956,635	1.253	958,091	1.203	960,301
62.3206	Ventilating Fans		61063	1.205	9275,945	1.253	9286,937	1.203	9293,007
62.3401	Steam Generator	FBE	61064	1.205	963,600,921	1.253	966,133,465	1.203	967,716,868

ORLANDO UTILITIES COMMISSION
STATION UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-01
REPLICATION

14-May-90

SPEC NUMBER	DESCRIPTION	UIC CODE	UIC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
62.3002	Forced Draft Fans	61065	6632,000	1.205	9761,560	1.253	9791,096	1.203	6810,056
62.3003	Induced Draft Fans	61066	91,061,000	1.205	91,270,505	1.253	91,329,433	1.203	91,361,263
62.3001	Field Erected Tanks	FBE 61060	6371,000	1.205	6447,055	1.253	6464,063	1.203	6475,993
62.3002	Shop Fabricated Tanks	61069	9193,000	1.205	9232,365	1.253	9241,029	1.203	9247,619
62.3001	Butterfly Valves-Ext. Steam	61070	625,000	1.205	630,125	1.253	631,125	1.203	632,079
62.3002	Large Butterfly Valves	61071	6351,000	1.205	6422,950	1.253	6439,003	1.203	6450,333
62.3003	Butterfly Valves-General Serv.	61072	692,000	1.205	698,060	1.253	699,276	1.203	699,036
62.3004	Extraction Steam-Retun VI	61073	6204,000	1.205	6245,820	1.253	6255,612	1.203	6261,732
62.3005	H.P. Cast Steel & H.O. Valves	61074	61,736,000	1.205	62,091,000	1.253	62,175,200	1.203	62,227,200
62.3007	Cast Steel Gen. Serv. Valves	61075	6492,000	1.205	6592,860	1.253	6616,476	1.203	6631,236
62.3009	Control Valves-Gen Application	61077	6277,000	1.205	6333,705	1.253	6347,001	1.203	6359,391
62.3010	Control Valves-Spec. Application	61078	9136,000	1.205	9156,650	1.253	9162,090	1.203	9166,790
62.3011	Forged Steel Valves-Gen. Serv	61080	6392,000	1.205	6472,360	1.253	6491,176	1.203	6502,936
62.3013	Bronze Valves-General Service	61081	621,000	1.205	625,305	1.253	626,313	1.203	626,943
62.3015	Safety and Relief Valves	61082	661,000	1.205	673,505	1.253	676,633	1.203	678,263
62.3017	Knife Gate Valves	61161	675,000	1.205	690,375	1.253	693,175	1.203	696,225
62.3018	Butterfly Valves-Spec Svcs	61166	603,000	1.205	6100,015	1.253	6103,999	1.203	6106,409
62.3019	Slurry Plug Valves		616,000	1.205	619,200	1.253	620,640	1.203	620,520
Subtotal Mechanical Procurement			6173,663,100		6209,264,036		6217,599,064		6222,009,757
63.0001	Overhead Conductor		60,000	1.205	69,640	1.253	69,024	1.203	69,364
63.0002	Control Cable	61086	6792,000	1.205	6954,360	1.253	6992,376	1.203	69,014,136
63.0004	Instrument Cable	61086	6339,000	1.205	6408,495	1.253	6424,767	1.203	6434,937
63.0006	15kV Power Cable	61088	6659,000	1.205	6794,095	1.253	6825,727	1.203	6845,497
63.0007	600 Volt Power Cable	61089	6086,000	1.205	61,667,630	1.253	61,110,150	1.203	61,136,730
63.0008	Coaxial & Spec. Purpose Cable	61087	697,000	1.205	6916,005	1.253	6921,541	1.203	6924,651
63.1201	Isolated Phase Bus	61091	6342,000	1.205	6412,110	1.253	6420,526	1.203	6430,706
63.2002	Electrical Panels	61092	6266,000	1.205	6320,530	1.253	6333,290	1.203	6341,270
63.2201	Motors	61093	61,556,000	1.205	61,874,980	1.253	61,949,660	1.203	61,996,340
63.26-1	Cable Tray	61095	6100,000	1.205	6216,900	1.253	6225,540	1.203	6230,940
63.2801	Batteries and Battery Chargers	61096	6107,000	1.205	6225,335	1.253	6234,311	1.203	6239,921
63.2803	Continuous AC Power Equipment	61097	6176,000	1.205	6212,000	1.253	6220,520	1.203	6225,000
63.3001	Motor Control Centers	61098	6433,000	1.205	6521,765	1.253	6542,549	1.203	6555,539
63.3201	Trans. & Subst. Struc. & Mat.	61099	6531,000	1.205	6639,055	1.253	6665,343	1.203	6681,273
63.3401	Power Circuit Breakers	61101	6500,000	1.205	6602,500	1.253	6626,500	1.203	6641,500
63.3404	SCADA Equipment	61103	616,000	1.205	619,200	1.253	620,640	1.203	620,520
63.3407	Substation Control & Relay Pnl	61106	6114,000	1.205	6137,370	1.253	6142,042	1.203	6146,262
63.3409	Fiber Optic Equipment	61215	630,000	1.205	636,150	1.253	637,590	1.203	638,490
63.3601	Switchgear & Sec Unit Substation	61100	63,330,000	1.205	64,022,290	1.253	64,182,514	1.203	64,202,654
63.3801	Transformers	61110	63,629,000	1.205	64,372,945	1.253	64,547,137	1.203	64,656,067
Subtotal Electrical Procurement			616,079,000		616,965,195		617,640,907		618,063,357

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-89 &
REPLICATION

14-May-90

SPEC NUMBER	DESCRIPTION	QUC CODE	QUC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
64.0202	Coord. Control & Info Computer	61111	\$2,655,000	1.205	\$3,199,275	1.253	\$3,326,715	1.283	\$3,466,365
64.0204	Programmable Controllers	61112	\$624,000	1.205	\$751,920	1.253	\$781,872	1.283	\$800,592
64.0401	Annunciation Equipment	61113	\$233,000	1.205	\$280,765	1.253	\$291,949	1.283	\$298,939
64.0404	Machinery Monitoring	61114	\$200,000	1.205	\$241,000	1.253	\$250,600	1.283	\$256,600
64.0602	Primary Flow Elements	61116	\$168,000	1.205	\$202,440	1.253	\$210,504	1.283	\$215,544
64.1101	Flue Gas Monitoring System 1	61162	\$433,000	1.205	\$521,765	1.253	\$542,549	1.283	\$555,579
64.1601	Control Panels	61124	\$330,000	1.205	\$407,290	1.253	\$423,514	1.283	\$433,654
64.1602	Instrument Racks	61125	\$612,000	1.205	\$737,460	1.253	\$766,836	1.283	\$785,196
64.1603	Control Relay Cabinets	61126	\$149,000	1.205	\$179,545	1.253	\$186,697	1.283	\$191,167
Subtotal Control Procurement			\$5,412,000		\$6,521,460		\$6,781,236		\$6,944,305
65.0202	Chemical Feed System	61127	\$121,000	1.205	\$145,865	1.253	\$151,613	1.283	\$155,243
65.0203	Chlorination Equipment	61128	\$60,000	1.205	\$72,300	1.253	\$75,180	1.283	\$76,900
65.0401	Condensate Polishing System	61129	\$1,367,000	1.205	\$1,647,735	1.253	\$1,712,851	1.283	\$1,753,861
65.0602	Water Quality Control System	61134	\$320,000	1.205	\$385,600	1.253	\$400,960	1.283	\$410,560
65.0801	Blowdown Treatment Equipment	61168	\$7,200,000	1.205	\$8,676,000	1.253	\$9,021,600	1.283	\$9,237,600
Subtotal Chemical Procurement			\$9,668,000		\$10,926,900		\$11,362,204		\$11,634,244
71.0401	Piling	61144	\$6,150,000	1.205	\$7,410,750	1.253	\$7,705,950	1.283	\$7,890,450
71.0402	General Constr. Substructures	61145	\$15,300,000	1.205	\$18,426,500	1.253	\$18,664,900	1.283	\$18,863,900
71.0403	General Constr.-Superstructures	61146	\$12,330,000	1.205	\$14,857,650	1.253	\$15,449,490	1.283	\$15,819,390
71.0404	Painting	61147	\$1,300,000	1.205	\$1,578,160	1.253	\$1,630,920	1.283	\$1,670,164
71.0407	Concrete Supply	61150	\$313,000	1.205	\$377,165	1.253	\$392,189	1.283	\$401,579
71.0408	Construction Testing	61151	\$1,175,000	1.205	\$1,415,875	1.253	\$1,472,275	1.283	\$1,507,525
71.0409	Ductwork Lining	61167	\$1,305,000	1.205	\$1,572,525	1.253	\$1,635,165	1.283	\$1,674,315
Subtotal Structural Construction			\$35,881,000		\$43,236,605		\$44,958,893		\$46,635,325
72.0202	Heating, Ventilating & Air Con	61152	\$1,665,000	1.205	\$2,004,325	1.253	\$2,066,245	1.283	\$2,136,195
72.0401	Mechanical Construction	61153	\$10,560,000	1.205	\$12,734,800	1.253	\$12,955,680	1.283	\$13,312,400
72.0403	Piping and Equip. Insulation	61154	\$1,917,000	1.205	\$2,309,985	1.253	\$2,402,001	1.283	\$2,459,511
72.0401	Flue Gas Cln For Test		\$98,000	1.205	\$118,090	1.253	\$122,794	1.283	\$125,734
Subtotal Mechanical Construction			\$22,240,000		\$26,799,200		\$27,866,720		\$28,533,920
75.0201	Electrical Construction	61155	\$9,812,000	1.205	\$11,823,460	1.253	\$12,294,436	1.283	\$12,588,796
75.0204	T-Line & Substation Construction	61156	\$1,065,000	1.205	\$1,283,325	1.253	\$1,334,445	1.283	\$1,366,395
Subtotal Electrical Construction			\$10,877,000		\$13,106,785		\$13,628,881		\$13,955,191
76.0400	Elec. Test & Calibration Serv.	61157	\$1,900,000	1.205	\$2,289,500	1.253	\$2,380,700	1.283	\$2,437,700
75.0100	Boiler and Preheater Cleaning	61158	\$168,000	1.205	\$202,440	1.253	\$210,504	1.283	\$215,544
75.0200	Special Protective Coatings	61159	\$65,000	1.205	\$78,325	1.253	\$80,445	1.283	\$83,395
76.0100	Site Services	61160	\$2,165,000	1.205	\$2,608,825	1.253	\$2,712,745	NA (1)	\$3,110,000
Subtotal Control Construction			\$4,290,000		\$5,179,890		\$5,385,394		\$5,846,639

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-89 &
REPLICATION

14-May-90

SPEC NUMBER	DESCRIPTION	UUC CODE	UUC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
90.1001	UUC Indirects								
	Startup Diesel Oil	61163	\$503,135	1.205	\$606,270	1.253	\$630,420	1.283	\$645,322
	Startup Diesel Oil	61165	\$109,090	1.205	\$131,453	1.253	\$136,490	1.283	\$139,962
	Administrative Costs	61201	\$2,500,000	1.205	\$3,012,500	1.253	\$3,132,500	1.283	\$3,207,500
	Pre-operations & Maint	61204	\$7,000,000	1.205	\$8,435,000	1.253	\$8,771,000	1.283	\$8,981,000
	Construction Management	61206	\$2,500,000	1.205	\$3,012,500	1.253	\$3,132,500	HA (1)	\$3,500,100
	Insurance	61208	\$8,500,000	1.205	\$10,242,500	1.253	\$10,650,500	1.283	\$10,965,500
	Special Projects	61210	\$300,000	1.205	\$361,500	1.253	\$375,900	1.283	\$384,900
	Project Spare Parts		\$2,000,000	1.205	\$2,410,000	1.253	\$2,506,000	1.283	\$2,566,000
	Net Of Power Sales		(\$4,000,000)	1.205	(\$4,820,000)	1.253	(\$5,012,000)	1.283	(\$5,136,000)
	Subtotal UUC Indirects		\$19,412,725		\$23,391,731		\$24,325,510		\$25,206,403
90.1100	DAV Engineering Services	61203	\$19,750,000	1.205	\$23,790,750	1.253	\$24,746,750	1.283	\$25,339,250
90.1300	DAV Construction Mgmt. Service	61207	\$14,570,000	1.205	\$17,556,850	1.253	\$18,256,210	HA (1)	\$21,387,000
90.2000	Project Contingency		\$25,000,000	1.205	\$30,125,000	1.253	\$31,325,000	1.283	\$32,075,000
90.6000	Sales Tax		\$320,000	1.205	\$385,600	1.253	\$400,960	1.283	\$410,560
			\$39,640,000		\$47,866,200		\$49,728,920		\$50,921,810
	TOTAL		\$69,908,325		\$8493,939,532		\$8513,608,219		\$8529,924,369

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

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 14-MAY-90
CASH FLOW 1997 C.O. (REPLICA)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 90	FEB 90	MAR 90	APR 90	MAY 90	JUN 90	JUL 90	AUG 90	SEP 90	OCT 90	NOV 90	DEC 90	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 91	SEP 91	OCT 91	NOV 91	DEC 91
IPP ANALYSIS										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 LICENSING															6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
PROJECT MANAGEMENT (OUC)	20.0				20.0						20.0						20.0						20.0	
ENGINEERING & PROCUREMENT																								
CONSTRUCTION MANAGEMENT																								
MISCELLANEOUS INDIRECTS																								
EQUIPMENT & CONSTRUCTION																								
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	6.3
YEARLY TOTALS																								
QUARTERLY TOTALS				20.0		20.0			0.0			77.3			63.6			96.2			57.1			30.9
CUMULATIVE TOTALS	20	20	20	20	40	40	40	40	40	59	90	117	136	155	181	206	252	277	302	320	334	340	367	373

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 14-MAY-90
CASH FLOW 1997 C.O. (REPLICA)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92	JAN 93	FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 93	OCT 93	NOV 93	DEC 93
IPP ANALYSIS																								
PERMIT EXTENSION & BACT LICENSING	6.3																							
PROJECT MANAGEMENT (OUC)	41.0	41.0	41.0	41.0	61.0	41.0	41.0	41.0	41.0	41.0	61.0	41.0	41.0	41.0	41.0	41.0	61.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
ENGINEERING & PROCUREMENT		233.2	349.0	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	509.3	839.5	839.5	806.2	792.9	676.3	676.3	746.3
CONSTRUCTION MANAGEMENT																	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
MISCELLANEOUS INDIRECTS	0.0	0.0	0.0	0.0	0.0	101.9	152.0	254.6	152.0	152.0	152.0	611.1	254.6	254.6	254.6	509.3	763.9	763.9	763.9	2037.1	1273.2	1273.2	1010.5	1010.5
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	6302.6	6302.6	17020.2	10637.7	10637.7	8510.1	8510.1
MONTHLY TOTALS	40.1	502.5	619.1	735.7	755.7	1750.5	2235.0	3033.5	2080.6	2080.6	2100.6	6368.5	3033.5	3033.5	3033.5	5716.0	8164.0	8401.3	8401.3	20350.8	13119.0	13002.4	10620.2	10690.2
YEARLY TOTALS																								
QUARTERLY TOTALS				1169.0		3250.0			7349.1			10549.0			9100.5			22202.0			41079.0			34312.0
CUMULATIVE TOTALS	421	924	1,543	2,278	3,034	4,793	7,020	10,061	12,142	14,222	16,323	22,692	25,725	28,759	31,792	37,508	45,673	54,074	62,475	82,834	95,953	108,955	119,576	130,266

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 14-MAY-90
CASH FLOW 1997 C.O. (REPLICA)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 94	FEB 94	MAR 94	APR 94	MAY 94	JUN 94	JUL 94	AUG 94	SEP 94	OCT 94	NOV 94	DEC 94	JAN 95	FEB 95	MAR 95	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	OCT 95	NOV 95	DEC 95
IPP ANALYSIS																								
PERMIT EXTENSION & BACT																								
LICENSING																								
PROJECT MANAGEMENT (DUC)	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
ENGINEERING & PROCUREMENT	816.2	806.2	536.4	443.1	536.4	536.4	513.0	419.0	419.0	256.5	209.9	209.9	209.9	256.5	303.2	279.0	233.2	233.2	233.2	233.2	233.2	233.2	233.2	116.6
CONSTRUCTION MANAGEMENT	373.4	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9
MISCELLANEOUS INDIRECTS	1010.5	1010.5	2037.1	1120.4	1120.4	1120.4	1004.3	1120.4	1120.4	1010.5	1935.2	1010.5	1010.5	1010.5	1010.5	1425.9	1702.4	0.0	1171.3	814.0	967.6	967.6	509.3	509.3
EQUIPMENT & CONSTRUCTION	8510.1	8510.1	17020.2	9361.1	9361.1	9361.1	15743.7	9361.1	9361.1	8510.1	16169.2	8510.1	8510.1	8510.1	8510.1	11914.2	14092.7	0.0	9706.6	6000.1	8004.6	8004.6	4255.1	4255.1
MONTHLY TOTALS	10760.1	11037.6	20216.4	11547.3	11640.6	11640.6	18763.8	11524.0	11524.0	10407.9	18937.1	10361.3	10361.3	10407.9	10454.5	14242.7	17531.1	855.9	11013.9	8470.9	9900.2	9900.2	5620.3	5503.7
YEARLY TOTALS																								
QUARTERLY TOTALS																								
CUMULATIVE TOTALS	141,026	152,064	172,280	183,827	195,468	207,109	225,872	237,396	248,920	259,328	270,265	280,627	290,908	309,396	319,050	334,093	351,624	352,480	364,294	372,773	382,681	392,589	398,209	403,713

FY1994 TOTAL >>>152,967

FY1995 TOTAL >>>133,761

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 14-MAY-90
CASH FLOW 1997 C.O. (REPLICA)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 96	FEB 96	MAR 96	APR 96	MAY 96	JUN 96	JUL 96	AUG 96	SEP 96	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	APR 97	MAY 97	JUN 97	JUL 97	AUG 97	SEP 97	TOTAL COST
IPP ANALYSIS																						210
PERMIT EXTENSION & BACT																						69
LICENSING																						1,950
PROJECT MANAGEMENT (DUC)	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	3,048
ENGINEERING & PROCUREMENT	116.6	116.6	116.6	116.6	116.6	116.6	116.6	116.6	116.6					233.2								23,320
CONSTRUCTION MANAGEMENT	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	24,895
MISCELLANEOUS INDIRECTS	967.6	967.6	967.6	509.3	967.6	967.6	1010.5	254.6	713.0	1069.5	1069.5	967.6	916.7	152.0	152.0	152.0	203.7	101.9	101.9	101.9	101.9	50,927
EQUIPMENT & 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	425,506
MONTHLY TOTALS	9791.6	9791.6	9791.6	5503.7	9791.6	9791.6	10268.0	2955.5	7243.4	10461.0	10461.0	9509.0	9032.6	2119.3	1086.1	1086.1	1947.6	994.7	994.7	994.7	994.7	529,924
YEARLY TOTALS																						
QUARTERLY TOTALS																						
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	527,935	528,930	529,924	

FY1996 TOTAL >>> 95,960

FY1997 TOTAL >>> 51,283

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 14-MAY-90
CASH FLOW 1997 C.O. (REBID)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 90	FEB 90	MAR 90	APR 90	MAY 90	JUN 90	JUL 90	AUG 90	SEP 90	OCT 90	NOV 90	DEC 90	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 91	SEP 91	OCT 91	NOV 91	DEC 91
IPP ANALYSIS										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 LICENSING															6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
PROJECT MANAGEMENT (OUC)	20.0				20.0						20.0						20.0			39.0	39.0	39.0	39.0	39.0
ENGINEERING & PROCUREMENT																					277.3	277.3	277.3	277.3
CONSTRUCTION MANAGEMENT																								
MISCELLANEOUS INDIRECTS																								
EQUIPMENT & CONSTRUCTION																								
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	64.4	322.6	322.6	342.6	322.6
FISCAL YEAR TOTALS																								
QUARTERLY TOTALS			20.0			20.0			40				77.3		63.6			96.2			649			
CUMULATIVE TOTALS	20.0	20	20	20	40	40	40	40	40	59	98	117	136	155	181	206	252	277	302	367	689	1,012	1,355	1,677

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 14-MAY-90
CASH FLOW 1997 C.O. (REBID)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92	JAN 93	FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 93	OCT 93	NOV 93	DEC 93
IPP ANALYSIS																								
PERMIT EXTENSION & BACT LICENSING	6.3																							
PROJECT MANAGEMENT (OUC)	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										
ENGINEERING & PROCUREMENT	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
CONSTRUCTION MANAGEMENT	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	554.5	637.7	990.2	990.2	1053.6	942.7	804.1	804.1	887.3	970.5	1053.6	637.7
MISCELLANEOUS INDIRECTS																								
EQUIPMENT & CONSTRUCTION	0.0	0.0	0.0	0.0	0.0	108.7	163.0	271.7	163.0	163.0	163.0	652.2	271.7	271.7	271.7	543.5	815.2	815.2	815.2	2174.0	1350.7	1350.7	1087.0	1087.0
	0.0	0.0	0.0	0.0	0.0	865.2	1297.7	2162.9	1297.7	1297.7	1297.7	5190.9	2162.9	2162.9	2162.9	4325.8	6488.7	6488.7	6488.7	17303.2	10814.5	10814.5	8651.6	8651.6
MONTHLY TOTALS	827.3	821.0	821.0	821.0	841.0	1794.9	2127.5	3101.3	2127.5	2127.5	2147.5	6509.8	3101.3	3184.5	3471.9	6279.9	8790.0	8659.1	8520.5	20693.7	13472.9	13556.1	11204.7	10788.7
FISCAL YEAR TOTALS																								
QUARTERLY TOTALS			2469.4			3456.9			7356.3				10784.8		9757.7			23729.0			42687.1			35549.5
CUMULATIVE TOTALS	2,504	3,325	4,147	4,968	5,809	7,603	9,731	12,832	14,960	17,087	19,235	25,744	28,846	32,030	35,502	41,782	50,572	59,231	67,752	88,445	101,918	115,474	126,679	137,468

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 MW
ESTIMATE AS OF 14-MAY-90
CASH FLOW 1997 C.O. (REBID)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 94	FEB 94	MAR 94	APR 94	MAY 94	JUN 94	JUL 94	AUG 94	SEP 94	OCT 94	NOV 94	DEC 94	JAN 95	FEB 95	MAR 95	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	OCT 95	NOV 95	DEC 95
IPP ANALYSIS																								
PERMIT EXTENSION & BACT LICENSING																								
PROJECT MANAGEMENT (OUC)	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
ENGINEERING & PROCUREMENT	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	277.3	138.6	138.6	138.6	138.6
CONSTRUCTION MANAGEMENT	373.4	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9
MISCELLANEOUS INDIRECTS	1087.0	1087.0	2174.0	1195.7	1195.7	1195.7	2010.9	1195.7	1195.7	1087.0	2065.3	1087.0	1087.0	1087.0	1087.0	1521.8	1902.2	0.0	1250.0	869.6	1032.6	1032.6	543.5	543.5
EQUIPMENT & CONSTRUCTION	8651.6	8651.6	17303.2	9516.7	9516.7	9516.7	16005.4	9516.7	9516.7	8651.6	16438.0	8651.6	8651.6	8651.6	8651.6	12112.2	15140.3	0.0	9949.3	6921.3	8219.0	8219.0	4325.0	4325.0
MONTHLY TOTALS	10677.0	10996.2	20734.0	11942.3	11831.4	11831.4	18941.2	11581.9	11581.9	10608.0	19420.2	10718.9	10691.2	10635.7	10635.7	14531.2	17939.7	897.2	12996.5	8689.0	10010.2	10010.2	5627.0	5627.0
FISCAL YEAR TOTALS							FY1994 TOTAL >>>155,648												FY1995 TOTAL >>>136,001					
QUARTERLY TOTALS			42408.0			35605.2		42105.0			40755.1		31962.7		33360.0		30794.7						21265.0	
CUMULATIVE TOTALS	148,146	159,142	179,877	191,819	203,650	215,482	234,423	246,005	257,587	268,195	287,623	298,342	309,033	319,669	330,304	344,836	362,775	363,672	375,769	384,457	394,467	404,477	410,105	415,733

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 MW
ESTIMATE AS OF 14-MAY-90
CASH FLOW 1997 C.O. (REBID)

DOLLARS X 1000

DOLLARS X 1000

CASH FLOW 1997 C.O. (REBID)																						
DESCRIPTION	JAN 96	FEB 96	MAR 96	APR 96	MAY 96	JUN 96	JUL 96	AUG 96	SEP 96	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	APR 97	MAY 97	JUN 97	JUL 97	AUG 97	SEP 97	TOTAL COST
IPP ANALYSIS																						210
PERMIT EXTENSION & BACT LICENSING																						69
PROJECT MANAGEMENT (OUC)	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	1,950
ENGINEERING & PROCUREMENT	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6				277.3								3,048
CONSTRUCTION MANAGEMENT	500.9	500.9	500.9	500.9	500.9	500.9	500.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9							27,727
MISCELLANEOUS 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	163.0	108.7	108.7	217.4	108.7	108.7	108.7	108.7	24,895
EQUIPMENT & CONSTRUCTION	8219.0	8219.0	8219.0	4325.0	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	54,349
MONTHLY TOTALS	10010.2	10010.2	10010.2	5627.0	10010.2	10010.2	10497.1	3027.7	7409.6	11305.0	11166.4	9702.6	9218.6	2192.0	1427.8	1427.8	1986.7	1012.9	1012.9	1012.9	1012.9	544,827
FISCAL YEAR TOTALS																						
QUARTERLY TOTALS																						
CUMULATIVE TOTALS	425,743	435,753	445,764	451,391	461,402	471,412	481,909	484,936	492,346	503,651	514,817	524,523	533,741	535,933	537,361	538,789	540,775	541,788	542,801	543,814	544,827	

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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.

- 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.

- Independent Power Producer--New Site.
- 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.
- 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	Commercial Operation		
	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*	May 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	May 1990	Apr 1991	July 1991
<u>SEC Unit 2 Rebid</u>			
Authorize 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	Mar 1992
Begin Awarding Contract for Remaining Equipment	June 1991	June 1992	Sep 1992
Award Contract for First Construction Contract	Dec 1991	Dec 1992	Mar 1993
Construction Begins	Mar 1992	Mar 1993	June 1993
<u>SEC Unit 2 Replication</u>			
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 Contract	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.

- 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.
- 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.
- Total capital cost estimate for constructing SEC Unit 2 utilizing 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>	<u>1995</u> <u>(\$1,000)</u>	<u>1996</u> <u>(\$1,000)</u>	<u>1997</u> <u>(\$1,000)</u>
SEC Unit 2 Replication	493,940	513,688	537,271
SEC Unit 2 Rebid	507,716	528,016	552,174
	<u>1992</u> <u>(\$1,000)</u>	<u>1993</u> <u>(\$1,000)</u>	<u>1994</u> <u>(\$1,000)</u>
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

TABLE 2-2. DOLLARS COMMITTED AT END OF QUARTER

Commercial Operation fiscal year	Quarter	Rebid			Replicate		
		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 Need 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.
 - Givens--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.
- The number of spare parts required to be maintained in inventory 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 loses 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.

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

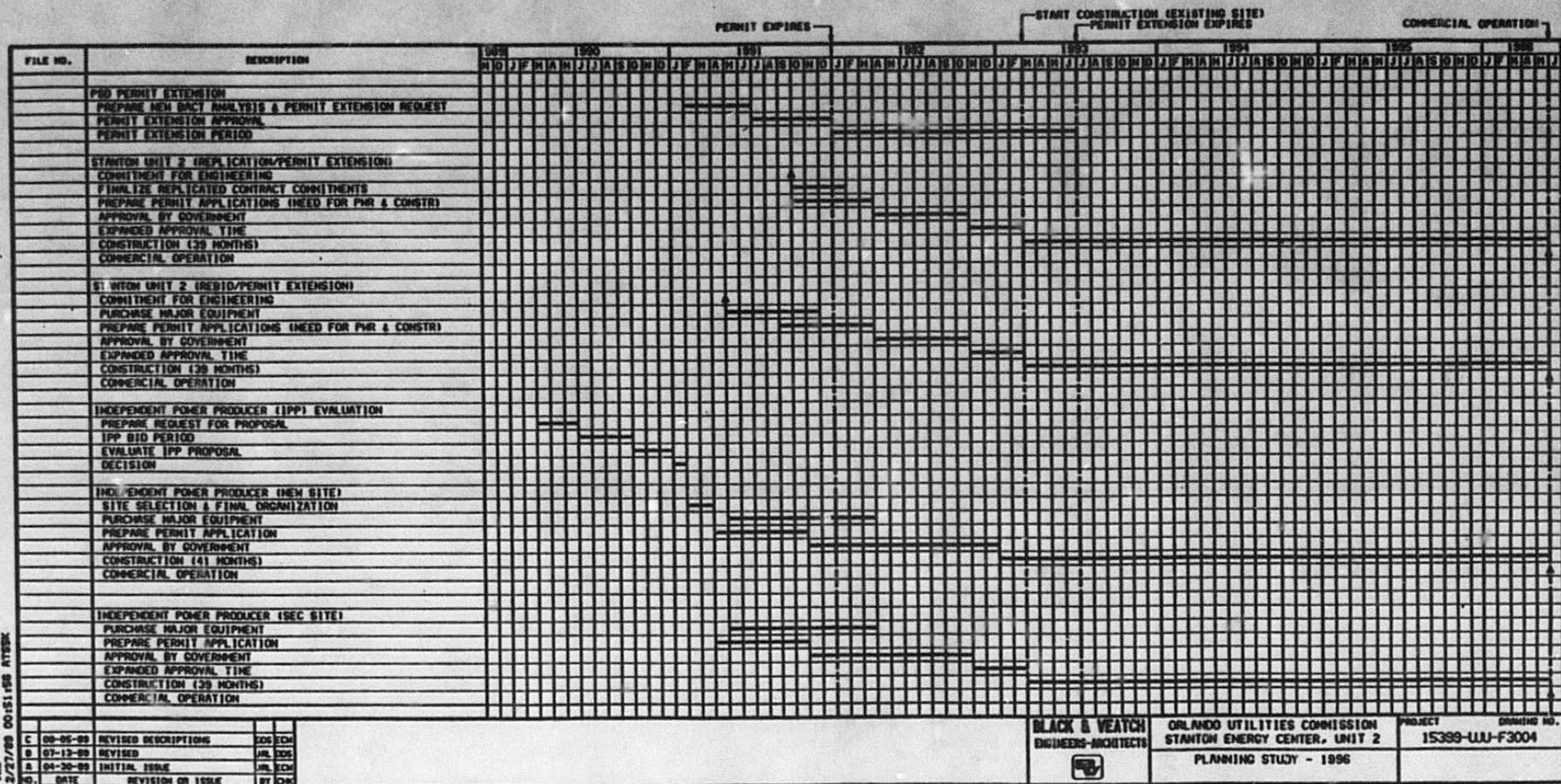
Each schedule includes the following.

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

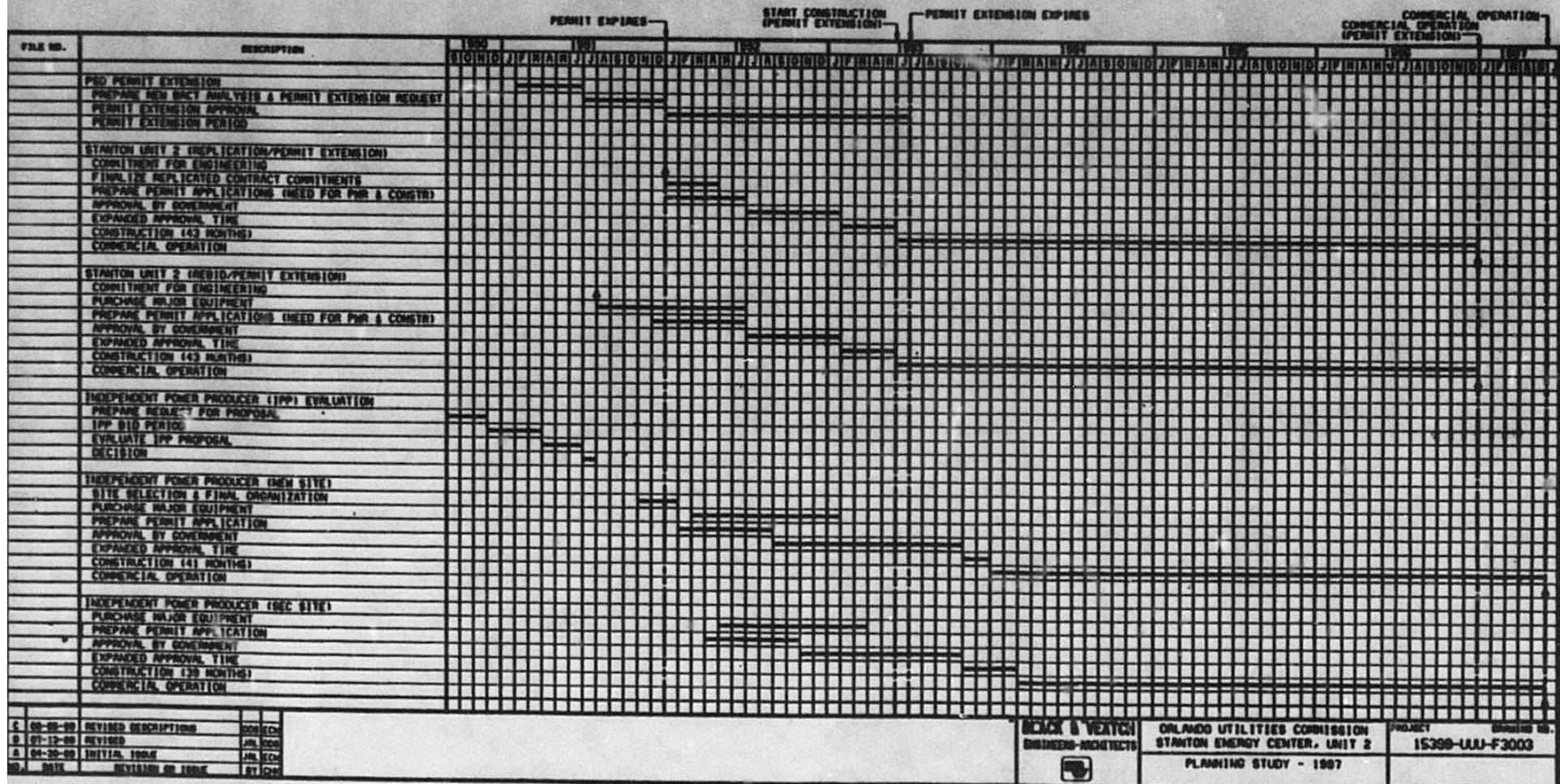
The Project Milestone Schedule, Figure 5-4, for the combustion turbines at Indian River Plant includes the following.

- Permits and Licensing.
- Conceptual Design.
- Design Engineering.
- 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.



Commercial Operation in 1996 - Figure 5.2



Commercial Operation In 1997 - Figure 5.3

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 have 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 Controlling Parameters. 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 GE's letter of June 22, 1989 and are as follows.

<u>Year of Shipment</u>	<u>Latest Date for Full Release</u>
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

<u>Commercial Operation Date</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>
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

<u>Commercial Operating Date</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>
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

Decision Description	Commercial Operation		
	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*	May 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	May 1990	Apr 1991	July 1991
<u>SEC Unit 2 Rebid</u>			
Authorize 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	Mar 1992
Begin Awarding Contract for Remaining Equipment	June 1991	June 1992	Sep 1992
Award Contract for First Construction Contract	Dec 1991	Dec 1992	Mar 1993
Construction Begins	Mar 1992	Mar 1993	June 1993
<u>SEC Unit 2 Replication</u>			
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 Contract	Dec 1991	Dec 1993	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.

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.

- 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, three-phase, 60 hertz hydrogen inner-cooled generator.
- Steam Generator—3,305,000 lb/h main steam at 2,640 psig/1,005 F, 2,802,000 lb/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.

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

<u>Commercial Operating Date</u>	<u>1995</u> (\$x1,000)	<u>1996</u> (\$x1,000)	<u>1997</u> (\$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.

<u>Commercial Operating Date</u>	<u>1992</u> <u>(\$x1,000)</u>	<u>1993</u> <u>(\$x1,000)</u>	<u>1994</u> <u>(\$x1,000)</u>
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 not 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

TABLE 7-1. CASH FLOWS BY QUARTER

Fiscal Year	Quarter	SEC Unit 2 Replicate			SEC Unit Bid		
		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
1991	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	417
1992	1	11,726	1,106	39	11,983	1,660	1,002
	2	16,525	2,125	1,180	17,100	1,899	2,497
	3	37,594	6,814	3,289	38,768	6,853	3,498
	4	34,647	6,119	7,453	35,689	6,253	7,460
1993	1	30,571	12,177	10,702	31,541	12,362	10,936
	2	38,820	17,180	9,232	39,855	17,698	9,898
	3	40,899	39,092	22,593	41,953	40,309	24,054
	4	42,940	36,028	42,478	43,932	37,108	43,279
1994	1	40,796	31,788	34,800	41,756	32,794	36,041
	2	36,755	40,368	42,608	37,624	41,441	42,990
	3	23,761	42,531	35,313	24,342	43,624	36,086
	4	23,651	44,655	42,398	24,212	45,683	42,676
1995	1	23,431	42,424	40,260	23,950	43,420	41,307
	2	21,130	38,222	31,654	21,611	39,122	32,390
	3	27,382	24,700	33,080	27,998	25,309	33,816
	4	19,014	24,594	30,616	19,394	25,174	31,206
1996	1	4,809	24,366	21,313	4,946	24,902	21,541
	2	3,696	21,973	29,777	3,767	22,470	30,430
	3	--	28,475	25,426	--	29,112	25,985
	4	--	19,773	20,744	--	20,165	21,209
1997	1	--	4,999	30,857	--	5,134	32,613
	2	--	3,842	13,209	--	3,913	13,001
	3	--	--	4,891	--	--	4,482
	4	--	--	3,026	--	--	3,080

TABLE 7-2. CASH FLOW FOR CTS C AND D FRAME 7E BY QUARTER

Fiscal Year	Quarter	Without Quiet Combustor			With Quiet Combustor		
		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	--	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

<u>Fiscal Year</u>	<u>Quarter</u>	<u>1992 (\$x1,000)</u>	<u>1993 (\$x1,000)</u>	<u>1994 (\$x1,000)</u>
1989	4	10	—	—
1990	1	10	—	—
	2	23	—	—
	3	3,099	7	—
	4	56	11	—
1991	1	7,735	11	—
	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	—	—	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 Operation fiscal year	Quarter	Rebid			Replicate		
		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.

Pullman Power Products Corporation proposes to detail, furnish all materials (excluding ready-mixed concrete), supervision, labor, insurance as specified, equipment and taxes necessary to construct one (1) 550'-0" tall reinforced concrete chimney with one (1) 19'-0" top interior diameter pedestal-supported independent brick liner in conformance with the above referenced Specification for the Lump Sum Firm Current Price of \$4,285,000.00

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, 1988
Page 2

On the Unit No. 1 Chimney, Pullman Power Products Corporation was required to purchase all ready-mixed concrete used onsite 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 Inconel 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,

William C. Cobb, Jr.

William C. Cobb, Jr.
Contracts Engineer
Concrete Construction

WCC/db



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

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

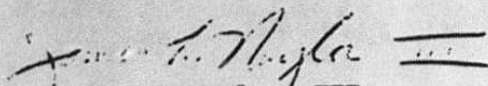
Dear Mr. Windisch:

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-competition 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

JLN: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 procedures.

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	BLS Code No. 117 (Electrical Machinery and Equipment)	396,000.00
Rebar, Metals & All Other	BLS 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



Page 2

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 ELS 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 Inconel 625 material price will be adjusted for escalation or de-escalation by dividing the unit price per pound for the 1/4" Inconel 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 BREAKDOWN
- Chart II -

Category	Representative Craft	Wages ² &	Fringes ³	% Erection Portion of Cont. Price
Column, Pedestal & Conc. Flrs.	Carpenter	\$ 16.64/Hr		
	Iron Worker	\$ 17.18/Hr		
	Laborer	\$ 12.52/Hr		
		\$ 46.34/Hr =	\$ 15.45/Hr	\$850,000.00
Brick Liner & Floors:	Brick Layer	\$ 17.17/Hr		
	Cement Mason	\$ 11.83/Hr		
		\$ 29.00/Hr =	\$ 14.50/Hr	\$597,000.00
Misc. Metal	Iron Worker	\$ 17.18/Hr.-	\$17.18/Hr	\$480,000.00
TOTAL				\$2,027,000.00

2 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.

3 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 or 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 representative 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.



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
AQC 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

A handwritten signature in dark ink, appearing to read "Raymond A. Phillips".

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.
2. 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 Project Administration System (see attached) has proven itself on Black & Veatch projects.



9. Our Field Services (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 out 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 fabricating 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 erection sequence for the project. The project will then be divided into erection blocks or sequences, each block consisting of a specific erectable area of the structure. All erection 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 erection, all control is by block number. The erector 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 erectable sequences in order - not the purlins 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.

AMERICAN 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

AISC Quality Certification Program

Neil W. Zander
President

8/20/91
Valid Until



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).
2. 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.
6. Organic zinc primer, epoxy intermediate coat and urethane top coat.

		1991												1992												1993													
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
BOILER	DET																																						
TIER 1	MAT																																						
	FAB																																						
995 T DEL																																							
BOILER	DET																																						
TIER 2	MAT																																						
	FAB																																						
973 T DEL																																							
BOILER	DET																																						
TIER 3	MAT																																						
	FAB																																						
1321 T DEL																																							
BOILER	DET																																						
TIER 4	MAT																																						
	FAB																																						
816 T DEL																																							
BOILER	DET																																						
TIER 5	MAT																																						
	FAB																																						
420 T DEL																																							
BOILER	DET																																						
TIER 6	MAT																																						
	FAB																																						
1005 T DEL																																							
BOILER	DET																																						
BACKEND	MAT																																						
	FAB																																						
1558 T DEL																																							
TURBINE	DET																																						
	MAT																																						
	FAB																																						
1528 T DEL																																							
CONTROL	DET																																						
	MAT																																						
	FAB																																						
191 T DEL																																							
PRECIP	DET																																						
	MAT																																						
	FAB																																						
756 T DEL																																							
AQC	DET																																						
	MAT																																						
	FAB																																						
2000 T DEL																																							

OUC - STANTON ENERGY CENTER - UNIT 2
 COMMERCIAL OPERATING DATE - MAY 1, 1995
 PROPOSED PROJECT SCHEDULE
 STRUCTURAL STEEL



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.
2. 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:
 - a. 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:

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

	<u>Current</u>
Base	\$24.90/CWT
Grade	\$ 2.40/CWT
Section	\$ 2.70/CWT
Cutting	\$ <u>1.00/CWT</u>
Total	\$31.00/CWT
Discount	\$ <u>3.75/CWT</u>
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:

	<u>Major Facilities</u>	<u>Auxiliary Facilities</u>
Inbound Freight	\$35.47/Ton	\$35.62/Ton
Outbound 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.

29-May-89

ORLANDO UTILITIES - MAJOR FACILITIES ORIGINAL CONTRACT BREAKDOWN

	TOTAL	BOILER	TURBINE	CONTROL	ADMIN
ITEM I - CONTRACT BREAKDOWN					
TOTAL CONTRACT PER ITEM III	11786677	8634969	1915236	401414	835058
TOTAL TONS PER ITEM II	9685.3	7087.1	1528.4	382.5	687.3
	MARKUP				
ENGINEER & DRAFT PER ITEM V	603881	436524	95601	24575	47181
MISC - PER FINAL INV. INC	667229	486164	75983	47930	57152
DECK - PER FINAL INV. INC	358828	107828	109000	41000	101000
STEEL - ACT COST 435.90 /TN 5.00%	3920112	2834642	633908	158042	293520
TUBE - ACT COST 564.40 /TN 5.00%	575023	458632	74848	18845	22697
PAINT - ACT COST 19.32 /TN 5.00%	196477	143769	31005	7760	13942
BOLTS - ACT COST 22.90 /TN 5.00%	232926	170440	36757	9200	16528
IB FRT - ACT COST 35.47 /TN 5.00%	355161	259885	56047	14028	25202
OB FRT - ACT COST 39.52 /TN 5.00%	395707	289553	62445	15629	28079
LABOR (REMAINDER)	4481332	3447531	739641	64404	229757

ITEM II - FINAL WEIGHTS

STEEL	8564.9	6193.3	1385.0	345.3	641.3
BOLTS	150.1	119.9	17.1	5.4	7.7
TUBE	970.3	773.9	126.3	31.8	38.3
TOTAL TONS	9685.3	7087.1	1528.4	382.5	687.3

ITEM III - VALUE BY BUILDING PER FINAL INVOICE

BASE CONTRACT	10830000	7812000	1849000	356000	813000
CO #2 ADDS	963445	816257	74165	47399	25624
CO #2 CREDITS	-50248	-36768	-7929	-1985	-3566
CO #3	43480	43480			
TOTAL CO #2 & #3	956677	822969	66236	45414	22058
TOTAL CONTRACT	11786677	8634969	1915236	401414	835058

ITEM IV - BREAKDOWN OF CONTRACT ADDS (CO #2 & CO #3)

EXTRA DRAFT - PER KC'S	29855	21846	4711	1179	2118
SCOPE CHANGES	16249	11890	2564	642	1153
UNIT PRICE WEIGHT CHANGES	910573	789233	58960	43593	18787
TOTAL CO #2 & #3	956677	822969	66236	45414	22058

ITEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING

BASE BID - PER BID FORM	485690	355397	76645	19183	34464
EXTRA DRAFT - PER KC'S	29855	21846	4711	1179	2118
MISC - PER VENDOR	31100	24600	3100	1000	2400
DECK - PER VENDOR	16400	4800	4700	1600	5300
UNIT PRICE CHANGES - PROPORTIONED	40836	29881	6444	1613	2898
TOTAL VALUE	603881	436524	95601	24575	47181

29-May-89

ORLANDO UTILITIES - AUXILIARY FACILITIES
ORIGINAL CONTRACT BREAKDOWN

ITEM I - CONTRACT BREAKDOWN	TOTAL	PRECIP	AOC	LIME UNLOAD	WATER MGT	CRUSHER	SLUDGE	CC UNLOAD	YARD	COAL TRANS	SMALL BLDGS	PIPE BRIDGE	CONV	TRANS TOWER	LATE STEEL	WORK ORDERS
TOTAL CONTRACT PER ITEM III	13452080	811115	3611477	0	396555	552093	1964339	507924	335859	739094	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	38.9
ENGINEER & DRAFT PER ITEM V	640766	47834	168367	-7513	20395	26029	96610	14622	8848	38997	73645	9883	139107	0	0	3142
MISC - PER FINAL INV.	INC 478891	14920	90746	0	22567	47000	36756	32519	6970	60966	40947	0	125500	0	0	0
DECK - PER FINAL INV.	INC 241866	135	90123	0	26197	25298	21427	7174	9518	22000	4995	0	35000	0	0	0
HOPPER - PER FINAL INV.	INC 404188	0	0	0	0	0	544	254117	0	0	149527	0	0	0	0	0
SILO - PER FINAL INV.	INC 258205	0	0	0	0	0	104140	0	0	0	154065	0	0	0	0	0
JOIST - PER FINAL INV.	INC 6000	0	0	0	0	0	0	0	6000	0	0	0	0	0	0	0
STEEL - ACT COST	432.50 /TN 5.00%	3917509	328923	1129772	0	125384	151587	576058	77428	27384	236372	249360	22388	975188	0	17665
TUBE - ACT COST	482.56 /TN 5.00%	720109	9779	225680	0	47122	51226	175163	31770	15403	62880	34860	0	66224	0	0
PAINT - ACT COST	27.47 /TN 5.00%	295266	24791	85152	0	9450	11425	43418	5836	2064	17816	18794	1687	73501	0	1331
BOLTS - ACT COST	29.18 /TN 5.00%	313686	26338	90464	0	10040	12138	46127	6200	2193	18927	19967	1793	78086	0	1415
1B FRT - ACT COST	35.62 /TN 5.00%	375808	27812	109709	0	13805	16266	60375	8722	3392	24110	23111	1844	85206	0	1455
OB FRT - ACT COST	37.05 /TN 5.00%	390890	28870	113784	0	14285	16982	62571	8999	3506	25326	23613	1982	89487	0	1485
LABOR (REMAINDER)		5408896	301712	1507680	7513	107309	193341	741151	60538	250582	231701	472290	112073	1395739	7480	19787

ITEM II - FINAL WEIGHTS

STEEL	8626.5	724.30	2487.80	0.00	276.10	333.80	1268.50	170.50	60.30	520.50	549.10	49.30	2147.40	0.00	0.00	38.90
BOLTS	190.9	12.60	47.15	0.00	5.07	9.91	24.72	2.50	1.13	18.75	0.59	2.62	65.82	0.00	0.00	0.00
TUBE	1421.2	19.30	445.40	0.00	93.00	101.10	345.70	62.70	30.40	124.10	68.80	0.00	130.70	0.00	0.00	0.00
TOTAL TONS	10238.6	756.20	2980.35	0.00	374.17	444.81	1638.92	235.70	91.83	663.35	618.49	51.92	2343.92	0.00	0.00	38.90

ITEM III - VALUE BY BUILDING PER FINAL INVOICE

BASE CONTRACT	12640000	770500	3512000	184500	390500	518000	1774500	502000	227500	720000	338000	0	3026500	0	676000	0
CD #1	-35520	-1259	-4326	0	-480	-580	-2206	-20296	-8105	-905	-955	-86	-3734	7480	0	-68
CD #2	28521	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28521
CD #3																
KC 1-12	39444	459	16541	-183565	-33034	181	44959	15525	84014	785	78994	51	10396	0	0	4138
EXTRA DRAFT	15756	1323	4544	0	504	610	2317	311	110	951	1003	90	3922	0	0	71
CD #4																
KC 13-19	713622	26174	22582	0	3918	16121	24838	-16688	1369	6841	599407	155	15405	0	0	13500
KC 20	151289	0	0	0	0	0	0	0	0	0	0	151289	0	0	0	0
EXTRA DRAFT	26351	2212	7599	0	843	1020	3875	521	184	1590	1677	151	6560	0	0	119
BANK QTY	-127383	11706	52537	-935	34303	16742	116056	26551	30787	9832	247048	0	3990	0	-676000	0
TOTAL	13452080	811115	3611477	0	396555	552093	1964339	507924	335859	739094	1265174	151650	3063039	7480	0	46281

29-May-89

ORLANDO UTILITIES - AUXILIARY FACILITIES
ORIGINAL CONTRACT BREAKDOWN

ITEM IV - BREAKDOWN OF CONTRACT ADD	TOTAL	PRECIP	ADC	LINE UNLOAD	WATER MGT	CRUSHER	SLUDGE	CC UNLOAD	YARD	COAL TRANS	SMALL BLDGS	PIPE BRIDGE	CONV	TRANS TOWER	LATE STEEL	WORK ORDERS
EXTRA DRAFT - PER KC'S	42107	3535	12143	0	1348	1629	6192	832	294	2541	2680	241	10482	0	0	190
COPE CHANGES	192536	10083	35320	5430	1543	6443	19138	7497	11047	2603	77599	206	15627	0	0	0
INIT PRICE WEIGHT CHANGES	584436	28256	56340	-189930	3644	26601	166715	17891	105123	14855	847850	151289	14164	0	-676000	17638
D #1 & #2	-6999	-1259	-4326	0	-480	-580	-2206	-20296	-8105	-905	-955	-86	-3734	7480	0	28453
TOTAL CO	812080	40615	99477	-184500	6055	34093	189839	5924	108359	19094	927174	151650	36539	7480	-676000	46281

ITEM V - DETERMINE TOTAL VALUE OF ENGINEERING & DRAFTING

BASE BID - PER BID FORM	500000	41981	144195	0	16003	19347	73523	9882	3495	30169	31826	2857	124465	0	0	2255
EXTRA DRAFT - PER KC'S	42107	3535	12143	0	1348	1629	6192	832	294	2541	2680	241	10482	0	0	190
DISC - PER VENDOR	11600	0	3000	0	1100	700	3300	0	600	600	800	0	1500	0	0	0
CHECK - PER VENDOR	37200	1200	6800	0	1800	4100	7000	3200	300	5100	4800	800	2100	0	0	0
INIT PRICE CHANGES - PROPORTIONED	49859	1118	2229	-7513	144	1052	6595	708	4158	588	33538	5985	560	0	0	698
TOTAL VALUE	640766	47834	168367	-7513	20395	26829	96610	14622	8848	38997	73645	9883	139107	0	0	3142

29-May-89

ORLANDO UTILITIES - MAJOR FACILITIES
ESTIMATED CONTRACT VALUE

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

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	191.3

	INCREASE	MARKUP	TOTAL	BOILER	TURBINE	CONTROL
ORIG VALUE PER FINAL INV			10750911	8634969	1915236	200707
ENGR & DRAFT 37.00% -			201433	161514	35372	4546
TUBE ESCAL 270.00 /TN	5.00%		259714	219401	35806	4508
STEEL ESCAL 200.00 /TN	5.00%		1627700	1300593	290850	36257
PAINT ESCAL 40.00%	5.00%		71462	57508	12402	1552
BOLT ESCAL 50.00%	5.00%		105899	85220	18379	2300
IB FRT ESCAL 20.00%	5.00%		64589	51977	11209	1403
OB FRT ESCAL 40.00%	5.00%		143925	115821	24978	3126
MISC -15.00%	0.00%		-81662	-65479	-14340	-1843
DECKING 55.00%	0.00%		130530	59305	59950	11275
LABOR ESCAL 30.00%			1265812	1034259	221892	9661
EST CONTRACT VALUE			14540314	11655088	2611734	273491
LESS ENGR & DRAFT SAVINGS			-745846	-598038	-130973	-16834
REPLICATED CONTACT VALUE			13794468	11057050	2480761	256657

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

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

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	2980.35

INCREASE		MARKUP				
ORIG VALUE PER FINAL INVOICE				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				6110756	1117597	4993159
LESS ENGR & DRAFT SAVINGS				-65533	-65533	0
REPLICATED CONTRACT VALUE				6045223	1052064	4993159

29-May-89

ORLANDO UTILITIES - MAJOR FACILITIES
ESTIMATED CONTRACT VALUE

ESTIMATED CONTRACT VALUE - CO DATE - 01-May-96

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	191.3

	INCREASE	MARKUP	TOTAL	BOILER	TURBINE	CONTROL
ORIG VALUE PER 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 45.00%	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 VALUE			15189765	12175736	2728579	285449
LESS ENGR & DRAFT SAVINGS			-773066	-619865	-135753	-17449
REPLICATED CONTACT VALUE			14416698	11555871	2592826	268001

**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	2980.35

INCREASE		MARKUP		
ORIG VALUE PER FINAL INVOICE			4422592	811115 3611477
ENGR & DRAFT	42.00%		90605	20090 70714
TUBE ESCAL	345 /TN	5.00%	168338	6991 161346
STEEL ESCAL	240 /TN	5.00%	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%	5.00%	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			6385230	1168684 5216546
LESS ENGR & DRAFT SAVINGS			-67925	-67925 0
REPLICATED CONTRACT VALUE			6317305	1100759 5216546

29-May-89

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	191.3

	INCREASE	MARKUP	TOTAL	BOILER	TURBINE	CONTROL
ORIG VALUE PER FINAL INV			10750911	8634969	1915236	200707
ENGR & DRAFT 47.00%			255874	205166	44932	5775
TUBE ESCAL 350.00 /TN		5.00%	336667	284408	46415	5843
STEEL ESCAL 270.00 /TN		5.00%	2197394	1755801	392648	48946
PAINT ESCAL 50.00%		5.00%	89328	71885	15503	1940
BOLT ESCAL 60.00%		5.00%	127078	102264	22054	2760
IB FRT ESCAL 30.00%		5.00%	96884	77965	16814	2104
OB FRT ESCAL 50.00%		5.00%	179907	144777	31223	3907
MISC -5.00%		0.00%	-27221	-21826	-4780	-614
DECKING 65.00%		0.00%	154263	70088	70850	13325
LABOR ESCAL 40.00%			1687749	1379012	295856	12881
EST CONTRACT VALUE			15848835	12704509	2846751	297575
LESS ENGR & DRAFT SAVINGS			-800287	-641691	-140533	-18063
REPLICATED CONTACT VALUE			15048548	12062818	2706218	279512

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

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

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	2980.35

	INCREASE	MARKUP			
ORIG VALUE PER FINAL INVOICE			4422592	811115	3611477
ENGR & DRAFT	47.00%		101615	22482	79133
TUBE ESCAL	385 /TN	5.00%	187855	7802	180053
STEEL ESCAL	275 /TN	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 SAVINGS			-70316	-70316	0
REPLICATED CONTRACT VALUE			6589387	1149455	5439933

ORLANDO UTILITIES
STANTON ENERGY CENTER - UNIT II

COST SUMMARY

BUILDING	<u>COMMERCIAL OPERATING DATE</u> <u>MAY 1, 1995</u>		<u>COMMERCIAL OPERATING DATE</u> <u>MAY 1, 1996</u>		<u>COMMERCIAL OPERATING DATE</u> <u>MAY 1, 1997</u>	
	<u>COST</u>	<u>ENGINEERING & DETAILING SAVINGS</u>	<u>COST</u>	<u>ENGINEERING & DETAILING SAVINGS</u>	<u>COST</u>	<u>ENGINEERING & DETAILING SAVINGS</u>
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	-	\$ 5,216,546	-	\$ 5,439,933	-
TOTAL	\$19,839,691	\$811,378	\$20,734,003	\$840,992	\$21,637,936	\$870,603



Wheelabrator Air Pollution Control

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,

Paul J. Feira

cc: W. Kissick
J. Campbell
R. McBride
S. Seetharama



Wheelabrator Air Pollution Control

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. |
| | <u>TOTAL Erection Price</u> | = | <u>\$7,794,900.</u> |

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

Very truly yours,

Paul Feira/gsc

CC: B. Kissick

jpg/bkRCLC

ORLANDO UTILITIES
STANTON UNIT 2

ERECTION ESCALATION PROVISIONS

Erection Price Adjustment

1. The "Erection Price" is composed of two escalatable components: an "Erection Material Price" and an "Erection Labor Price".
2. 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.
 - c) 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 Nail — 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 looked 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 build-up 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.

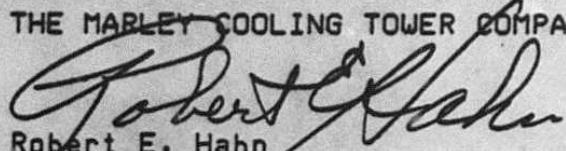


For your information, we would estimate a time frame of approximately two years to complete construction of this tower after we were released for final engineering and procurement.

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

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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.

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 C-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
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- o Order specific engineering
- o Not supplying duplicate erection and maintenance tools
- o Elimination of the ASME test
- o Reduced supply of spare parts
- o 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



Robert L. Webster
Special Sales Representative
Generation & Nuclear Field Sales

RLW:srl

cc: Mr. D. L. Goodling @ Jacksonville
Mr. R. Hebert @ Orlando

Babcock & Wilcox

a McDermott company

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

July 13, 1989

Black & Veatch
P. O. Box 8405
Kansas 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.

-2-

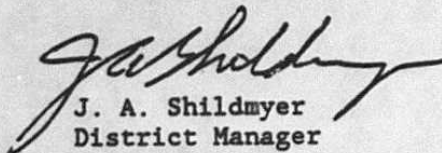
By adding the material and labor portion together for the material supply of the boiler, we would arrive at a price of:

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) Coal 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.
- o 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 Room 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
 - (O) 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

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-89 &
REPLICATION

08-Sep-89

SPEC NUMBER	DESCRIPTION	DUC CODE	DUC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL	
61.0403	Bulk Materials Handling	F&E	61002	61,157,000	1.205	61,394,185	1.253	61,449,721	1.303	1,507,571
61.0405	Dust Collection Equipment		61003	6350,000	1.205	6421,750	1.253	6438,550	1.303	456,050
61.0408	Coal Cars (297)			616,930,000	1.205	620,400,650	1.253	621,213,290	1.303	22,059,790
61.0410	Pneumatic Material Handling		61007	627,000	1.205	632,535	1.253	633,831	1.303	35,181
61.1001	Chimney	F&E	61008	64,612,000	1.205	65,557,460	1.253	65,778,836	1.303	4,009,436
61.1201	Cranes & Hoists		61009	6319,000	1.205	6384,395	1.253	6399,707	1.303	415,657
61.1601	Passenger Elevators	F&E	61011	6359,000	1.205	6432,595	1.253	6449,827	1.303	467,777
61.1803	Metal Wall Panel	F&E	61012	61,559,000	1.205	61,878,595	1.253	61,953,427	1.303	2,631,377
61.2005	Duct Expansion Joints		61013	6635,000	1.205	6745,175	1.253	6795,655	1.303	827,405
61.2006	Duct Benders		61014	61,733,000	1.205	62,088,265	1.253	62,171,449	1.303	2,258,099
61.3801	Breeching and Ducts		61019	63,332,000	1.205	64,015,060	1.253	64,174,996	1.303	4,341,596
61.3802	Coal Silos		61020	6402,000	1.205	6484,410	1.253	6503,706	1.303	523,806
61.4001	Structural Steel-Major Fac.	F&E	61021	623,350,000	1.205	628,136,751	1.256	629,330,638	1.312	30,643,443
61.4002	STR STL-Coal HND,YD		61022	6573,000	1.205	6690,465	1.253	6717,969	1.303	746,619
Subtotal Structural Procurement				655,338,000		666,682,291		669,411,602		672,323,807
62.0201	Particulate Removal Equip	F&E	61024	617,780,000	1.205	621,424,900	1.253	622,278,340	1.303	23,167,340
62.0202	Flue Gas Scrubber & SLS COND	F&E	61025	626,955,000	1.205	632,480,775	1.253	633,774,615	1.303	35,122,365
62.0401	Air Compressors		61027	6135,000	1.205	6162,675	1.253	6169,155	1.303	175,905
62.0405	Carbon Dioxide Supply		61028	680,000	1.205	696,400	1.253	6100,240	1.303	104,240
62.0601	Cooling Tower	F&E	61029	613,525,000	1.205	616,297,625	1.253	616,946,825	1.303	17,623,075
62.0801	Fire Protection Equip		61030	6182,000	1.205	6219,310	1.253	6228,046	1.303	237,146
62.0805	Fire Suppression Systems	F&E	61031	6632,000	1.205	6761,560	1.253	6791,896	1.303	823,496
62.1001	Turbine Generator	F&E	61032	632,760,000	1.205	639,475,800	1.253	641,048,280	1.303	42,686,280
62.1201	Air Preheating Coils		61034	6100,000	1.205	6120,500	1.253	6125,300	1.303	130,300
62.1202	Auxiliary Cooling Heat Exch.		61035	6354,000	1.205	6426,570	1.253	6443,562	1.303	461,262
62.1203	Condenser and Auxiliary Equip		61036	61,600,000	1.205	61,928,000	1.253	62,004,800	1.303	2,064,800
62.1204	Condenser Tubes		61037	6848,000	1.205	61,021,840	1.253	61,062,544	1.303	1,104,944
62.1205	Deaerator		61038	6344,000	1.205	6414,520	1.253	6431,032	1.303	448,232
62.1206	Feedwater Heaters		61039	62,283,000	1.205	62,751,015	1.253	62,860,599	1.303	2,974,749
62.1211	Fuel Oil Heaters		61041	656,000	1.205	667,480	1.253	670,168	1.303	72,968
62.1801	Ash Handling System		61043	64,832,000	1.205	65,822,560	1.253	66,054,496	1.303	4,296,096
62.2001	Boiler Feed Pump Turbine		61044	61,657,000	1.205	61,976,685	1.253	62,076,221	1.303	2,159,071
62.2201	High Pressure Fabricated Pipe		61045	64,561,000	1.205	65,496,005	1.253	65,714,933	1.303	5,942,983
62.2203	Ash Sluice Pipe		61046	6121,000	1.205	6145,805	1.253	6151,613	1.303	157,663
62.2205	Circulating Water Pipe		61047	61,410,000	1.205	61,699,050	1.253	61,766,730	1.303	1,837,230
62.2403	Expansion Joints-Rubber		61049	631,000	1.205	637,355	1.253	638,843	1.303	40,393
62.2408	Pipe Supports		61050	6535,000	1.205	6644,675	1.253	6670,355	1.303	697,105
62.2414	Steam Vent Silencers		61051	615,000	1.205	618,075	1.253	618,795	1.303	19,545
62.2602	Boiler Feed Pumps (Incl Startup)		61052	61,774,000	1.205	62,137,670	1.253	62,222,822	1.303	2,311,522
62.2603	Circulating Water Pumps		61054	6586,000	1.205	6706,130	1.253	6734,258	1.303	763,558
62.2604	Condensate Pumps		61055	6580,000	1.205	6698,900	1.253	6726,740	1.303	755,740
62.2607	Fire Pumps		61056	637,000	1.205	644,585	1.253	646,361	1.303	48,211
62.2610	Oil Pumps		61057	630,000	1.205	636,150	1.253	637,590	1.303	39,090
62.2614	Vertical Water Pumps		61058	6293,000	1.205	6353,065	1.253	6367,129	1.303	381,779
62.2615	General Service Pumps		61059	6229,000	1.205	6275,945	1.253	6286,937	1.303	298,387
62.2802	Lube Oil Filters		61060	620,000	1.205	624,100	1.253	625,060	1.303	26,060
62.3001	Auto Flushing Type Water Str.		61061	650,000	1.205	660,250	1.253	662,650	1.303	65,150
62.3201	Air Conditioning Equipment		61062	647,000	1.205	656,635	1.253	658,891	1.303	61,241
62.3206	Ventilating Fans		61063	6229,000	1.205	6275,945	1.253	6286,937	1.303	298,387
62.3401	Steam Generator	F&E	61064	652,781,100	1.205	663,606,021	1.253	664,132,465	1.303	68,772,476

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-89 &
REPLICATION

08-Sep-87

SPEC NUMBER	DESCRIPTION	DUC CODE	DUC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
62.3402	Forced Draft Fans	61065	\$632,000	1.205	\$761,560	1.253	\$791,096	1.303	\$823,496
62.3403	Induced Draft Fans	61066	\$1,061,000	1.205	\$1,278,505	1.253	\$1,329,433	1.303	\$1,382,483
62.3601	Field Erected Tanks	61068	\$371,000	1.205	\$447,055	1.253	\$464,863	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	\$30,125	1.253	\$31,325	1.303	\$32,575
62.3802	Large Butterfly Valves	61071	\$351,000	1.205	\$422,955	1.253	\$439,803	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-Non-Return VI	61073	\$204,000	1.205	\$245,820	1.253	\$255,612	1.303	\$265,812
62.3805	H.P. Cast Steel & H.D. Valves	61074	\$1,736,000	1.205	\$2,091,880	1.253	\$2,179,208	1.303	\$2,262,008
62.3807	Cast Steel Gen. Serv. Valves	61075	\$492,000	1.205	\$592,866	1.253	\$616,476	1.303	\$641,076
62.3809	Control Valves-Gen Application	61077	\$277,000	1.205	\$333,785	1.253	\$347,081	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-Gen. Serv	61080	\$392,000	1.205	\$472,360	1.253	\$491,176	1.303	\$510,776
62.3813	Bronze Valves-General 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	\$76,433	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 Svce	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			\$173,663,100		\$209,264,036		\$217,599,864		\$226,283,019
63.0801	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	\$954,360	1.253	\$992,376	1.303	\$1,031,976
63.0804	Instrument Cable	61086	\$339,000	1.205	\$408,495	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	\$886,000	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	\$428,526	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	Motors	61093	\$1,556,000	1.205	\$1,874,980	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	\$665,343	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	1.205	\$19,280	1.253	\$20,048	1.303	\$20,848
63.3407	Substation Control & Relay Pnl	61106	\$114,000	1.205	\$137,370	1.253	\$142,842	1.303	\$148,542
63.3409	Fiber Optic Equipment	61215	\$30,000	1.205	\$36,150	1.253	\$37,590	1.303	\$39,090
63.3601	Switchgear & Sec Unit Substation	61108	\$3,338,000	1.205	\$4,022,290	1.253	\$4,182,514	1.303	\$4,349,414
63.3801	Transformers	61110	\$3,629,000	1.205	\$4,372,945	1.253	\$4,547,137	1.303	\$4,728,587
Subtotal Electrical Procurement			\$14,079,000		\$16,965,195		\$17,640,987		\$18,344,937

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-89 &
REPLICATION

06-Sep-89

SPEC NUMBER	DESCRIPTION	DOC CODE	DOC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
64.0202	Coord. Control & Info Computer	61111	\$2,655,000	1.205	\$3,199,275	1.253	\$3,326,713	1.303	3,459,465
64.0204	Programmable Controllers	61112	\$624,000	1.205	\$751,920	1.253	\$931,872	1.303	913,672
64.0401	Annunciation Equipment	61113	\$233,000	1.205	\$280,765	1.253	\$351,949	1.303	303,599
64.0404	Machinery Monitoring	61114	\$200,000	1.205	\$241,000	1.253	\$300,600	1.303	260,600
64.0602	Primary Flow Elements	61116	\$168,000	1.205	\$202,440	1.253	\$251,504	1.303	218,904
64.1401	Flue Gas Monitoring System 1	61162	\$433,000	1.205	\$521,765	1.253	\$652,549	1.303	564,199
64.1601	Control Panels	61124	\$338,000	1.205	\$407,210	1.253	\$512,514	1.303	440,414
64.1602	Instrument Racks	61125	\$612,000	1.205	\$737,460	1.253	\$924,836	1.303	797,436
64.1603	Control Relay Cabinets	61126	\$149,000	1.205	\$179,545	1.253	\$224,697	1.303	194,147
Subtotal Control Procurement			\$5,412,000		\$6,521,460		\$6,781,236		\$7,051,836
65.0202	Chemical Feed System	61127	\$121,000	1.205	\$145,805	1.253	\$181,613	1.303	157,663
65.0203	Chlorination Equipment	61128	\$60,000	1.205	\$72,300	1.253	\$90,180	1.303	78,180
65.0401	Condensate Polishing System	61129	\$1,367,000	1.205	\$1,647,235	1.253	\$2,071,851	1.303	1,781,201
65.0602	Water Quality Control System	61134	\$320,000	1.205	\$385,600	1.253	\$480,960	1.303	416,960
65.0801	Blowdown Treatment Equipment	61168	\$7,200,000	1.205	\$8,676,000	1.253	\$10,821,600	1.303	9,381,600
Subtotal Chemical Procurement			\$9,068,000		\$10,926,940		\$11,362,204		\$11,815,604
71.0401	Piling	61144	\$6,150,000	1.205	\$7,410,750	1.253	\$9,285,550	1.303	8,013,450
71.0402	General Constr. Substructures	61145	\$13,390,000	1.205	\$16,026,500	1.253	\$20,064,900	1.303	17,329,900
71.0403	General Const.-Superstructures	61146	\$12,330,000	1.205	\$14,857,650	1.253	\$18,649,490	1.303	16,065,990
71.0404	Painting	61147	\$1,308,000	1.205	\$1,576,140	1.253	\$1,980,924	1.303	1,704,324
71.0407	Concrete Supply	61150	\$313,000	1.205	\$377,165	1.253	\$472,189	1.303	407,839
71.0408	Construction Testing		\$1,175,000	1.205	\$1,415,875	1.253	\$1,772,275	1.303	1,531,025
71.0409	Ductwork Lining	61167	\$1,305,000	1.205	\$1,572,525	1.253	\$1,985,165	1.303	1,700,415
Subtotal Structural Construction			\$35,881,000		\$43,236,605		\$54,958,893		\$46,752,943
72.0202	Heating, Ventilating & Air Con	61152	\$1,665,000	1.205	\$2,006,325	1.253	\$2,518,245	1.303	2,169,495
72.0401	Mechanical Construction	61153	\$18,560,000	1.205	\$22,364,800	1.253	\$28,025,680	1.303	24,183,680
72.0403	Piping and Equip. Insulation	61154	\$1,917,000	1.205	\$2,309,985	1.253	\$2,902,001	1.303	2,497,851
72.0601	Flue Gas Cln For Test		\$98,000	1.205	\$118,090	1.253	\$148,794	1.303	127,694
Subtotal Mechanical Construction			\$22,240,000		\$26,789,200		\$33,586,720		\$28,978,720
73.0201	Electrical Construction	61155	\$9,812,000	1.205	\$11,823,460	1.253	\$14,829,436	1.303	12,785,036
73.0204	T-Line & Substation Construction	61156	\$1,065,000	1.205	\$1,283,325	1.253	\$1,608,445	1.303	1,387,695
Subtotal Electrical Construction			\$10,877,000		\$13,106,785		\$16,437,881		\$14,172,731
74.0400	Elec. Test & Calibration Serv.	61157	\$1,900,000	1.205	\$2,289,500	1.253	\$2,869,700	1.303	2,475,700
75.0100	Boiler and Preboiler Cleaning	61158	\$168,000	1.205	\$202,440	1.253	\$251,504	1.303	218,904
75.0200	Special Protective Coatings	61159	\$65,000	1.205	\$78,325	1.253	\$98,145	1.303	84,695
76.0100	Site Services	61160	\$2,165,000	1.205	\$2,608,925	1.253	\$3,271,745	NA (1)	3,110,060
Subtotal Control Construction			\$4,258,000		\$5,179,690		\$6,555,394		\$5,889,299

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-89 &
REPLICATION

08-Sep-89

SPEC NUMBER	DESCRIPTION	OUC CODE	OUC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
90.1001	OUC Indirects								
	Startup Bunker C Oil	61163	\$503,135	1.205	\$606,278	1.253	\$630,428	1.303	\$655,585
	Startup Diesel Oil	61165	\$109,090	1.205	\$131,453	1.253	\$136,690	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 & Maint	61204	\$7,000,000	1.205	\$8,435,000	1.253	\$8,771,000	1.303	\$9,121,000
	Construction Management	61206	\$2,500,000	1.205	\$3,012,500	1.253	\$3,132,500	NA (1)	\$3,508,100
	Insurance	61208	\$8,500,000	1.205	\$10,250,500	1.253	\$10,450,500	1.303	\$11,075,500
	Special Projects	61210	\$300,000	1.205	\$361,500	1.253	\$375,900	1.303	\$390,900
	Project Spare Parts		\$2,000,000	1.205	\$2,410,000	1.253	\$2,506,000	1.303	\$2,606,000
	Net Of Power Sales		(\$4,000,000)	1.205	(\$4,820,000)	1.253	(\$5,012,000)	1.303	(\$5,212,000)
	Subtotal OUC Indirects		\$19,412,225		\$23,391,731		\$24,323,518		\$25,544,729
90.1100	B&V Engineering Services	61203	\$19,750,000	1.205	\$23,798,750	1.253	\$24,746,750	1.303	\$25,734,250
90.1300	B&V Construction Mgmt. Service	61207	\$14,370,000	1.205	\$17,356,850	1.253	\$18,256,210	NA (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	\$385,600	1.253	\$400,960	1.303	\$416,960
			\$59,440,000		\$71,866,200		\$74,728,920		\$80,113,210
	TOTAL		409,908,325		\$493,939,532		\$513,688,219		\$537,270,835

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

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-89 &
REDID

08-Sep-89

SPEC NUMBER	DESCRIPTION	UOC CODE	UOC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
61.0403	Bulk Materials Handling	F&E	61002 \$1,157,000	1.205	\$1,394,185	1.253	\$1,449,721	1.303	\$1,507,571
61.0405	Dust Collection Equipment		61003 \$350,000	1.205	\$421,750	1.253	\$430,550	1.303	\$454,050
61.0408	Coal Cars (297)		\$16,930,000	1.205	\$20,400,650	1.253	\$21,213,290	1.303	\$22,059,790
61.0410	Pneumatic Material Handling		61007 \$27,000	1.205	\$32,535	1.253	\$33,831	1.303	\$35,181
61.1001	Chimney	F&E	61008 \$4,812,000	1.205	\$5,798,460	1.253	\$6,029,436	1.303	\$6,270,836
61.1201	Cranes & Hoists		61009 \$319,000	1.205	\$384,395	1.253	\$399,707	1.303	\$415,657
61.1601	Passenger Elevators	F&E	61011 \$359,000	1.205	\$432,595	1.253	\$449,827	1.303	\$467,777
61.1803	Metal Wall Panel	F&E	61012 \$1,559,000	1.205	\$1,878,595	1.253	\$1,953,427	1.303	\$2,031,577
61.2005	Duct Expansion Joints		61013 \$635,000	1.205	\$765,175	1.253	\$795,655	1.303	\$827,405
61.2006	Duct Dampers		61014 \$1,733,000	1.205	\$2,088,265	1.253	\$2,171,449	1.303	\$2,258,099
61.3801	Breeching and Ducts		61019 \$3,332,000	1.205	\$4,015,060	1.253	\$4,174,996	1.303	\$4,341,596
61.3802	Coal Silos		61020 \$402,000	1.205	\$484,410	1.253	\$503,706	1.303	\$523,806
61.4001	Structural Steel-Major Fac.	F&E	61021 \$24,000,000	1.205	\$28,920,001	1.253	\$30,147,122	1.303	\$31,496,472
61.4002	STR STL-Coal HND,ADCS,YD		61022 \$573,000	1.205	\$698,465	1.253	\$717,969	1.303	\$746,619
Subtotal Structural Procurement			\$56,188,000		\$67,706,541		\$70,478,686		\$73,437,436
62.0201	Particulate Removal Equip	F&E	61024 \$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	61025 \$26,955,000	1.205	\$32,480,775	1.253	\$33,774,615	1.303	\$35,122,365
62.0401	Air Compressors		61027 \$135,000	1.205	\$162,675	1.253	\$169,155	1.303	\$175,905
62.0405	Carbon Dioxide Supply		61028 \$80,000	1.205	\$96,400	1.253	\$100,240	1.303	\$104,240
62.0601	Cooling Tower	F&E	61029 \$13,625,000	1.205	\$16,418,125	1.253	\$17,072,125	1.303	\$17,753,375
62.0801	Fire Protection Equip		61030 \$182,000	1.205	\$219,310	1.253	\$228,046	1.303	\$237,146
62.0805	Fire Suppression Systems	F&E	61031 \$632,000	1.205	\$761,560	1.253	\$791,896	1.303	\$823,496
62.1001	Turbine Generator	F&E	61032 \$34,360,000	1.205	\$41,403,800	1.253	\$43,053,080	1.303	\$44,771,080
62.1201	Air Preheating Coils		61034 \$100,000	1.205	\$120,500	1.253	\$125,300	1.303	\$130,300
62.1202	Auxiliary Cooling Heat Exch.		61035 \$354,000	1.205	\$426,570	1.253	\$443,562	1.303	\$461,262
62.1203	Condenser and Auxiliary Equip		61036 \$1,600,000	1.205	\$1,928,000	1.253	\$2,004,800	1.303	\$2,084,800
62.1204	Condenser Tubes		61037 \$848,000	1.205	\$1,021,840	1.253	\$1,062,544	1.303	\$1,104,944
62.1205	Deaerator		61038 \$344,000	1.205	\$414,520	1.253	\$431,832	1.303	\$448,232
62.1206	Feedwater Heaters		61039 \$2,283,000	1.205	\$2,751,015	1.253	\$2,860,599	1.303	\$2,974,749
62.1211	Fuel Oil Heaters		61041 \$56,000	1.205	\$67,480	1.253	\$70,168	1.303	\$72,968
62.1801	Ash Handling System		61043 \$4,832,000	1.205	\$5,822,560	1.253	\$6,054,496	1.303	\$6,296,096
62.2001	Boiler Feed Pump Turbine		61044 \$1,657,000	1.205	\$1,996,685	1.253	\$2,076,221	1.303	\$2,159,071
62.2201	High Pressure Fabricated Pipe		61045 \$4,561,000	1.205	\$5,496,005	1.253	\$5,714,933	1.303	\$5,942,983
62.2203	Ash Sluice Pipe		61046 \$121,000	1.205	\$145,805	1.253	\$151,613	1.303	\$157,663
62.2205	Circulating Water Pipe		61047 \$1,410,000	1.205	\$1,699,050	1.253	\$1,766,730	1.303	\$1,837,230
62.2403	Expansion Joints-Rubber		61049 \$31,000	1.205	\$37,355	1.253	\$38,843	1.303	\$40,393
62.2408	Pipe Supports		61050 \$535,000	1.205	\$644,675	1.253	\$670,355	1.303	\$697,105
62.2414	Steam Vent Silencers		61051 \$15,000	1.205	\$18,075	1.253	\$18,795	1.303	\$19,545
62.2602	Boiler Feed Pumps (Incl Startup)		61052 \$1,774,000	1.205	\$2,137,670	1.253	\$2,222,822	1.303	\$2,311,522
62.2603	Circulating Water Pumps		61054 \$586,000	1.205	\$706,130	1.253	\$734,256	1.303	\$763,556
62.2604	Condensate Pumps		61055 \$580,000	1.205	\$698,900	1.253	\$726,740	1.303	\$755,740
62.2607	Fire Pumps		61056 \$37,000	1.205	\$44,585	1.253	\$46,361	1.303	\$48,211
62.2610	Oil Pumps		61057 \$30,000	1.205	\$36,150	1.253	\$37,590	1.303	\$39,090
62.2614	Vertical Water Pumps		61058 \$293,000	1.205	\$353,065	1.253	\$367,129	1.303	\$381,779
62.2615	General Service Pumps		61059 \$229,000	1.205	\$275,945	1.253	\$286,937	1.303	\$298,387
62.2602	Lube Oil Filters		61060 \$26,000	1.205	\$31,460	1.253	\$32,500	1.303	\$33,640
62.3001	Auto Flushing-Type Water Str.		61061 \$50,000	1.205	\$60,250	1.253	\$62,650	1.303	\$65,150
62.3201	Air Conditioning Equipment		61062 \$47,000	1.205	\$56,635	1.253	\$58,891	1.303	\$61,241
62.3206	Ventilating Fans		61063 \$229,000	1.205	\$275,945	1.253	\$286,937	1.303	\$298,387
62.3401	Steam Generator	F&E	61064 \$55,270,000	1.205	\$66,550,350	1.253	\$69,253,310	1.303	\$72,016,810

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-89 \$
REBID

06-Sep-89

SPEC NUMBER	DESCRIPTION	DUC CODE	DUC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
62.3402	Forced Draft Fans	61065	4632,000	1.205	6761,560	1.253	6791,096	1.303	823,496
62.3403	Induced Draft Fans	61066	61,061,000	1.205	61,278,505	1.253	61,329,433	1.303	1,382,483
62.3601	Field Erected Tanks F&E	61068	6371,000	1.205	6447,055	1.253	6464,863	1.303	483,413
62.3602	Shop Fabricated Tanks	61069	6193,000	1.205	6232,565	1.253	6241,829	1.303	251,479
62.3801	Butterfly Valves-Ext. Steam	61070	625,000	1.205	636,125	1.253	631,325	1.303	32,575
62.3802	Large Butterfly Valves	61071	6351,000	1.205	6422,955	1.253	6439,803	1.303	457,353
62.3803	Butterfly Valves-General Serv.	61072	692,000	1.205	6110,800	1.253	6115,276	1.303	119,076
62.3804	Extraction Steam-Non-Return VI	61073	6204,000	1.205	6245,820	1.253	6255,612	1.303	265,812
62.3805	N.P. Cast Steel & H.O. Valves	61074	61,734,000	1.205	62,091,880	1.253	62,175,200	1.303	2,262,000
62.3807	Cast Steel Gen. Serv. Valves	61075	6492,000	1.205	6592,860	1.253	6616,476	1.303	641,076
62.3809	Control Valves-Gen Application	61077	6277,000	1.205	6333,785	1.253	6347,081	1.303	360,931
62.3810	Control Valves-Spec. Application	61078	6130,000	1.205	6156,650	1.253	6162,890	1.303	169,390
62.3811	Forged Steel Valves-Gen. Serv	61080	6392,000	1.205	6472,360	1.253	6491,176	1.303	310,776
62.3813	Bronze Valves-General Service	61081	621,000	1.205	625,305	1.253	626,313	1.303	27,363
62.3815	Safety and Relief Valves	61082	661,000	1.205	673,505	1.253	676,433	1.303	79,483
62.3817	Knife Gate Valves	61161	675,000	1.205	690,375	1.253	693,975	1.303	97,725
62.3818	Butterfly Valves-Spec Svce	61166	683,000	1.205	6100,015	1.253	6103,999	1.303	108,149
62.3819	Slurry Plug Valves		616,000	1.205	619,280	1.253	620,048	1.303	20,848
Subtotal Mechanical Procurement			6178,311,000		6214,864,755		6223,423,683		6232,339,233
63.0801	Overhead Conductor		68,000	1.205	69,640	1.253	610,024	1.303	10,424
63.0802	Control Cable	61086	6792,000	1.205	6954,360	1.253	6992,376	1.303	1,031,976
63.0804	Instrument Cable	61086	6339,000	1.205	6408,495	1.253	6424,767	1.303	441,717
63.0806	15kV Power Cable	61088	6659,000	1.205	6794,095	1.253	6825,727	1.303	858,677
63.0807	600 Volt Power Cable	61089	6886,000	1.205	61,067,630	1.253	61,110,158	1.303	1,154,458
63.0808	Coaxial & Spec. Purpose Cable	61087	697,000	1.205	6116,885	1.253	6121,541	1.303	126,391
63.1201	Isolated Phase Bus	61091	6342,000	1.205	6412,110	1.253	6428,526	1.303	445,626
63.2002	Electrical Panels	61092	6266,000	1.205	6320,530	1.253	6333,298	1.303	346,598
63.2201	Motors	61093	61,556,000	1.205	61,874,980	1.253	61,949,668	1.303	2,027,468
63.2601	Cable Tray	61095	6180,000	1.205	6216,900	1.253	6225,540	1.303	234,540
63.2801	Batteries and Battery Chargers	61096	6187,000	1.205	6225,335	1.253	6234,311	1.303	243,661
63.2803	Continuous AC Power Equipment	61097	6176,000	1.205	6212,080	1.253	6220,528	1.303	229,328
63.3001	Motor Control Centers	61098	6433,000	1.205	6521,765	1.253	6542,549	1.303	564,199
63.3201	Trans. & Subst. Struc. & Mat.	61099	6531,000	1.205	6639,855	1.253	6665,343	1.303	691,893
63.3401	Power Circuit Breakers	61101	6500,000	1.205	6602,500	1.253	6626,500	1.303	651,500
63.3404	SCADA Equipment	61103	616,000	1.205	619,280	1.253	620,048	1.303	20,848
63.3407	Substation Control & Relay Pnl	61106	6114,000	1.205	6137,370	1.253	6142,842	1.303	148,542
63.3409	Fiber Optic Equipment	61215	630,000	1.205	636,150	1.253	637,590	1.303	39,090
63.3601	Switchgear & Sec Unit Substation	61108	63,338,000	1.205	64,022,250	1.253	64,182,514	1.303	4,349,414
63.3801	Transformers	61110	63,629,000	1.205	64,372,945	1.253	64,547,137	1.303	4,728,587
Subtotal Electrical Procurement			614,079,000		616,965,195		617,640,987		618,344,937

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-89 \$
REBID

08-Sep-89

SPEC NUMBER	DESCRIPTION	DUC CODE	DUC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
64.0202	Coord. Control & Info Computer	61111	\$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	\$751,920	1.253	\$781,872	1.303	813,872
64.0401	Annunciation Equipment	61113	\$233,000	1.205	\$280,765	1.253	\$291,949	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 Monitoring System 1	61162	\$433,000	1.205	\$521,765	1.253	\$542,549	1.303	564,199
64.1601	Control Panels	61124	\$338,000	1.205	\$407,790	1.253	\$423,514	1.303	440,414
64.1602	Instrument Racks	61125	\$612,000	1.205	\$737,460	1.253	\$766,836	1.303	797,436
64.1603	Control Relay Cabinets	61126	\$149,000	1.205	\$179,545	1.253	\$186,697	1.303	194,147
Subtotal Control Procurement			\$5,412,000		\$6,521,460		\$6,781,236		\$7,051,836
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	78,180
65.0401	Condensate Polishing System	61129	\$1,367,000	1.205	\$1,647,235	1.253	\$1,712,851	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 Treatment Equipment	61168	\$7,200,000	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		\$11,813,604
71.0401	Piling	61144	\$6,150,000	1.205	\$7,410,750	1.253	\$7,705,950	1.303	8,013,450
71.0402	General Constr. Substructures	61145	\$13,300,000	1.205	\$16,026,500	1.253	\$16,664,900	1.303	17,329,900
71.0403	General Const.-Superstructures	61146	\$12,350,000	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	\$1,630,924	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	\$1,415,875	1.253	\$1,472,275	1.303	1,531,025
71.0409	Ductwork Lining	61167	\$1,305,000	1.205	\$1,572,525	1.253	\$1,635,165	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	\$2,006,325	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 Gas 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	\$9,812,000	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	\$1,334,445	1.303	1,387,495
Subtotal Electrical Construction			\$10,877,000		\$13,106,785		\$13,628,881		\$14,172,531
74.0400	Elec. Test & Calibration Serv.	61157	\$1,900,000	1.205	\$2,289,500	1.253	\$2,380,706	1.303	2,475,706
75.0100	Boiler and Preboiler Cleaning	61158	\$168,000	1.205	\$202,440	1.253	\$210,504	1.303	218,904
75.0200	Special Protective Coatings	61159	\$65,000	1.205	\$78,325	1.253	\$81,445	1.303	84,695
76.0100	Site Services	61160	\$2,165,000	1.205	\$2,608,825	1.253	\$2,712,745	NA (1)	3,110,000
Subtotal Control Construction			\$4,298,000		\$5,179,690		\$5,385,394		\$5,889,299

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2 425 MW
PRELIMINARY ESTIMATE 1-JAN-89 \$
REBID

08-Sep-89

SPEC NUMBER	DESCRIPTION	OUC CODE	OUC UNIT 2	1995 ESCALATION FACTOR	1995 DOLLAR TOTAL	1996 ESCALATION FACTOR	1996 DOLLAR TOTAL	1997 ESCALATION FACTOR	1997 DOLLAR TOTAL
90.1001	OUC Indirects								
	Startup Bunker C Oil	61143	\$503,135	1.205	\$606,270	1.253	\$630,428	1.303	655,585
	Startup Diesel Oil	61145	\$109,090	1.205	\$131,453	1.253	\$136,690	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 & Maint	61204	\$7,500,000	1.205	\$9,037,500	1.253	\$9,397,500	1.303	9,772,500
	Construction Management	61206	\$2,500,000	1.205	\$3,012,500	1.253	\$3,132,500	NA (1)	3,508,000
	Insurance	61208	\$8,500,000	1.205	\$10,242,500	1.253	\$10,650,500	1.303	11,075,500
	Special Projects	61210	\$300,000	1.205	\$361,500	1.253	\$375,900	1.303	390,900
	Project Spare Parts		\$4,000,000	1.205	\$4,820,000	1.253	\$5,012,000	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 OUC 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 Mgt. Service	61207	\$14,570,000	1.205	\$17,556,850	1.253	\$18,256,210	NA (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	\$385,600	1.253	\$400,960	1.303	416,960
			\$63,075,000		\$76,005,375		\$79,032,975		\$84,589,015
	TOTAL		\$21,341,225		\$507,716,177		\$528,015,677		\$552,173,883

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

APPENDIX D
CASH FLOWS SEC, UNIT 2

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1995 C.O. (REBID)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 89	FEB 89	MAR 89	APR 89	MAY 89	JUN 89	JUL 89	AUG 89	SEP 89	OCT 89	NOV 89	DEC 89	JAN 90	FEB 90	MAR 90	APR 90	MAY 90	JUN 90	JUL 90	AUG 90	SEP 90	OCT 90	NOV 90	DEC 90
IPP ANALYSIS									20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0						
PERMIT EXTENSION & BACT LICENSING																								173.9
PROJECT MANAGEMENT (PMC)									20.0								20.0		39.3	39.3	39.3	39.3	39.3	39.3
ENGINEERING & PROCUREMENT																			261.3	261.3	261.3	261.3	261.3	522.6
CONSTRUCTION MANAGEMENT																								
MISCELLANEOUS INDIRECTS																								
EQUIPMENT & CONSTRUCTION																								
MONTHLY TOTALS	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	40.0	20.0	39.3	300.6	300.6	300.6	320.6	735.0
FISCAL YEAR TOTALS									FY1989 TOTAL >>> 20										FY1990 TOTAL >>> 861					
QUARTERLY TOTALS			0.0			0.0			20.0			80.0			60.0			80.0		640.5				1357.0
CUMULATIVE TOTALS	0	0	0	0	0	0	0	0	20	40	80	100	120	140	160	180	220	260	279	500	801	1,181	1,502	2,230

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1995 C.O. (REBID)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 91	SEP 91	OCT 91	NOV 91	DEC 91	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92
IPP ANALYSIS																								
PERMIT EXTENSION & BACT LICENSING	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0											
PROJECT MANAGEMENT (PMC)	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											
ENGINEERING & PROCUREMENT	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	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
CONSTRUCTION MANAGEMENT	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	522.6	601.0	940.7	940.7	992.9	888.4	757.0	757.0	836.2	914.6	992.9
MISCELLANEOUS INDIRECTS	0.0	0.0	0.0	109.9	164.9	274.0	164.9	164.9	164.9	659.5	274.0	274.0	274.0	549.6	824.4	824.4	824.4	824.4	2520.1	1374.0	1374.0	1099.2	1099.2	1099.2
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	6018.4	6018.4	6018.4	6018.4	18456.5	10030.7	10030.7	8024.5	8024.5	8024.5
MONTHLY 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	8200.7	8200.7	8260.9	22298.2	12587.6	12587.6	10513.7	10592.1	10670.5	10270.5
FISCAL YEAR TOTALS										FY1991 TOTAL >>> 16,420										FY1992 TOTAL >>> 103,539				
QUARTERLY TOTALS			2224.6			6006.5			6032.3			11982.7			17099.9			38767.7		35688.9				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	46,383	54,592	62,853	85,151	97,739	110,526	120,840	131,432	142,103	152,381

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 24-AUG-97
CASH FLOW 1995 C.B. (REBID)

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 93	FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 93	OCT 93	NOV 93	DEC 93	JAN 94	FEB 94	MAR 94	APR 94	MAY 94	JUN 94	JUL 94	AUG 94	SEP 94	OCT 94	NOV 94	DEC 94
IPP ANALYSIS																								
PERMIT EXTENSION & BACT																								
LICENSING																								
PROJECT MANAGEMENT (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	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
ENGINEERING & PROCUREMENT	496.3	401.0	401.0	574.9	470.3	470.3	207.4	235.2	235.2	235.2	207.4	339.7	313.6	261.3	261.3	261.3	261.3	261.3	261.3	261.3	130.7	130.7	130.7	130.7
CONSTRUCTION MANAGEMENT	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5
MISCELLANEOUS INDIRECTS	2190.4	1099.2	1099.2	1099.2	2190.4	1374.0	1374.0	2000.5	1530.9	1099.2	1530.9	2000.5	2000.5	1204.1	879.3	1044.2	1044.2	549.6	549.6	1044.2	1044.2	1044.2	549.6	1044.2
EQUIPMENT & CONSTRUCTION	16049.1	8024.5	8024.5	8024.5	16049.1	10030.7	10030.7	15246.6	11234.4	8024.5	11234.4	15246.6	15246.6	9220.7	6419.6	7623.3	7623.3	4012.3	4012.3	7623.3	7623.3	7623.3	4012.3	7623.3
MONTHLY TOTALS	19297.7	10270.5	10270.5	10252.4	19271.6	12420.0	12245.9	18124.1	13562.2	9912.7	13614.4	18220.6	18202.4	11307.4	8114.1	9402.6	9402.6	5377.0	5377.0	9402.6	9352.0	9352.0	5246.3	9352.0
FISCAL YEAR TOTALS																								
QUARTERLY TOTALS			39054.0			41952.0			43932.1			41755.7			37623.9			24342.2			24211.6			23950.3
CUMULATIVE TOTALS	171,679	181,957	192,236	202,480	221,740	234,189	246,435	264,559	278,121	288,034	301,640	319,077	330,079	349,386	357,500	366,983	376,466	381,043	387,220	396,702	406,054	415,406	420,653	430,005

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 24-AUG-97
CASH FLOW 1995 C.B. (REBID)

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000			TOTAL COST
	JAN 95	FEB 95	MAR 95	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	OCT 95	NOV 95	DEC 95	JAN 96	FEB 96	MAR 96	
IPP ANALYSIS																200
PERMIT EXTENSION & BACT																69
LICENSING																1,739
PROJECT MANAGEMENT (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	130.7	130.7	130.7						261.3				26,130
CONSTRUCTION MANAGEMENT	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0							20,579
MISCELLANEOUS INDIRECTS	1044.2	1099.2	274.0	769.4	1209.1	1209.1	1044.2	909.3	164.9	164.9	164.9	219.0	164.9	164.9	109.9	54,959
EQUIPMENT & CONSTRUCTION	7623.3	8024.5	2006.1	5617.2	8027.0	8027.0	7623.3	7222.1	1203.7	1203.7	1203.7	1604.9	1203.7	1203.7	802.5	401,227
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	507,716
FISCAL YEAR TOTALS																
QUARTERLY TOTALS			21611.1			27997.7			19394.4			4941.1			3767.4	
CUMULATIVE TOTALS	439,185	440,822	451,616	450,515	469,064	479,613	488,663	497,257	499,008	500,416	501,823	503,949	505,357	506,764	507,716	

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1996 C.O. (REBID)

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 90	FEB 90	MAR 90	APR 90	MAY 90	JUN 90	JUL 90	AUG 90	SEP 90	OCT 90	NOV 90	DEC 90	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 91	SEP 91	OCT 91	NOV 91	DEC 91
IPP ANALYSIS	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5													
PERMIT EXTENSION & BACT															6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
LICENSING																						104.7	104.7	104.7
PROJECT MANAGEMENT (OUC)	20.0				20.0						20.0						59.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
ENGINEERING & PROCUREMENT																		271.3	271.3	271.3	271.3	271.3	271.3	407.0
CONSTRUCTION MANAGEMENT																								
MISCELLANEOUS INDIRECTS																								
EQUIPMENT & CONSTRUCTION																								
MONTHLY TOTALS	30.5	10.5	10.5	10.5	30.5	10.5	10.5	10.5	10.5	10.5	30.5	0.0	0.0	0.0	6.3	6.3	65.6	316.9	316.9	316.9	316.9	501.6	521.6	637.3
FISCAL YEAR TOTALS																								
QUARTERLY TOTALS			75.6			75.6			55.6			57.1			6.3			300.0			1,403			
CUMULATIVE TOTALS	30.5	57	76	94	133	151	170	180	207	225	264	264	264	264	270	277	342	659	976	1,293	1,610	2,111	2,633	3,270

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1996 C.O. (REBID)

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92	JAN 93	FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 93	OCT 93	NOV 93	DEC 93
IPP ANALYSIS																								
PERMIT EXTENSION & BACT	6.3																							
LICENSING	104.7	104.7	104.7	104.7	79.1	79.1	79.1	79.1	79.1	79.1	79.1													
PROJECT MANAGEMENT (OUC)	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	39.3	39.3	39.3	39.3	39.3	39.3
ENGINEERING & PROCUREMENT	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	624.1	976.9	976.9	1031.1	922.6	786.9	786.9	860.3	949.7	1031.1	624.1
CONSTRUCTION MANAGEMENT													401.0	401.0	401.0	401.0	401.0	401.0	401.0	401.0	534.7	534.7	534.7	534.7
MISCELLANEOUS INDIRECTS	0.0	0.0	0.0	105.0	150.0	264.6	150.0	150.0	150.0	635.0	264.6	264.6	264.6	529.2	793.0	793.0	793.0	2434.2	1322.9	1322.9	1050.3	1050.3	1050.3	1050.3
EQUIPMENT & CONSTRUCTION	0.0	0.0	0.0	843.1	1264.6	2107.6	1264.6	1264.6	1264.6	5050.3	2107.6	2107.6	2107.6	4215.3	6322.9	6322.9	6322.9	19390.2	10530.2	10530.2	8430.5	8430.5	8430.5	8430.5
MONTHLY TOTALS	637.3	631.0	631.0	1715.5	2104.4	3033.3	2004.4	2004.4	2004.4	6354.4	3053.3	2934.2	3355.2	5800.9	8533.0	8533.0	8500.1	23107.3	13000.3	13000.3	10931.2	11012.6	11094.0	10607.0
FISCAL YEAR TOTALS																								
QUARTERLY TOTALS			1099.2			6853.3			6753.3			12362.0			17697.9			40309.2			37107.0			32793.5
CUMULATIVE TOTALS	3,908	4,539	5,169	6,085	8,989	12,023	14,107	16,192	18,276	24,631	27,684	30,630	33,993	39,802	40,336	56,070	65,450	80,645	101,734	114,822	125,753	136,766	147,060	150,547

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3/94												9/94				3/95					9/95				
DOLLARS X 1000												DOLLARS X 1000													
JAN 94	FEB 94	MAR 94	APR 94	MAY 94	JUN 94	JUL 94	AUG 94	SEP 94	OCT 94	NOV 94	DEC 94	JAN 95	FEB 95	MAR 95	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	OCT 95	NOV 95	DEC 95		
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	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3		
515.6	624.1	624.1	597.0	680.4	680.4	790.5	244.2	244.2	244.2	290.5	352.0	325.6	271.3	271.3	271.3	271.3	271.3	271.3	271.3	271.3	135.7	135.7	135.7		
534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7		
2116.7	1050.3	1050.3	1050.3	2116.7	1322.9	1322.9	2010.0	1481.7	1050.3	1481.7	2010.0	2010.0	1217.1	046.1	1005.4	1005.4	529.2	529.2	1005.4	1005.4	1005.4	529.2	1005.4		
16861.1	0430.5	0430.5	0430.5	16861.1	10530.2	10530.2	16018.0	11802.7	0430.5	11802.7	16018.0	16018.0	0465.1	6744.4	0009.0	0009.0	4215.3	4215.3	0009.0	0009.0	0009.0	4215.3	0009.0		
20067.3	10687.0	10687.0	10659.0	20040.2	12923.5	12733.6	18847.1	14102.6	10307.1	14156.9	18955.6	18928.5	11757.5	0436.4	9859.0	9859.0	5589.0	5589.0	9859.0	9724.1	9724.1	5454.1	9724.1		
FY1994 TOTAL >>>163,542												FY1995 TOTAL >>>133,025													
45483.3												25173.6													
43623.5												25309.3													
43419.6												24902.3													
313,759												331,696													
332,714												331,696													
351,643												331,696													
363,400												331,696													
371,037												331,696													
381,696												331,696													
391,556												331,696													
397,146												331,696													
402,736												331,696													
412,595												331,696													
422,320												331,696													
432,044												331,696													
437,490												331,696													
447,222												331,696													

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00-Sep-89

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ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1997 C.O. (REBID)

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 90	FEB 90	MAR 90	APR 90	MAY 90	JUN 90	JUL 90	AUG 90	SEP 90	OCT 90	NOV 90	DEC 90	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 91	SEP 91	OCT 91	NOV 91	DEC 91
IPP ANALYSIS										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															6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
LICENSING																								
PROJECT MANAGEMENT (OUC)	20.0				20.0						20.0						20.0			39.0	39.0	39.0	39.0	39.0
ENGINEERING & PROCUREMENT																					201.9	201.9	201.9	201.9
CONSTRUCTION MANAGEMENT																								
MISCELLANEOUS INDIRECTS																								
EQUIPMENT & CONSTRUCTION																								
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	64.4	327.2	327.2	347.2	327.2
FISCAL YEAR TOTALS																								
QUARTERLY TOTALS			20.0			20.0			0.0			77.3			63.6			96.2			417.0			1001.7
CUMULATIVE TOTALS	20.0	20	20	20	40	40	40	40	40	59	98	117	136	155	181	206	252	277	302	367	694	1,021	1,360	1,696

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1997 C.O. (REBID)

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92	JAN 93	FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 93	OCT 93	NOV 93	DEC 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 (OUC)	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
ENGINEERING & PROCUREMENT	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	563.0	640.4	1014.9	1014.9	1014.9	1071.3	950.5	817.5	817.5	902.1	906.7	1071.3	640.4
CONSTRUCTION MANAGEMENT																								
MISCELLANEOUS INDIRECTS	0.0	0.0	0.0	0.0	0.0	110.1	165.1	275.1	165.1	165.1	165.1	660.3	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	0.0	877.6	1316.3	2193.9	1316.3	1316.3	1316.3	5265.4	2193.9	2193.9	2193.9	4307.8	6501.7	6501.7	6501.7	17551.3	10969.6	10969.6	8775.7	8775.7
MONTHLY TOTALS	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	6365.4	8910.9	8770.1	8637.2	20982.4	13659.8	13744.4	11359.9	10937.1
FISCAL YEAR TOTALS																								
QUARTERLY TOTALS			2497.2			3498.5			7459.8			10936.5			9097.6			24054.4			43279.4			36041.4
CUMULATIVE TOTALS	2,532	3,363	4,193	5,023	5,873	7,691	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	89,659	103,319	117,044	128,423	139,361

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 RD
ESTIMATE AS OF 24-AUG-99
CASH FLOW 1997 C.O. (DEBIO)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 94	FEB 94	MAR 94	APR 94	MAY 94	JUN 94	JUL 94	AUG 94	SEP 94	OCT 94	NOV 94	DEC 94	JAN 95	FEB 95	MAR 95	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	OCT 95	NOV 95	DEC 95
IPP ANALYSIS																								
PERMIT EXTENSION & BACT LICENSING																								
PROJECT MANAGEMENT (BUC)	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
ENGINEERING & PROCUREMENT	535.6	648.4	648.4	620.2	507.4	507.4	510.1	253.7	253.7	253.7	310.1	346.5	338.3	281.9	281.9	281.9	281.9	281.9	281.9	281.9	141.0	141.0	141.0	141.0
CONSTRUCTION MANAGEMENT	373.4	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9
MISCELLANEOUS INDIRECTS	1100.6	1100.6	2201.1	1210.6	1210.6	1210.6	2036.1	1210.6	1210.6	1100.6	2091.1	1100.6	1100.6	1100.6	1100.6	1100.6	1100.6	1100.6	1100.6	1265.7	800.5	1045.5	1045.5	550.3
EQUIPMENT & CONSTRUCTION	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	8775.7	15357.4	0.0	10092.0	7020.5	8336.9	8336.9	4387.0	4387.0
MONTHLY TOTALS	10824.3	11144.5	21020.8	12104.0	11991.2	11991.2	19201.0	11737.5	11737.5	10749.9	19694.8	10862.6	10834.4	10770.0	10770.0	10770.0	14728.5	18185.2	901.8	12259.5	8002.8	10143.3	10143.3	5699.0
FISCAL YEAR TOTALS																								
QUARTERLY TOTALS			42989.6			36086.3		42676.0			41307.3			32390.5			33815.6			31205.5			21541.2	
CUMULATIVE TOTALS	150,185	161,329	182,350	194,454	206,445	218,436	237,630	249,375	261,112	271,862	291,557	302,420	313,254	324,032	334,810	345,539	367,724	368,426	380,085	389,488	399,831	409,975	415,674	421,373

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 RD
ESTIMATE AS OF 24-AUG-99
CASH FLOW 1997 C.O. (DEBIO)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 96	FEB 96	MAR 96	APR 96	MAY 96	JUN 96	JUL 96	AUG 96	SEP 96	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	APR 97	MAY 97	JUN 97	JUL 97	AUG 97	SEP 97	TOTAL COST
IPP ANALYSIS																						210
PERMIT EXTENSION & BACT LICENSING																						69
PROJECT MANAGEMENT (BUC)	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	1,950
ENGINEERING & PROCUREMENT	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0				281.9								3,048
CONSTRUCTION MANAGEMENT	500.9	500.9	500.9	500.9	500.9	500.9	500.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9						28,191
MISCELLANEOUS INDIRECTS	1045.5	1045.5	1045.5	550.3	1045.5	1045.5	1100.6	275.1	770.4	1210.6	1210.6	1045.5	990.5	165.1	110.1	110.1	220.1	110.1	110.1	110.1	110.1	55,029
EQUIPMENT & CONSTRUCTION	8336.9	8336.9	8336.9	4387.0	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
MONTHLY TOTALS	10143.3	10143.3	10143.3	5699.0	10143.3	10143.3	10637.1	3063.9	7508.3	11458.7	11317.8	9836.4	9342.5	2217.3	1441.6	1441.6	2014.3	1026.6	1026.6	1026.6	1026.6	552,174
FISCAL YEAR TOTALS																						
QUARTERLY TOTALS			30429.8			25985.5		21209.3			32612.9			13001.4			4482.5			3079.9		
CUMULATIVE 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	

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ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 MW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1995 C.B. (REPLICA)

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 89	FEB 89	MAR 89	APR 89	MAY 89	JUN 89	JUL 89	AUG 89	SEP 89	OCT 89	NOV 89	DEC 89	JAN 90	FEB 90	MAR 90	APR 90	MAY 90	JUN 90	JUL 90	AUG 90	SEP 90	OCT 90	NOV 90	DEC 90
IPP ANALYSIS									20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0						
PERMIT EXTENSION & BACT																								
LICENSING																								
PROJECT MANAGEMENT (PMC)											20.0						20.0					41.1	61.1	41.1
ENGINEERING & PROCUREMENT																							219.9	329.9
CONSTRUCTION MANAGEMENT																								
MISCELLANEOUS INDIRECTS																								
EQUIPMENT & CONSTRUCTION																								
MONTHLY TOTALS	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	40.0	20.0	0.0	0.0	0.0	41.1	454.9	544.0
YEARLY TOTALS									FY1989 TOTAL >>> 20										FY1990 TOTAL >>> 220					
QUARTERLY TOTALS									20.0			80.0			60.0			80.0			0.0			1040.0
CUMULATIVE TOTALS	0	0	0	0	0	0	0	0	20	40	80	100	120	140	160	180	220	240	240	240	240	281	736	1,281

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 MW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1995 C.B. (REPLICA)

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 91	SEP 91	OCT 91	NOV 91	DEC 91	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92
IPP ANALYSIS																								
PERMIT EXTENSION & BACT	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0												
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 MANAGEMENT (PMC)	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	41.1
ENGINEERING & PROCUREMENT	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	549.8	791.7	791.7	835.7	747.7	637.7	637.7	703.7	769.7	835.7	505.8
CONSTRUCTION MANAGEMENT													385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9	514.5	514.5	514.5	514.5
MISCELLANEOUS 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	718.0	2201.9	1196.7	1196.7	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	5980.2	18339.4	9967.0	9967.0	7973.6	7973.6	7973.6
MONTHLY TOTALS	660.5	660.5	726.5	1619.6	2086.2	2859.9	1966.8	1966.8	1966.8	5985.8	2879.9	2859.9	3165.5	5442.2	7916.9	7916.9	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			2047.4			6565.7			5906.4			11725.6			16524.6			37593.6			34647.1			30570.0
CUMULATIVE TOTALS	1,941	2,602	3,320	4,940	7,034	9,894	11,861	13,820	15,794	21,780	24,660	27,520	30,686	36,128	44,045	51,962	59,922	81,638	93,867	106,095	116,285	126,542	136,864	146,856

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ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 MW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1993 C.D. (REPLICA)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 93	FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 93	OCT 93	NOV 93	DEC 93	JAN 94	FEB 94	MAR 94	APR 94	MAY 94	JUN 94	JUL 94	AUG 94	SEP 94	OCT 94	NOV 94	DEC 94
IPP ANALYSIS																								
PERMIT EXTENSION & BACT LICENSING																								
PROJECT MANAGEMENT (BUC)	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	41.1
ENGINEERING & PROCUREMENT	417.0	505.0	505.0	483.0	395.0	395.0	241.9	197.9	197.9	197.9	241.9	285.9	285.9	219.9	219.9	219.9	219.9	219.9	219.9	219.9	110.0	110.0	110.0	110.0
CONSTRUCTION MANAGEMENT	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5	514.5
MISCELLANEOUS INDIRECTS	1914.7	957.3	957.3	957.3	1914.7	1196.7	1196.7	1819.0	1340.3	957.3	1340.3	1819.0	1819.0	1100.9	705.9	909.5	909.5	909.5	478.7	478.7	909.5	909.5	478.7	909.5
EQUIPMENT & CONSTRUCTION	15947.3	7973.6	7973.6	7973.6	15947.3	9967.0	9967.0	15149.9	11163.1	7973.6	11163.1	15149.9	15149.9	9169.7	6378.9	7575.0	7575.0	3986.8	3986.8	7575.0	7575.0	3986.8	7575.0	7575.0
MONTHLY TOTALS	18835.4	9992.4	9992.4	9970.4	18813.4	12115.1	11961.2	17722.4	13256.9	9484.5	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	9150.0
YEARLY TOTALS																								
QUARTERLY TOTALS			38820.1			40098.9		42940.4			40795.7		36754.7			23760.8		23650.9					23431.0	
CUMULATIVE TOTALS	165,492	175,484	185,476	195,447	214,440	226,575	238,536	256,259	269,516	279,200	292,501	310,311	328,100	339,146	347,066	356,326	365,586	370,827	376,040	385,320	394,478	403,620	408,759	417,909

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 MW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1993 C.D. (REPLICA)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 93	FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 93	OCT 93	NOV 93	DEC 93	JAN 94	FEB 94	MAR 94	TOTAL COST
IPP ANALYSIS																200
PERMIT EXTENSION & BACT LICENSING																69
PROJECT MANAGEMENT (BUC)	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	1,739
ENGINEERING & PROCUREMENT	110.0	110.0	110.0	110.0	110.0	110.0						219.9				2,813
CONSTRUCTION MANAGEMENT	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0							21,991
MISCELLANEOUS INDIRECTS	909.5	957.3	239.3	670.1	1053.1	1053.1	909.5	861.6	143.6	143.6	191.5	143.6	143.6	95.7		20,579
EQUIPMENT & CONSTRUCTION	7575.0	7973.6	1993.4	5581.5	8771.0	8771.0	7575.0	7176.3	1196.0	1196.0	1196.0	1594.7	1196.0	1196.0	797.4	47,867
MONTHLY TOTALS	8978.5	9425.0	2726.8	6745.7	10310.1	10310.1	8868.5	8422.0	1723.7	1380.7	1380.7	2047.2	1380.7	1380.7	934.2	493,940
YEARLY TOTALS																
QUARTERLY TOTALS			21130.3			27382.0		19014.2			4808.7		3695.7			
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 COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1996 C.O. (REPLICA)

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 90	FEB 90	MAR 90	APR 90	MAY 90	JUN 90	JUL 90	AUG 90	SEP 90	OCT 90	NOV 90	DEC 90	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 91	SEP 91	OCT 91	NOV 91	DEC 91
IPP ANALYSIS	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5													
PERMIT EXTENSION & BACT LICENSING															6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
PROJECT MANAGEMENT (PMC)	20.0				20.0						20.0						20.0					42.3	42.3	42.3
ENGINEERING & PROCUREMENT																							220.3	342.5
CONSTRUCTION MANAGEMENT																								
MISCELLANEOUS INDIRECTS																								
EQUIPMENT & CONSTRUCTION																								
MONTHLY TOTALS	30.5	10.5	10.5	10.5	30.5	10.5	10.5	10.5	10.5	10.5	30.5	0.0	0.0	0.0	6.3	6.3	26.3	6.3	6.3	6.3	6.3	40.5	401.5	575.7
YEARLY TOTALS																								
QUARTERLY TOTALS																								
CUMULATIVE TOTALS	39	57	76	94	133	151	170	180	207	225	244	264	264	264	270	277	303	309	315	322	320	377	850	1,434

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 NW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1996 C.O. (REPLICA)

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92	JAN 93	FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 93	OCT 93	NOV 93	DEC 93
IPP ANALYSIS																								
PERMIT EXTENSION & BACT LICENSING	6.3																							
PROJECT MANAGEMENT (PMC)	104.7	104.7	104.7	104.7	104.7	79.1	79.1	79.1	79.1	79.1	79.1	79.1												
ENGINEERING & PROCUREMENT	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	42.3	42.3
CONSTRUCTION MANAGEMENT	456.6	456.6	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	525.1	570.0	821.9	821.9	867.6	776.2	662.1	662.1	730.6	799.1	867.6	525.1
MISCELLANEOUS INDIRECTS	0.0	0.0	0.0	99.6	149.4	240.9	149.4	149.4	149.4	597.4	240.9	240.9	240.9	497.0	746.0	746.0	746.0	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
MONTHLY TOTALS	609.0	603.5	732.0	1600.9	2163.3	2960.6	2039.0	2039.0	2039.0	6219.5	2900.6	2960.6	3290.5	5650.3	8231.5	8231.5	8277.2	22502.9	12715.9	12715.9	10596.0	10664.4	10732.9	10390.5
YEARLY TOTALS																								
QUARTERLY TOTALS																								
CUMULATIVE TOTALS	2,124	2,807	3,559	5,240	7,405	10,374	12,414	14,454	16,493	22,713	25,701	28,670	31,961	37,619	45,850	54,082	62,359	84,942	97,650	110,374	120,970	131,634	142,367	152,757

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 MW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1996 C.O. (REPLICA)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 94	FEB 94	MAR 94	APR 94	MAY 94	JUN 94	JUL 94	AUG 94	SEP 94	OCT 94	NOV 94	DEC 94	JAN 95	FEB 95	MAR 95	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	OCT 95	NOV 95	DEC 95
IPP ANALYSIS																								
PERMIT EXTENSION & BACT																								
LICENSING																								
PROJECT MANAGEMENT (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	42.3	42.3
ENGINEERING & PROCUREMENT	433.8	525.1	525.1	502.3	411.0	411.0	251.1	205.5	205.5	251.1	296.8	274.0	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3	114.2	114.2	114.2	114.2
CONSTRUCTION MANAGEMENT	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7	534.7
MISCELLANEOUS INDIRECTS	1991.4	995.7	995.7	995.7	1991.4	1244.6	1244.6	1091.8	1394.0	995.7	1394.0	1091.8	1091.8	1145.0	796.6	945.9	945.9	945.9	945.9	945.9	945.9	945.9	945.9	945.9
EQUIPMENT & CONSTRUCTION	16583.4	8292.7	8292.7	8292.7	16585.4	10365.9	10365.9	15756.2	11609.8	8292.7	11609.8	15756.2	15756.2	9536.6	6634.2	7078.1	7078.1	4146.4	4146.4	7078.1	7078.1	7078.1	4146.4	7078.1
MONTHLY TOTALS	19507.6	10390.5	10390.5	10367.6	19564.7	12598.4	12438.6	10430.4	13706.2	10070.0	13031.9	10521.7	10498.9	11406.9	8236.0	9629.3	9629.3	5449.5	5449.5	9629.3	9515.1	9515.1	5335.3	9515.1
YEARLY TOTALS																								
QUARTERLY TOTALS			40348.5			42530.0			44653.2			42424.5			38221.0			24708.0			26593.0			20365.5
CUMULATIVE TOTALS	172,345	182,735	193,126	203,494	223,058	235,657	248,095	266,526	280,312	290,383	304,215	322,736	341,235	352,722	360,950	370,508	380,217	385,666	391,116	400,745	410,260	419,775	425,111	434,626

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 MW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1996 C.O. (REPLICA)

DOLLARS X 1000

DOLLARS X 1000

DESCRIPTION	JAN 96	FEB 96	MAR 96	APR 96	MAY 96	JUN 96	JUL 96	AUG 96	SEP 96	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	TOTAL COST
IPP ANALYSIS																204
PERMIT EXTENSION & BACT																69
LICENSING																1,847
PROJECT MANAGEMENT (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	2,929
ENGINEERING & PROCUREMENT	114.2	114.2	114.2	114.2	114.2	114.2						220.3				22,031
CONSTRUCTION MANAGEMENT	356.5	356.5	356.5	356.5	356.5	356.5	356.5	356.5	356.5							21,389
MISCELLANEOUS INDIRECTS	945.9	995.7	248.9	697.0	1095.3	1095.3	945.9	896.1	149.4	149.4	149.4	199.1	149.4	149.4	99.6	49,784
EQUIPMENT & CONSTRUCTION	7078.1	8292.7	2073.2	5004.9	9122.0	9122.0	7078.1	7463.4	1243.9	1243.9	1243.9	1650.5	1243.9	1243.9	829.3	414,636
MONTHLY TOTALS	9336.9	9801.3	2835.0	7014.8	10730.1	10730.1	9222.7	8750.3	1792.0	1435.5	1435.5	2120.2	1435.5	1435.5	971.1	513,680
YEARLY TOTALS																
QUARTERLY TOTALS			21973.1			20475.0			17773.0			4999.3			3042.1	
CUMULATIVE TOTALS	443,963	453,764	456,599	463,614	474,344	485,074	494,297	503,055	504,047	506,202	507,710	509,046	511,202	512,717	513,680	

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ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 MW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1997 C.O. (REPLICA)

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 90	FEB 90	MAR 90	APR 90	MAY 90	JUN 90	JUL 90	AUG 90	SEP 90	OCT 90	NOV 90	DEC 90	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 91	SEP 91	OCT 91	NOV 91	DEC 91
IPP ANALYSIS										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															6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
LICENSING																								
PROJECT MANAGEMENT (PMC)	20.0				20.0						20.0						20.0						20.0	
ENGINEERING & PROCUREMENT																								
CONSTRUCTION MANAGEMENT																								
MISCELLANEOUS INDIRECTS																								
EQUIPMENT & CONSTRUCTION																								
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	6.3
YEARLY TOTALS																								
QUARTERLY TOTALS			20.0			20.0			0.0			77.3			63.6			96.2			294			38.9
CUMULATIVE TOTALS	20	20	20	20	40	40	40	40	40	59	98	117	136	155	181	206	252	277	302	328	334	340	367	373

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 MW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1997 C.O. (REPLICA)

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92	JAN 93	FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 93	OCT 93	NOV 93	DEC 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 (PMC)	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
ENGINEERING & PROCUREMENT		237.2	355.7	474.3	474.3	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5	592.9	853.8	853.8	901.2	806.3	687.7	687.7	750.9
CONSTRUCTION MANAGEMENT																	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
MISCELLANEOUS INDIRECTS	0.0	0.0	0.0	0.0	0.0	103.5	155.3	250.9	155.3	155.3	155.3	621.3	250.9	250.9	250.9	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	2150.1	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	8632.3	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
YEARLY TOTALS																								
QUARTERLY TOTALS			1179.6			3288.8			7452.8			10702.2			9232.0			22593.3		42477.8			34800.2	
CUMULATIVE TOTALS	421	928	1,553	2,296	3,060	4,841	7,106	10,184	12,294	14,405	16,535	22,996	26,074	29,151	32,228	38,023	46,302	54,822	63,341	83,993	97,299	110,487	121,258	132,100

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 MW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1997 C.O. (REPLICA)

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 94	FEB 94	MAR 94	APR 94	MAY 94	JUN 94	JUL 94	AUG 94	SEP 94	OCT 94	NOV 94	DEC 94	JAN 95	FEB 95	MAR 95	APR 95	MAY 95	JUN 95	JUL 95	AUG 95	SEP 95	OCT 95	NOV 95	DEC 95
IPP ANALYSIS																								
PERMIT EXTENSION & O&C																								
LICENSING																								
PROJECT MANAGEMENT (O&C)	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
ENGINEERING & PROCUREMENT	830.0	901.2	545.5	450.6	545.5	545.5	521.7	426.9	426.9	260.9	213.4	213.4	213.4	260.9	300.3	204.6	237.2	237.2	237.2	237.2	237.2	237.2	237.2	110.6
CONSTRUCTION MANAGEMENT	373.4	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9
MISCELLANEOUS INDIRECTS	1035.4	1035.4	2070.8	1139.0	1139.0	1139.0	1915.5	1139.0	1139.0	1035.4	1967.3	1035.4	1035.4	1035.4	1035.4	1449.6	1812.0	0.0	1190.7	820.3	903.7	903.7	517.7	517.7
EQUIPMENT & CONSTRUCTION	8632.3	8632.3	17264.5	9495.5	9495.5	9495.5	15969.7	9495.5	9495.5	8632.3	16401.3	8632.3	8632.3	8632.3	8632.3	12005.2	15106.5	0.0	9927.1	6905.8	8200.6	8200.6	4316.1	4316.1
MONTHLY TOTALS	10913.0	11191.6	20503.5	11707.0	11802.6	11802.6	19029.7	11684.1	11684.1	10551.3	19204.0	10503.9	10503.9	10551.3	10590.7	14442.1	17770.3	839.9	11977.7	8594.0	10044.2	10044.2	5693.7	5575.1
YEARLY TOTALS																								
QUARTERLY TOTALS			42600.1			35313.0			42397.0			40259.9			31653.0			33000.3			30615.9			21313.1
CUMULATIVE TOTALS	143,013	154,204	174,708	186,415	198,210	210,021	229,050	240,734	252,419	262,970	282,175	292,670	303,182	313,734	324,332	330,774	356,553	357,413	369,390	377,904	388,020	398,073	403,766	409,342

ORLANDO UTILITIES COMMISSION
STANTON UNIT 2, 425 MW
ESTIMATE AS OF 24-AUG-89
CASH FLOW 1997 C.O. (REPLICA)

ESTIMATE AS OF 24-AUG-89 CASH FLOW 1997 C.O. (REPLICA)																							
DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000										TOTAL COST
	JAN 96	FEB 96	MAR 96	APR 96	MAY 96	JUN 96	JUL 96	AUG 96	SEP 96	OCT 96	NOV 96	DEC 96	JAN 97	FEB 97	MAR 97	APR 97	MAY 97	JUN 97	JUL 97	AUG 97	SEP 97		
IPP ANALYSIS																						210	
PERMIT EXTENSION & O&C LICENSING																						69	
PROJECT MANAGEMENT (O&C)	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	3,040	
ENGINEERING & PROCUREMENT	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6					237.2								23,715	
CONSTRUCTION MANAGEMENT	500.9	500.9	500.9	500.9	500.9	500.9	500.9	500.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9						24,895	
MISCELLANEOUS INDIRECTS	903.7	903.7	903.7	517.7	903.7	903.7	1035.4	250.9	724.0	1007.2	1007.2	903.7	931.9	155.3	155.3	155.3	207.1	103.5	103.5	103.5	103.5	51,771	
EQUIPMENT & CONSTRUCTION	8200.6	8200.6	8200.6	4316.1	8200.6	8200.6	8632.3	2150.1	6042.6	9063.9	9063.9	8200.6	7769.0	1294.0	1294.0	1294.0	1726.5	863.2	863.2	863.2	863.2	431,613	
MONTHLY TOTALS	9925.6	9925.6	9925.6	5575.1	9925.6	9925.6	10409.0	2992.3	7342.7	10607.0	10607.0	9641.1	9157.7	2144.1	1906.9	1906.9	1975.4	1000.6	1000.6	1000.6	1000.6	537,271	
YEARLY TOTALS																							
QUARTERLY TOTALS			29776.0			25426.4			20744.0			30056.7			13208.7			4090.9			3025.0		
CUMULATIVE TOTALS	419,267	429,193	439,110	444,694	454,619	464,545	474,954	477,946	485,289	495,897	506,504	516,145	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

TWO FR 7 CT'S JUNE 1992 COMMERCIAL OPERATION
ALL COSTS ARE EXPRESSED IN 1,000 \$
PROJECT COST SUMMARY

DATE: 08-Sep-89
DAV PROJECT: 15399.021

SPEC NUMBER	DESCRIPTION	BUDGET	ORIGINAL CONTRACT	APPROVED CHANGE ORDERS	C.D. NO.	CURRENT CONTRACT TOTAL	ESTIMATED CHANGE ORDERS	CONTINGENCY	ESCALATION (3)	CONTRACT AT COMPLETION	SALES TAX	OUC CONTRACT COSTS	CURRENT ESTIMATED COST
62.1001	Combustion Turbine Generators	\$33,570	\$0	\$0	0	\$0	\$0	\$300	\$645 (5)	\$31,670	\$1,900	\$0	\$33,570
63.0006(1)	115V Solid Diele Cbl/Acc (A & D)	\$131	\$0	\$0	0	\$0	\$0	\$0	\$0 (6)	\$124	\$7	\$0	\$131
63.0004	Cable	\$268	\$0	\$0	0	\$0	\$0	\$20	\$30	\$253	\$15	\$0	\$268
63.1000	Generator Turn Equip	\$339	\$0	\$0	0	\$0	\$0	\$26	\$38	\$320	\$19	\$0	\$339
63.3201	Substation Struc & Eq	\$85	\$0	\$0	0	\$0	\$0	\$6	\$10	\$80	\$5	\$0	\$85
63.3801	Generator Transformer (C & D)	\$1,644	\$0	\$0	0	\$0	\$0	\$65	\$186	\$1,551	\$93	\$0	\$1,644
71.0402	General Construction (C & D)	\$2,905	\$0	\$0	0	\$0	\$0	\$219	\$329	\$2,740	\$164	\$0	\$2,905
73.0201	Electrical Construction (C & D)	\$961	\$0	\$0	0	\$0	\$0	\$73	\$109	\$906	\$54	\$0	\$961
---	Spare Parts (2)	\$175	\$0	\$0	0	\$0	\$0	\$15	\$0	\$165 (2)	\$10	\$0	\$175
---	Indirects (DAV) Engineering	\$1,364	\$0	\$0	0	\$0	\$0	\$25	\$164	\$1,364	\$0 (4)	\$0	\$1,364
---	Indirects (DAV) Const. Mgmt.	\$241	\$0	\$0	0	\$0	\$0	\$0	\$29	\$241	\$0 (4)	\$0	\$241
---	OUC Indirects	\$336	\$0	\$0	0	\$0	\$0	\$0	\$0 (6)	\$336	\$0 (4)	\$0	\$336
---	Project Contingency @ 1 %	\$451	\$0	\$0	0	\$0	\$0	\$0	\$51	\$426	\$26	\$0	\$451
SUBTOTAL		\$42,470	\$0	\$0	0	\$0	\$0	\$749	\$1,591	\$40,176	\$2,294	\$0	\$42,470
62.1001A	QUIET COMBUSTOR IF REQ'D BY DER	\$2,733	\$0	\$0	0	\$0	\$0	\$25	\$53 (5)	\$2,578	\$155	\$0	\$2,733
TOTAL		\$45,203	\$0	\$0	0	\$0	\$0	\$774	\$1,644	\$42,754	\$2,449	\$0	\$45,203

- (1) Combustion Turbines A & D, 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 5.6% based on firm price to January 1991.
- (6) Escalation included in quoted price.

ORLANDO UTILITIES COMMISSION
COMBUSTION TURBINE PROJECT - C & D

TWO FR 7 CT'S JUNE 1993 COMMERCIAL OPERATION
ALL COSTS ARE EXPRESSED IN 1,000 \$
PROJECT COST SUMMARY

DATE: 08-Sep-89
BIV PROJECT: 15399.021

SPEC NUMBER	DESCRIPTION	BUDGET	ORIGINAL CONTRACT	APPROVED CHANGE ORDERS	C.O. NO.	CURRENT CONTRACT TOTAL	ESTIMATED CHANGE ORDERS	CONTINGENCY	ESCALATION	CONTRACT AT (3) COMPLETION	SALES TAX	OUC CONTRACT COSTS	CURRENT ESTIMATED COST
62.1001	Combustion Turbine Generators	\$35,240	\$0	\$0	0	\$0	\$0	\$300	\$2,220 (5)	\$33,245	\$1,995	\$0	\$35,240
63.0004(1)	115V Solid Diele Cbl/Acc (A & B)	\$131	\$0	\$0	0	\$0	\$0	\$0	\$0 (6)	\$124	\$7	\$0	\$131
63.0004	Cable	\$282	\$0	\$0	0	\$0	\$0	\$20	\$44	\$266	\$16	\$0	\$282
63.1000	Generator Test Equip	\$357	\$0	\$0	0	\$0	\$0	\$26	\$55	\$337	\$20	\$0	\$357
63.3201	Substation Struc & Eq	\$89	\$0	\$0	0	\$0	\$0	\$6	\$14	\$84	\$5	\$0	\$89
63.3801	Generator Transformer (C & D)	\$1,731	\$0	\$0	0	\$0	\$0	\$65	\$268	\$1,633	\$98	\$0	\$1,731
71.0402	General Construction (C & D)	\$3,057	\$0	\$0	0	\$0	\$0	\$219	\$473	\$2,884	\$173	\$0	\$3,057
73.0201	Electrical Construction (C & D)	\$1,011	\$0	\$0	0	\$0	\$0	\$73	\$156	\$854 (2)	\$57	\$0	\$1,011
---	Spare Parts (2)	\$175	\$0	\$0	0	\$0	\$0	\$15	\$0 (4)	\$165	\$10	\$0	\$175
---	Indirects (B&V) Engineering	\$1,435	\$0	\$0	0	\$0	\$0	\$25	\$235	\$1,435	\$0 (4)	\$0	\$1,435
---	Indirects (B&V) Const. Mgmt.	\$254	\$0	\$0	0	\$0	\$0	\$0	\$42	\$254	\$0 (4)	\$0	\$254
---	OUC Indirects	\$336	\$0	\$0	0	\$0	\$0	\$0	\$0 (6)	\$336	\$0 (4)	\$0	\$336
---	Project Contingency @ 1 %	\$475	\$0	\$0	0	\$0	\$0	\$0	\$73	\$448	\$27	\$0	\$475
SUBTOTAL		\$44,573	\$0	\$0	0	\$0	\$0	\$749	\$3,500	\$42,165	\$2,408	\$0	\$44,573
62.1001A	QUIET COMBUSTOR IF REQ'D BY DER	\$2,868	\$0	\$0	0	\$0	\$0	\$25	\$181 (5)	\$2,706	\$162	\$0	\$2,868
TOTAL		\$47,441	\$0	\$0	0	\$0	\$0	\$774	\$3,761	\$44,871	\$2,571	\$0	\$47,441

(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 5.6% based on firm price to January 1991.

(6) Escalation included in quoted price.

ORLANDO UTILITIES COMMISSION
COMBUSTION TURBINE PROJECT - C & D

TWO FR 7 CT'S JUNE 1994 COMMERCIAL OPERATION
ALL COSTS ARE EXPRESSED IN 1,000 \$
PROJECT COST SUMMARY

DATE: 08-Sep-89
B&V PROJECT: 15399.021

SPEC NUMBER	DESCRIPTION	BUDGET	ORIGINAL CONTRACT	APPROVED CHANGE C.O. ORDERS NO.	CURRENT CONTRACT TOTAL	ESTIMATED CHANGE ORDERS	CONTINGENCY	ESCALATION (3)	CONTRACT AT COMPLETION	SALES TAX	OUC CONTRACT COSTS	CURRENT ESTIMATED COST
62.1001	Combustion Turbine Generators	\$37,103	\$0	\$0 0	\$0	\$0	\$300	\$3,978 (5)	\$35,003	\$2,100	\$0	\$37,103
63.0806(1)	115V Solid Diele Cbl/Acc (A & B)	\$131	\$0	\$0 0	\$0	\$0	\$0	\$0 (6)	\$124	\$7	\$0	\$131
63.0604	Cable	\$297	\$0	\$0 0	\$0	\$0	\$20	\$58	\$280	\$17	\$0	\$297
63.1000	Generator Term Equip	\$376	\$0	\$0 0	\$0	\$0	\$26	\$73	\$355	\$21	\$0	\$376
63.3201	Substation Struc & E-	\$94	\$0	\$0 0	\$0	\$0	\$6	\$18	\$89	\$5	\$0	\$94
63.3801	Generator Transformer (C & D)	\$1,822	\$0	\$0 0	\$0	\$0	\$65	\$333	\$1,718	\$103	\$0	\$1,822
71.0402	General Construction (C & D)	\$3,218	\$0	\$0 0	\$0	\$0	\$219	\$624	\$3,036	\$182	\$0	\$3,218
73.0201	Electrical Construction (C & D)	\$1,064	\$0	\$0 0	\$0	\$0	\$73	\$206	\$1,004	\$60	\$0	\$1,064
---	Spare Parts (2)	\$175	\$0	\$0 0	\$0	\$0	\$15	\$0 (6)	\$165 (2)	\$10	\$0	\$175
---	Indirects (B&V) Engineering	\$1,511	\$0	\$0 0	\$0	\$0	\$25	\$311	\$1,511	\$0 (4)	\$0	\$1,511
---	Indirects (B&V) Const. Mgmt.	\$267	\$0	\$0 0	\$0	\$0	\$0	\$55	\$267	\$0 (4)	\$0	\$267
---	OUC Indirects	\$336	\$0	\$0 0	\$0	\$0	\$0	\$0 (6)	\$336	\$0 (4)	\$0	\$336
---	Project Contingency @ 1 %	\$500	\$0	\$0 0	\$0	\$0	\$0	\$97	\$472	\$28	\$0	\$500
SUBTOTAL		\$46,853	\$0	\$0	\$0	\$0	\$749	\$3,774	\$44,358	\$2,535	\$0	\$46,893
62.1001A	QUIET COMBUSTOR IF REQ'D BY DER	\$3,020	\$0	\$0 0	\$0	\$0	\$25	\$324 (5)	\$2,849	\$171	\$0	\$3,020
TOTAL		\$49,913	\$0	\$0	\$0	\$0	\$774	\$6,098	\$47,207	\$2,706	\$0	\$49,913

(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 5.6% based on firm price to January 1991.

(6) Escalation included in quoted price.

ORLANDO UTILITIES COMMISSION
COMBUSTION TURBINE PROJECT - C & D

TWO FR & CT'S JUNE 1992 COMMERCIAL OPERATION
ALL COSTS ARE EXPRESSED IN 1,000 \$
PROJECT COST SUMMARY

DATE: 00-Sep-89
DAV PROJECT: 15399.021

SPEC NUMBER	DESCRIPTION	BUDGET	ORIGINAL CONTRACT	APPROVED CHANGE C.O. ORDERS NO.	CURRENT CONTRACT TOTAL	ESTIMATED CHANGE ORDERS	CONTINGENCY	ESCALATION	CONTRACT AT (3) COMPLETION	SALES TAX	OUC CONTRACT COSTS	CURRENT ESTIMATED COST
62.1001	Combustion Turbine Generators	\$17,477	\$0	\$0 0	\$0	\$0	\$100	\$1,915 (5)	\$18,400	\$989	\$0	\$17,477
63.0806(1)	115V Solid Diele Cbl/Acc (A & B)	\$0	\$0	\$0 0	\$0	\$0	\$0	\$0 (6)	\$0	\$0	\$0	\$0
63.0804	Cable	\$252	\$0	\$0 0	\$0	\$0	\$19	\$29	\$238	\$14	\$0	\$252
63.1000	Generator Tern Equip	\$0	\$0	\$0 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
63.3801	Generator Transformer (C & D)	\$885	\$0	\$0 0	\$0	\$0	\$35	\$100	\$835	\$50	\$0	\$885
71.0402	General Construction (C & D)	\$2,226	\$0	\$0 0	\$0	\$0	\$168	\$252	\$2,100	\$126	\$0	\$2,226
73.0201	Electrical Construction (C & D)	\$702	\$0	\$0 0	\$0	\$0	\$53	\$80	\$663	\$40	\$0	\$702
---	Spare Parts (2)	\$58	\$0	\$0 0	\$0	\$0	\$5	\$0 (6)	\$55 (2)	\$3	\$0	\$58
---	Indirects (DAV) Engineering	\$1,165	\$0	\$0 0	\$0	\$0	\$25	\$190	\$1,165	\$0 (4)	\$0	\$1,165
---	Indirects (DAV) Const. Mgmt.	\$241	\$0	\$0 0	\$0	\$0	\$0	\$29	\$241	\$0 (4)	\$0	\$241
---	OUC Indirects	\$336	\$0	\$0 0	\$0	\$0	\$0	\$0 (6)	\$336	\$0 (4)	\$0	\$336
---	Project Contingency @ 1 %	\$231	\$0	\$0 0	\$0	\$0	\$0	\$26	\$218	\$13	\$0	\$231
TOTAL		\$23,574	\$0	\$0	\$0	\$0	\$405	\$2,571	\$22,330	\$1,236	\$0	\$23,574

(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 5.6% based on firm price to December 1989

(6) Escalation included in quoted price.

ORLANDO UTILITIES COMMISSION
COMBUSTION TURBINE PROJECT - C & D

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

DATE: 00-Sep-89
B&V PROJECT: 15399.021

SPEC NUMBER	DESCRIPTION	BUDGET	ORIGINAL CONTRACT	APPROVED CHANGE ORDERS	C.O. NO.	CURRENT CONTRACT TOTAL	ESTIMATED CHANGE ORDERS	CONTINGENCY	ESCALATION (3)	CONTRACT AT COMPLETION	SALES TAX	O&C CONTRACT COSTS	CURRENT ESTIMATED COST
62.1001	Combustion Turbine Generators	\$18,404	\$0	\$0	0	\$0	\$0	\$100	\$2,789 (5)	\$17,362	\$1,042	\$0	\$18,404
63.0806(1)	115V Solid Diele Cbl/Acc (A & B)	\$0	\$0	\$0	0	\$0	\$0	\$0	\$0 (6)	\$0	\$0	\$0	\$0
63.0804	Cable	\$265	\$0	\$0	0	\$0	\$0	\$19	\$41	\$250	\$15	\$0	\$265
63.1000	Generator Test Equip	\$0	\$0	\$0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
63.3601	Generator Transformer (C & D)	\$932	\$0	\$0	0	\$0	\$0	\$35	\$144	\$879	\$53	\$0	\$932
71.0402	General Construction (C & D)	\$2,343	\$0	\$0	0	\$0	\$0	\$148	\$362	\$2,210	\$133	\$0	\$2,343
73.0201	Electrical Construction (C & D)	\$739	\$0	\$0	0	\$0	\$0	\$53	\$114	\$697	\$42	\$0	\$739
---	Spare Parts (2)	\$58	\$0	\$0	0	\$0	\$0	\$5	\$0 (6)	\$53 (2)	\$3	\$0	\$58
---	Indirects (B&V) Engineering	\$1,226	\$0	\$0	0	\$0	\$0	\$25	\$201	\$1,226	\$0 (4)	\$0	\$1,226
---	Indirects (B&V) Const. Mgmt.	\$254	\$0	\$0	0	\$0	\$0	\$0	\$42	\$254	\$0 (4)	\$0	\$254
---	O&C Indirects	\$336	\$0	\$0	0	\$0	\$0	\$0	\$0 (6)	\$336	\$0 (4)	\$0	\$336
---	Project Contingency @ 1 %	\$243	\$0	\$0	0	\$0	\$0	\$0	\$38	\$229	\$14	\$0	\$243
TOTAL		\$24,800	\$0	\$0	0	\$0	\$0	\$405	\$3,731	\$23,499	\$1,301	\$0	\$24,800

(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 5.6% based on firm price to December 1988

(6) Escalation included in quoted price.

ORLANDO UTILITIES COMMISSION
COMBUSTION TURBINE PROJECT - C & D

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

DATE: 00-Sep-89
B&V PROJECT: 15399.021

SPEC NUMBER	DESCRIPTION	BUDGET	ORIGINAL CONTRACT	APPROVED CHANGE ORDERS	C.D. NO.	CURRENT CONTRACT TOTAL	ESTIMATED CHANGE ORDERS	CONTINGENCY	ESCALATION	CONTRACT AT (3) COMPLETION	SALES TAX	OUC CONTRACT COSTS	CURRENT ESTIMATED COST
62.1001	Combustion Turbine Generators	\$19,369	\$0	\$0	\$0	\$0	\$0	\$100	\$3,700 (5)	\$10,273	\$1,096	\$0	\$19,369
63.0006(1)	115V Solid Diode Cbl/Acc (A & B)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 (6)	\$0	\$0	\$0	\$0
63.0804	Cable	\$279	\$0	\$0	0	\$0	\$0	\$19	\$54	\$263	\$16	\$0	\$279
63.1000	Generator Test Equip	\$0	\$0	\$0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
63.3001	Generator Transformer (C & D)	\$981	\$0	\$0	\$0	\$0	\$0	\$35	\$190	\$925	\$56	\$0	\$981
71.0402	General Construction (C & D)	\$2,466	\$0	\$0	\$0	\$0	\$0	\$168	\$478	\$2,326	\$140	\$0	\$2,466
73.0201	Electrical Construction (C & D)	\$778	\$0	\$0	\$0	\$0	\$0	\$53	\$151	\$734	\$44	\$0	\$778
---	Spare Parts (2)	\$58	\$0	\$0	\$0	\$0	\$0	\$5	\$0 (6)	\$55 (2)	\$3	\$0	\$58
---	Indirects (B&V) Engineering	\$1,290	\$0	\$0	\$0	\$0	\$0	\$25	\$265	\$1,290	\$0 (4)	\$0	\$1,290
---	Indirects (B&V) Const. Mgmt.	\$267	\$0	\$0	\$0	\$0	\$0	\$0	\$55	\$267	\$0 (4)	\$0	\$267
---	OUC Indirects	\$336	\$0	\$0	\$0	\$0	\$0	\$0	\$0 (6)	\$336	\$0 (4)	\$0	\$336
---	Project Contingency @ 1 %	\$256	\$0	\$0	\$0	\$0	\$0	\$0	\$50	\$241	\$14	\$0	\$256
TOTAL		\$26,081	\$0	\$0		\$0	\$0	\$405	\$4,944	\$24,712	\$1,369	\$0	\$26,081

(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 5.61 based on firm price to December 1988

(6) Escalation included in quoted price.

APPENDIX F
CASH FLOWS CT'S C&D

ORLANDO UTILITIES COMMISSION
 FRAME 7 COMBUSTION TURBINE PROJECT (C & D)
 1992 SCHEDULE

PROJECTED CASH FLOW

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 89	FEB 89	MAR 89	APR 89	MAY 89	JUN 89	JUL 89	AUG 89	SEP 89	OCT 89	NOV 89	DEC 89	JAN 90	FEB 90	MAR 90	APR 90	MAY 90	JUN 90	JUL 90	AUG 90	SEP 90	OCT 90	NOV 90	DEC 90
CONTRACTS																								
62.1001 COMBUSTION TURBINE GENERATORS																		3,072			3,072	3,072	1,536	
63.0004 CABLE																								
63.0006 CABLE/ACC 115V SOLID (NAB)																								
63.1000 GENERATOR TERMINAL EQUIPMENT																								
63.3201 SUBSTATION STRUCTURES & EQUIPME																								
63.3001 GENERATOR TRANSFORMER																								
71.0402 GENERAL CONSTRUCTION																								
73.0201 ELECTRICAL CONSTRUCTION																								
INDIRECT COSTS																								
CT NEGOTIATION & STUDIES (DAV)											4	4	4	4	4	4	4	4	4					
PERMITTING (DAV)															7	7	7	7	7	7	4	4	4	4
DESIGN ENGINEERING (DAV)																						6	6	6
CONSTRUCTION MANAGEMENT (DAV)																								
OUC INDIRECTS																				13	13	13	13	13
SPARE PARTS																								
CONTINGENCY																								
MONTHLY TOTALS	0	0	0	0	0	0	0	0	0	0	4	4	4	4	11	11	11	3,083	24	20	18	3,097	3,097	1,560
FISCAL YEAR TOTALS																								
QUARTERLY TOTALS																								
CUMULATIVE TOTALS	0	0	0	0	0	0	0	0	0	0	4	8	12	16	27	38	48	3,132	3,156	3,176	3,193	6,290	9,387	10,947
62.1001A QUIET COMBUSTOR IF REQUIRED																								
MONTHLY TOTALS WITH COMBUSTOR	0	0	0	0	0	0	0	0	0	0	4	4	4	4	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	0	0	0	0	0	0	0	0	0	0	4	8	12	16	27	38	48	3,382	3,406	3,426	3,443	6,790	10,137	11,822

ORLANDO UTILITIES COMMISSION
 FRAME 7 COMBUSTION TURBINE PROJECT (C & D)
 1992 SCHEDULE

PROJECTED CASH FLOW

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000												TOTAL COST
	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 91	SEP 91	OCT 91	NOV 91	DEC 91	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92	
CONTRACTS																									
62.1001 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	950	950					33,570
63.0004 CABLE													80	80	80				27						260
63.0006 CABLE/BCC 115V W/LTD (AAB)													39	39	39				13						131
63.1000 GENERATOR TERMINAL EQUIPMENT														153	153				34						339
63.3201 SUBSTATION STRUCTURES & EQUIPME															50				9						85
63.3001 GENERATOR TRANSFORMER												1,400							164						1,664
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	43	96					961
INDIRECT COSTS																									
CT NEGOTIATION & STUDIES (B&V)																									37
PERMITTING (B&V)	4	4	4	4	4																				79
DESIGN ENGINEERING (B&V)	6	12	12	12	75	100	119	119	119	119	137	137	75	50	25	25	25	25	12	12	12				1,240
CONSTRUCTION MANAGEMENT (B&V)									20	20	20	20	20	20	20	20	20	20	20	20					241
OUC INDIRECTS	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13						336
SPARE PARTS																80	80								175
CONTINGENCY									45	45	45	45	45	45	45	45	45	45							451
MONTHLY TOTALS	1,653	1,653	1,645	1,638	1,631	1,707	1,718	1,711	1,900	1,997	3,110	1,674	896	2,503	905	621	556	1,221	1,338	1,369	12	0	0	0	42,470
FISCAL YEAR TOTALS																									
QUARTERLY TOTALS			4,951		5,039				5,330			4,782		4,304				2,398		2,720				0	
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	37,352	37,973	38,529	39,750	41,080	42,457	42,470	42,470	42,470	42,470	
62.1001A QUIET COMBUSTOR IF REQUIRED	133	132	131	131	130	130	129	129	128	127	214	80	0	0	0			75	78	78				0	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	0	0	0	45,203
FISCAL YEAR TOTALS WITH COMBUSTOR																									
QUARTERLY TOTALS WITH COMBUSTOR			5,347		5,429				5,715			7,212		4,329				2,473		2,875				0	
CUMULATIVE TOTALS WITH COMBUSTOR	13,600	15,392	17,149	18,938	20,762	22,599	24,446	26,286	28,314	30,439	33,763	35,526	36,430	38,961	39,855	40,475	41,031	42,328	43,743	45,190	45,203	45,203	45,203	45,203	

ORLANDO UTILITIES COMMISSION
 FRAME 7 CONSTRUCTION TURBINE PROJECT (C & D)
 1993 SCHEDULE

PROJECTED CASH FLOW

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000																
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC					
	90	90	90	90	90	90	90	90	90	90	90	90	91	91	91	91	91	91	91	91	91	91	91	91					
CONTRACTS																													
62.1001 COMBUSTION TURBINE GENERATORS																3,630											3,856	3,187	1,637
63.0004 CABLE																													
63.0006 CABLE/PCC 115V SOLID (AAB)																													
63.1000 GENERATOR TERMINAL EQUIPMENT																													
63.3201 SUBSTATION STRUCTURES & EQUIPME																													
63.3801 GENERATOR TRANSFORMER																													
71.0402 GENERAL CONSTRUCTION																													
73.0201 ELECTRICAL CONSTRUCTION																													
INDIRECT COSTS																													
CT NEGOTIATION & STUDIES (DAV)						4	4	4	4	4	4	4	4	4	4	4	4	7	7	7	5	5	5	5					
PERMITTING (DAV)																7	7	7	7	7	7	5	7	7	7				
DESIGN ENGINEERING (DAV)																													
CONSTRUCTION MANAGEMENT (DAV)																				13	13	13	13	13	13				
OUC INDIRECTS																													
SPARE PARTS																													
CONTINGENCY																													
MONTHLY TOTALS	0	0	0	0	0	0	4	4	4	4	4	4	4	4	10	3,660	10	7	20	20	18	3,000	3,212	1,661					
FISCAL YEAR TOTALS									FY1990 TOTAL >>>				11									FY1991 TOTAL >>>				3,765			
QUARTERLY TOTALS				0				0				11				11				17				3,678	59			8,753	
CUMULATIVE TOTALS	0	0	0	0	0	0	4	7	11	14	18	21	25	28	39	3,699	3,710	3,716	3,737	3,757	3,775	7,656	10,867	12,529					
62.1001A QUIET CONDUITOR IF REQUIRED																297											314	259	133
MONTHLY TOTALS WITH CONDUITOR	0	0	0	0	0	0	4	4	4	4	4	4	4	4	10	3,957	10	7	20	20	18	4,194	4,471	1,794					
FISCAL YEAR TOTALS WITH CONDUITOR									FY1990 TOTAL >>>				11									FY1991 TOTAL >>>				4,062			
QUARTERLY TOTALS WITH CONDUITOR				0				0				11				11				17				3,975	59			9,460	
CUMULATIVE TOTALS WITH CONDUITOR	0	0	0	0	0	0	4	7	11	14	18	21	25	28	39	3,996	4,007	4,013	4,034	4,054	4,072	8,266	11,730	13,532					

ORLANDO UTILITIES COMMISSION
 FRAME 7 COMBUSTION TURBINE PROJECT (C & D)
 1993 SCHEDULE

PROJECTED CASH FLOW

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000												TOTAL COST
	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92	JAN 93	FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 93	OCT 93	NOV 93	DEC 93	
CONTRACTS																									
62.1001 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	998	998					33,240
63.0004 CABLE													85	85	85				28						282
63.0006 CABLE/ACC 115V SOLID (A&B)													39	39	39				13						131
63.1000 GENERATOR TERMINAL EQUIPMENT														161	161				36						357
63.3201 SUBSTATION STRUCTURES & EQUIPME															40	40			9						89
63.3801 GENERATOR TRANSFORMER													1,538						173						1,731
71.0402 GENERAL CONSTRUCTION									138	248	275	275	413	413	275	275	248	138	55	306					3,857
73.0201 ELECTRICAL CONSTRUCTION												118	136	136	136	136	136	64	45	101					1,811
INDIRECT COSTS																									
CT NEGOTIATION & STUDIES (DAV)																									39
PERMITTING (DAV)	5	5	5	5	5																				83
DESIGN ENGINEERING (DAV)	7	13	13	13	79	105	125	125	125	125	144	144	79	53	26	26	26	26	13	13	13				1,313
CONSTRUCTION MANAGEMENT (DAV)									21	21	21	21	21	21	21	21	21	21	21	21					254
OUC INDIRECTS	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13						336
SPARE PARTS																88	88								175
CONTINGENCY									48	48	48	48	48	48	48	48	48	48							475
MONTHLY TOTALS	1,654	1,653	1,646	1,639	1,638	1,712	1,725	1,717	1,916	2,019	3,135	1,705	934	2,626	945	648	580	1,236	1,405	1,439	13	0	0	0	44,573
FISCAL YEAR TOTALS																									
QUARTERLY TOTALS			4,954																						
CUMULATIVE TOTALS	14,183	15,836	17,482	19,122	20,819	22,531	24,256	25,973	27,890	29,909	33,044	34,749	35,683	38,309	39,253	39,901	40,481	41,717	43,121	44,560	44,573	44,573	44,573	44,573	
62.1001A QUIET COMBUSTOR IF REQUIRED	133	132	131	131	130	130	129	129	128	127	214	88	0	0	0			75	81	81					2,868
MONTHLY TOTALS WITH COMBUSTOR	1,787	1,785	1,778	1,770	1,828	1,842	1,854	1,846	2,044	2,147	3,349	1,793	942	2,635	953	648	580	1,311	1,486	1,520	13	0	0	0	47,441
FISCAL YEAR TOTALS WITH COMBUSTOR																									
QUARTERLY TOTALS WITH COMBUSTOR			8,350																						
CUMULATIVE TOTALS WITH COMBUSTOR	15,319	17,104	18,882	20,652	22,479	24,321	26,175	28,021	30,065	32,212	35,561	37,354	38,296	40,931	41,884	42,531	43,111	44,422	45,908	47,428	47,441	47,441	47,441	47,441	

ORLANDO UTILITIES COMMISSION
 FRAME 7 COMBUSTION TURBINE PROJECT (C & D)
 1994 SCHEDULE

PROJECTED CASH FLOW

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 91	SEP 91	OCT 91	NOV 91	DEC 91	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92
CONTRACTS																								
62.1001 COMBUSTION TURBINE GENERATORS													5,142								4,122	3,187	1,637	
63.0004 CABLE																								
63.0006 CABLE/ACC 115V SOLID (A&B)																								
63.1000 GENERATOR TERMINAL EQUIPMENT																								
63.3201 SUBSTATION STRUCTURES & EQUIPME																								
63.3001 GENERATOR TRANSFORMER																								
71.0402 GENERAL CONSTRUCTION																								
73.0201 ELECTRICAL CONSTRUCTION																								
INDIRECT COSTS																								
CT NEGOTIATION & STUDIES (D&V)					4	4	4	4	4	4	4	4	4	4	4	7	7	7	7	7	5	5	5	5
PERMITTING (D&V)																7	7	7	7	7	7	7	7	7
DESIGN ENGINEERING (D&V)																								
CONSTRUCTION MANAGEMENT (D&V)																								
OUC INDIRECTS																			13	13	13	13	13	13
SPARE PARTS																								
CONTINGENCY																								
MONTHLY TOTALS	0	0	0	0	4	4	4	4	4	4	4	4	5,146	11	7	7	7	21	21	18	4,147	3,212	1,642	
FISCAL YEAR TOTALS																								
QUARTERLY TOTALS			0			7			11			11		5,160				22		60				9,021
CUMULATIVE TOTALS	0	0	0	0	4	7	11	15	19	22	26	30	33	5,179	5,190	5,197	5,205	5,212	5,233	5,253	5,272	9,419	12,631	14,293
62.1001A QUIET COMBUSTOR IF REQUIRED													410								335	259	133	
MONTHLY TOTALS WITH COMBUSTOR	0	0	0	0	4	4	4	4	4	4	4	4	5,564	11	7	7	7	21	21	18	4,482	3,472	1,795	
FISCAL YEAR TOTALS WITH COMBUSTOR																								
QUARTERLY TOTALS WITH COMBUSTOR			0			7			11			11		5,579				22		60				9,749
CUMULATIVE TOTALS WITH COMBUSTOR	0	0	0	0	4	7	11	15	19	22	26	30	33	5,597	5,600	5,616	5,623	5,630	5,651	5,672	5,690	10,172	13,644	15,439

ORLANDO UTILITIES COMMISSION
 FRAME 7 COMBUSTION TURBINE PROJECT (C & D)
 1994 SCHEDULE

PROJECTED CASH FLOW

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000												TOTAL COST
	JAN 93	FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 93	OCT 93	NOV 93	DEC 93	JAN 94	FEB 94	MAR 94	APR 94	MAY 94	JUN 94	JUL 94	AUG 94	SEP 94	OCT 94	NOV 94	DEC 94	
CONTRACTS																									
62.1001 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	1,005	100	100	100			926	1,030	1,050					37,103
63.0004 CABLE													89	89	89				30						297
63.0006 CABLE/MCC 115V SOLID (A&B)													39	39	39				13						131
63.1000 GENERATOR TERMINAL EQUIPMENT														169	169				30						376
63.3201 SUBSTATION STRUCTURES & EQUIPME															42	42			9						94
63.3001 GENERATOR TRANSFORMER													1,640						102						1,022
71.0402 GENERAL CONSTRUCTION									145	261	290	290	434	434	290	290	261	145	50	322					3,218
73.0201 ELECTRICAL CONSTRUCTION												124	144	144	144	144	144	67	48	106					1,064
INDIRECT COSTS																									
CT NEGOTIATION & STUDIES (DAV)																									41
PERMITTING (DAV)	5	5	5	5	5																				87
DESIGN ENGINEERING (DAV)	7	14	14	14	83	111	131	131	131	131	152	152	83	55	28	28	28	28	14	14	14				1,383
CONSTRUCTION MANAGEMENT (DAV)									22	22	22	22	22	22	22	22	22	22	22	22					267
OUC INDIRECTS	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13						336
SPARE PARTS																88	88								175
CONTINGENCY									50	50	50	50	50	50	50	50	50	50							500
MONTHLY 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	0	0	0	46,894
FISCAL YEAR TOTALS						FY1993 TOTAL >>>							24,426					FY1994 TOTAL >>>							17,196
QUARTERLY TOTALS			4,956			5,060			5,389				6,940			6,718		2,533		3,005					0
CUMULATIVE TOTALS	15,947	17,602	19,249	20,889	22,591	24,309	26,040	27,764	29,698	31,741	34,901	36,638	37,613	40,369	41,356	42,032	42,637	43,888	45,366	46,880	46,894	46,894	46,894	46,894	
62.1001A QUIET COMBUSTOR IF REQUIRED	133	132	131	131	130	130	129	129	128	127	214	88	0	0	0			75	86	86					3,020
MONTHLY TOTALS WITH COMBUSTOR	1,787	1,786	1,779	1,771	1,832	1,847	1,860	1,853	2,062	2,170	3,375	1,825	983	2,765	995	676	605	1,327	1,563	1,600	14	0	0	0	49,914
FISCAL YEAR TOTALS WITH COMBUSTOR						FY1993 TOTAL >>>							26,326					FY1994 TOTAL >>>							17,897
QUARTERLY TOTALS WITH COMBUSTOR			5,352			5,450			5,775				7,370			6,743		2,608		3,176					0
CUMULATIVE TOTALS WITH COMBUSTOR	17,226	19,013	20,791	22,562	24,394	26,242	28,102	29,955	32,016	34,106	37,561	39,386	40,369	43,134	44,129	44,805	45,411	46,737	48,300	49,900	49,914	49,914	49,914	49,914	

ORLANDO UTILITIES COMMISSION
 FRAME & CONDUCTION TURBINE PROJECT (C & D)
 1992 SCHEDULE

PROJECTED CASH FLOW

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 89	FEB 89	MAR 89	APR 89	MAY 89	JUN 89	JUL 89	AUG 89	SEP 89	OCT 89	NOV 89	DEC 89	JAN 90	FEB 90	MAR 90	APR 90	MAY 90	JUN 90	JUL 90	AUG 90	SEP 90	OCT 90	NOV 90	DEC 90
CONTRACTS																								
42.1001 CONDUCTION TURBINE GENERATORS																		2,712			1,892	1,501	771	
43.0004 CABLE																								
43.0006 CABLE/ACC 115V SOLID (A&B)																								
43.1000 GENERATOR TERMINAL EQUIPMENT																								
43.3201 SUBSTATION STRUCT & EQUIPMENT																								
43.3001 GENERATOR TRANSFORMER																								
71.0402 GENERAL CONSTRUCTION																								
73.0201 ELECTRICAL CONSTRUCTION																								
INDIRECT COSTS																								
CT NEGOTIATION & STUDIES (B&V)											4	4	4	4	4	4	4	4	4					
PERMITTING (B&V)													7	7	7	7	7	7	7	7	4	4	4	4
DESIGN ENGINEERING (B&V)																					5	5	5	5
CONSTRUCTION MANAGEMENT (B&V)																								
OSC INDIRECTS																			13	13	13	13	13	13
SPARE PARTS																								
CONTINGENCY																								
MONTHLY TOTALS	0	0	0	0	0	0	0	0	0	0	4	4	4	4	11	11	11	2,723	24	20	10	1,715	1,524	794
FISCAL YEAR TOTALS																								
QUARTERLY TOTALS																								
CUMULATIVE TOTALS	0	0	0	0	0	0	0	0	0	0	4	8	12	16	27	38	48	2,771	2,795	2,815	2,833	4,540	6,072	6,866

FY1989 TOTAL >>>

0

FY1990 TOTAL >>>

2,833

2,744

62

4,033

ORLANDO UTILITIES COMMISSION
 FRAME & CONDUCTION TURBINE PROJECT (C & D)
 1992 SCHEDULE

PROJECTED CASH FLOW

DESCRIPTION	DOLLARS \$ 1000												DOLLARS \$ 1000												TOTAL COST
	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 91	SEP 91	OCT 91	NOV 91	DEC 91	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92	
CONTRACTS																									
62.1001 CONDUCTION TURBINE GENERATORS	768	764	761	757	754	751	747	744	741	737	1,240	511	33	33	33			436	495	495					17,477
63.0001 CABLE													76	76	76				25						252
63.0006 CABLE/ACC 115V SOLID (A&B)													0	0	0				0						0
63.1000 GENERATOR TERMINAL EQUIPMENT														0	0				0						0
63.3201 SUBSTATION STRUCT & EQUIPMENT															0	0			0						0
63.3901 GENERATOR TRANSFORMER														797					89						885
71.0402 GENERAL CONSTRUCTION									100	100	200	200	301	301	200	200	100	100	40	223					2,226
73.0201 ELECTRICAL CONSTRUCTION												82	95	95	95	95	95	44	32	70					702
INDIRECT COSTS																									
CT NEGOTIATION & STUDIES (D&V)																									37
PERMITTING (D&V)	4	4	4	4	4																				79
DESIGN ENGINEERING (D&V)	5	10	10	10	63	84	100	100	100	100	115	115	63	62	21	21	21	21	10	10	10				1,049
CONSTRUCTION MANAGEMENT (D&V)									20	20	20	20	20	20	20	20	20	20	20	20					241
OUC INDIRECTS	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13						336
SPARE PARTS																29	29								58
CONTINGENCY									23	23	23	23	23	23	23	23	23	23							231
MONTHLY TOTALS	791	792	789	785	835	840	860	857	997	1,074	1,612	966	623	1,399	481	402	382	658	725	819	10	0	0	0	23,573
FISCAL YEAR TOTALS																									
QUARTERLY TOTALS			2,373																						
CUMULATIVE TOTALS	7,657	8,450	9,239	10,024	10,859	11,707	12,568	13,425	14,422	15,496	17,108	18,074	18,697	20,096	20,577	20,979	21,361	22,019	22,744	23,563	23,573	23,573	23,573	23,573	

FY1991 TOTAL >>>

11,509

FY1992 TOTAL >>>

9,151

ORLANDO UTILITIES COMMISSION
 FRAME & CONSTRUCTION TURBINE PROJECT (C & O)
 1993 SCHEDULE

PROJECTED CASH FLOW

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 90	FEB 90	MAR 90	APR 90	MAY 90	JUN 90	JUL 90	AUG 90	SEP 90	OCT 90	NOV 90	DEC 90	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 91	SEP 91	OCT 91	NOV 91	DEC 91
CONTRACTS																								
42.1001 CONSTRUCTION TURBINE GENERATORS																3,462					1,816	1,501	771	
43.0004 CABLE																								
43.0006 CABLE/ACC 115V SOLID (AAB)																								
43.1000 GENERATOR TERMINAL EQUIPMENT																								
43.3201 SUBSTATION STRUCT & EQUIPMENT																								
43.3801 GENERATOR TRANSFORMER																								
71.0402 GENERAL CONSTRUCTION																								
73.0201 ELECTRICAL CONSTRUCTION																								
INDIRECT COSTS																								
CT NEGOTIATION & STUDIES (B&V)							4	4	4	4	4	4	4	4	4	4	4	7	7	7	5	5	5	5
PERMITTING (B&V)																7	7	7	7	7	7	6	6	6
DESIGN ENGINEERING (B&V)																								
CONSTRUCTION MANAGEMENT (B&V)																								
OUC INDIRECTS																			13	13	13	13	13	13
SPARE PARTS																								
CONTINGENCY																								
MONTHLY TOTALS	0	0	0	0	0	0	4	4	4	4	4	4	4	4	10	3,472	10	7	20	20	18	1,840	1,525	795
FISCAL YEAR TOTALS							FY1990 >>>				11								FY1991 TOTAL >>>				3,577	
QUARTERLY TOTALS			0			0			11			11			17			3,490			59			4,159
CUMULATIVE TOTALS	0	0	0	0	0	0	4	7	11	14	18	21	25	28	39	3,511	3,522	3,528	3,549	3,569	3,587	5,427	6,951	7,746

ORLANDO UTILITIES COMMISSION
 FRAME & CONSTRUCTION TURBINE PROJECT (C & D)
 1993 SCHEDULE

PROJECTED CASH FLOW

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000												TOTAL COST
	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92	JAN 93	FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 93	OCT 93	NOV 93	DEC 93	
CONTRACTS																									
62.1001 CONSTRUCTION TURBINE GENERATORS	760	764	761	757	754	751	747	744	741	737	1,240	511	33	33	33			436	522	522					18,404
63.0004 CABLE													80	80	80				27						265
63.0006 CABLE/ACC 115V SOLIDS (AMB)													0	0	0				0						0
63.1000 GENERATOR TERMINAL EQUIPMENT														0	0				0						0
63.3201 SUBSTATION STRUCT & EQUIPMENT															0		0		0						0
63.3801 GENERATOR TRANSFORMER														839					93						932
71.0402 GENERAL CONSTRUCTION									105	190	211	211	316	316	211	211	190	105	42	234					2,343
73.0201 ELECTRICAL CONSTRUCTION												84	100	100	100	100	100	47	33	74					739
INDIRECT COSTS																									
CT NEGOTIATION & STUDIES (DAV)																									39
PERMITTING (DAV)	5	5	5	5	5																				83
DESIGN ENGINEERING (DAV)	6	11	11	11	46	80	105	105	105	105	121	121	46	44	22	22	22	22	11	11	11				1,104
CONSTRUCTION MANAGEMENT (DAV)									21	21	21	21	21	21	21	21	21	21	21	21					254
OUC INDIRECTS	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13						336
SPARE PARTS																29	29								58
CONTINGENCY									24	24	24	24	24	24	24	24	24	24							243
MONTHLY TOTALS	792	793	790	786	830	853	865	862	1,010	1,091	1,631	989	654	1,470	504	421	400	669	763	862	11	0	0	0	24,000
FISCAL YEAR TOTALS																									
QUARTERLY TOTALS		2,375				2,477			2,730			3,711		2,620			1,489			1,636					0
CUMULATIVE TOTALS	8,530	9,331	10,121	10,907	11,745	12,598	13,463	14,326	15,336	16,426	18,058	19,046	19,700	21,171	21,675	22,095	22,495	23,164	23,927	24,789	24,800	24,800	24,800	24,800	

08-Sep-89

PAGE 1

ORLANDO UTILITIES COMMISSION
 FRAME & COMBUSTION TURBINE PROJECT (C & D)
 1994 SCHEDULE

PROJECTED CASH FLOW

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000											
	JAN 91	FEB 91	MAR 91	APR 91	MAY 91	JUN 91	JUL 91	AUG 91	SEP 91	OCT 91	NOV 91	DEC 91	JAN 92	FEB 92	MAR 92	APR 92	MAY 92	JUN 92	JUL 92	AUG 92	SEP 92	OCT 92	NOV 92	DEC 92
CONTRACTS																								
62.1001 COMBUSTION TURBINE GENERATORS													4,240								1,942	1,501	771	
63.0004 CABLE																								
63.0006 CABLE/ACC 115V MILD (AGB)																								
63.1000 GENERATOR TERMINAL EQUIPMENT																								
63.3201 SUBSTATION STRUCT & EQUIPMENT																								
63.3001 GENERATOR TRANSFORMER																								
71.0402 GENERAL CONSTRUCTION																								
73.0201 ELECTRICAL CONSTRUCTION																								
INDIRECT COSTS																								
CT NEGOTIATION & STUDIES (DAV)					4	4	4	4	4	4	4	4	4	4	4	7	7	7	7	7	5	5	5	5
PERMITTING (DAV)																						6	6	6
DESIGN ENGINEERING (DAV)																								
CONSTRUCTION MANAGEMENT (DAV)																								
OUC INDIRECTS																			13	13	13	13	13	13
SPARE PARTS																								
CONTINGENCY																								
MONTHLY TOTALS	0	0	0	0	4	4	4	4	4	4	4	4	4	4,252	11	7	7	7	21	21	18	1,966	1,525	795
FISCAL YEAR TOTALS																								
QUARTERLY TOTALS			0			7			11			11		4,266				22			60			4,286
CUMULATIVE TOTALS	0	0	0	0	4	7	11	15	19	22	26	30	33	4,285	4,296	4,303	4,311	4,318	4,339	4,359	4,378	6,344	7,869	8,664

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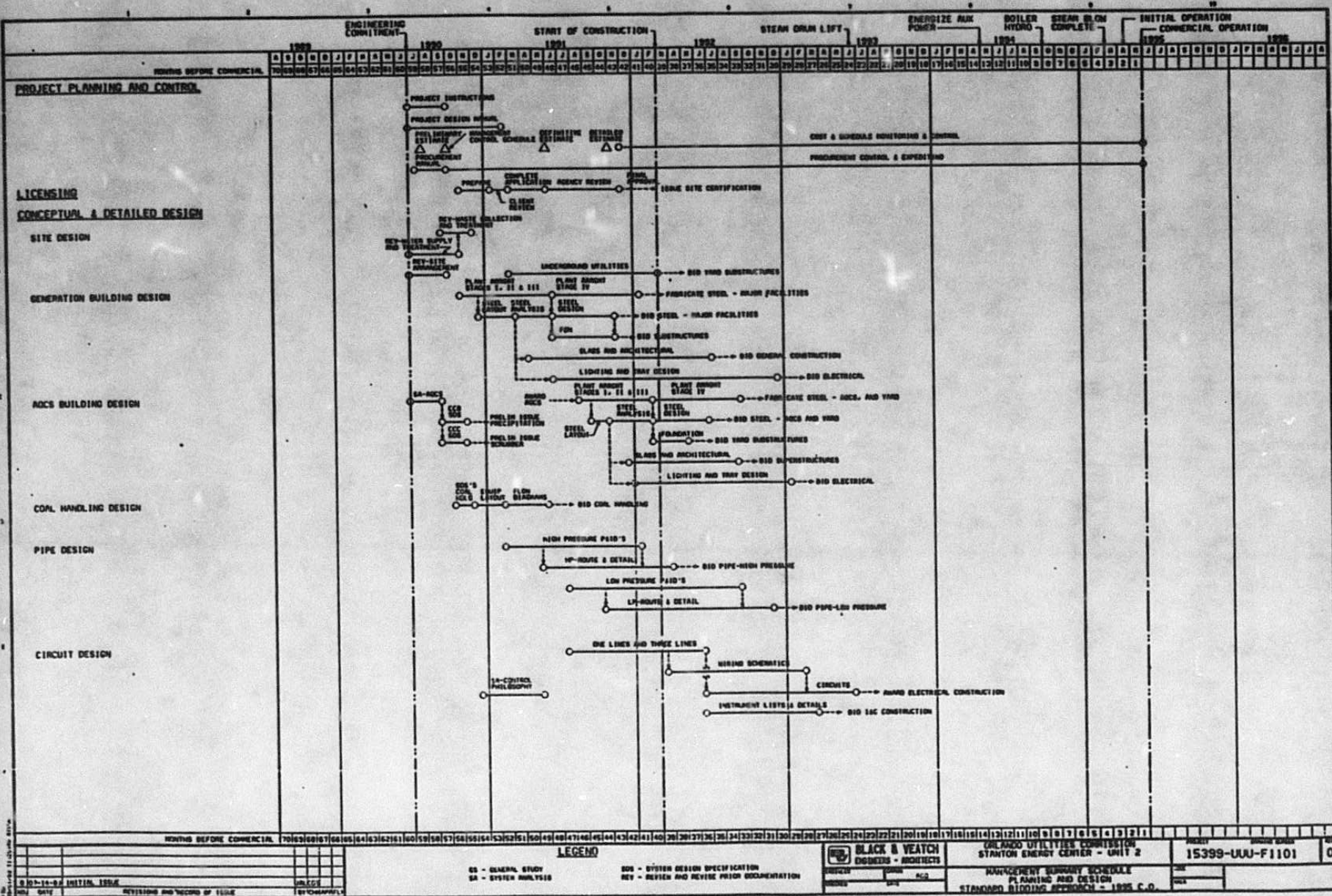
PAGE 2

ORLANDO UTILITIES COMMISSION
 FRAME & COMBUSTION TURBINE PROJECT (C & D)
 1994 SCHEDULE

PROJECTED CASH FLOW

DESCRIPTION	DOLLARS X 1000												DOLLARS X 1000												TOTAL COST
	JAN 93	FEB 93	MAR 93	APR 93	MAY 93	JUN 93	JUL 93	AUG 93	SEP 93	OCT 93	NOV 93	DEC 93	JAN 94	FEB 94	MAR 94	APR 94	MAY 94	JUN 94	JUL 94	AUG 94	SEP 94	OCT 94	NOV 94	DEC 94	
CONTRACTS																									
62.1001 COMBUSTION TURBINE GENERATORS	768	764	761	757	754	751	747	744	741	737	1,240	511	33	33	33			436	540	540					19,369
63.0004 CABLE													84	84	84				28						279
63.0006 CABLE/ACC 115V SOLID (A&B)													0	0	0				0						0
63.1000 GENERATOR TERMINAL EQUIPMENT														0	0				0						0
63.3201 SUBSTATION STRUCT & EQUIPMENT															0	0			0						0
63.3801 GENERATOR TRANSFORMER														883					98						981
71.0402 GENERAL CONSTRUCTION									111	200	222	222	333	333	222	222	200	111	44	247					2,466
73.0201 ELECTRICAL CONSTRUCTION												91	105	105	105	105	105	49	35	78					778
INDIRECT COSTS																									
CT NEGOTIATION & STUDIES (DAV)																									41
PERMITTING (DAV)	5	5	5	5	5																				87
DESIGN ENGINEERING (DAV)	6	12	12	12	70	93	110	110	110	110	128	128	70	46	23	23	23	23	12	12	12				1,162
CONSTRUCTION MANAGEMENT (DAV)									22	22	22	22	22	22	22	22	22	22	22	22					267
O&C INDIRECTS	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13						336
SPARE PARTS																29	29								58
CONTINGENCY									26	26	26	26	26	26	26	26	26	26							756
MONTHLY TOTALS	792	794	791	787	842	857	871	868	1,024	1,100	1,651	1,013	686	1,545	528	440	418	681	801	907	12	0	0	0	26,080
FISCAL YEAR TOTALS																									
QUARTERLY TOTALS																									
CUMULATIVE TOTALS	9,456	10,250	11,041	11,828	12,670	13,527	14,398	15,266	16,290	17,398	19,049	20,062	20,748	22,293	22,821	23,262	23,680	24,361	25,162	26,068	26,080	26,080	26,080	26,080	26,080

APPENDIX G
MILESTONE SCHEDULES
SEC, UNIT 2



MONTHS BEFORE COMMENCEMENT	ENGINEERING COMMITMENT												START OF CONSTRUCTION											
	1989						1990						1991											
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F						
CIVIL/STRUCTURAL																								
TURBINE ROOM CRANE													P	B	C									
COAL CONVEYING SYSTEMS													P	B	C									
CONCRETE CHIMNEY													P	B	C									
ROCS STEEL																								
MECHANICAL																								
STEAM GENERATOR																								
TURBINE GENERATOR																								
DEAERATOR													P	B	C									
FEEDWATER HEATERS-HIGH PRESSURE													P	B	C									
FEEDWATER HEATERS-LOW PRESSURE													P	B	C									
BOILER FEED PUMP DRIVE TURBINES													P	B	C									
PUMPS-BOILER FEED													P	B	C									
CONDENSER													P	B	C									
ELECTROSTATIC PRECIPITATOR													P	B	C									
AGC-HET SCRUBBER													P	B	C									
PUMPS-CONDENSATE													P	B	C									
FORCED DRAFT FANS													P	B	C									
COOLING TOWER													P	B	C									
ASH HANDLING SYSTEM													P	B	C									
SCRUBBER ADDITIVE PREPARATION SYSTEM																								
SCRUBBER SOLIDS HANDLING SYSTEM																								
INDUCED DRAFT FANS																								
PIPE-HIGH PRESSURE																								
PIPE-LOW PRESSURE																								
CONTROL/ELECTRICAL																								
PROGRAMMABLE CONTROLLERS													P	B	C									
COORDINATED CONTROL																								
TRANSFORMER-GENERATOR																								
SECONDARY UNIT SUBSTATIONS																								
6.9KV SWITCHGEAR AND BUS DUCT																								
CONTROL PANELS																								
CHEMICAL																								
CONDENSATE POLISHING EQUIPMENT																								

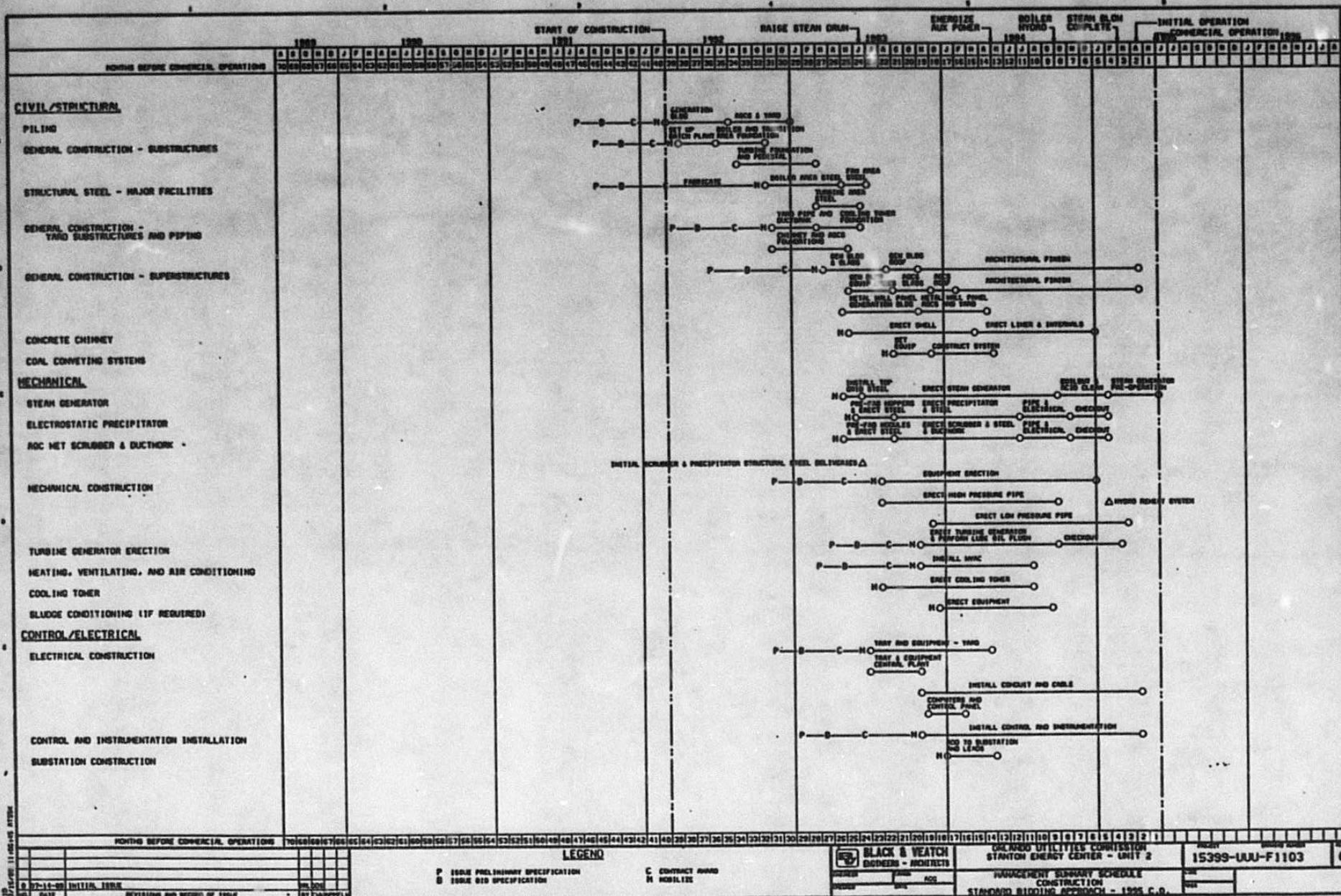
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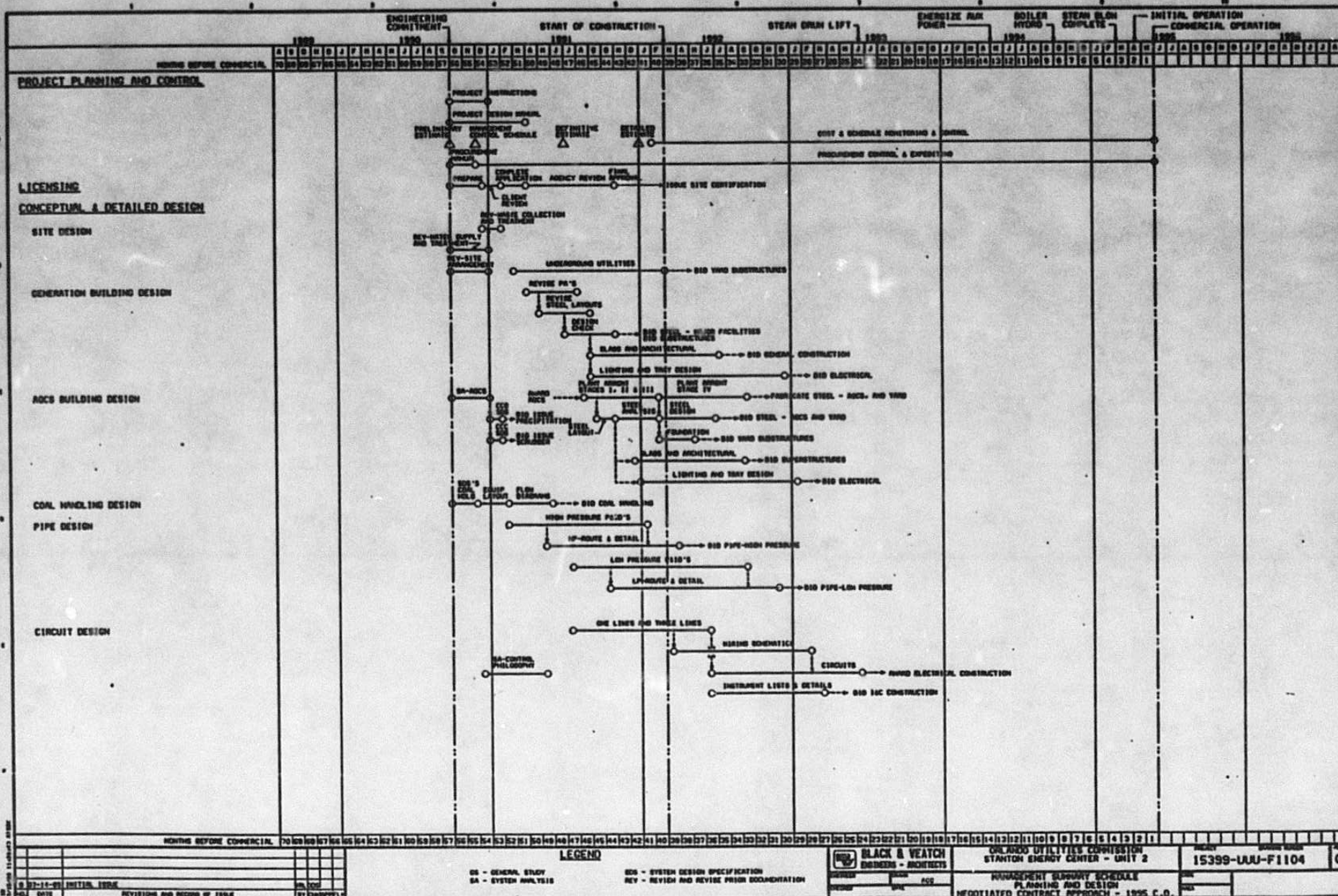
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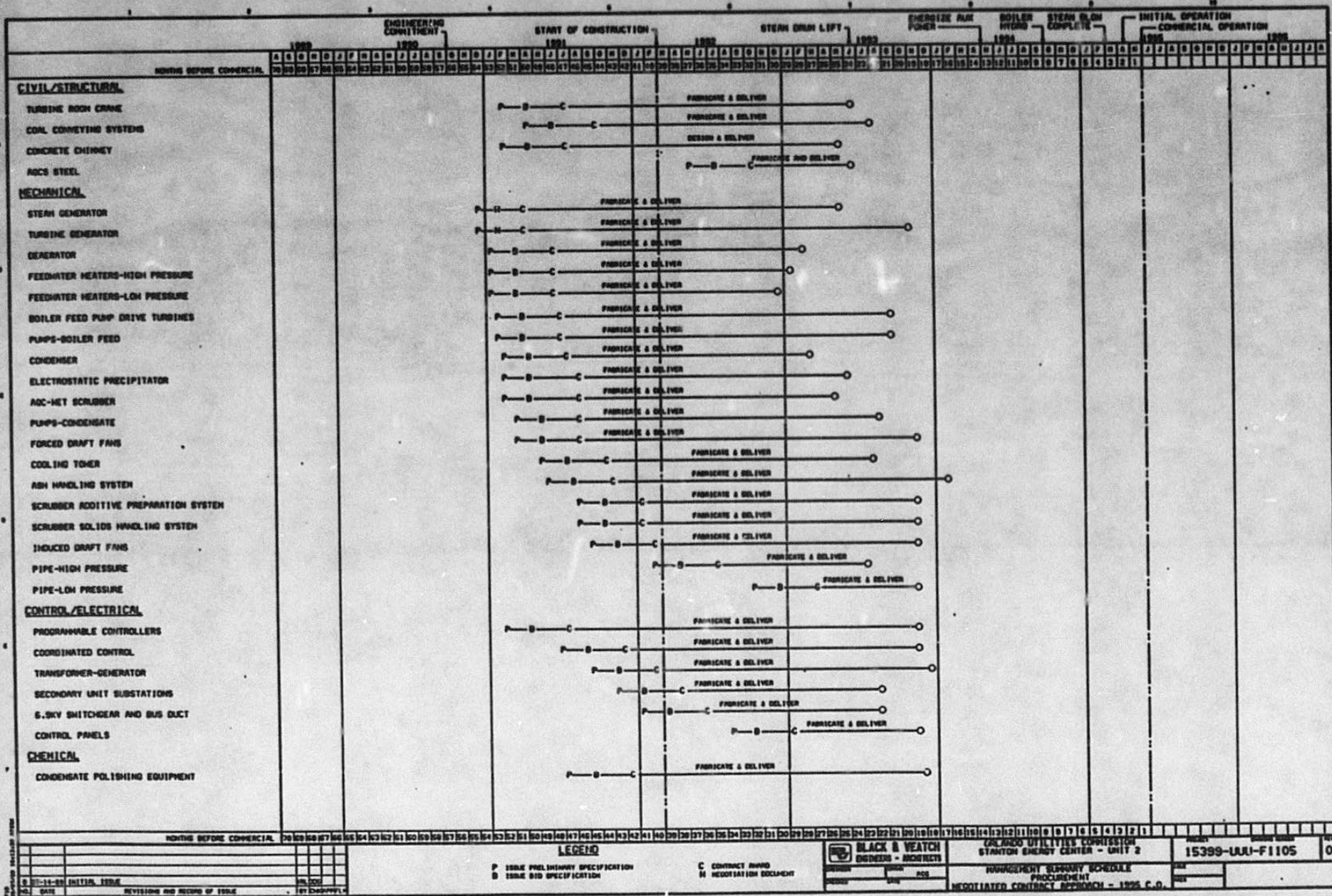
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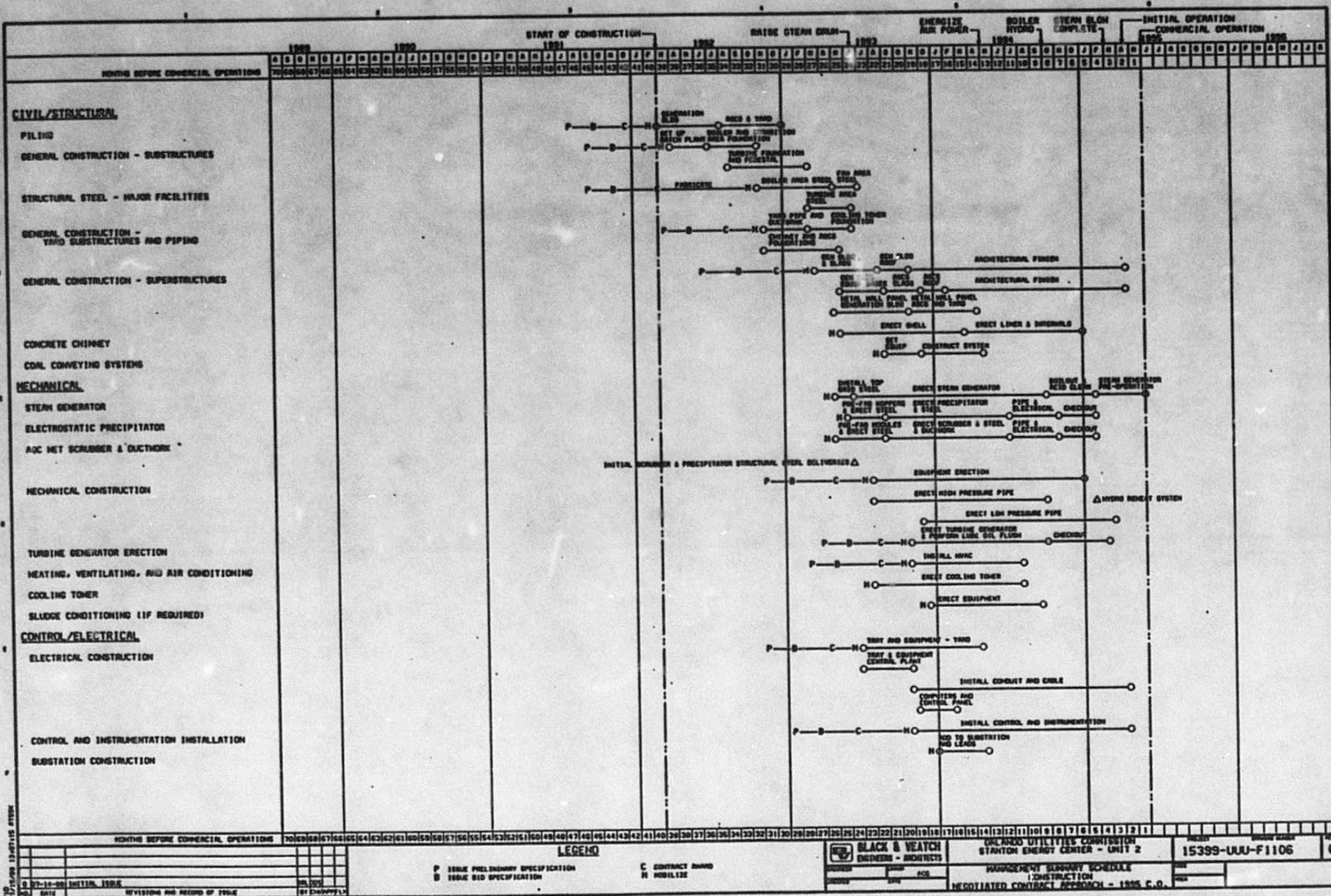
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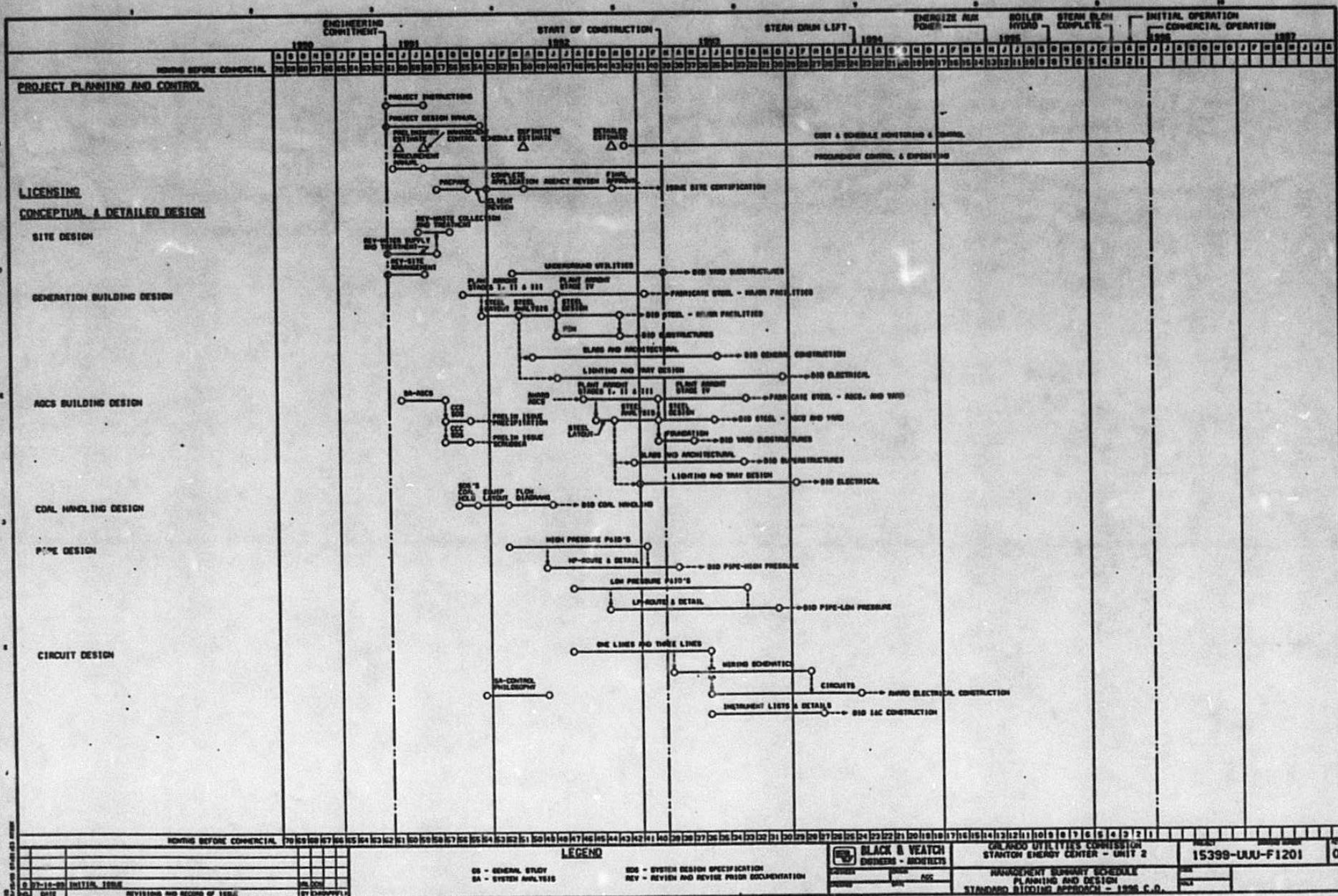
B 100% BID SPECIFICATION

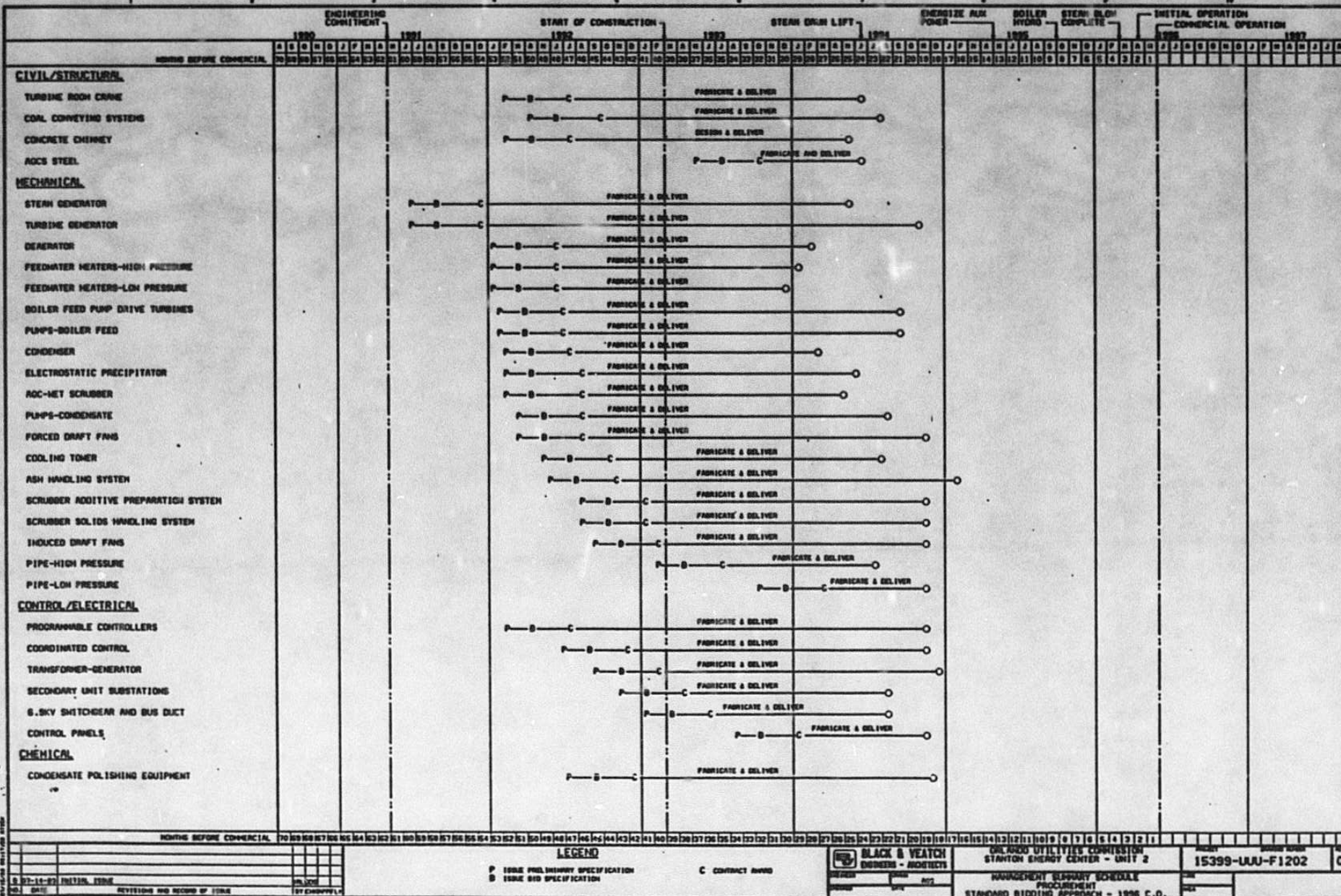


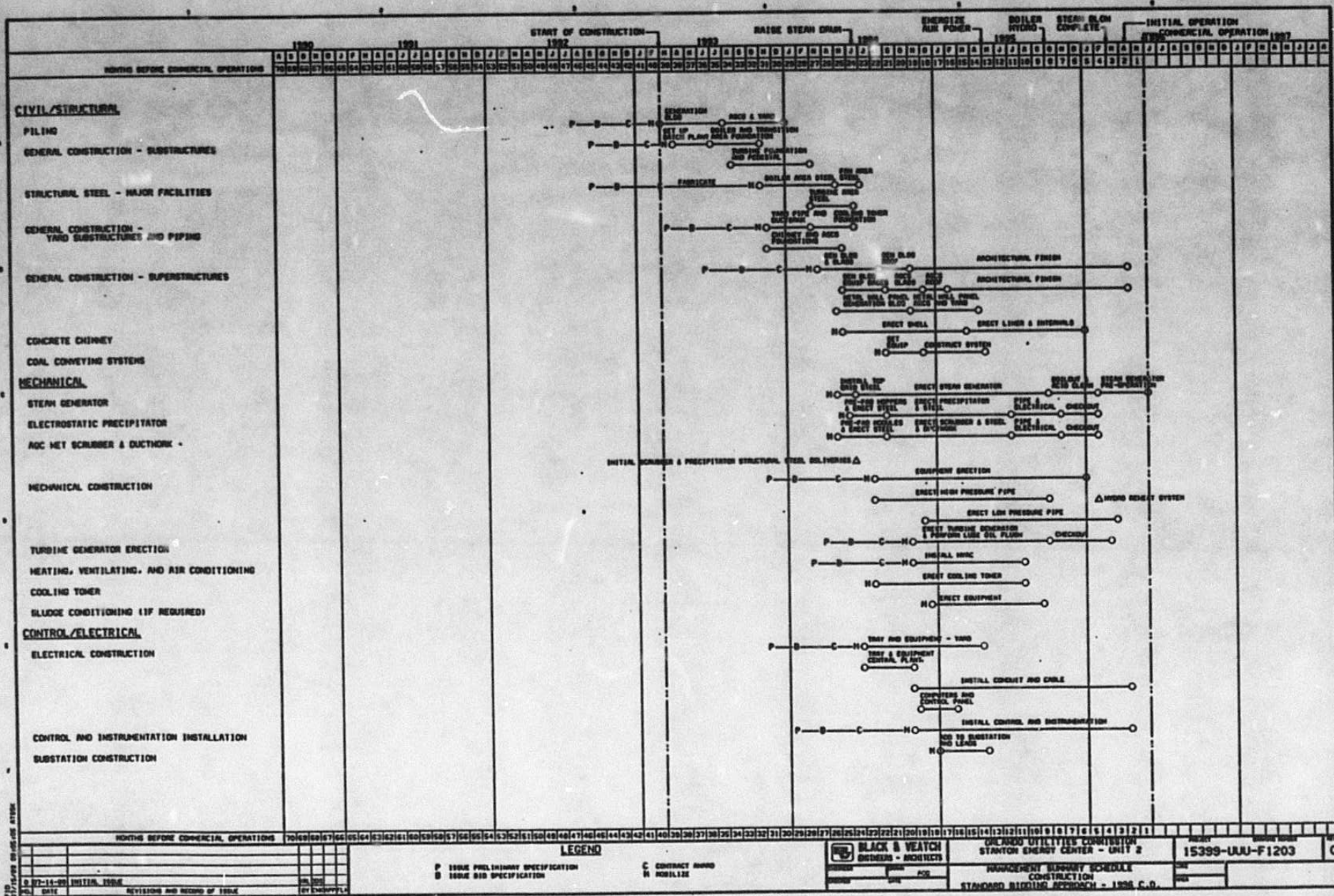


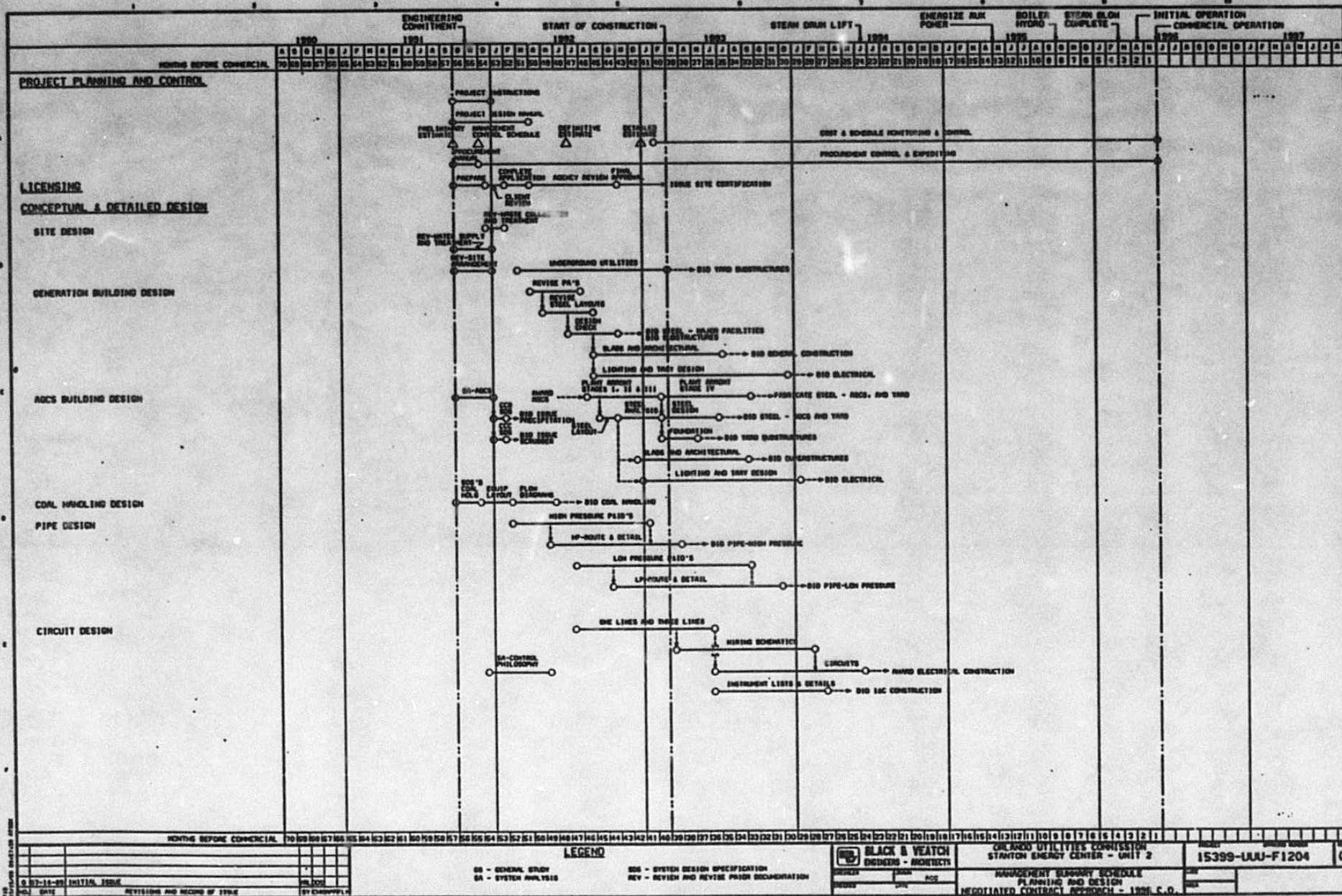


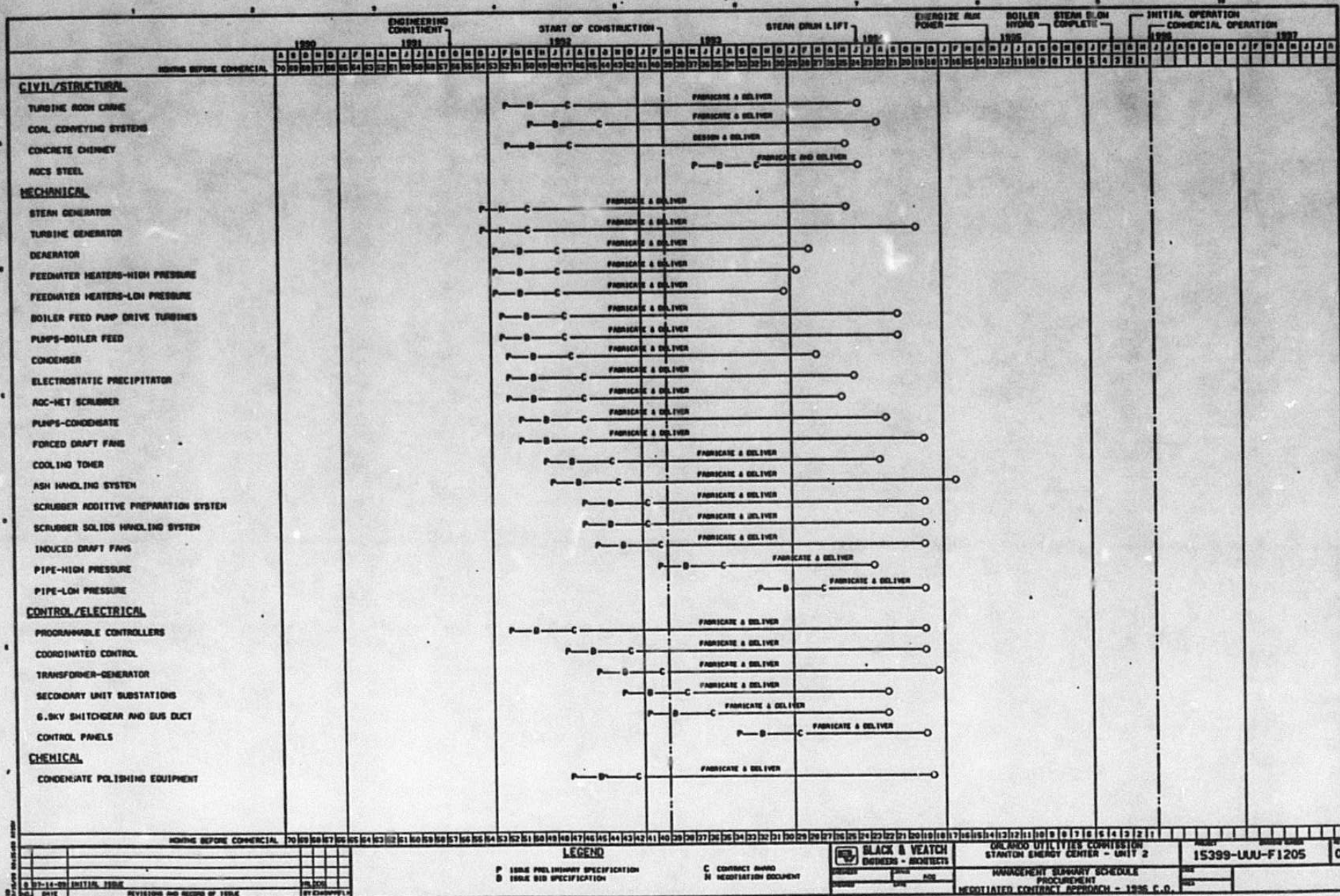


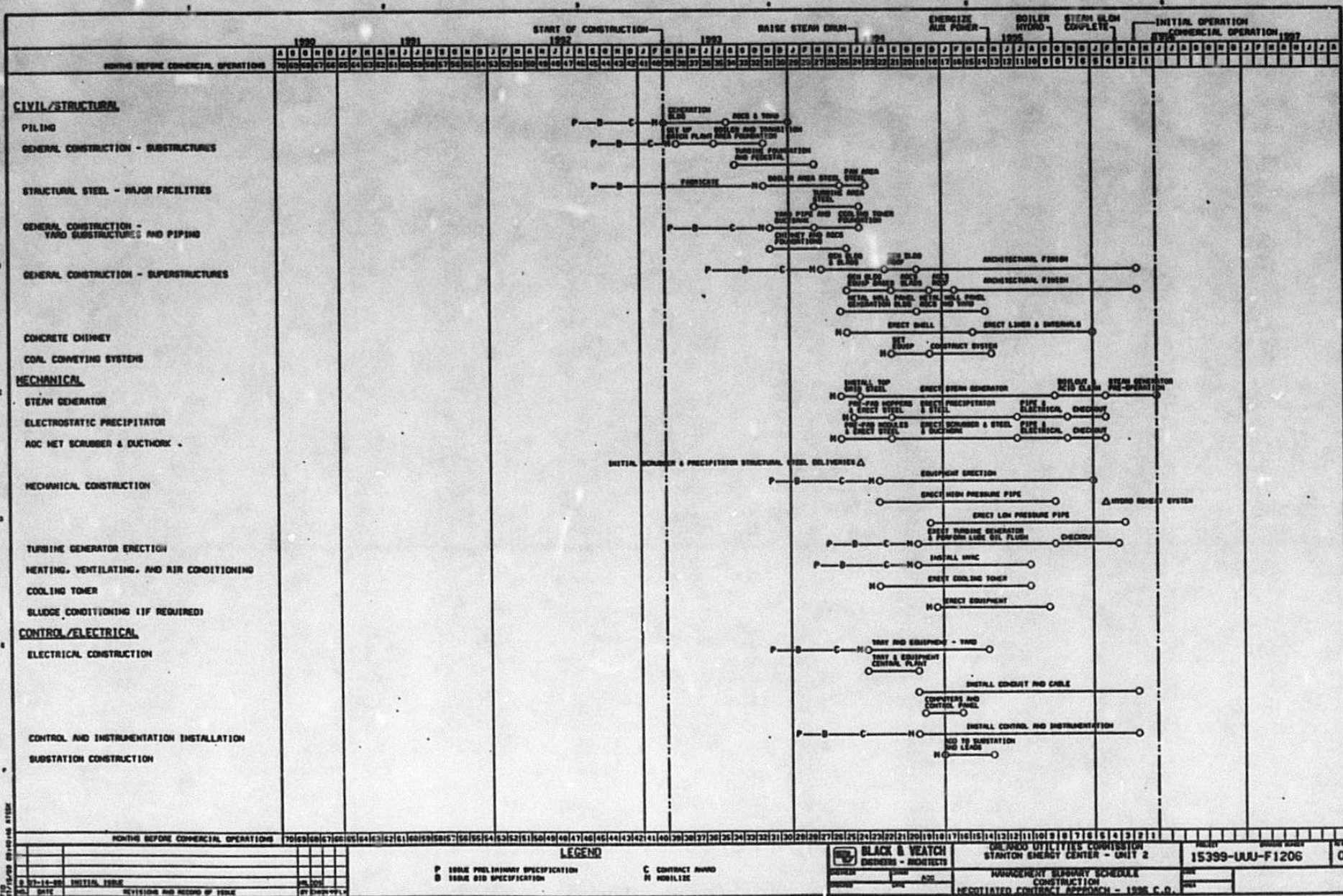


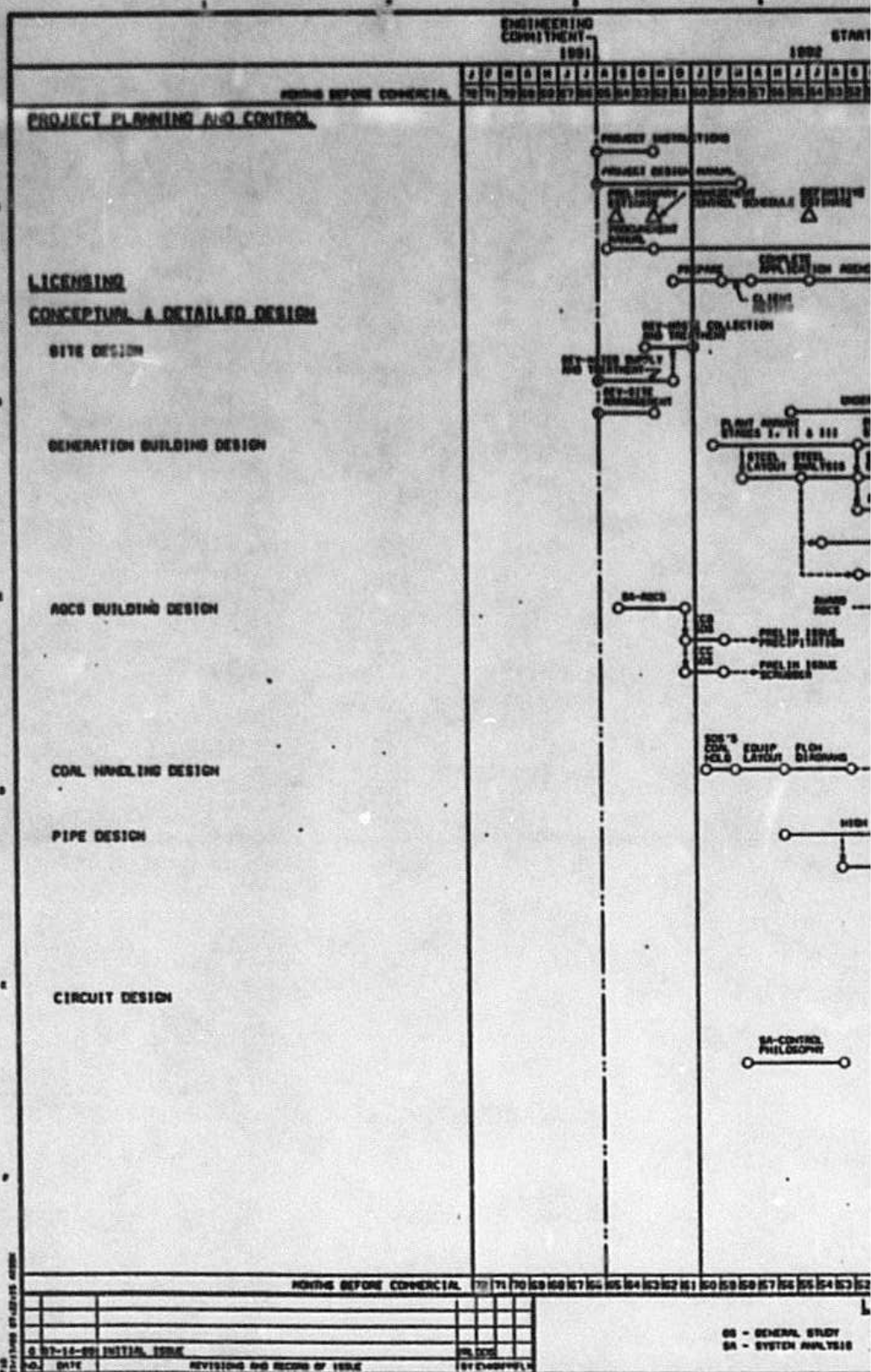


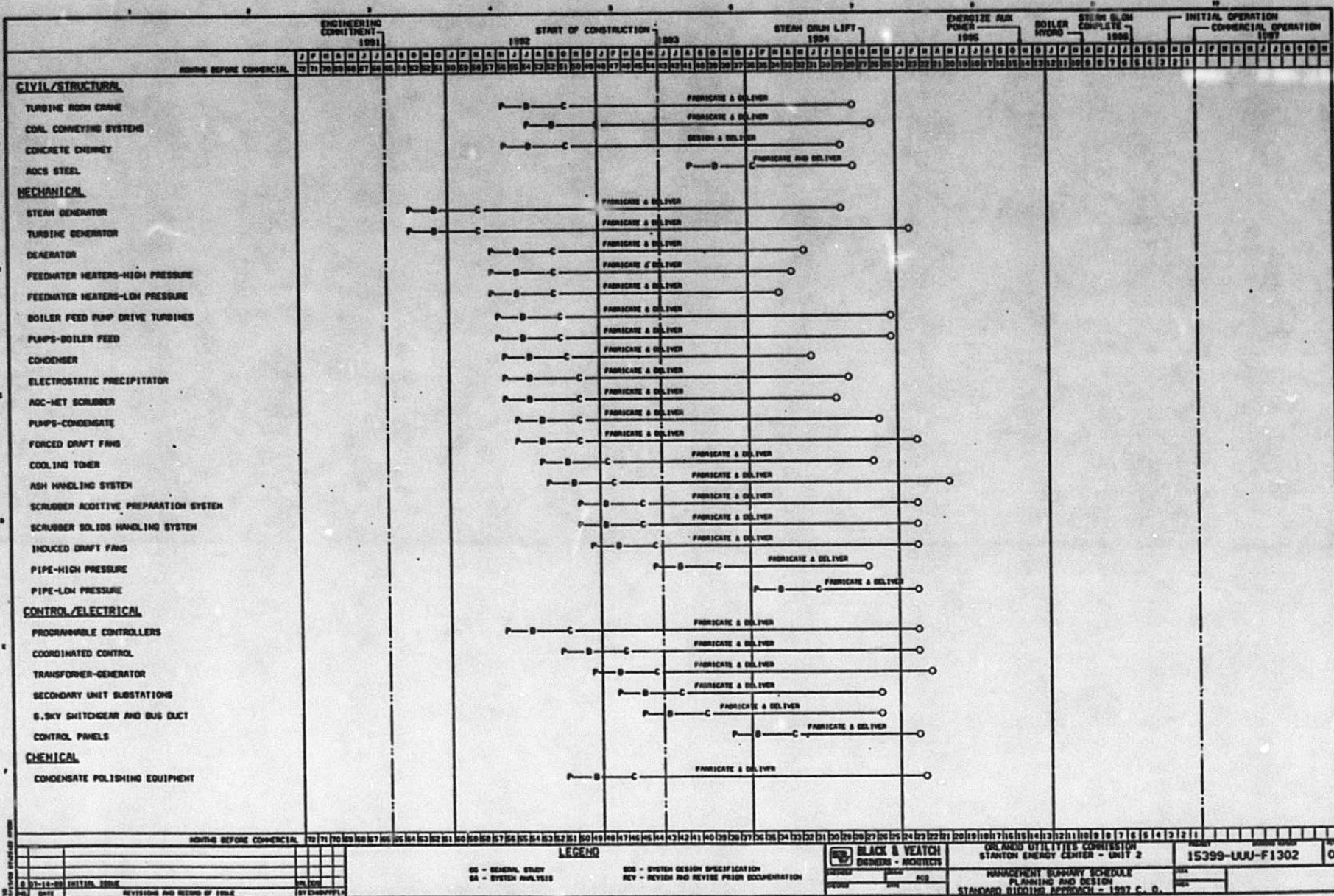












FOR OFFICIAL USE ONLY

GS - GENERAL STUDY
SA - SYSTEM ANALYSIS

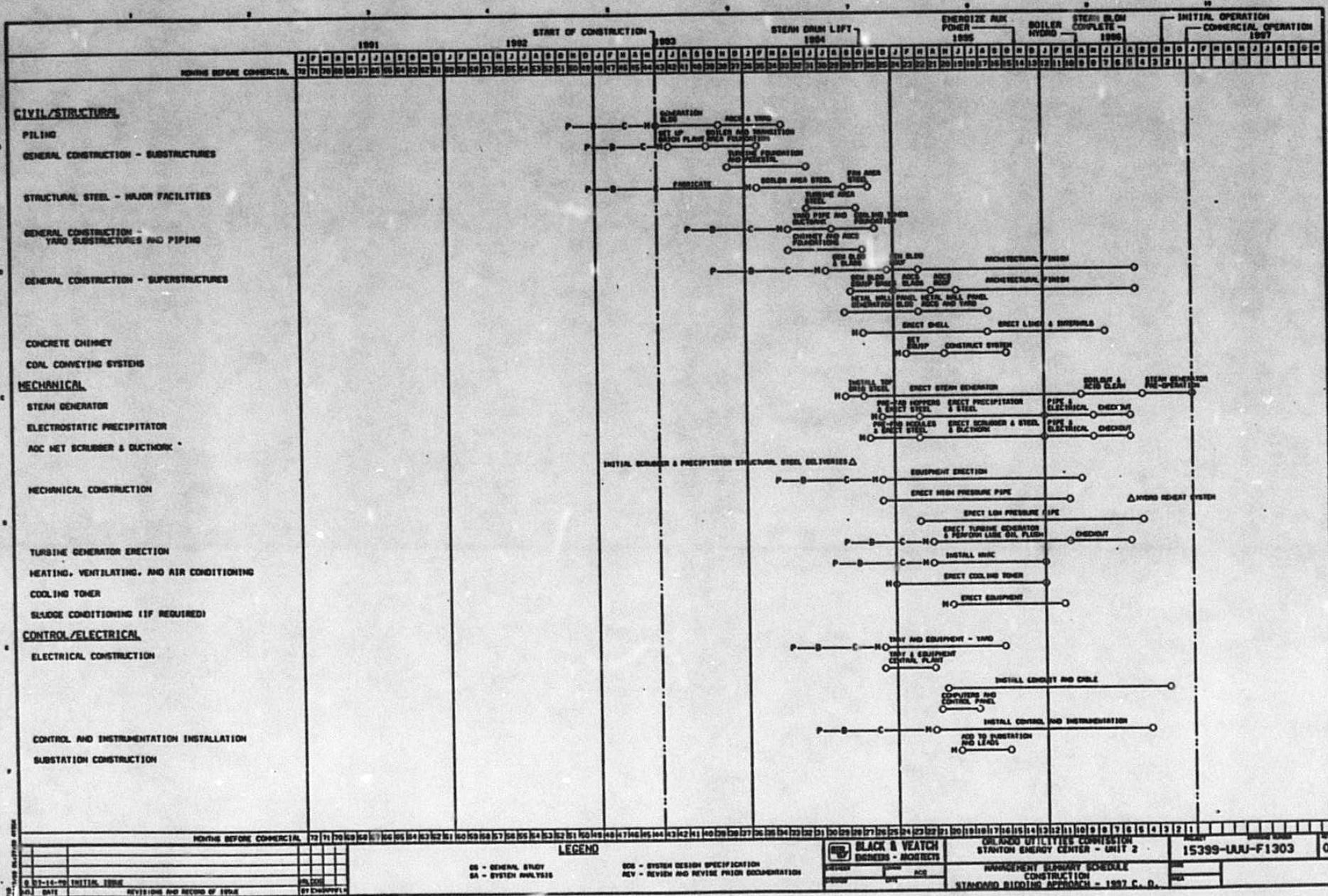
SOS - SYSTEM DESIGN SPECIFICATION
REV - REVIEW AND REVISE PRIOR DOCUMENTATION

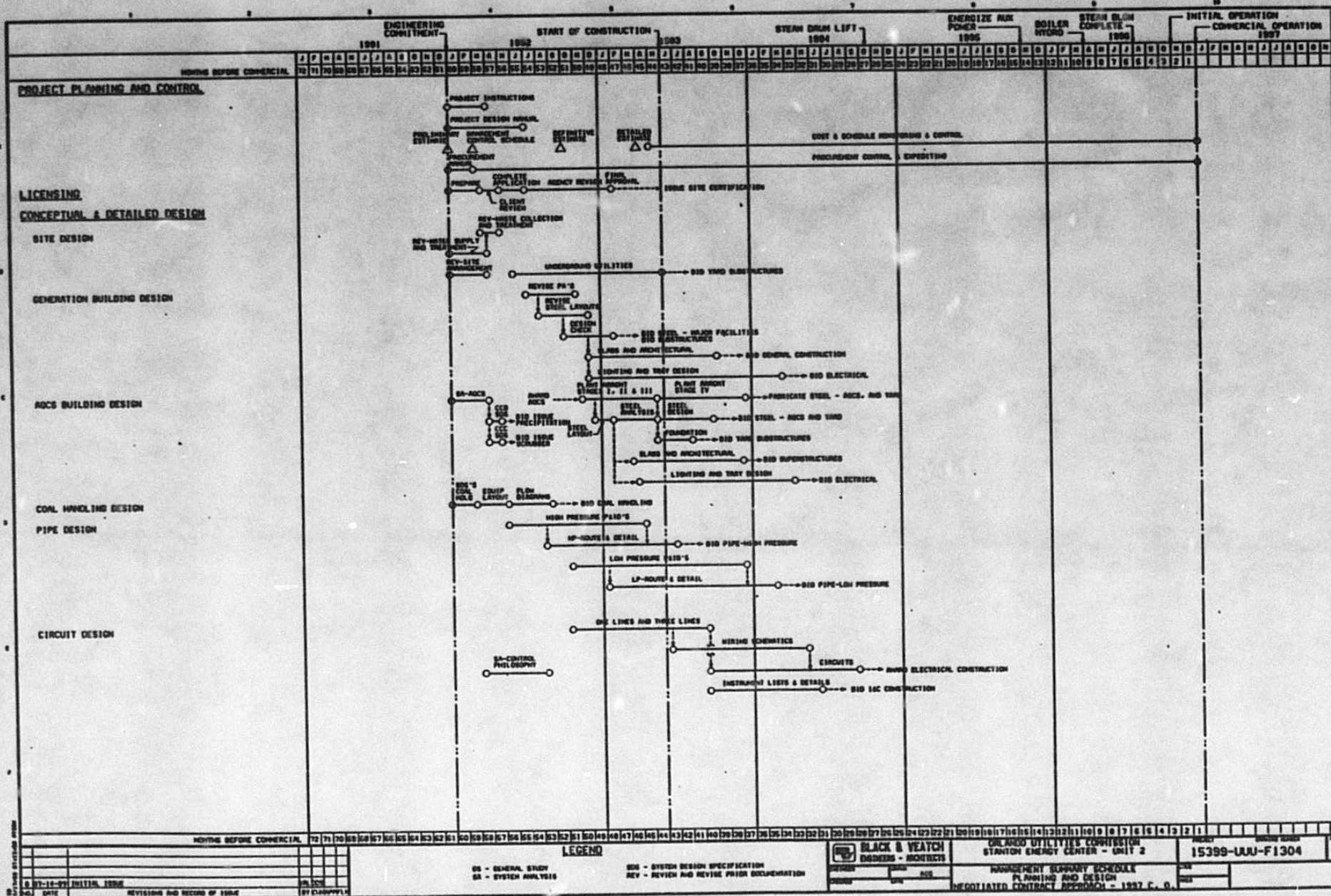
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ENGINEERS - ARCHITECTS

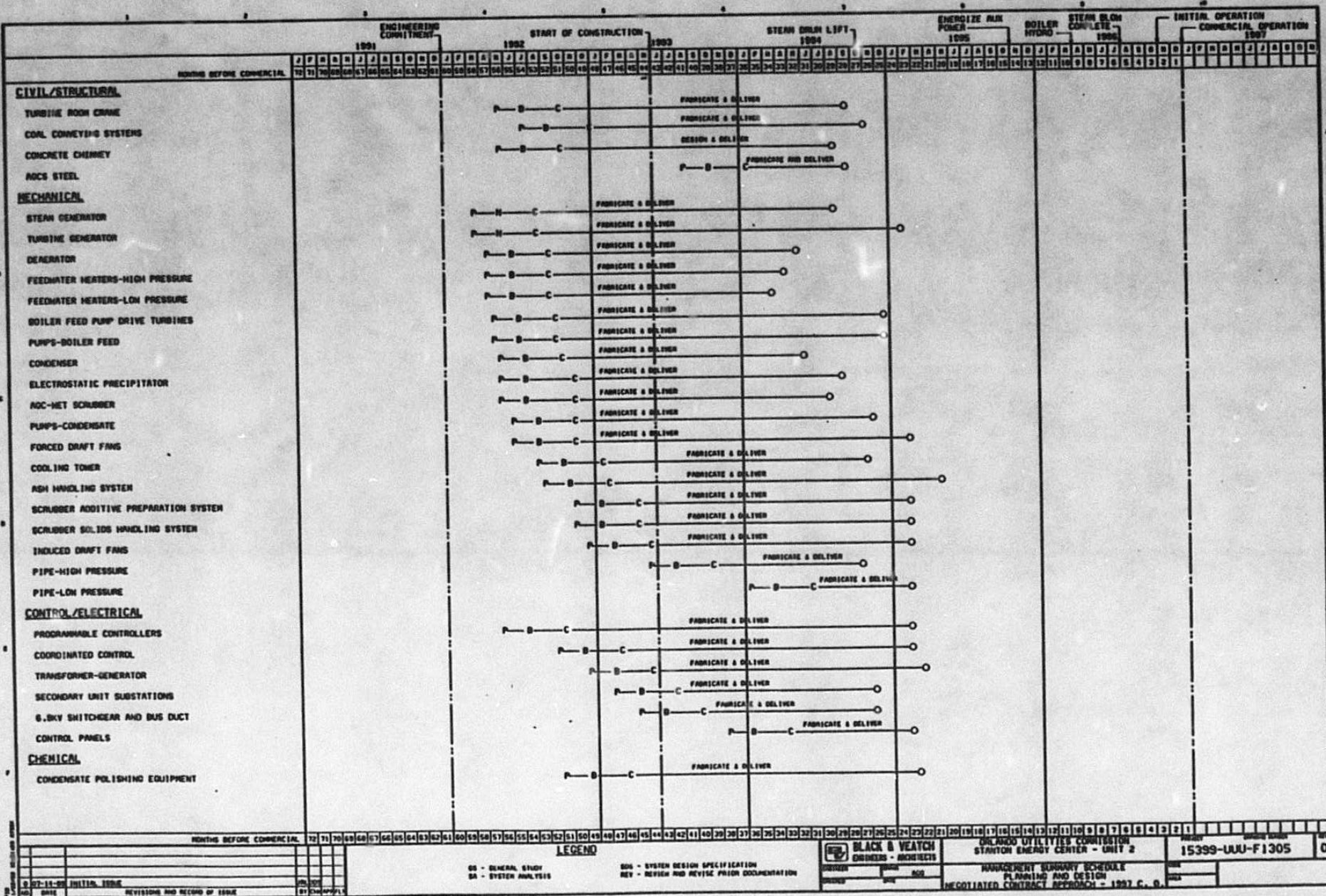
OILAND UTILITY COMMISSION
STANTON ENERGY CENTER - UNIT 2
MANAGEMENT SUMMARY SCHEDULE
PLANNING AND DESIGN
STANDARD BIDDING APPROACH - 1987 C. O.

15399-UUU-F1302

REV 0







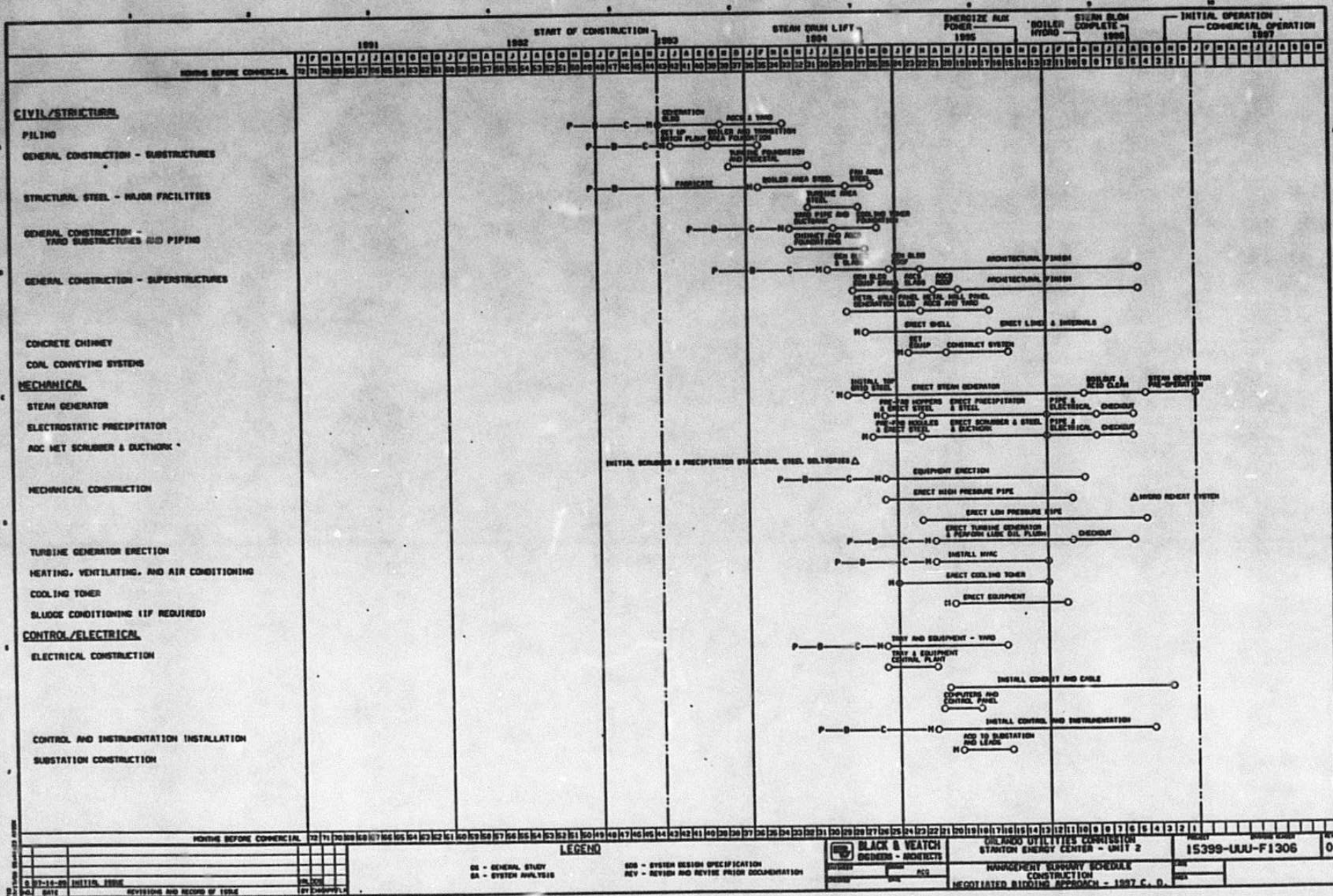


EXHIBIT NO. 4

WITNESS: WASHBURN

DESCRIPTION: RESPONSE TO STAFF INTERROGATORY 6

STAFF: SHINE

FLORIDA PUBLIC SERVICE COMMISSION

DOCKET

NO. 910382-EM EXHIBIT NO. 4

COMPANY/

WITNESS: Washburn

DATE: 6/18/91

ORLANDO UTILITIES COMMISSION

Stage Two Evaluation
 Summary of Weighted Scoring of Proposals

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

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. 5

WITNESSES: WASHBURN

DESCRIPTION: INTERROGATORY 22
COAL TRANSPORTATION CAPABILITY

STAFF: TAYLOR

FLORIDA PUBLIC SERVICE COMMISSION
DOCKET NO. 910382-EM EXHIBIT NO. 5
COMPANY: Washburn
WITNESS: Washburn
DATE: 6/18/91

Orlando Utilities Commission
Florida Municipal Power Agency
Kissimmee Utility Authority
Docket No. 910382-EM
PSC Staff's First Set of Interrogatories
Interrogatory No. 22
Page 1 of 1

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. 6

WITNESSES: WASHBURN

DESCRIPTION: INTERROGATORY 30
COMBUSTION WASTE PRODUCTS

STAFF: TAYLOR

FLORIDA PUBLIC SERVICE COMMISSION
DOCKET
NO. 910382-EM EXHIBIT NO. 6
COMPANY/ Washburn
WITNESS: Washburn
DATE: 6/18/97

Orlando Utilities Commission
Florida Municipal Power Agency
Kissimmee Utility Authority
Docket No. 910382-EM
PSC Staff's First Set of Interrogatories
Interrogatory No. 30
Page 1 of 1

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 bottom 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.