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DE90 013261

INTEGRAL MONITORED RETRIEVABLE STORAGE (MRS) FACILITY

CONCEPTUAL DESIGN REPORT

VOLUME V BOOK VI – COST ESTIMATE

Prepared for

UNITED STATES DEPARTMENT OF ENERGY
Richland Operations Office

Report No. MRS 11
Contract No. DE-AC06-84RL 10436
September 1985

THE RALPH M. PARSONS COMPANY OF DELAWARE
Westinghouse Electric Corporation
Golder Associates

MASTER

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PARSONS

ESTIMATE WORKSHEET

Clinch River Base Case

M.T.O. BY Engineering PRICED BY V Messoc/MH/A DATE Aug 85 SHEET ____ OF ____

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE Rom CHECKED BY DH

UNIT/AREA MRS Facility

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	TOTAL SUMMARY AREA #5 (INCL CONTR ONEP)											
	AREA 5 (5-2)											42,722,000
	ENTRY FACILITIES (5-3)											1,163,000
	SUPPORT FACILITIES (5-4)											35,266,000
	UTILITIES (5-5)											4,453,000
	TOTAL AREA 5 W/OUT CONTINGENCIES											83,604,000

CES-2000-0 (4/81)

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CLINCH RIVER – BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY V. MESEC | PRICED BY V. MESEC CCE | DATE AUG. 85 | SHEET ____ OF ____

JOB NO.: 6440-11 | CLIENT: DOE/PNG. | TYPE OF ESTIMATE ROM. | CHECKED BY RS/Bm

UNIT/AREA

DESCRIPTION MRS FACILITY

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	Summary Area # 5											
	Summary By Divisions.					4.45	25 960 000			403 498	6 644 800	32 604 800
	Labor Productivity	85%								71 206	1 171 000	1 171 000
	S/Total						25 960 000			474 704	7 812 800	33 772 800
	Contractors O/H - Profit	26.5%										8 950 000
	Total Cost Area # 5 w/out Contingency											42 722 800

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CLINCH RIVER - BASE CASE

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ESTIMATE WORKSHEET

M.T.O. BY V.MESEC PRICED BY V.MESEC DATE Aug. 85 SHEET ____ OF ____

JOB NO.: 6440-11 CLIENT: DOE/PNC TYPE OF ESTIMATE ROM CHECKED BY R.E. Rem

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY AREA #5

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SUMMARY CHTRM FACILITY											
	TOTAL DIRECT COST					15%	743000			9486	150000	893000
	LABOR PRODUCTIVITY	85	%							1603	26000	26000
	S/TOTAL						743000			10689	176000	919000
	CONTRACTORS OH-PROFIT	26.5	%									244000
	TOTAL - CHTRM FAC. W/OUT CONTINGENCY											1163000

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ESTIMATE WORKSHEET

Clinch River Base Case

M.T.O. BY Engineering PRICED BY √ Messac/[illegible] △ DATE Aug 85 SHEET ____ OF ____

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE Rom CHECKED BY [illegible]

UNIT/AREA MRS Facility

DESCRIPTION

CAPACITY Area #5

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	Summary Support Facilities											
	Total Direct Cost					16.50	21591000			323845	5344000	26935000
	Labor Productivity	85	%							57149	943000	943000
	S/Total						21591000			380994	6287000	27878000
	Contractors OH&P	26.5	%									7388000
	Total Cost Support Facilities Without Contingency											35266000

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CLINCH RIVER – BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY V. MESEC | PRICED BY V. MESEC | DATE AUG 85 | SHEET ____ OF ____

JOB NO.: 6440-11 | CLIENT: DOE/PNC | TYPE OF ESTIMATE ROM | CHECKED BY R.F. Beers

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY AREA #5

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
	SUMMARY UTILITIES											
	TOTAL DIRECT COST					18.75	2106000			64433	1202000	3308000
	LABOR PRODUCTIVITY	85 %								11318	212000	212000
	S/TOTAL						2106000			75451	1414000	3520000
	CONTRACTORS OH'D PROFIT	26.5 %										933000
	TOTAL COST UTILITIES W/OUT CONTINGENCY											4453000

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CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY ENGINEERING PRICED BY V. NIESEC DATE AUG. 85 SHEET ____ OF ____

JOB NO.: 6440-11 CLIENT DOE/PNC TYPE OF ESTIMATE ROM. CHECKED BY RAM

UNIT/AREA MRS FACILITY

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SUMMARY AREA (5) DIVISIONS #2											
DIV 2	SITE WORK	1	LOT			16.08	20 350 000			318 568	5 123 000	25 473 000
3	CONCRETE					15.97	0			0		
4	MASONARY					4.50	0			0		
5	METALS					18.44	0			0		
6	WOOD & PLASTICS					4.50	0			0		
7	THERMAL MOIST. PROTECTION					4.50	0			0		
8	DOORS & WINDOWS					16.50	0			0		
9	FINISHES					16.31	0			0		
10	SPECIACTIES					17.00	0			0		
11	EQUIPMENT	1	EA			18.74	21 000			16	300	21 300
12	FURNISHINGS					16.50	0			0		
13	SPECIAL CONSTRUCTION					18.74	0			0		
14	CONVEYING SYSTEMS					18.74	0			0		
15	MECHANICAL SYSTEMS					18.74	0			0		
16	ELECTRICAL	1	LOT			17.85	5 390 000			83005	1 482 000	6 872 000
17	INSTRUMENTATION					18.38	189 000			1825	35 800	234 800
	S/TOTAL										6 641 100	32 601 100
					USE		25 960 000			403 418	6 641 000	32 601 000

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CLINCH RIVER BASE CASE **ESTIMATE WORKSHEET**

M.T.O. BY EJGL PRICED BY RUF DATE AUG 1985 SHEET 1 OF 1

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION ON SITE (BAL OF PLANT)

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV 2	SITE WORK AREA 5											
	SITE WORK SUMMARY											
	AREA 5 - LIMITED, PROTECTED, & CASK MANUFACTURING											
	SUB TOTALS SH 1	0F 25				$	202,300			5964		
	2						14,528,600			207433		
	4						693,110			18338		
	7						206,590			5352		
	16						13,550			204		
	21						2,212,420			18813		
	22						71,140			3938		
	23						217,200			2903		
	24						56,380			3262		
	25	0F 25					2,137,400			52361		
	TOTAL AREA 5 - DIR COST						20,348,690			318568		
					USE	$	20,350,000					

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CLINCH RIVER Base Case ESTIMATE WORKSHEET

M.T.O. BY ENGR. PRICED BY RMF DATE AUG. '85 SHEET 1 OF 25

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY
DESCRIPTION SITE LOCATION
CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV. 2	SITEWORK AREA 5											
2010	SUBSURFACE											
2100	CLEARING											
2102	CLEARING AND GRUBBING	186	AC	1007	24		187,300			4464		
2110	DEMOLITION (Conc, 350cy)	1	LOT	LS	LS		15,000			1500		
	SUB TOTAL						202,300			5964		

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CLINCH RIVER BASE CASE **ESTIMATE WORKSHEET**

M.T.O. BY ENGR. PRICED BY RMF DATE AUG. '85 SHEET 2 OF 25

JOB NO.: 6440-11 CLIENT: DOE / PNL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV. 2	SITEWORK AREA 5											
2200	EARTHWORK											
10	FINE GRADING - EARTH (MACH)	42	AC	1878.	48.		78 880			2016		
11	EXCAVATION INCL. HAULING. EARTH	181480	CY	1.09	.01		197 810			1815		
12	EMBANKMENT - COMPACTED FILL	190560	CY	1.10	.02		209 620			3811		
13	ROCK EXCAV. & HAUL - BLASTING	1291 090	CY	4.50	.10		5 812 600			129 169		
14	ROCK EXCAV. & HAUL - RIPPABLE	∅	CY	1.70	.02							
15	ROCK EMBANKMENT - COMP - HAUL	1961965	CY	1.00	.008		1 965 000			15720		
16	CRUSHING & SCREENING & HAULING	1961965	CY	2.00	.016		3 929 900			31439		
17	DIKE (EARTH FILL) POND.	∅	CY	1.10	.02							
18	EARTH FILL AT EXISTING TUNNEL & DIKES	1020	CY	1.10	.02		1 130			20		
19A	EXCAVATION AT PONDS	3340	CY	1.09	.01		3 640			33		
19B	IMPORT	2341031	CY	1.00	.01		2 341 000			23410		
	SUB TOTAL						14 538 600			207433		

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CLINCH RIVER BASE CASE ESTIMATE WORKSHEET

M.T.O. BY ENGR. PRICED BY RLF DATE AUG. 86 SHEET 3 OF 25

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV 2	SITEWORK AREA 5											
2220	TRENCHING - Incl. DITCHES											
21	EXCAV. AND HAUL - EARTH	53800	CY	1.90	.08		102220			4304		
22	EXCAV. AND HAUL - ROCK TRENCHES	5700	CY	6.00	.15		34200			855		
22.1	1 FT DEEP FOR FOUNDATIONS	∅	CY	6.00	.15							
22.2	2 " " " "	∅	CY	6.00	.15							
22.5	VARIOUS " " ELEC. POWER LINES	∅	CY	6.00	.15							
22.6	6 FT " " PIPE, DRAINS, ETC	38110	CY	6.00	.16		228660			5717		
	SUB TOTAL (To SUM OF 25)						365080			10876		

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PARSONS

CLINCH RIVER BASE CASE **ESTIMATE WORKSHEET**

M.T.O. BY ENGR. PRICED BY RUF DATE AUG. '85 SHEET 4 OF 25

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY
DESCRIPTION SITE LOCATION
CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV. 2	SITEWORK AREA 5											
2223	BACKFILL	30600	CY	3.48	.07		106490			2142		
24	GRAVEL BEDDING	13350	CY	13.51	.09		180360			1202		
25	SHORING - EARTH TRENCH WALLS	68640	SF	0.60	.006		41180			4118		
26	SAND (PONDS)	ϕ	CY	17.40	.05							
	TRENCHING & BACKFILL (SH 3 OF 25)						365080			10876		
	SUB TOTAL						328030			7462		
							693110			18338		

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PARSONS

CLINCH RIVER BASE CASE **ESTIMATE WORKSHEET**

M.T.O. BY ENGR. PRICED BY RUF DATE AUG. '85 SHEET 2 OF 25

JOB NO.: 6440-11 CLIENT: DOE / PNL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY
DESCRIPTION SITE LOCATION
CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV. 2	SITEWORK AREA 5											
2600	SITE DRAINAGE SYSTEM											
2601	CONC. HEADWALL - REINF	27	CY	72.00	3.5		1940			95		
02	CONC. RETAINING WALL	∅	CY	72.00	3.0							
03	CATCH BASIN	80	CY	99.00	4.0		7960			320		
04	FRAMES AND GRATES	56	EA.	221.00	4.0		12540			224		
05	CLEAN OUTS	∅	EA.	80.00	2.5							
06	CONC. DITCHES 4" THK	3560	SY	7.20	.19		25630			676		
07	RIPRAP 12" THK	996	SY	10.00	.33		9960			329		
08	DITCH CHECK CONC.	∅	CY	62.40	4.0							
2609	MAN PROOF BARRIER - REINF. CONC.	4	CY	77.50	3.5		310			14		
2609.1	TACK WELDED REINF. BAR SCREEN	210	SF	1.80	.05		380			11		
2609.2	CONC. FLUMES - REINF.	25	CY	169.20	19.3		4230			483		
2611	MANHOLES - PRECAST CONC.											
2611.1	9'-0" DEEP - 4' DIA.	18	EA.	690.	27		12420			486		
.2	10'-0" "	∅	EA.	760.	30							
.3	6'-0" " - 4' DIA.	17	EA.	600.	25		10200			425		
	SUB TOTAL (TO SH TOP 25)						85570	-		3063	-	

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CLINCH RIVER BASE CASE — ESTIMATE WORKSHEET

M.T.O. BY ENGR. | PRICED BY RUF | DATE AUG. '85 | SHEET 6 OF 25
JOB NO.: 6440-11 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY
UNIT/AREA MRS FACILITY
DESCRIPTION SITE LOCATION
CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE			SUBCONTRACT			LABOR			TOTAL DOLLARS
				MATL	M/H	LAB $				M/HRS	DOLLARS		M/HRS	DOLLARS		
DIV. 2	SITEWORK AREA 5															
2520	DRAINAGE PIPE															
2521	REINF. CONC. PIPE W/ GASKETS															
2521.06	6" DIA.	105	LF	3.50	.13			370					14			
.15	15"	1135		6.90	.16			7830					182			
.18	18"	1145		9.70	.25			11110					286			
.21	21"	0		11.20	.26											
.24	24"	415		13.30	.31			5520					129			
.30	30"	280		19.40	.37			5430					104			
.36	36"	570		21.90	.45			12480					257			
.48	48"	330		38.00	1.0			12540					330			
	ADJUST															
	SUB TOTAL (TO SH 7 OF 25)							55260					1302			

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE — **ESTIMATE WORKSHEET**

M.T.O. BY ENGR. | PRICED BY RUF | DATE AUG. '85 | SHEET 7 OF 25
JOB NO.: GAWO-11 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY
UNIT/AREA MRS FACILITY
DESCRIPTION SITE LOCATION
CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV. 2	SITEWORK AREA 5											
1522	CORRUGATED METAL PIPE											
2522.15	15" DIA	290	LF	8.00	.14		2320			41		
.18	18"	285		9.30	.15		2650			43		
.21	21"	165		13.20	.18		2180			30		
.24	24"	125		15.10	.18		1890			23		
.30	30"	195		18.50	.24		3610			47		
.36	36"	360		29.40	.47		10580			169		
.42	42"	340		37.10	.56		12610			190		
.48	48"	600		41.80	.56		25080			336		
.60	60"	ϕ		65.00	.75							
.36	36" + PERFORATED	ϕ	↓	32.00	.50							
	From SH 8 of 25						4820			108		
	From SH 5 of 25						85570			3063		
	From SH 6 of 25						55240			1302		
	SUB TOTAL						60960			879		
							206590			5352		

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CLINCH RIVER BASE CASE **ESTIMATE WORKSHEET**

M.T.O. BY ENGR. PRICED BY RUF DATE AUG. '85 SHEET 63 OF 25

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV. 2	SITEWORK AREA 5											
	DRAINAGE PIPE (CONT)											
2523	CMP END SECTIONS											
2523.15	15" DIA.	12	EA	48.00	1.6		580			12		
.18	18"	12	EA	58.00	1.7		700			20		
.21	21"	8	EA	68.50	2.0		540			16		
.24	24"	4	EA	103.00	2.2		410			9		
.30	30"	3	EA	127.00	2.3		380			7		
.36	36"	8	EA	184.50	2.8		1470			22		
.42	42"	2	EA	215.50	3.5		430			7		
.48	48"	1	EA	248.00	4.7		250			5		
.60	60" ↓	ϕ	EA	300.00	5.0							
2524	PVC PERFORATED PIPE											
2524.6	6" DIA	50	LF	1.20	0.06		60			3		
.8	8" ↓	ϕ	LF	2.00	0.07							
	SUB TOTAL (TO SH 7 OF 25)						4320			108		

CES-2000-0 (4/81)

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CLINCH RIVER BASE CASE — ESTIMATE WORKSHEET

M.T.O. BY ENGR. | PRICED BY RMF | DATE AUG. '85 | SHEET 9 OF 23

JOB NO.: 6400-11 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
	SITE WORK AREA 5											
2566	OILY SEWER SYSTEM											
	4" ϕ CS CTD/W		LF	11.00	.65							
	10" ϕ PVC OUTFALL LINE		LF	13.00	.60		→ SEE UTILITIES ACCOUNT					
	OILY SEWER COLLECTION											

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CLINCH RIVER BASE CASE — ESTIMATE WORKSHEET

M.T.O. BY ENGR. | PRICED BY RUF | DATE AUG. '85 | SHEET 10 OF 25

JOB NO.: 6440-11 | CLIENT: DOE/ORNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SITE WORK AREA 5											
2560	PROCESS SEWER SYSTEM											
	FIBERGLASS PIPE 6"Φ		LF	15.00	.4							
	" " 8"Φ		LF	23.00	.6							
	CLEAN-OUTS		EA	250.-	14							
	PACKAGE TREATMENT PLANT	1	LOT	62500	2000.-							
	INTERCONNECTING PIPING 30%	1	LOT				▶ SEE UTILITIES ACCOUNT					
	SPECIAL EQUIPMENT											
	PUMPS		EA									
	AGITATORS		"									
	SME		"									
	SUB TOTAL											

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PARSONS

CHUCK RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY ENGR. | PRICED BY RMF | DATE AUG '85 | SHEET 11 OF 25

JOB NO.: 6440-11 | CLI w/ PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SITE WORK AREA 5											
2564	WATER TREATMENT PLANT											
	TREATMENT PLANT		EA	2550								
	WATER DISTR. PUMP		EA	1500								
	FIRE WATER PUMP. ELECTRIC		EA	29000								
	" " " DIESEL		EA	35000								
	INTERCONNECTING PIPE	1	LOT									
	SUB TOTAL											

SEE SUPPORT FACILITIES "WATER TRTMT FAC

CES-2000 0 (4/81)

PARSONS

CLINCH RIVER BASE CASE ESTIMATE WORKSHEET

M.T.O. BY ENGR. PRICED BY RWF DATE AUG. '85 SHEET 12 OF 35

JOB NO.: CLINCH-II CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SITE WORK AREA 5											
2565	WATER STORAGE SYSTEM											
	WATER STORAGE TANK	1	EA.	175K			SEE UTILITIES ACCOUNT					
	TANK FOUNDATION	1	EA.	10K								
	TANK HEATER	1	EA	4K								
	INTERCONNECTING PIPE	ALLOW										
	SUB TOTAL											

CES-2000 0 (4/81)

PARSONS

CLINCH RIVER BASE CASE — **ESTIMATE WORKSHEET**

M.T.O. BY ENGR. | PRICED BY RUF | DATE AUG. 86 | SHEET 13 OF 23
JOB NO.: 6000-11 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY
UNIT/AREA MRS FACILITY
DESCRIPTION SITE LOCATION
CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SITE WORK AREA 5											
2570	SANITARY SEWAGE TREATMENT PLANT											
	SEWAGE TREATMENT PLANT	1	LOT	95 K	500							
	LIFT PUMP & SPARE INCL. INST'N	1	LOT	1.5 K	100							
	PVC PIPE											
	6" DIA		LF	9.00	.4							
	8" "		LF	16.00	.5							
	CAST IRON PIPE						SEE SUPPORT FACILITIES					
	4" DIA		LF	8.00	.6		"SEWAGE TREATMENT"					
	6" "		LF	10.00	.8							
	PVC PIPE PERFORATED											
	4" DIA.		LF	2.50	.3							
	6" DIA.		LF	4.00	.45							
	C.S. PIPE CTD/W											
	4" DIA.		LF	9.00	.6							
	6" "		LF	16.00	.8							
	SUB TOTAL											

CES-2000 0 (4/81)

PARSONS

CLINCH RIVER BASE CASE ESTIMATE WORKSHEET

M.T.O. BY ENGR. PRICED BY RUF DATE AUG. '85 SHEET 14 OF 25

JOB NO.: 6440-11 CLIENT: ORNL/PNL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SITE WORK AREA 5											
2675	SEPTIC TANKS :-											
	750 GAL. CAPACITY		EA	900.	8.0							
	6250 " "		EA	2800.	19.0							
	7500 " "		EA	3360.	19.0							
	DOSING TANK - 324 GAL.		EA	190.	8.0							
	" " - 603 GAL.		EA	280.	9.3							
	DISTRIBUTION BOXES - 12 OUTLETS		EA	180.	8.0							
	SIPHONS		EA	70.	2.0							
	ROOFING PAPER 30# FELT		SF	.10	.01							
	SAND		CY	17.40	.05							
	SUB TOTAL											

SEE SUPPORT FACILITIES "SEWAGE TREATMENT"

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE — ESTIMATE WORKSHEET

M.T.O. BY ENGR. | PRICED BY RUF | DATE AUG '85 | SHEET 15 OF 25

JOB NO.: 6440-11 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SITE WORK AREA 5											
2576	GASOLINE & DIESEL FUEL SYSTEM											
	FUEL OIL DISTRIBUTION ..											
	1" Φ C.S. PIPE CTD/W		LF	2.75	.35							
	½" Φ		LF	2.50	.30							
	1½" Φ		LF	3.00	.35		↓ SEE UTILITIES ACCOUNT					
	2" Φ		LF	4.00	.40							
	3" Φ		LF	5.00	.48		"DIESEL FUEL SYS"					
	SAND		CY	17.40	.05							
	SUB TOTAL											

CES 2000 0 (4/81)

5-12

PARSONS

CLINCH RIVER BASE CASE — **ESTIMATE WORKSHEET**

M.T.O. BY ENGR. | PRICED BY RUF | DATE AUG. '85 | SHEET 16 OF 35

JOB NO.: GWHO-11 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE			SUBCONTRACT				LABOR				TOTAL DOLLARS		
				MATL	M/H	LAB $				M/HRS	DOLLARS			M/HRS	DOLLARS					
DIV. 2	SITEWORK AREA 5																			
2577	MEMBRANE LINER 1.5 mm THK.	17190	SF	.14	.01			2	410					172						
2226	SAND	640	CY	17.50	.05			11	140					32						
	SUB TOTAL							13	550					204						

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASIS CASE

ESTIMATE WORKSHEET

M.T.O. BY ENGR. PRICED BY RUF DATE AUG. 85 SHEET 17 OF 25

JOB NO.: 6444O - 11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
	SITE WORK AREA 5											
2578	DISPENSING SYSTEM											
	FUEL TANK U.G.											
	5000 GAL		EA.				} SEE	VEHICLE MAINTENANCE				BLDG
	10000 "		EA.									
	SUB TOTAL											

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE — **ESTIMATE WORKSHEET**

M.T.O. BY ENGR. | PRICED BY RUF | DATE AUG. '85 | SHEET 18 OF 35

JOB NO.: CONCEPT-II | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SITE WORK AREA 5											
2580	NATURAL GAS SYSTEM											
	C.S. PIPE CTD/W 1" ϕ		LF	2.80	.32							
	1½" ϕ			3.00	.40							
	2" ϕ			4.00	.40							
	3" ϕ			5.00	.48							
	4" ϕ			11.00	.65							
	6" ϕ		↓	25.00	.80		▶ SEE UTILITIES ACCOUNT					
	PRE-CAST CONC. METER BOX & COVER		EA.	490-	9							
	4" METER & PRESSURE REDUCER		EA	1000-	2							
	SUB TOTAL											

CES 2000-0 (4/81)

5-04

PARSONS

CLINCH RIVER BASE CASE — **ESTIMATE WORKSHEET**

M.T.O. BY	ENGR.	PRICED BY	RLF	DATE	AUG. '85	SHEET 19 OF 35
JOB NO.:	G4410-11	CLIENT:	DOE/PNL	TYPE OF ESTIMATE	ROM	CHECKED BY
UNIT/AREA	MRS FACILITY					
DESCRIPTION	SITE LOCATION					
CAPACITY						

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SITE WORK AREA 5											
2582	COOLING WATER											
	CS PIPE CTD/W 6"ϕ STD.		LF	25.	.80		SEE UTILITIES ACCOUNT "COOLING TOWER"					
	20"ϕ			100.	2.7							
	24"ϕ			120.	3.2							
	SUB TOTAL											

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY ENGR. PRICED BY RUF DATE AUG. '85 SHEET 20 OF 25

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SITE WORK AREA 5											
2584	STEAM GENERATION											
	CS PIPE XS 3"Φ		LF	5.00	.48							
	XS 14"Φ W/INSUL.		LF	110-	3.2							
							▶ SEE STEAM GEN. BLDG "FACILITIES"					
2586	DEIONIZED WATER											
	SS PIPE 1½"Φ		LF									
2590	AIR DISTRIBUTION SYSTEM											
	CS PIPE CTD/W ¾"Φ GALV.		LF	3.00	.32							
	SUB TOTAL											

CES-2000-0 (4/81)

AREA 5
BASE CASE

PARSONS
ESTIMATE WORKSHEET

M.T.O. BY ENGR. PRICED BY RUF DATE AUG 1985 SHEET 21 OF 23
JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY RCM/RJ
UNIT/AREA MRS FACILITY
DESCRIPTION SITE LOCATION - ONSITE BAL OF PLANT
CAPACITY AREA -

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DUZ	SITE WORK AREA #5											
2600	ROADS & PAVING											
2612	ASPHALT CONC PAVING	—										
2612.03	3" THK	17490	SY	4.80	.06		83 950			1049		
2612.05	5" THK	78360	SY	8.70	.09		626 880			7052		
2613	CONCRETE PAVING	—										
2613.04	4" THK	3960	SY	7.00	.05		27 720			198		
.08	8" (	520	SY	15.00	.07		7 800			36		
.09	9")	2720	SY	15.70	.07		41 340			190		
2613.12	12" THK	4150	SY	19.80	.09		82 590			374		
2614	CRUSHED ROCK (GRAVEL) PAVING		CY	15.00	.06							
2614.2	2" THK	307600	SY	.80	.01		246 080			3076		
.12	12" (	69590	SY	5.00	.02		347 950			1392		
.13	13")	0	SY	5.50	.03							
2619.15	15" THK	0	SY	6.50	.03							
2615.09	9" GRAVEL BASE	18980	SY	3.00	.02		72 120			380		
2615.12	12" THK GRAVEL BASE	0	SY	4.05	.02							
2615.13	13" THK GRAVEL BASE	102510	SY	5.50	.03		563 805			3075		
2616	SUB BASE - COMPACTED GRAVEL	—										
2616.06	6" THK	0	SY	2.50	.01							
2617	SUBGRADE PREP	—										
2617.06	6" (SEE 2241)	49070	SY	.36	.01		17 670			491		
2617.12	12" (")	150020	SY	.63	.01		94 510			1500		
	SUB TOTAL THIS PAGE						2 212 420			18813		

CES-2000-0 (4/81)

AREA 5

BASE CAMP

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY ENGR. PRICED BY RUF DATE AUG 1985 SHEET 22 OF 25

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY RCM/RF

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION - ONSITE BAL OF PLANT

CAPACITY AREA -

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV 2	SITE WORK AREA #5											
	ROADS & PAVING (CONT)											
	CONC. CROSS GUTTER (2' WIDE)	306	LF	18.00	.65		3970			198		
2618	CONC CURBS	3565	LF	5.40	.21		19250			749		
2619	CONC CURB & GUTTER	15720	LF	6.25	.42		35750			2402		
2620	CONC STAIRS	2	CY	120.00	16.4		160			33		
2622	PAVEMENT STRIPING	21970	LF	.06	.01		1320			220		
2623	PAVEMENT MARKINGS	295	SY	9.45	.72		2790			212		
2626	SIGNS	50	EA	48.00	.74		2400			37		
2628	PRECAST CONC BUMPERS	—										
2628.4	4 FT	0	EA	12.00	.33							
.8	8 FT	153	EA	24.00	.41		3670			63		
2628.12	12 FT	48	EA	36.00	.50		1730			24		
	SUB TOTAL THIS PAGE						71140			3938		

CES-2000-0 (4/81)

AREA 5

BASE CASE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY ENGR. PRICED BY RWF DATE AUG 1985 SHEET 23 OF 33

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY RCM/RS

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION - ONSITE BAL OF PLANT

CAPACITY AREA -

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
002	SITE WORK AREA #5											
2700	SITE IMPROVEMENTS											
2710	FENCES - CHAIN LINK W/3 STR B/W	—										
2710.8	8'-0 HIGH	19145	LF	3.62	.12		183790			2297		
2710.6	6'-0" HIGH CHAIN LINK	1750	LF	7.70	.12		13560			210		
2711	FENCE - BARB WIRE 4'-6 HIGH	0	LF	5.62	.07							
2714	GATES - MOTORIZED 8'-0 HIGH	—										
2714.24	24'-0	6	EA	2100	36.0		12600			216		
2714.30	30'-0	1	EA	2300	36.0		2300			36		
2714.40	40'-0	0	EA									
2715	GATES - DBL SWING 8'-0 HIGH	—										
2715.24	24'-0	0	PR	800	24.0							
2715.30	30'-0	0	PR	1000	24.0							
2716.40	40'-0'	1	PR	2250	24.0		2250			24		
2716	GATES - SINGLE SWING 8'-0 HIGH	—										
2716.12	12'-0	3	EA	400	20.0		1200			60		
2716.20	20'-0	3	EA	500	20.0		1500			60		
2717	GATES - PERSONNEL 8'-0 HIGH	—										
2717.1	3'-6"	0	EA	50*	4.0							
	SUB TOTAL THIS PAGE						271200			2903		

CES-2000-0 (4/81)

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AREA 5

BASE CASE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY ENGR. PRICED BY RUF DATE AUG 1985 SHEET 24 OF 25

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY Rm 1/2

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION - ONSITE BAL OF PLANT

CAPACITY AREA -

ACCNT DIN 2		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SITE WORK AREA #5											
	SITE IMPROVEMENTS (CONT)											
2790	PIPE RAILING 1½" DIA	325	LF	21.03	.13		6830			42		
2790	CONCRETE (MISCELLANEOUS)											
2791	CONC DITCHES 4" (SEE 2507)		SY	7.21	.19							
2792	CONC FDNS - REINF	0	CY	62.45	4.0							
	RETAINING WALL AT LOADING DOCK	37	CY	169.	19.3		6260			714		
2793	CONC SUPPORT PADS - REINF - FOR CASKS (CAT. I STRUCTURE)	0	CY	64.00	2.0							
2796	CONC TRENCH (STEAM LINE)	100	CY	169	19.3		16900			1930		
2796.1	CHECK PLATE COVER ½"	1200	SF	22.00	.48		26400			576		
2794	TRANSPORTABLE METAL CASK FDNS											
2794.1	CONC - REINF	0	CY	131.00	24.0							
2794.2	½" S.S. LINER W/ NELSON STUDS	0	SF	11.00	.51							
2795	DRYWELL HOLE DRILLING	—										
2795.1	EXCAVATION EARTH	0	CY	16.80	1.45							
.2	GROUT	0	CY	55.00	INCL ABOVE							
2795.3	CONC COLLARS - REINF	0	CY	76.00	3.5							
	SUB TOTAL THIS PAGE						56380			3262		

CES-2000-0 (4/81)

AREA 5

BASE CASE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY ENGR. PRICED BY RUF DATE AUG 1985 SHEET 25 OF 33

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY RSM/RS

UNIT/AREA MRS FACILITY

DESCRIPTION SITE LOCATION - ONSITE BAL OF PLANT

CAPACITY AREA -

ACCNT DIV 2		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SITE WORK AREA #5											
2800	LANDSCAPING	12050	SY	9.45	.28		113 870			3374		
2801	LANDSCAPING & IRRIGATION		SY	10.00	.36							
	GRASS SEEDING	205720	SY	0.08	0.001		16 460			206		
2850	RAILROAD WORK											
2851	RAIL - SINGLE (34,200 LF-4)	68400	LF	10.75	.42		735 300			28728		
2852	TIES	20520	EA	16.35	.53		335 500			10876		
2853	BALLAST	18130	CY	13.95	.06		252 910			1088		
2854	SUB BALLAST	17000	CY	13.13	.05		223 210			850		
2855	SUB GRADE PREP 6"	69090	SY	.36	.01		24 870			691		
2856	SWITCH	33	EA	12110	96.0		399 630			3168		
2857	RAIL CROSSING (RAIL)	0	EA	113,000	132.0							
2858	RAIL CROSSING (ROAD) 9'-0 WIDTH	1120	LF	30.00	3.0		33 600			3360		
2859	WHEEL STOPS	10	EA	205.00	2.0		2050			20		
	SUB TOTAL THIS PAGE						2 137 400			52361		
	TOTAL AREA #5						(28 252 360)			(412748)		

CES-2000-0 (4/81)

CLINCH RIVER BASE CASE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY ENGINEERING PRICED BY V. MESA DATE AUG. 85 SHEET ___ OF ___

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY RJ

UNIT/AREA MRS. FACILITY

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY

ACCNT DIV.		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
	AREA # 5											
3	SUMMARY CONCRETE											
	ALL CONCRETE FOR ROADS ETC. IS INCLUDED IN SITE WORK.											

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY D.L. SCHLOSSER PRICED BY DATE 8/1/85 SHEET ____ OF ____

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY Rem/RO

UNIT/AREA MRS FACILITY

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY AREA #3

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV 11	YARD EQUIPMENT											
11550	· INDUSTRIAL EQUIPT											
11550	LIGHTING TRAILERS	2	EA	9K	8		18000			16		
	TOW STYLE FOUR WHEEL TRAILER UNIT EQUIPPED A GAS DRIVEN PORTABLE ELECTRIC GENERATOR UNIT, AND FOUR ADJUSTABLE STAND STYLE FLOODLIGHT UNITS ELECTRIC POWER PACK CAPABLE OF 5000 WATT OUTPUT FOR 120/240 VOLTS, 60 HZ POWER COMPLETE WITH BATTERY AND SOLID STATE IDLE CONTROLS,											
	LAMPS TO BE 300 WATT REFLECTOR INCANDESCENT EXPLOSIVE PROOF.											
	MTG. HWDE. & FRT (15%)	2	EA				2700					
	S/TOTAL	2	EA				20700			16		
	USE						21000					

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY ENGINEERING PRICED BY V. MESER DATE AUG. 95 SHEET ____ OF ____

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY Rem / RS

UNIT/AREA MRS. FACILITY

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY

ACCNT DIV.		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	AREA # 5											
16	SUMMARY ELECTRICAL											
16110	POWER DIST. B.G.	1	LOT				2 [illegible]			5445		
16200	POWER GENERATION EQ.						INCLUDED W/ STAND			BY GEN. BLDG.		
16400	SERVICE DISTRIBUTION	1	LOT				107[illegible]			2153		
16500	LIGHTING, WIRE, CONDUIT	1	LOT				54000			7250		
16550	GROUNDING	1	LOT				32000			787		
16604	SECURITY ALARM	1	LOT				38[illegible]000			6665		
16605	SEISMIC MONITORING	1	LOT				45000			696		
16700	COMMUNICATIONS UHF RADIO	1	LOT				269000			1257		
16700	" PHONE TRUNK	1	LOT				89[illegible]00			2730		
16900	INSTRUMENTATION CONDUIT & WIRE	1	LOT				150000			7062		
16	S/TOTAL						5 [illegible]0[illegible]00			83005		

CES-2000-0 (4/81)

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J. DATE AUG-85 SHEET 1 OF 1

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY RMW/RD

UNIT/AREA HTR CONTROL FOR WATER

DESCRIPTION STORAGE TANK ONSITE BAL OF PLANT

CAPACITY MRS. FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV 46	ELECTRICAL AREA-5											
16110	POWER DIST. BG.											
	SHT 1 OF 3						59000			1018		
	2 OF 3						39000			246		
	3 OF 3						133000			2749		
	SHTS 1 THRU 11						2064000			44697		
	SHTS 1 THRU 4						504000			5437		
	SHT 1 OF 1						10000			268		
16110	S/TOTAL						2799000			54415		

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J. DATE AUG-85 SHEET 1 OF 3

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY RCM/PS

UNIT/AREA HTR WATER STORAGE TANK

DESCRIPTION HEATER CONTROL ONSITE BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV 16	ELECTRICAL ANGAS											
16110	EXCAVATION 2000x1x5/27	370	C.Y	6	.15		2220			56		
	CONCRETE DUCT 2000x1x1/27	74	C.Y	55	.5		4070			37		
	BACKFILL	300	C.Y	3.5	.07		1050			21		
	6"ϕ PVC.	2000	LN	4.1	.2		8200			400		
	SPACERS 2000x2/10	400	E	.75	.05		300			20		
	500 MCM 2000x3x1.1	6600	LF	5.44	.059		35900			389		
	4/0 GRND 2000x1x1.1	2200	LF	1.8	.036		3960			79		
	CABLE TERM. 4x2=	8	E	15	2		120			16		
							55,820			1018		
					USE		~~55,820~~ 57000					

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J. J. PRICED BY J. J. DATE AUG-85 SHEET 2 OF 3

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE Rom CHECKED BY

UNIT/AREA HTR WATER STORAGE TANK

DESCRIPTION HEATER S.S. ONSITE BAL OF PLANT

CAPACITY MR3 FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DWG	ELECTRICAL AREAS											
16110												
	PRIMERY AIR INTER. SW.	1	E	7870	45		7870			45		
	1000 KVA XFMR.	1	E	15950	80		15950			80		
	HEATER CONTROL #4 CONT.	1	E	2000	15		2000			15		
	#500 MCM FEEDER 110 x 3	330	LF	5.44	.059		1800			20		
	4" ϕ RGS. COND.	100	LF	8.01	.44		800			44		
	FITTING & SUPPORT	50%	-	-	-		400			22		
	CABLE TERM. @ CONTR & HTR	8	E	15	2		120			16		
	4/0 GRND CABLE	110	LF	1.8	.036		200			4		
							29,140			246		
					USE		29000					

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J. DATE AUG 85 SHEET 3 OF 3

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA CONTROL FROM R&H TO SECUR.
DESCRIPTION ONSITE BAL OF PLANT
CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV. 46	ELECTRICAL AREA-5											
16110	EXCAVATION $\frac{2550 \times 3 \times 2}{27}$	945	C.Y.	6	.15		5670			142		
	CONCRETE $\frac{2550 \times .9 \times 2}{27}$	170	C.Y.	55	.5		9350			85		
	BACKFILL 945-170 =	775	C.Y.	3.5	.07		2710			54		
	4"ϕ PVC. 2550 x 3	7650	LF	2.25	.12		17210			918		
	SPACES. $\frac{2650}{10} \times 6$	4590	E	.75	.05		3440			230		
	#6 SO PR #16 2600 x 6	15,600	LF	6-	.075		93,600			1170		
	WIRE TERM.	600	E	1-	.25		600			1500		
	TOTAL						132,580			2749		
					W&B		133000					

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY JJT DATE AUG-85 SHEET 1 OF 12

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE Rom CHECKED BY Rem Tak

UNIT/AREA 5KV DUCTBANK & FEEDERS

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV. 16	ELECTRICAL AREA 5											
	SUMMARY											
T6110	DUCTBANK, FEEDERS & MANHOLES											
	SUBTOTAL SH-2						141250			5038		
	3						223,790			2567		
	4						169,720			5706		
	5						237,270			2661		
	6						364,940			14043		
	7						152,960			3157		
	8						484,940			5500		
	9						156,610			2459		
	10						14,470			584		
							118,810			2982		
	TOTAL						2,068,760			44,697		
					USE		2064000					

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY N.J | PRICED BY N.J | DATE AUG-85 | SHEET 2 OF 11

JOB NO.: 6440-11 | CLIENT: PNL-DOE | TYPE OF ESTIMATE Rom | CHECKED BY Rom

UNIT/AREA 5KV DUCTBANK & FEEDERS

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DW.16	ELECTRICAL AREA 5											
16110	DUCTBANK SS-07 SS-08 TO SS-09 SS-11											
	6"φ PVC 750 X 18 =	13,500	LF	4.1	.2		55,350			2700		
	6"φ PVC 550 X 9 =	4950	LF	4.1	.2		20,300			990		
	6"φ PVC BELL 18X9 =	162	E	5	1.2		810			195		
	6"φ PVC ELB.	36	E	45	2.5		1620			90		
	SPACERS $\frac{2600}{10} \times 12$ =	3120	E	.75	.05		2340			156		
	BARS FOR SPACERS 260X2	520	E	3	.05		1560			26		
	TRENCHING $\frac{5 \times 8 \times (750+275)}{27}$	1520	C.Y.	6	.15		9120			228		
	CONCRETE $\frac{2.5 \times 2.5 \times 2050}{27}$	475	C.Y	55	.5		26,130			238		
	BACKFILL 1520 - 475	1045	C.Y	3.5	.07		3,660			73		
	MANHOLES	4	E	3770	20		15080			80		
	EXCAVAT. FOR MANHOLE	4	E	1300	65		5200			260		
	BACKFIL 6x4	24	CY.	3.5	.07		80			2		
	TOTAL						141,250			5038		

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

CLINCH RIVER BASE CASE

M.T.O. BY J.J. PRICED BY J.J DATE AUG-85 SHEET 3 OF 11

JOB NO.: 6440-11 CLIENT: PNL - DOE TYPE OF ESTIMATE Rom CHECKED BY

UNIT/AREA 5KV DUCTBANK & FEEDERS

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY MRS UTILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV. 16	ELECTRICAL AREAS											
16110	FEEDER SS-07 SS-08 SS-09 SS-11											
	E 500MCM 5KV 1050X3	3150	LF	5.44	.059		17140			186		
	R " " "	3150	LF				17140			186		
	Y " " "	3150	LF				17140			186		
	J " " "	3150	LF				17140			186		
	U " " "	3150	LF				17140			186		
	F " " 1400X3	4200	LF				22850			248		
	K " " "	4200	LF				22850			248		
	X " " "	4200	LF				22850			248		
	G " " "	4200	LF				22850			248		
	S " " "	4200	LF				22850			248		
	W " " "	4200	LF				22850			248		
	500MCM TERMINATION 11 X 6 =	66	E	15	2.-		990			132		
	TESTING 11 EA FEEDERS	11	E	-	1.5		-			17		
							223790			2567		

CES-2000-0 (4/81)

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.N.J. PRICED BY N.J.J DATE AUG-95 SHEET 4 OF 11

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY Bemplow

UNIT/AREA SKN DUCTBANK & FEEDERS

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV. 16	ELECTRICAL AREAS											
16110	DUCTBANK SS-04 SS-05 TO SS-10											
	6" ϕ PVC 1870 x 9 =	16830	LF	4.1	.2		69,000			3366		
	6" ϕ PVC 930 x 4 =	3720	LF	4.1	.2		15,250			744		
	6" ϕ PVC BELL 72+28 =	100	E	5	1.2		500			120		
	6" ϕ PVC ELBOW	22	E	45	2.5		990			55		
	SPACERS $\frac{1870}{10}$ x 16	2992	E	.75	.05		2240			150		
	SPACERS $\frac{930}{10}$ x 9	838	E	.75	.05		630			42		
	SPACERS BAR HOLDERS	560	E	3	.05		1680			28		
	TRENCHING $\frac{1870 \times 4 \times 5}{27}$	1385	C.Y	6"	.15		8310			208		
	TRENCHING $\frac{930 \times 1.75 \times 5}{27}$	302	C.Y	6"	.15		1810			45		
	CONCRETE $\frac{1870 \times 2.5 \times 2.5}{27}$	433	C.Y	55	.5		23820			217		
	CONCRETE $\frac{930 \times 1.75 \times 1.75}{27}$	106	C.Y	55	.5		5830			53		
	BACKFILL 1687 - 539 =	1148	C.Y	3.5	.07		4020			80		
	MANHOLES	7	E	3770	20		26390			140		
	EXCAVATION FOR MANHOLES	7	E	1300	65		9100			455		
	BACKFILL 6X7	42	C.Y	3.5	.07		150			3		
							169720			5706		

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J | PRICED BY J.J | DATE AUG 85 | SHEET 5 OF 11

JOB NO.: 6440-11 | CLIENT: PNL - DOE | TYPE OF ESTIMATE R&M | CHECKED BY D Rem 11/5

UNIT/AREA 5 KV DUCTBANK & FEEDERS

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV 16	ELECTRICAL AREA 5											
16110	FEEDERS SS-04 SS-05 SS-10											
C	500MCM 5KV 2000 X 3	6000	LF	5.44	.059		32640			354		
M	" " "	6000	LF				32640			354		
AB	" " "	6000	LF				32640			354		
H	" " "	6000	LF				32640			354		
V	" " "	6000	LF				32640			354		
Q	10 " 2250 X 3	6750	LF				36720			398		
AA	" " "	6750	LF				36720			398		
	500MCM TERMIN.	42	E	15	2		630			84		
	TESTING 7 FEEDERS	7	E	-	1.5		-			11		
							237270			2661		

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE — **ESTIMATE WORKSHEET**

M.T.O. BY J.J. | PRICED BY J.J | DATE AUG-85 | SHEET 6 OF 11

JOB NO.: 6440-11 | CLIENT: PNL-DOE | TYPE OF ESTIMATE ROM | CHECKED BY Rem 1/3

UNIT/AREA 5 KV DUCTBANK & FEEDERS
DESCRIPTION ONSITE BAL OF PLANT
CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB$	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV. 16	ELECTRICAL AREA 5											
16110	DUCT-BANK SS-02 SS-03 TO SS-06 SS-01-1/6											
	6"ϕ PVC - 1950 x 9	17550	LF									
	1710 x 6	10260	LF									
	480 x 4	1920	LF									
	150 x 9	1350	LF									
	1200 x 6	7200	LF									
	1000 x 4	4000	LF									
	650 x 9	5850	LF									
	350 x 4	1400	LF									
	650 x 4	2600	LF									
	350 x 9	3150	LF									
	600 x 6	3600	LF									
	350 x 6	2100	LF									
	200 x 4	800	LF									
		61,780	LF	4.1	.2		253,300			12,356		
	SPACERS	9200	E	.75	10%		6900			460		
	SPACERS BAR HOLDERS	1930	E	3	10%		5790			97		
	BELLS 6"ϕ PVC.	400	E	5	1.2		2000			480		
	ELBOW 6"ϕ PVC	60	E	45	2.5		2700			150		
	MANHOLES	25	E	3770	20		94250			500		
							364,940			14043		

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J DATE AUG 85 SHEET 7 OF 11

JOB NO.: 6440-11 CLIENT: PNL - DOE TYPE OF ESTIMATE ROM CHECKED BY Rom

UNIT/AREA 5KV DUCTBANK & FEEDERS

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV. 16	ELECTRICAL AREA 5											
16110	DUCTBANK TRENCHING											
	3100 x 2.5 x 5 ÷ 27	1435	C.Y.									
	3860 x 2.5 x 4.25 ÷ 27	1520	C.Y.									
	2680 x 1.75 x 4.25 ÷ 27	740	C.Y.									
	TRENCHING	3695	C.Y.	6	.15		22,170			554		
	CONCRETE											
	3100 x 2.5 x 2.5 ÷ 27 =	718	CY									
	3860 x 2.5 x 1.75 ÷ 27	625	CY									
	2680 x 1.75 x 1.75 ÷ 27	304	CY									
	CONCRETE	1647	C.Y.	55	.5		90,590			824		
	BACKFILL											
	3695 - 1647 =	2048	C.Y.	3.5	.07		7170			143		
	EXCAVATION FOR MANHOLES											
	40 x 12 x 12 = (BY CHARLY)	25	E	1300	65		32,500			1625		
	BACKFILL FOR MANHOLES											
	25 x 6	150	C.Y.	3.5	.07		530			11		
							152,960			3157		

CES-2000-0 (4/81)

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J | PRICED BY J.J | DATE AUG-95 | SHEET 8 OF 11

JOB NO.: 6440-11 | CLIENT: PNL-DOE | TYPE OF ESTIMATE Rom | CHECKED BY D Rempke

UNIT/AREA 5KV DUCTBANK & FEEDERS

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV. 16	ELECTRICAL AREA 5											
16110	FEEDERS SS-06 SS-03 SS-01-1 SS-02											
	D 500 MCM 2100 x3	6300	LF	5.44	.059		34270			372		
	L " "	6300	LF				34270			372		
	Z " "	6300	LF				34270			372		
	A 500 MCM 3750 X 3	11250	LF				61200			664		
	A-1 3430 x 3	10290	LF				55980			607		
	AD-5 3430 X 3	10290	LF				55980			607		
	AC 1350 x 3	4050	LF				22030			239		
	AC-1 500 x 3	1500	LF				8160			89		
	B 2150 X 3	6450	LF				35090			381		
	N 2150 X 3	6450	LF				35090			381		
	A2 850 X 3	2550	LF				13870			150		
	AD-4 850 X 3	2550	LF				13870			150		
	A3 450 x 3	1350	LF				7340			80		
	AD-3 450 X 3	1350	LF				7340			80		
	A4 250 X 3	750	LF				4080			44		
	AD-2 250 X 3	750	LF				4080			44		
	A-5 1150 X 3	3450	LF				18770			204		
	AD-1 1150 X 3	3450	LF				18770			204		
	AD 1050 X 3	3450	LF				18770			204		
	500 MCM CONN. 19 X 3 X 2	114	E	15	2		1710			228		
	TESTING FEEDERS	19	E	—	1.5		—			29		
							484940			5500		

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J. DATE AUG 85 SHEET 9 OF 11

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE Rom CHECKED BY Rem 15

UNIT/AREA 5KV DUCTBANK & FEEDERS

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV. 16	ELECTRICAL AREA 5											
16110	FEEDER TO FIREWATER PUMP T/G-1-1 TG-1-1A.											
	P 500MCM 1950X3	6450	LF	5.44	.059		35,090			381		
	O " 200 X 3	600	LF	5.44	.059		3260			35		
	4/0 GRND IN DUCT BANK											
	12700 X 2	25400	LF	3.9	.063		99,060			1600		
	4,450 X 1	4,500	LF	3.9	.063		17,550			284		
	CADWELD @ MANHOLES	40	E	5	1.5		200			60		
	500 MCM. CONN.	30	E	15	2		450			60		
	TESTING FEEDERS	6	E	-	1.5		-			9		
	LOAD BANK RESISTORS	1	LS	1000	30		1000			30		
							156,610			2459		

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J. DATE AUG-85 SHEET 10 OF 11

JOB NO.: 6440-11 CLIENT: PND-DOE TYPE OF ESTIMATE Rom CHECKED BY

UNIT/AREA 480V FEEDER & DUCTBANK

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV. 16	ELECTRICAL AREA 5											
16110	L/C-02-1A L/C-02-2A L/C-01-3-2A L/C-02-4-4 L/C-01-2-1A L/C-01-4-1A F.O. PUMP HSE											
	4" ϕ PVC.	600	LF									
		250	LF									
		250	LF									
		250	LF									
		50	LF									
		600	LF									
		200	LF									
		50	LF									
		2250	LF	2.40	.12		5060			270		
	SPACERS	400	E	.5	.1		200			40		
	TRENCHING	100	C.Y	E	.15		600			15		
	CONCRETE	50	C.Y	55	.5		2750			25		
	FILL	50	C.Y	3.5	.07		180			4		
	4" ϕ BELLS	18	E	3.3	.85		60			15		
	4" ϕ ELBOW	13	E	15	1.8		200			24		
	4/0 GRND CABLE	1200	LF	1.8	.036		2160			43		
	#2 TYP. FEEDERS	5750	LF	.55	.02		3160			115		
	WIRE CONNECT. #2	24	E	3	.75		70			18		
	CADWELD	6	E	5	1.5		30			9		
	TESTING ALL	24	E	—	.25		—			6		
							14,470			584		

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PARSONS

ESTIMATE WORKSHEET

CLINCH RIVER BASE CASE

M.T.O. BY N.J. PRICED BY N.J. DATE AUG 85 SHEET 11 OF 11

JOB NO.: 6440-11 CLIENT: PND-DOE TYPE OF ESTIMATE ROM CHECKED BY Rem/RS

UNIT/AREA UTILITY SUPPORT BLDGS

DESCRIPTION FEEDERS & DUCT BANK

CAPACITY MRS FACILITY BAL OF PLANT

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECTRICAL AREAS											
16110	ADMINSTR TO MAIN GATE	250	LF									
	SECURITY BLD TO WEIGHT ST.	900	LF									
	" TO WATER TREAT	300	LF									
	" TO FIRESTATION	100	LF									
	" TO SEWAGE TREAT	200	LF									
	" TO SITE SERVICES	300	LF									
	" TO PAINT SHOP	300	LF									
	WAREHOUSE TO HELIPORT	1700	LF									
	SF. HLW. STORAGE TO GATE HSF	300	LF									
	STANDBY GEN. TO SS-05-1	2100	LF									
	SS-05-1 TO SS-05-3	1500	LF									
		8000										
	TRENCHING 8000×.85×3 ÷27 =	755	C.Y	6	.15		4530			113		
	CONCRETE DUCT 8000×.25×.85÷27	215	C.Y	55	.5		11830			108		
	BACK FILL 755-215 =	540	C.Y	3.5	.07		1890			38		
	4" ϕ PVC COND	8000	LF	2.25	.12		18000			960		
	FITING & SUPPORT 25%	—	—	—	—							
	250 MCM FEEDERS 8000 × 1.30 × 3 =	31200	LF	2	.041		62,400			1279		
	GRND 4/0 8000×1.3 =	10400	LF	1.8	.036		18720			374		
	WIRE TERMINAT. 11×8	88	E	5	1		440			88		
	TESTING ALL FEEDERS	11	E	—	2		—			22		
							117810			2982		

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J. DATE AUG-85 SHEET 1 OF 4

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY Rom RS

UNIT/AREA 161 & 15 KVA DUCT BANK &

DESCRIPTION FEEDERS ONSITE BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DW 16	ELECTRICAL AREA-5											
16110	161 KV & 15 KV. FEEDERS AT CONC. DUCT BANK											
	SUBTOTAL SH 2						198,920			2030		
	3						63,970			2190		
	4						241,600			1217		
	TOTAL						$504,490			$437		
					USE		$504,000					
	TOTAL											

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY N.J | PRICED BY N.J | DATE AUG-85 | SHEET 2 OF 4

JOB NO.: 6440-11 | CLIENT: PNL-DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA 161 & 15 KVA CONC. DUCTBANK & FEEDER ONSITE BAL of PLANT

DESCRIPTION

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV. 16	ELECTRICAL AREA 5											
16110	POWER DUCT 161 KV.											
	CONC. DUCT. $\frac{1700 \times 2.5 \times 1}{27}$	160	C.Y.	55	.5		8,800			80		
	EXCAV. $\frac{1700 \times 2.5 \times 3.5}{27}$	550	CY.	6	.15		3300			83		
	BACK FILL 550 − 160 =	390	CY	3.5	.07		1370			27		
	6" PVC. PIPE 1700 × 3 =	5100	LF	4.1	.2		20910			1020		
	6" PVC ELB.	6	E	45	25		270			15		
	6" SPACERS $\frac{1700 \times 6}{10}$	1020	E	.75	.05		770			51		
	½" BAR FOR SPACERS 170 × 2	340	E	3	.05		1020			17		
	242 KV. OIL FILLED CABLE 1700 × 1.03 × 3	5250	LF	20.86	.1		109520			525		
	POTHEADS	6	E	7000	20		42000			120		
	MANIFOLD	1	E	2500	10		2500			10		
	RESEVOIRS	1	E	7500	20		7500			20		
	ALARM SYSTEM	1	E	800	30		800			30		
	TERMINATION	8	E	20	4		160			32		
							198920			2030		

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER EASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J. DATE AUG-85 SHEET 3 OF 4

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA 161 & 15 KVA DUCT BANK &

DESCRIPTION FEEDERS ONSITE BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV 16	ELECTRICAL AREA 5											
16110	POWER DUCT & MANHOLES 13.8 KV.											
	EXCAVATION $\frac{2'-6" \times 3'-5" \times 2750}{27}$	890	CY	6	.15		5340			134		
	CONCRETE DUCT BANK $\frac{2'-6 \times 1 \times 2750}{27}$	255	CY	55	.5		14,030			128		
	BACK FILL 890-255 =	635	CY	3.5	.07		2220			45		
	6" ϕ PVC PIPES 2750 X3 =	8250	LF	4.1	.20		33,830			1650		
	6" ϕ ELS.	12	E	45	2.5		540			30		
	6" ϕ BELLS	6	E	5	1.2		30			7		
	6" SPACERS 10'-0.C. $\frac{2750 \times 6}{10}$ =	1650	E	.75	.05		1240			83		
	1/2" BAR SPACER HOLDER	550	E	3	.05		1650			28		
	8'.X10' X 8' CONC. MANHOLE WITH COVER & INSIDE UNISTR.	1	E	3770	20		3770			20		
	EXCAVAT. FOR MANHOLE	1	E	1300	65		1800			65		
	BACKFILL	6	C.Y.	3.5	.07		20			—		
	TOTAL						63,970			2190		

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J. DATE AUG-85 SHEET 4 OF 4

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY RCM/RO

UNIT/AREA 161 & 15 KVA DUCT BANK & DESCRIPTION FEEDERS ONSITE BAL OF PLANT CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV. 16	ELECTRICAL AREA 5											
16110	13.8 KV CABLE											
	2750 x 1.03 x 3 = 500 MCM	8,500	LF	20.86	.1		177,310			850		
	GRND CABLE 2750 x 1.03	2830	LF	4	.05		11,320			142		
	CABLE TERMINAT.	8	E	20	4		160			32		
	TESTING CABLE 3 x 3 =	1	LS	-	9		-			9		
	CADWELD GRND @ MANHOLE	2	E	5	2		10			4		
	POT HEADS	6	E	7000	20		42000			120		
	MANIFOLD	1	E	2500	10		2500			10		
	RESEVOIR	1	E	7500	20		7500			20		
	ALARM SYSTEM.	1	E	800	30		800			30		
	TOTAL						241,600			1217		

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J DATE AUG-85 SHEET 1 OF 1

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY J.J Rem/AS

UNIT/AREA HELIPORT

DESCRIPTION R&H BLDG., BAL OF AREA

CAPACITY MRI FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECTRICAL AREA 5											
16110	TRENCH WAREHOUSE TO HELIPORT 350 x 2.5 x 1 / 27	45	C.Y	42	2.2		1890			99		
	CONCR. DUCT 350 x 1 x 1 / 27	13	C.Y	55	.5		720			7		
	BACKFILL	22	C.Y	35	.07		80			2		
	4" ϕ PVC PIPE	350	LF	2.25	.12		790			42		
	FITTING & SUPPORT	50%	-	-	-		400			21		
	FEEDER 350 x 4 = 1400 x 1.1 #8	1540	LF	.25	.011		390			17		
	LIGHT FIXTURE	6	E	400	5		2400			30		
	UNDER GRND FIXT. HOLDER	6	E	400	5		2400			30		
	SWITCH IN WAREHOUSE CONDUIT & WIRES	1	LS	500	20		500			20		
	TOTAL						9570			268		
	/					USE	10000					

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY N.N. PRICED BY N.N. DATE AUG-85 SHEET 1 OF ____

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM. CHECKED BY Rem/LK

UNIT/AREA 161 KVA & 13.8 KVA XFMRS

DESCRIPTION SUB STATION BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV. 16	ELECTRICAL AREA 5											
16400	SWGEARS & GENERATORS SUMMARY											
	S/TOTALS						881480			1220		
	"						194590			933		
	TOTAL						1076070			2153		
					USE		1076000					
	TOTAL											

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J | PRICED BY J.J | DATE AUG-85 | SHEET 2 OF ___

JOB NO.: 6440-11 | CLIENT: PNL-DOE | TYPE OF ESTIMATE ROM | CHECKED BY Plowman

UNIT/AREA 161 KVA & 13.8 XFMRS SUB

DESCRIPTION STATIONS: ONSITE BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
016	ELECTRICAL AREAS											
16100	13.8 KV & 161 KVA H-3-56976											
	DISC. SW. 242 KV 1600A 70 KA MOM 3P. GANG OPERATED	4	E	9M	65		36,000			260		
	POWER CIRC. BRKR 242 KV 2000A 63 KA SYM. RMS IC	2	E	179M	250		358,000			500		
	TRANSF. "T2" 15/18.5/21 MVA OA/FA 55°/65° 13.8-4.16 KV 3 ϕ.	1	E	166.6M	110		166,680			110		
	TRANSF "T1" 15/18.5/21 MVA 55°/65° 161-4.16 KV. 3 ϕ	1	E	320M	300		320,000			300		
	1 GROUNDING WELL	4	E	120	9.2		480			37		
	GRND CABLE, CLAMP CADWELD	4	E	80	3.25		320			13		
	Σ TOTAL						881,480			1220		

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J. DATE AUG-85 SHEET 1 OF

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY Rem/RS

UNIT/AREA SUPPORT BLDG'S

DESCRIPTION SWGEAR & XFMRS BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV. 16	ELECTRICAL AREA-5											
16400												
	SKN OIL SWITCHES W/FUSES.	7	E	800	30		56,000			210		
	1500 KVA XFMR CONCRETE CASK	1	E	18870	80		18870			80		
	1500 KVA XFMR " "	1	E	18870	80		18870			80		
	1000 KVA XFMR SITE SERVICE	1	E	15950	80		15950			80		
	500 KVA XFMR ADMINISTRAT.	1	E	12,300	58		12,300			58		
	500 KVA XFMR VEHICLE MAIN	1	E	12,300	58		12,300			58		
	500 KVA XFMR SECURITY	1	E	12,300	58		12,300			58		
	500 KVA XFMR "	1	E	12,300	58		12,300			58		
	300 KVA XFMR PROTECTED AREA	1	E	6,280	54		6,280			54		
	112.5 KVA XFMR INSPECT. GATE	1	E	3240	39		3,240			39		
	75 KVA XFMR WAREHOUSE	1	E	2570	23		2570			23		
	PRIMERY SWITCHES.	3	E	7870	45		23,610			135		
	∑ TOTAL						194,590			933		

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J.	PRICED BY J.J.	DATE AUG-85	SHEET 1 OF 1
JOB NO.: 6440-11	CLIENT: PNL-DOE	TYPE OF ESTIMATE ROM	CHECKED BY JKP

UNIT/AREA: ROAD & STREET LIGHTING
DESCRIPTION: ONSITE BAL OF PLANT
CAPACITY: MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DW 16	ELECTRICAL AREA 5											
16500												
	TOTAL						542,200			7,250		
					USE		542,000					

$$\frac{798,250 \times 7,200,000}{10,600,000}$$

$$\frac{10,676 \times 7,200,000}{10,600,000}$$

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CLINCH RIVER BASE CASE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY NJV. PRICED BY J.J. DATE AUG-85 SHEET 1 OF 2

JOB NO.: 6448-11 CLIENT: PNL-DOE TYPE OF ESTIMATE Rom CHECKED BY

UNIT/AREA ROAD & STREET CLINCH RIVER

DESCRIPTION AREA LIGHTING ALL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV 16	ELECTRICAL 5&6											
16500	STREET & STORAGE LIGHTING											
	SUB TOTAL SH # 2						681,120			4431		
	SUB TOTAL SH # 3						117,130			6245		
	TOTAL						798,250			10,676		

REFERENCE ONLY
BACK UP IN AREA 6

CES-2000-0 (4/81)

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY N.J. PRICED BY N.J. DATE AUG-85 SHEET 1 OF 3

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA AREA#5 — CLINCH RIVER

DESCRIPTION GROUNDING GRID BALANCE OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV 6	ELECTRICAL AREA 5											
16550	GROUNDING											
	4/0 GRND CABLE	13,500	LF	1.8	.036		24,300			486		
	TRENCH'G .5 x 2 x 12,500/27	463	C.Y	6	.15		2780			69		
	BACKFILL	463	C.Y	3.5	.07		1620			32		
	GROUND'G WELL	30	E	100	4		3000			120		
	CADWELD	80	E	2	1		160			80		
	TOTAL						31860			787		
					USE		32000					

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J. DATE AUG 83 SHEET 3 OF 3

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE Rom CHECKED BY J Rem 1/25

UNIT/AREA GENERAL AREA CLINCH RIVER

DESCRIPTION GENERAL AREA GROUNDING

CAPACITY MRS FACILITY BAL OF PLANT

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV. 16	ELECTRICAL S & G											
16550	AREA #5 & #6 GROUNDING											
	92.4 x 200' = 19,480 x 1.05 4/0 GRND CABLE	20,500	LF	1.8	.036		36,900			738		
	TRENCHING 6" x 2'-0" .5 x 2/27 x 19,500'	722	C.Y	6	.15		4330			108		
	BACKFILL	722	C.Y	3.5	.07		2530			50		
	GROUND'G WELL W/CLAY PIPE ETC	40	E	100	4		4000			160		
	CADWELD	182	E	2	1		200			102		
							47960			1158		

REFERENCE ONLY

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY N.J. PRICED BY N.J. DATE AUG 85 SHEET 1 OF 2

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA ALARM ZONE

DESCRIPTION FENCE INTRUSION DETECT.

CAPACITY MRS. FACILITY BAL OF PLANT

ACCNT DIV. 16 ELECTRICAL AREA-5

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
16604	SECURITY ALARM											
							387,540			6665		
	742780 x 7200 / 13,800				USE		388000					
	12775 x 7200 / 13,800											

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J. DATE AUG-85 SHEET 1 OF 3

JOB NO.: 6440-11 CLIENT: PNL - DOE TYPE OF ESTIMATE Rom CHECKED BY

UNIT/AREA CLINCH RIVER

DESCRIPTION FENCE INTRUSION DETCT.

CAPACITY MRS FACILITY BAL OF PLANT

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV 16	ELECTRICAL 5 #6											
16609	INTRUSION DETCT. & SECUR. LIGHTG											
	SUBTOTAL SH # 2						516440			9643		
	SH # 3						226340			3132		
	TOTAL						742,780			12,775		

REFERENCE ONLY

BACK-UP IN AREA - 6

CES-2000-0 (4/81)

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY V. M. | PRICED BY | DATE AUG 85 | SHEET 1 OF 1

JOB NO.: 6440-11 | CLIENT: PNL-DOE | TYPE OF ESTIMATE Rom | CHECKED BY

UNIT/AREA UTILITIES

DESCRIPTION SEISMIC MONITORING BAL OF PLANT

CAPACITY

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV-16	ELECTRICAL AREA-5											
16605	SEISMIC MONITORING SYSTEM	1	SYS				33,000			300		
	CONSISTING OF:											
	FORCE BALANCE ACCELEROMETER	3	E									
	TRIAXIAL TRIGGER,	1	E	17,520								
	RECORD, FM TAPE, SMA-3	1	E									
	SMA-3 CONTROL, 2 PWR PNL	1	E									
	SMP-1 PLAY BACK UNIT MAG-TYPE	1	E	6630								
	SP-1 TEST SW. PANEL	1	E	920								
	EQUIPM'T MOUNT'G CABINET	1	E	4000								
	TS-3 SEISMIC SW. REMOTE	1	E	1750								
	INSTALLATION, SUPERV. & TRAVEL	1	LS	2000								
	FIVE CONDUCTOR CABLE RUNS	12,000	LF	.78	.017		9360			204		
	MISC. CONDUIT FROM UC TO TERM BOX	1	LS	1000	20		1000			20		
	TERMINAL BOXES	8	E	200	20		1600			160		
	1 " SUPPORT	8	E	10	1.5		80			12		
	TOTAL						45,040			696		
				USE			45000					

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. | PRICED BY | DATE AUG-85 | SHEET 1 OF 3

JOB NO.: 6440-11 | CLIENT: PNL - DOE | TYPE OF ESTIMATE Rom | CHECKED BY Rom

UNIT/AREA ALL AREAS

DESCRIPTION RADIO SYSTEM BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV-16	RADIO SYSTEM AREA-5											
16700	U.H.F. RADIO SYSTEM											
	SUBTOTAL SH # 2						183820			820		
	# 3						74,880			437		
	TOTAL						258700			1257		
					USE		259000					

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PARSONS

CLINCH RIVER ~~BASE~~ CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY DATE AUG 85 SHEET 2 OF 3

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA ALL AREAS

DESCRIPTION UHF RADIO SYSTEM ~~BAL OF PLANT~~

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV. 16	RADIO SYSTEM AREA-5											
16700	SECURITY BLDG											
	50W RADIO BASE	1	E	7000	20		7000			20		
	50 FT TOWER & GUYES	1	LS	800	40		800			40		
	CONSOLE	1	LS	1145	30		1150			30		
	50W. LAND MOBILE (2200)	5	E	2200	4		11000			20		
	5W PORTABLE WALK-TOP 2916	20	E	2916	2		58320			40		
	ANTENNA & FEED LINE	1	E	700	40		700			40		
	GATE HOUSE											
	MISC ITEMS	1	LS	300	-		300			-		
	50W RADIO BASE	1	E	7000	20		7000			20		
	50 FT TOWER & GUYS.	1	E	800	40		800			40		
	ANTENNA & FEED LINE	1	E	700	40		700			40		
	CONSOLE	1	E	1145	30		1150			30		
	ALL AREA											
	INTERNAL BASE & MOBILE COMMUNICAT. SYSTEM	1	LS				10000			500		
							193820			820		

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY N.J. PRICED BY DATE AUG-85 SHEET 3 OF 3

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA ALL AREA

DESCRIPTION UHF RADIO SYSTEM BAL OF PLANT

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV 16	RADIO SYSTEM AREA-5											
16700												
	FIRE STATION											
	50W. RADIO BASE	1	E	7000	20		7000			20		
	50 FT TOWER & GUYES	1	E	800	40		800			40		
	ANTENNA & CABLE	1	E	700	40		700			40		
	50W. LAND MOBILE	7	E	2200	4		15400			28		
	5W PORTABLE	6	E	2916	2		17500			12		
	CONSOLE	1	E	1145	30		1150			30		
	BATTERIES ETC.	1	LS	1500	4		1500			4		
	REMOTE CONTR PHONE @ CHIEF OFF	1	E	900	20		900			20		
	ON SITE UTILITIES											
	30W BASE RADIO	1	E	5432	18		5430			18		
	50 FT TOWER & GUYED	1	E	800	40		800			40		
	ANTENNA & FEED LINE	1	E	700	40		700			40		
	CONSOLE	1	E	1145	30		1150			30		
	PAGING INPUT EQUIPMT	1	E	900	40		900			40		
	PAGERS & CHARGERS	50	E	419	1.50		20950			75		
							74880			437		

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY N.J.	PRICED BY N.J.	DATE AUG 85	SHEET 2 OF 2		
JOB NO.: 6440-11	CLIENT: PNL-DOE	TYPE OF ESTIMATE ROM	CHECKED BY KS		
UNIT/AREA GENERAL AREA					
DESCRIPTION PHONE BOOTH BALANCE					
CAPACITY					

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECTRIC. AREA 5											
16700												
	TOTAL						$9,380			2720		
					1136		$9000					

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J. J. | PRICED BY J. J. | DATE AUG-81 | SHEET 1 OF 1

JOB NO.: 6440-11 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY RCM

UNIT/AREA: GENERAL AREA
DESCRIPTION: PHONE TRUNK LINE
CAPACITY: MRS FACILITY BALEFRONT

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV-16	ELECTRICAL AREAS											
16700	PHONE TRUNK LINE AND OUTSIDE PHONE BOOTHES											
	AREA -7 SH # 1						146,670			2440		220,000
	AREA -5 SH # 2						89,380			2720		
	TOTAL						236,050			5160		

FOR REFERENCE ONLY

CES-2000-0 (4/81)

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J. DATE AUG-85 SHEET 1 OF 2

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY Rem

UNIT/AREA AREA-#5

DESCRIPTION INSTRUM. OUTSIDE WIRING

CAPACITY MRS FACILITY BY-PRODUCT

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV-16	ELECTRIC. AREA 5											
16900												
	SUBTOTAL SH-3						10720			390		
	SH-4						8060			293		
	SH-5						60200			3039		
	SH-6						3850			150		
	SH-7						26430			1148		
	SH-8						3410			198		
	HALF OF SH-9						18590			912		
	HALF OF SH-10						18590			912		
							150,050			7062		
					USE		150000					

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY J.J. PRICED BY J.J. DATE AUG-85 SHEET 1 OF 10

JOB NO.: 6440-11 CLIENT: PNL-DOE TYPE OF ESTIMATE ROM CHECKED BY RCM/RS

UNIT/AREA ALL OUTSIDE AREAS.

DESCRIPTION INSTRUM. CABLE BAL OF PLANT

CAPACITY MRS FACILITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV-16	ELECTRICAL 5											
16900												
	SUMMARY											
	SUBTOTAL SH # 2						464,640			12448		
	3						10720			390		
	4						8060			293		
	5						60200			3059		
	6						3850			150		
	7						26630			1148		
	8						3410			198		
	9						37170			1825		
	10						37170			1825		
	TOTAL						651,850			21,336		

REFERENCE ONLY

BACK-UP IN AREA-6

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY CRW/BH | PRICED BY | DATE AUG 85 | SHEET 1 OF 4

JOB NO.: 6440-41 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA R&H BUILDING

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
DIV 17	INSTRUMENTATION AREA 5											
	SUMMARY											
1712	ANALYZERS	1	LOT				126600			500		
1714	MISCELLANEOUS INSTRUMENTS	1	LOT				60000			1000		
1718	INSTRUMENT INSTALLATION MATERIAL	1	LOT				7000			225		
1719	CALIBRATION	1	LOT							200		
	SUBTOTAL						193400			1925		
	INLAND FREIGHT ALLOWANCE @ ~3%	1	LOT				5400					
	TOTAL						199000			1925		5.0

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

CUNCH RIVER BASE CASE

M.T.O. BY C.E. HUCK | PRICED BY CAN/OH | DATE AUG 05 | SHEET 2 OF ___

JOB NO.: 6440-11 | CLIENT PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA RSH BUILDINGS

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV. 17	INSTRUMENTATION AREA 5											
1712	HORIBA STACK GAS MONITORING SYSTEM	1	LOT				126,600			500		
	CONSISTING OF :											
	STACK SAMPLING PROBE SYSTEM (ISO KINETIC)	1	EA									
	SAMPLE CONDITIONING SYSTEM	1	EA									
	CO ANALYZER	1	EA									
	CO_2 ANALYZER	1	EA									
	SO_2 ANALYZER	1	EA									
	NO/NOx ANALYZER	1	EA									
	HYDROCARBONS ANALYZER	1	EA									
	O_2 ANALYZER	1	EA									
	SHEET TOTAL						126,600			500		

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY R.E. HUCK | PRICED BY C&H / BM | DATE AUG 85 | SHEET 3 OF ____

JOB NO.: 6440-11 | CLIENT: PNL / DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA R&H BUILDING

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DIV. 17	INSTRUMENTATION AREA 5											
1714	METEOROLOGICAL INSTRUMENTATION SYSTEM	1	LOT				60000			1000		
	QUALIMETRICS, TO MEASURE:											
	WIND SPEED, WND DIRECTION,											
	BAROMETRIC PRESSURE, AMBIENT											
	TEMPERATURE, RELATIVE HUMIDITY &											
	RAIN GAUGE.											
	SYSTEM SHALL INCLUDE RS 232											
	COMPATIBLE MULTIPLEXER & OTHER											
	COMPLETE ELECTRONICS FOR COMMUNICATION											
	WITH THE DCS.											
	SHEET TOTAL						60000			1000		

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY BH | PRICED BY | DATE AUG 85 | SHEET 4 OF ____

JOB NO.: 1440-11 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY [illegible]

UNIT/AREA R&H BUILDING

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
DV.17	INSTRUMENTATION AREA 5											
1718	INSTRUMENT INSTALLATION MATERIAL											
	STACK GAS MONITORING SYSTEM	1	LOT				7000			225		
1719	CALIBRATION											
	STACK GAS MONITORING SYSTEM	1	LOT							120		
	METEOROLOGICAL INSTRUMENTATION	1	LOT							80		
	SUBTOTAL									200		
	SHEET TOTAL						7000			425		

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PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY ENGINEERING PRICED BY V. MESA DATE AUG. 85 SHEET ____ OF ____

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS. FACILITY

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY ON-SITE IMPROVEMENTS

ACCNT DIV.		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
	AREA # 5											
17	SUMMARY											

PARSONS

ESTIMATE WORKSHEET

CLINCH RIVER BASE CASE

M.T.O. BY ESTG./ENGRG. PRICED BY RUF DATE AUG 85 SHEET ____ OF ____

JOB NO.: GHHO-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY RCM/RLS

UNIT/AREA MRS FACILITIES

DESCRIPTION ON SITE @AL OF PLANT

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SUMMARY AREA 5	AREA (SF)			VOLUME (CF)							
	CHTRU STORAGE FACILITY From 2A ESTIMATE	2400	SF	58008			713500			9086		
						16.50				9086	149920	863000
	2Q 1984 TO 2Q 1985 LABASIN						713000					
	= 1.042% x $713500			=			743500					
					USE		743000				150000	893000

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY ESTMG. PRICED BY KLF DATE AUG. 85 SHEET ____ OF ____

JOB NO.: 6440 - 11 CLIENT: DOE / PNL TYPE OF ESTIMATE Rom CHECKED BY Rom / RL

UNIT/AREA MRS FACILITIES

DESCRIPTION ONSITE BAL OF PLANT

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	AREA 5											
	CHTRU STORAGE FACILITY (REF. 24 ESTIMATE)											
	SITEWORK									612		
	CONC. WORK						69900			3174		
	MASONRY						25300			1440		
	METALS						20800			89		
	SUMP PUMPS						9800			72		
	PIPING						82200			1411		
	SUMP & RETENTION DRAIN						9500			875		
	ELECTRICAL						27000			1173		
	INSTRUMENTATION						69000			200		
	CRANE						400000			40		
							713500			9086		

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

CLINCH RIVER BASE CASE

M.T.O. BY ENGINEERING PRICED BY V MESSEC DATE AUG 85 SHEET 1 OF 12

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY DH

UNIT/AREA MRS FACILITY

DESCRIPTION ON SITE - BAL OF PLANT

CAPACITY AREA 5

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	SUMMARY	AREA	SF	VOLUME CF						LABOR @ $16/HR	RATE /HR	
	SUPPORT FACILITIES											
	ADMIN BUILDING	19100	SF	286500			1505800			32420	535900	
	FIRE STATION	9000	SF	150660			1672800			13027	214900	
	SECURITY BUILDING	9800	SF	122500			1499000			25354	418300	
	MAIN GATE - BADGE HOUSE	1500	SF	21300			153700			4291	70800	
	GATE HOUSE & INSPECT STATION	1200	SF	27800			408000			8765	144600	
	ROOF CANOPY	10910	SF									
	PROTECTED AREA GATE STATION	6470	SF	168673			1384500			23980	395700	
	VEHICLE MAINTENANCE BLDG	17710	SF	456564			1015500			20900	344800	
	SITE SERVICES BUILDING	75450	SF	2347380			8590000			98806	1627000	
	WAREHOUSE	38750	SF	968250			1407000			24432	403100	
	HELIPORT	1	EA				20600			355	5900	

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PARSONS

ESTIMATE WORKSHEET

CLINCH RIVER BASE CASE

M.T.O. BY ENGINEERING PRICED BY V MOSSOC/RM A DATE AUG 85 SHEET 2 OF 2

JOB NO.: 6440-11 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY DM

UNIT/AREA MRS FACILITY

DESCRIPTION ON SITE BAL OF PLANT

CAPACITY AREA 5

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	Summary	AREA	SF	VOLUME	CF							
	STANDBY GENERATOR BLDG	11750	SF	40.000			2523600			29152	681000	
	WATER TREATMENT FACILITY	1360	SF	20400			175300			2063	34000	
	SEWAGE TREATMENT FACILITY	3840	SF	57600			346100			4997	122000	
	STEAM GENERATOR BLDG	9600	SF	345600			1394400			33403	851100	
	TOTAL DIRECT COST (2Q85)						21591300			323845	8344000	
	USE						21591000			323845	8344000	26935000

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY | PRICED BY | DATE AUG 95 | SHEET ____ OF ____

JOB NO.: 6440-11 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS Support Facilities
DESCRIPTION Administration Bldg
CAPACITY Area #5

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	Administration Bldg											
	2A Estimate - Direct Cost						1445100			33770		
	Less CA Prod. Factor									(1350)		
	2A Total Direct	19100	SF				1445100			32420		
	Escalation 2Q94 to 2Q95 = 0.042						60700					
	Total Direct Cost (2Q95)	19100	SF				1505800			32420		

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY V. NIESEL PRICED BY DATE 12/17/84 SHEET ____ OF ____

JOB NO.: 6440 CLIENT: DOE/PNL TYPE OF ESTIMATE RON CHECKED BY

UNIT/AREA MRS

DESCRIPTION

CAPACITY ADMINISTRATION BLDG

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.4											
	SITE WORK											
	CONCRETE						59100	2730	70200			129300
	MASONARY						29700	2300	59200			88900
	METALS						23200	2160	55600			78800
	WOOD & PLASTICS						0	0	0			0
	THERMAL MOIST.						38800	1580	40900			79700
	DOORS & WINDOWS						68700	650	16700			85400
	FINISHES						87200	5460	140800			228000
	SPECIALTIES						30100	390	10000			40100
	EQUIPMENT						49700	110	2800			52500
	FURNISHINGS						27200	300	7800			35000
	SPECIAL CONSTRUCTION						4200	20	500			4700
	CONVEYING SYSTEMS						0	0	0			0
	MECHANICAL						143600	7720	198600			342000
	ELECTRICAL						207800	10070	293400			501200
	INSTRUMENTATION						138700	270	6900			145600
	CATHODIC PROTECTION						0	0	0			0
	OTHER						0	0	0			0
	TOTAL						1445700	33770	960300			2406000
	CONTRACTORS OH'D & PROFIT	37%					534700		334300			869000
	SUB-TOTAL						1979800	33770	1294600			3274400
	CONTINGENCY	20%					396000	6750	247400			643400
	TOTAL 5.5.6.4						2375800	40520	1484600			3860300

CES-2000-0 (4/81)

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 / OCT. 84 | SHEET 1 OF 10

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 6.5.6 SUPPORT FACILITIES

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	COST OR M/HRS PER UNIT M/H	COST OR M/HRS PER UNIT LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
'41	ADMINISTRATION BLDG											
7.19.5	CONCRETE WORK											
	COLUMN FOOTINGS	80	CY	82.05	6.7		6560	536				
	PEDESTALS	10	CY	105.20	9.76		1050	98				
	GRADE BEAM/WALL FOOTINGS											
	PERIMETER	89	CY	65.88	3.28		5840	292				
	INTERIOR	45	"	65.88	3.28		2960	148				
	LOADING DOCK AND STAIR	4	CY	95.50	19.1		380	76				
	MISC. EQUIPMENT FDNS.	36	CY	82.05	6.34		2950	228				
	SLAB ON GRADE 6" THK	353	CY	63.20	2.28		22310	805				
	REBARS	31	TN	550	14		17050	434				
							(20)					
	SUB. TOTAL	617	CY				59100	2623				
	96% PROD				$	25.72		2730		70	200	129300
	LA BASIN											

CES-2000-0 (4/81)

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PARSONS

ESTIMATE WORKSHEET

Warm Wet. Site

M.T.O. BY RUF PRICED BY RUF DATE MAY 84 / OCT. 84 SHEET 2 OF 10

JOB NO. GHHO-10 CLIENT: DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
41	ADMINISTRATION BLDG.											
7.20	MASONRY											
	8" EXT. SPLIT FACE CONC. BLOCKS	12912	SF	1.93	0.14		24 790	1808				
	8" INT. " " " "	786	"	1.92	0.14		1510	110				
	6" EXT. " " " "	1125	"	1.67	0.13		1880	146				
	4" EXT. VENEER	733	"	2.10	0.20		1540	147				
							(20)					
	SUB TOTAL	15556	SF			$ 25.72	29 700	2211				
	90% PROD.							2300	69 200			88 900
	LA BASIN											

CES-2000-0 (4/81)

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PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 / OCT. 84 | SHEET 3 OF 10

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
41	ADMINISTRATION BLDG											
7.21	METALS											
	STR. STEEL BLDG. FRAMING	134	TN	1500	12.00		201000	1608				
	METAL DECKING	22500	SF	2.25	0.02		50630	450				
	CHAIN LINK FENCE 6' HIGH	28	LF	7.00	0.20		200	6				
	CHAIN LINK GATE (6' x 6'H) PAIR	1	EA	120.	2.00		120	2				
							50					
	SUB TOTAL						252000	2074				
	90% PROD.				$	25.72		2160	55600			307600
	LA BASIN											

CES-2000-0 (4/81)

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PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 / OCT. 84 | SHEET 4 OF 10
JOB NO. 6440-10 | CLIENT DOE | TYPE OF ESTIMATE ROM | CHECKED BY
UNIT/AREA MRS FACILITY
DESCRIPTION
CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
41	ADMINISTRATION BLDG.											
7.23	THERMAL AND MOISTURE PROTECTION											
	RIGID ROOF INSULATION	22500	SF	0.50	0.01		11250	245				
	WALL CAVITY INSULATION	733	"	0.20	0.005		150	4				
	SINGLE-PLY ROOFING	22500	"	0.80	0.016		18000	338				
	GRAVEL BALLAST	22500	"	–	–							
	METAL PANEL FASCIA	4220	"	2.85	0.07		12030	295				
	SOFFIT	3420	"	4.70	0.08		16070	274				
	FIBERGLASS INSULATION (WALL)	8323	"	0.84	0.01		6990	83				
	MISC. ROOF ACCESSORIES	ALLOW		25	%		18340	284				
							(30)					
	SUB TOTAL						78800	1523				
	96% PROD.				$	25.73		1590		40900		119700
	LA BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE May 84 / OCT. 84 | SHEET 5 OF 10

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
41	ADMINISTRATION BLDG.											
7.24.7	DOORS AND WINDOWS											
	EXTERIOR											
	PAIR 6' x 7'	1	EA.	1400	27		1400	27				
	ROLL-UP (METAL INSUL) 8'x10'	1	"	2000	15		2000	15				
	ROLL-UP (" ") 14' x10	1	"	2700	30		2700	30				
	SLIDING (ENTRANCE) 18' x10	2	"	15000	50		30000	100				
	SINGLE 3' x 7' HM	4	"	400	4		1600	16				
	METAL PAIR 8' x 8' (FLUSH)	1	"	700	5		700	5				
	INTERIOR											
	PAIR 6' x 7'	6	EA	500	5		3000	30				
	PAIR 6' x 7' (CLOSET)	1	"	500	5		500	5				
	SINGLE 3' x 7'	78	"	300	4		23400	312				
	WINDOWS:											
	ALUM. FRAME GLASS WDOW. 3'4"x5'-8"	80	EA.	42	1		3360	80				
							40					
	SUB TOTAL						68700	620				
	96% PROD.					$25.72		650		16700		85400
	LA BASIN											

CES-2000-0 (4/81)

5-88

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 / OCT 84 | SHEET 6 OF 10

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	COST OR M/HRS PER UNIT M/H	COST OR M/HRS PER UNIT LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
41	ADMINISTRATION BLDG.											
7.25.10	FINISHES :-											
	GYPSUM WALL BOARD ON METAL STUDS (2-FACE)	21500	SF	1.23	0.08		26450	1720				
	GYPSUM BOARD ON METAL STUDS (1-FACE)	8323	"	0.79	0.05		6580	416				
	CERAMIC TILES											
	UNGLAZED FLOOR TILES	357	"	3.25	0.09		1160	32				
	GLAZED WALL TILES	929	"	1.40	0.08		1300	74				
	VINYL ASBESTOS TILE											
	FLOORING	6655	"	0.90	0.01		5990	67				
	BASE 4"	3288	LF	0.46	0.03		1510	99				
	CARPETING	1200	SY	12.70	0.30		15240	360				
	ACOUSTICAL CEILING INCL. FRAMING	16680	SF	1.22	0.02		20360	334				
	PAINTING											
	MASONRY	15556	SF	0.25	0.02		3890	311				
	STR. STEEL & MISC. METALS	47840	"	0.02	0.01		960	478				
	DOORS	4656	"	0.04	0.015		190	70				
	GYPSUM BOARD	51323	"	0.08	0.025		4110	1283				
							(30)					
	SUB TOTAL						87700	6244				
	LA BASIN 96% PROD.					$ 25.72		5460		140	400	228 100

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY RUF PRICED BY RUF DATE MAY 84 / OCT. 84 SHEET 7 OF 10

JOB NO. 6000-10 CLIENT: DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
41	ADMINISTRATION BLDG.											
7.2C	SPECIALTIES											
	SUN CONTROL - METAL PANEL 3' x 7'	40	EA	210.	3.5		8400	140				
	DOCK FACILITIES	L.S		4500.	20		4500	20				
	FIRE EXT. CABINETS	10	EA	56.	2		560	20				
	FIRE EXTINGUISHERS	20	"	100.	-		2000	-				
	LOCKERS	20	"	89.	1		1780	20				
	STORAGE SHELVING	1300	SF	3.32	0.10		4320	130				
	WASTE DISPOSAL UNIT	AllON		4500	20		4500	20				
	TOILET AND BATH ACCESSORIES	L.S.		4000	20		4000	20				
							40					
	SUB TOTAL						30100	370				40100
	96% PROD.				$25.72			390	10000			
	LA BASIN											

CES-2000-0 (4/81)

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PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY RUF PRICED BY RUF DATE MAY 84 / OCT. '84 SHEET 8 OF 10

JOB NO. 6440-10 CLIENT DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY S.S.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
41	ADMINISTRATION BLDG.											
7.27.13	EQUIPMENT											
	FOOD SERVICES											
	HEALTH AND SAFETY	19100	SF	2.60	0.005		49700	100				
					@ 25.7%		96% MOD	110	2800			52500
	MEDICAL											
	ETC.											
	L A BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 / OCT. 84 | SHEET 9 OF 10

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE Rom | CHECKED BY (M)

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY S.S.G SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
41	ADMINISTRATION BLDG.											
7.28	FURNISHINGS											
	BLINDS AND SHADES	1510	SF	8.00	0.02		12 080	80				
	CABINETS AND FIXTURES	L.S.		45000	200		45 000	200				
	DRAPES AND CURTAINS	1510	SF	5.00	0.005		7550	8				
	HARDWARE:- 40 x 3.23 LF	183	LF	4.30	0.15		570	20				
	FURNITURES	L.S.		200,000	20		200 000	20				
	RUGS AND MATS	L.S		10,000	10		10 000	10				
	SUB TOTAL						275 200	288				
	96% PMD					$25.92		300	7800			283 000
	LA BASIN											

CES-2000-0 (4/81)

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PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY RUF PRICED BY RUF DATE MAY 84 / OCT. 84 SHEET 10 OF 10

JOB NO. 6440-10 CLIENT: DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
41	ADMINISTRATION BLDG.											
7.29	SPECIAL CONSTRUCTION											
	ACCESS FLOORING	600	SF	6.95	0.03		4200					
	90% PROD				$	25.75		20	500			4700
	LA BASIN											

CES-2000-0 (4/81)

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PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY BCA | PRICED BY BCA | DATE 10/84 | SHEET 1 OF 5

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA

DESCRIPTION

CAPACITY 5,5,6 SUPPORT PAC.

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	COST OR M/HRS PER UNIT M/H	COST OR M/HRS PER UNIT LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.41	ADMINISTRATION BLDG											
7.31	MECH. SYSTEMS											
.16	PLUMBING						20900	930				
.18	HVAC						119400	5320				
.19	FIRE PROTECTION - 5/6						23100	1160				
	SUB TOTAL						163400	7410				
	PROD. 7410 ÷ 96 %	7720	MH			25.73			198600			
	TOTAL MECH'L						163400	7720	198600			362000
	LA BASIN											

CES-2000-0 (4/81)

S-94

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY BGA | PRICED BY BGA | DATE 8/30/84 | SHEET 2 OF 5

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE PRELIM | (M) CHECKED BY

UNIT/AREA

DESCRIPTION

CAPACITY 5.5.C

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.41	ADMIN. BLDG											
.7.31.10	PLUMBING :											
	FIXTURES, W.C. FLR MTD	6	EA	330	13		1980			78		
	H.R. STALL TYPE	2	"	467	20		930			40		
	LAV. WALL HANG	7	"	320	16		2240			112		
	KIT. SINK CT/DB	1	"	560	25		560			25		
	S. SINK	1	"	451	24		450			24		
	LAB SINK	1	"	320	16		320			16		
	EWC, FLR MTD RECESSED 8 GPM	1	"	767	11		770			11		
	EWH, 12 kw, 80 gal	1	"	1125	6		1130			6		
	WASTE LINE 6" C.I.SP	100	LF	14.42	.67		1440			67		
	4" C.I.SP	300	"	7.61	.59		2280			177		
	VENT 4" GALV	100	"	19.73	.45		1980			45		
	2" "	100	"	6.06	.25		610			25		
	VTR 4"	1	EA	120	2.5		120			3		
	2"	3	"	62	2.0		190			6		
	S/T C.F.						15000			635		

CES-2000-0 (4/81)

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PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY EGA | PRICED BY EGA | DATE 8/30/84 | SHEET 3 OF 5

JOB NO. 6440-10 | CLIENT DOE | TYPE OF ESTIMATE PRELIM | CHECKED BY M

UNIT/AREA ADMIN BLDG

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	S/T B.F						15000			635		
7.31.16	PLBG CONT											
	COLD WATER 2" Cu 'L'	100	LF	3.66	.37		370			37		
	1" Cu 'L'	200		1.49	.23		300			46		
	1/2" Cu 'L'	200	"	.72	.16		140			32		
	HOT WATER 1" Cu 'L'	100	LF	1.04	.23		150			23		
	1/2" Cu 'L'	200		.72	.16		140	1100		32	176	
	PIPE INSULATION, F.G. W/ASJ 1 1/2" WALL											
	2"	110	LF	2.45	.084		270			9		
	1"	330	"	1.95	.07		640			25		
	1/2"	440	"	1.75	.07		770			31		
	FLR DRAIN 4"	7	EA	260	2		1820			14		
	CLEAN OUT 4"	6	EA	110	2		660			12		
	WATER HAMMER ARRESTOR, 1"	4	EA	20	1		80			4		
	VALVES .05 x 11000 / .15 x 170	1	LOT	-	-		540			27		
	S/T						20880			929		
	ADJ						+20			+3		
	TOTAL - PLBG						20900			930		

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY BCA | PRICED BY BCA | DATE 8/30/84 | SHEET 4 OF 5

JOB NO. 6440-10 | CLIENT DOE | TYPE OF ESTIMATE PRELIM | CHECKED BY

UNIT/AREA
DESCRIPTION
CAPACITY 5.6.6

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT: MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT: M/HRS	SUBCONTRACT: DOLLARS	LABOR: M/HRS	LABOR: DOLLARS	TOTAL DOLLARS
.41	ADMIN. BLDG											
7.31.18	HVAC											
	ACCU/AHU SYSTEM COOLING ONLY, 60 TONS	19100	SF	5.92	.27		113070			5157		
	HYDRONIC HEATING 315 MBH	2	EA	800	8.5		1600			17		
	BOILER, GAS/OIL FIRED	1	EA	3978	67		3980			67		
	DUCTWORK & ACC.	19100	SF		(INCL	IN	ABOVE)			-		
	VAV MIXING BOX W/ CONTROLS	16	EA		(✓	✓	✓)			-		
	WATER TREATMENT	1	LS	730	8		730			8		
	BALANCING	1	LS	-	68		-			68		
	S/T						119380			5317		
	ADJ						+20			+3		
	TOTAL HVAC						119400			5320		

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY BCA | PRICED BY BCA | DATE 8/30/84 | SHEET 5 OF 5

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE PRELIM | CHECKED BY

UNIT/AREA

DESCRIPTION

CAPACITY 5,5,6

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
141	ADMIN. BLDG											
7.31.19	FIRE PROTECTION - AUTOMATIC WET PIPE SPRINKLER SYSTEM ORDINARY HAZARD	19100	SF	1.08	.0585		20630			1117.		
	FIRE EXTINGUISHER, CO_2 20 LB IN CABINETS	10	EA	250	4		2500			40		
	S/T						23130			1157		
	ADJ						(-30)			+3		
	TOTAL F.P.						23100			1160		

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CES-2000-0 (4/81)

5-98

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY FREDG | PRICED BY | DATE 10-26-89 | SHEET 1 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5,5,6 SUPPORT FACILITIES

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
41	ADMINISTRATION BLDG.											
7.32	ELECTRICAL SUMMARY											
	PWR GEAR SHT 2						33 800	316				
	PWR DIST AG SHT 3						9420	621				
	4						3260	298				
	LTG / COMM } SHT. 5						196 940	7710				
	GRID / FIRE ALARM } SHT 6						12 020	632				
	LIGHTNING PROT. SHT. 7						2370	89				
	SUB TOTAL						207 810	9666				
	PROD 96%	9666	MH	÷	.96			10070				
	LABOR RATE	10070	MH			29.M.			293 400			
	LA BASIN											
							207 800		293 400			501 200
								10070				

CES-2000-0 (4/81)

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PARSONS

WARM MGT SITE

ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 10-23-84 | SHEET 2 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA

DESCRIPTION ADMINISTRATION BUILDING

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECTRICAL 55.6.41.7.32											
1.01	5KV 600A FUSED PRIMARY SW OUTDOOR OIL FILLED PAD MOUNTED	1	E	—			7 000	45				
	500KVA TX 4160V-480/277V 3 Ø 4W S/S 1-3 OUTDOOR PAD MOUNTED	1	E	—			12 000	58				
	480V MCC 1-3-1 9 SIZE 1 MAG COM STR 1 ✓ 2 ✓ ✓ ✓ 7-100 AMP CT BKR 1-225 AMP ✓ ✓ 1-800 AMP ✓ ✓ MAIN 1-600 ✓ CT BKR	1	LS				7 000	83				
	PAD — PRIM SW & TX	1	LS				800	30				
	FEEDERS FROM PRIM SW TO 500KVA TX	1	LS	—			3 000	40				
	FEEDER FROM 500KVA TX TO MCC 1-3-1	1	LS	—			4 000	60				
							33 800	316				

CES-2000-0 (4/81)

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PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY FREDG | PRICED BY | DATE 10-23-84 | SHEET 3 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA

DESCRIPTION ADMINISTRATION BUILDING

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECTRICAL 5.5.6.4.1.7.32											
	15KVA TX 480-208/120V 3Ø 4W	2	E	750	12.00		1500	24				
	MTG TX	2	E	15.00	6.00		30	12				
	480V MTR CONNECTIONS —											
	10 HP ↓	9	E	1.50	2.00		10	18				
	25 HP	1	E	2.80	2.15			—				
							10	4				
	PWR CONNECTIONS											
	HOT WATER HTR 6KW	1	E	2.80	2.15							
	ACCU-800	1	LS				30	7				
	AIR COOLED CONDENSING UNIT											
	81.5 KW COMP 7.5 HP											
	COND. FAN											
	LTG PANEL (LA & LB)											
	23KVA	2	E	800	20.0		1600	40				
	RECEP PANEL (RA & RB)	2	E	800	16.50		1600	33				
	MTG PANELS	4	E	15.00	6.00		60	24				
	MOTOR RUNS — (150' RUN)											
	10HP ↓	9	E	444	45.22		4000	407				
	25HP	1	E	577	52.3		580	52				
	TOTAL THIS SHT.						9420	621				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY [illegible] | DATE 10-23-89 | SHEET 4 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY [illegible]

UNIT/AREA

DESCRIPTION ADMINISTRATION BUILDING

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.41.7.32 - ELEC'L											
	HOT WATER HTR RUN (150')	1	LF	444	4.52		900	4.5				
	ACCU-800 AIR COOLED CONDENSING UNIT (150' RUN)	1	LF	1037	72.2		1090	72				
	LTG PNL CONDUIT RUN (150' RUN)	4	LF	444	45.2		1780	181				
	TOTAL THIS SHT.						3760	298				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY [illegible] | DATE 10-23-84 | SHEET 5 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY (M)

UNIT/AREA

DESCRIPTION ADMINISTRATION BLDG

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.4.7.32											
	LIGHTING & RECEP' ~											
	242' X 92' = 22264 □'											
	22264 □' X $15/□' = $333960											
	USE 40% MAT & 60% LABOR											
	$333960 X .40 = $133584											
	$333960 X .60 = $200376											
	200376 ÷ $28.58/MH = 7011 MH											
	USE	1	LS				133580	7010				
	COMM ~											
	22264 □'											
	22264 □' X $1.50/□' = $33396											
	40% MAT & 60% LABOR											
	$33396 X .40 = $13358											
	33396 X .60 = 20038											
	20038 ÷ $28.52/MH = 701 MH											
	USE	1	LS				13360	700				
	TOTAL THIS SHT						146940	7710				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY [illegible] | DATE 10-23-84 | SHEET 6 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY [illegible]

UNIT/AREA

DESCRIPTION ADMINISTRATION BLDG

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT: MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT: M/HRS	SUBCONTRACT: DOLLARS	LABOR: M/HRS	LABOR: DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.41.7.32											
	GROUNDING —											
	22264 □'											
	22264 □' X 0.25/□' = $5566											
	USE 40% MATL & 60% LABOR											
	$5566 X .40 = $2224											
	5566 X .60 = $3340											
	$3340 ÷ $28.5/MH = 117											
	USE						2220	117				
	FIRE ALARM —											
	22264 □'											
	22264 □' X $1.10/□' = $24490											
	USE 40% MAT & 60% LABOR											
	$24490 X .40 = $9796											
	24490 X .60 = 14694											
	$14694 ÷ $28.5/MH = 516											
	USE						9800	515				
	TOTAL THIS SHT.						12020	632				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY E FONG | PRICED BY E FONG | XT 8789 | DATE 10-23-84 | SHEET 7 OF 7

JOB NO. 6440 | CLIENT PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA ADMINISTRATION BLDG

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
	ELECT'L 5.5.6.41.7.32											
	LIGHTNING PROTECTION											
	AIR TERMINALS, COPPER 1/2"	45	EA	11.00	1.0		500	45				
	CABLE, COPPER 375 #/MLF	1000	LF	1.65	.036		1650	36				
	USE 10% OF ABOVE FOR FITTINGS SUPPORTS ETC.	1	LS				220	8				
	TOTAL THIS SHT.						2370	89				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY C. HUCK | PRICED BY CH/AQ | DATE NOV. 1984 | SHEET 1 OF 1

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE: BUDGETARY | CHECKED BY: M

UNIT/AREA: ADMINISTRATION BLDG.
DESCRIPTION: INSTR. & CONTROL EQUIPT.
CAPACITY: 5.5.6.41

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
7.33	INSTRUMENTATION											
	DEC VAX-11/750 GENERAL PURPOSE COMPUTER SYSTEM, CONSISTING OF: 1 EA. 750XA-AE CPU; 1 EA. RUA81-AA 256MB FIXED DISK; 1 EA. TU80-AA MAGNETIC TAPE; 1 EA. DZ11-HP COMMUNICATIONS INTERFACE; 3 EA. LA100-BA KSR PRINTER; 1 EA. LP11-AA RO LINE PRINTER; 3 EA. VT220-B VIDEO TERMINAL W/ KEYBOARD; 1 EA. QD001-HM VAX/VMS MEDIA & DOCUMENTATION ON 9-TRACK MT	1	EA		200		104695	200				
	DISTRIBUTED CONTROL SYSTEM TERMINAL WITH CRT AND CHARACTER PRINTER, FORNEY, ECS-1200, OR EQUAL. NOTE: THIS TERMINAL WILL COMMUNICATE WITH THE REDUNDANT DCS SYSTEMS IN THE R&H AND SITE SERVICES BLDGS.	1	LOT		60		30000	60				
	SUB-TOTAL	1	LOT				134700	260				
	PRODUCTIVITY @ 96 %									270		
	LABOR COST	(270)	MH			25.72			6900			
	FREIGHT @ 3 %	1	LOT				4000					
	TOTAL LA BASIN	1	LOT				$ 138700	270	6900	270	6900	$ 145600

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY | PRICED BY | DATE AUG 85 | SHEET ____ OF ____

JOB NO.: 6440-11 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA: MRS Support Facilities

DESCRIPTION: FIRE STATION

CAPACITY: Area #5

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	Fire Station											
	2A ESTIMATE - DIRECT COST						1604400			13570		
	LESS LA PROD FACTOR									(543)		
	2A TOTAL DIRECT	9000	SF				1604400			13027		
	Escalation 2Q84 to 2Q85 = 0.042						67400					
	Total Direct Cost (2Q85)	9000	SF				1672800			13027		

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY Y. MESEC | PRICED BY | DATE 12/17/80 | SHEET ____ OF ____

JOB NO.: 6440 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA

DESCRIPTION FIRE STATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.53											
.16	SITE WORK											
	CONCRETE						$ 27 600	1160	$ 29 800			$ 57 400
	MASONARY						26 300	2150	55 300			81 600
	METALS						111 800	950	24 400			136 200
	WOOD & PLASTICS											
	THERMAL MOIST.						37 500	720	18 500			51 300
	DOORS & WINDOWS						49 700	350	9 000			58 700
	FINISHES						30 100	1660	42 700			72 800
	SPECIALTIES						10 500	120	3 100			13 600
	EQUIPMENT						1131 400	50	1 300			1132 700
	FURNISHINGS						55 400	70	1 800			57 200
	SPECIAL CONSTRUCTION											
	CONVEYING SYSTEMS											
	MECHANICAL						41 900	2160	55 600			97 500
	ELECTRICAL						87 900	4180	121 800			209 700
	INSTRUMENTATION											
	CATHODIC PROTECTION											
	OTHER											
	SUB TOTAL (2A)						$ 1505 400	13570	$ 363 300			$ 1968 700
	CONTRACTORS O H & P 37%						594 000	-	134 400			728 400
	SUB TOTAL						2199 400	13570	497 700			2697 100
	CONTINGENCY 20%						439 900	2710	99 500			539 400
	TOTAL 5.5.6.53						2639 300	16280	597 200			3236 500

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 | SHEET 2 OF 10
JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY
UNIT/AREA MRS FACILITY
DESCRIPTION
CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
53	FIRE STATION											
7.19.5	CONCRETE											
	COLUMN FOOTINGS	28	CY	82.05	6.7		2300	188				
	PEDESTAL	4	"	105.30	9.76		420	39				
	PILASTER	4	"	99.06	9.86		400	39				
	GRADE BEAM/WALL FOOTING											
	PERIMETER	37	"	65.88	3.28		2440	121				
	INTERIOR	17	"	65.88	3.28		1120	56				
	SLAB ON GRADE											
	8" thk	134	"	63.20	2.28		8470	306				
	6" "	66	"	63.20	2.28		4170	150				
	REBARS	15	TN	550	14		8250	210				
							30					
	SUB TOTAL						27600	1109				
	96% PROD					25%		1160	29800			57400
	L.A. BASIN											

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 | SHEET 3 OF 10

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
53	FIRE STATION											
7.20	MASONRY											
	8" EXT. SPLIT FACE CONC. BLOCK	8445	SF	1.92	0.15		16210	1267				
	8" INT. " " " "	2050	"	1.92	0.15		3940	308				
	6" INT. " " " "	3154	"	1.67	0.13		5270	410				
	4" INT. " " " "	646	"	1.28	0.12		830	78				
							50					
	SUB TOTAL						26300	2063				
	96% PROD					25.72		2150	55300			81600
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 | SHEET 4 OF 10
JOB NO. 6440-10 | CLIENT DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY
DESCRIPTION
CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
53	FIRE STATION											
7.21	METALS											
	STRUCTURAL STEEL	59	TN	1500	12		88 500	708				
	METAL DECK	10353	SF	2.25	0.02		23 290	207				
							10					
	SUB TOTAL						111 800	915				
	96% PROD					25.72		950	24 400			136 200
	LA BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 | SHEET 5 OF 10
JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY
UNIT/AREA MRS FACILITY
DESCRIPTION
CAPACITY 9.6.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
63	FIRE STATION											
7.23	THERMAL AND MOISTURE PROTECTION											
	RIGID ROOF INSULATION	10353	SF	0.50	0.01		5180	104				
	WALL INSULATION	2199	"	0.20	0.005		440	11				
	SINGLE-PLY ROOFING	10353	"	0.80	0.016		8280	155				
	METAL FASCIA PANELS	3292	"	2.85	0.07		9380	230				
	SOFFIT	648	"	4.70	0.08		3050	52				
	MISC. ROOF ACCESSORIES 25%	ALLOW					6470	135				
	SUB TOTAL						32800	687				
	9.6% PROD					2572		720		18500		51300
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 | SHEET 6 OF 10

JOB NO. 64440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
53	FIRE STATION											
7.24.7	DOORS AND WINDOWS											
	EXTERIOR DOORS:-											
	ALUM. W/GLASS 6'x7' (PAIR)	1	EA.	1400	27		1400	27				
	HOLLOW METAL 6'x8'-6" (PAIR)	1	"	700	8		700	8				
	WOOD - SOLID CORE 3'x7'	2	"	600	5		1200	10				
	INSUL. STEEL ROLL-UP 4'x7'-4"	1	"	900	8		900	8				
	6'x7'-4"	2	"	1300	10		2600	20				
	12'x14'	5	"	5000	15		25000	75				
	24x8'-8"	1	"	6200	20		6200	20				
	INTERIOR DOORS:-											
	WOOD SOLID CORE 3'x7'	20	"	400	4		8000	80				
	WOOD HOLLOW CORE 3'x7'	5	"	300	4		1500	20				
	ALUM. W/GLASS 6'x7' (PAIR)	1	"	1400	27		1400	27				
	WINDOWS:-											
	3'-4"x5'-8" ALUM. FRAME FIXED WDW.	2	EA.	42	2		80	4				
	5'-4"x5'-8"	10	"	67	3		670	30				
	6'-8"x5'-8"	1	"	84	3		90 (40)	3				
	SUB TOTAL						49700	332				
	96% PROD					25.72		350	9000			58200

CES-2000-0 (4/81)

PARSONS

WARM MIST SITE — ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 | SHEET 7 OF 10
JOB NO. 6440-10 | CLIENT DOE | TYPE OF ESTIMATE ROM | CHECKED BY
UNIT/AREA MRS FACILITY
DESCRIPTION
CAPACITY 9.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
53	FIRE STATION											
7.26.10	FINISHES											
	GYPSUM DRYWALL ON METAL STUDS (2 FACE)	2878	SF	1.23	0.08		3540	230				
	GYPSUM BOARD ON METAL STUDS (1 FACE)	2199	SF	0.79	0.05		1740	110				
	CERAMIC TILES											
	UNGLAZED FLOOR TILES	635	SF	3.25	0.09		2060	57				
	GLAZED WALL TILES	933	SF	1.40	0.08		1310	75				
	ACOUSTICAL CEILING INCL. FRAMING	8981	SF	1.22	0.02		10960	180				
	VINYL ASBESTOS TILE											
	FLOOR TILE	1786	SF	0.90	0.01		1610	18				
	BASE 4" H	477	LF	0.46	0.03		220	14				
	CARPETING	215	SY	12.90	0.3		2780	66				
	PAINTING											
	MASONRY	18994	SF	0.25	0.02		4750	380				
	STR. STEEL & METAL PANELS	21640	SF	0.02	0.01		430	216				
	DOORS	3966	SF	0.04	0.015		140	53				
	GYPSUM DRYWALL	7955	SF	0.08	0.025		640	199				
							(30)					
	SUB TOTAL						30100	1597				
	L.A. BASIN 96% PROD					28.73		1660	42700			

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 | SHEET 8 OF 10

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
53	FIRE STATION											
7.26	SPECIALTIES											
	HOSE STORAGE CABINETS	3	EA.	205.	3		620	9				
	PROTECTIVE CLOTHING CABINETS (16'W x 6'H x 2'D)	1	EA	1200	5		1200	5				
	LOCKERS	17	EA.	89	1		1510	17				
	SHELVES	500	SF	3.32	0.10		1660	50				
	TOILET AND BATH ACCESSORIES	L.S.		5500	30		5500	30				
							10					
	SUB TOTAL						10 500	111				
	9% % PROD					25.72		120	3 100			13 600
	LIFT BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 | SHEET 9 OF ____

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | (M) CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT: MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT: M/HRS	SUBCONTRACT: DOLLARS	LABOR: M/HRS	LABOR: DOLLARS	TOTAL DOLLARS
53	FIRE STATION											
7.27.13	EQUIPMENT											
	FOOD SERVICE (KITCHEN & LUNCHROOM)											
	MEDICAL EQUIPMENT	9000	SF	2.40	0.005		23 400	45				
	ETC.			96% PROD		25.12		50	1300			24 700
	FIRE FIGHTING EQUIP						1 108 000					1 108 000
	L.A. BASIN						1 131 400	50	1300			1 132 700

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET — NOV '84

M.T.O. BY: D. SCHLOSSER | PRICED BY: | DATE: JULY 12, 1984 | SHEET 1 OF 6

JOB NO.: 6440-10 | CLIENT: DOF/PNL | TYPE OF ESTIMATE: | CHECKED BY:

UNIT/AREA: M R S FACILITY

DESCRIPTION:

CAPACITY: 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
53	FIRE STATION											
7.27.13	EQUIPMENT											
1	FIRE FIGHTING - SUMMARY											
	SHEET 2 OF 6						133 000	—				
	3						380 000	—				
	4						210 000	—				
	5						360 000	—				
	6						25 000					
	TOTAL						1 108 000	—			—	1 108 000
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER | PRICED BY | DATE 11/14/84 | SHEET 2 OF 6

JOB NO. 6440-70 | CLIENT DOE/PNL | TYPE OF ESTIMATE Rom | CHECKED BY D

UNIT/AREA FIRE STATION FACILITY

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.53.7.27.13.1											
	AMBULANCE VEHICLE	1					120 000					120 000
	VAN STYLE CHASSIS WITH HEAVY DUTY SUSPENSION											
	EMERGENCY LIGHTS											
	SIREN											
	TWO WAY RADIO											
	STORAGE CABINETS FOR FIRST AID EQUIPMENT											
	RACKS FOR STRETCHER STORAGE											
	POWER STEERING											
	AUTOMATIC TRANSMISSION											
	POWER BRAKES											
	"V" 8 ENGINE											
	VAN STYLE VEHICLE (FIRE CHIEF)	1					13 000					13 000
	VAN STYLE CHASSIS WITH HEAVY DUTY SUSPENSION											
	4 WHEEL DRIVE											
	TWO WAY RADIO											
	EMERGENCY LIGHTS											
	SIREN											
	POWER STEERING											
	AUTOMATIC TRANSMISSION											
	POWER BRAKES											
												133 000

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER. PRICED BY DATE 11/14/84 SHEET 3 OF 6

JOB NO. 6440-70 CLIENT DOE/PHL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA FIRE STATION FACILITY

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
	5.5.6.53.7.27.13.1											
	FIRE TRUCK, PUMPER UNIT	2	EA	190K			380 000					380 000
	HEAVY DUTY TRUCK CHASSIS											
	HEAVY DUTY SUSPENSION											
	4 WHEEL DRIVE											
	AUTOMATIC TRANSMISSION											
	CAB MOUNTED MASTER ELECTRIC											
	CONTROL CONSOLE											
	CANOPY STYLE CAB											
	EMERGENCY LIGHTS											
	SIREN											
	ELECTRIC REWIND BOOSTER REEL											
	750 GPM TWO STAGE PUMP UNIT											
	750 GAL. WATER SUPPLY TANK											
	PUMP UNIT TO SUPPLY TWO											
	2½ INCH SUCTION AND DISCHARGE											
	INLETS AND OUTLETS											
	DUAL BATTERY SYSTEM											
	SIDE HOSE AND EQUIPMENT											
	STORAGE COMPARTMENTS											
	RUNNING BOARDS & HANDRAILS											
	TWO WAY RADIO											
	POWER STEERING											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER | PRICED BY | DATE 11/14/84 | SHEET 4 OF 6

JOB NO. 6440-70 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA FIRE STATION FACILITY

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.53.7.27.13.1											
	FIRE TRUCK, LADDER, & PUMPER UNIT	1					210 000					210 000
	HEAVY DUTY TRUCK CHASSIS											
	HEAVY DUTY SUSPENSION											
	4 WHEEL DRIVE											
	AUTOMATIC TRANSMISSION											
	POWER BRAKES											
	CANOPY STYLE CAB											
	EMERGENCY LIGHTS											
	CAB MOUNTED MASTER ELECTRIC											
	CONTROL CONSOLE											
	SIREN											
	ELECTRIC REWIND BOOSTER REEL											
	750 GPM TWO STAGE PUMPING UNIT											
	750 GAL. WATER STORAGE TANK											
	2½ INCH SUCTION & DISCHARGE OUTLETS											
	DUAL BATTERY SYSTEM											
	TELESQUIRT SPRAY NOZZLE UNIT.											
	50 FT TELESCOPING LADDER.											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER | PRICED BY | DATE 11/14/84 | SHEET 5 OF 6

JOB NO. 6440-70 | CLIENT: DOE / PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA FIRE STATION FACILITY

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
	5.5.6.53.7.27.13.1											
	FIRE TRUCK, TANKER UNIT	2	EA	180K			360 000					360 000
	HEAVY DUTY TRUCK CHASSIS											
	HEAVY DUTY SUSPENSION											
	CONVENTIONAL CAB											
	POWER STEERING											
	4 WHEEL DRIVE											
	AUTOMATIC TRANSMISSION											
	EMERGENCY LIGHTS											
	SIREN											
	TWO WAY RADIO											
	SIDE HOSE AND STORAGE COMPARTMENTS											
	2½ INCH SUCTION & DISCHARGE OUTLETS											
	ELECTRIC REWIND BOOSTER REEL WITH 1½ HOSE & NOZZLE											
	1250 GALLON WATER STORAGE TANK											
	RUNNING BOARDS & HANDRAILS											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER | PRICED BY | DATE 11/14/84 | SHEET 6 OF 6

JOB NO. 6440-70 | CLIENT DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA FIRE STATION FACILITY

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.53.7.27.13.1											
	MISCELLANEOUS FIRE STATION EQUIPMENT.	LOT					25 000					25 000
	BOOSTER TANKS											
	EXTRA HOSES											
	NOZZLES											
	BREATHING EQUIPMENT											
	PROTECTIVE CLOTHING											
	REPLACEMENT VALVES											
	STORAGE CABINETS											
	DRYING OVEN.											

CES-2000-0 (4/81)

Warm Wet Site

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY RUF | PRICED BY RUF | DATE MAY 84 | SHEET 10 OF 11

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
53	FIRE STATION											
7.28	FURNISHINGS											
	BLINDS AND SHADES	400	SF	8	0.02		3200	8				
	DRAPES AND CURTAINS & HARDWARES	400	SF	6.38	0.02		2150	8				
	MISC. OFFICE CABINETS	15	EA	1000	2		15000	30				
	FURNITURES (ALLOW)	L.S.		30000	10		30000	10				
	RUGS AND MATS (ALLOW)	L.S.		5000	5		5000	5				
							50					
	SUB TOTAL						55400	61				
	96% PROD.					25.72	USE	70		1800		57200
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY BCA | PRICED BY BCA | DATE 10/84 | SHEET 1 OF 4

JOB NO.: 6440-10 | CLIENT: PNL-DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA
DESCRIPTION
CAPACITY 5.5.6

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.53	FIRE STATION											
7.31	MECH. SYSTEMS											
.16	PLUMBING						12 200	720	18 900			
.18	HVAC						18 500	870	22 400			
.19	FIRE PROTECTION						11 200	570	14 700			
	TOTAL						41 900	2160	55 600			97 500
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY BCA | PRICED BY BCA | DATE 10-84 | SHEET 2 OF 4

JOB NO.: 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA FIRE STATION

DESCRIPTION

CAPACITY 5.5.16

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.53	FIRE STATION											
7.31.16	PLUMBING :											
	FIXTURES - W.C	4	EA	330	13		1320			52		
	LAV	4	"	320	16		1280			64		
	UR	2	"	467	20		930			40		
	S.S	1	"	451	24		450			24		
	EWC	1	"	767	11		770			11		
	LAB SINK	1	"	320	16		320			16		
	EWH 40 gal	1	"	850	5		850			5		
	SHOWER	2	"	260	4		520			8		
	FLOOR DRAIN	4	"	260	2		1040			8		
	FLOOR C.O.	2	"	110	2		220			4		
	VTR 4"	1	"	120	2.5		120			3		
	PIPE & FTGS, (M=.4 x 7820 F) L=1.5 x 235 FT						3600			435		
	WATER CONTROL EQUIPT, (M=10 x 78 EA) (L=16 x 235)						780			24		
	S/T						12200			694		
	PROD. 96%									723		
	ADJ						0			(-3)		
	TOTAL - PLBG					25.73	12200			720	18500	30700

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY BGA | PRICED BY BGA | DATE 10/84 | SHEET 3 OF 4

JOB NO.: 6448-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA / DESCRIPTION / CAPACITY	QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
			MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
ACCNT .53 FIRE STATION											
7.3.1.18 HVAC											
OFFICES, CORR., RADIO & LOCKER RMS ONLY.											
VARIABLE AIR VOL, W/ MIXING BOXES, DUCTWORK INCL CONTROLS	3000	CF	5.92	.127		17760			810		
TOILET ROOM EXH. FAN	2	EA	230	1.5		460			3		
EXH. DUCT WORK	200	LB	1.20	.102		240			20		
S/T						18460			833		
PROD. 96%									868		
ADJ						+40			+2		
TOTAL HVAC					25.72	18500			870	22400	40900

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY BGA | PRICED BY BGA | DATE 10/84 | SHEET 4 OF 4

JOB NO.: 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA
DESCRIPTION
CAPACITY 5.5.6

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.53	FIRE STATION											
7.31.19	FIRE PROTECTION -											
	SPRINKLER SYST.	9000	SF.	1.08	.0585		9720			527		
	FIRE EXTINGUISHERS 20# CO_2 IN CAB.	6	EA.	250	4		1500			24		
	S/T						11220			551		
	PROD. 96%									574		
	ADJ						(20)			(4)		
	TOTAL P.P.					25.72	11200			570	14700	25900

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 10-26-82 | SHEET 1 OF 6

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
53	FIRE STATION											
	ELECTRICAL SUMMARY											
	PWR GEAR SHT 2						15 100	94				
	PWR DIST AG SHT. 3						7 300	506				
	LTG / COMM } SHT. 4						57 700	3025				
	GR / FIREALARM } SHT. 5						6 300	335				
	LIGHTNING PROT SHT. 6						1 500	57				
	SUB TOTAL						87 900	4017				
	PROD 96%	4017	MH	÷	.96			4180				
	LABOR RATE	4180	MH			29.19			121 800			
	LA. BASIN											
							87 900	4180	121 800			209 700

CES-2000-0 (4/81)

WARM WET SITE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY FIREDG | PRICED BY | DATE 10-25-84 | SHEET 2 OF 6

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA

DESCRIPTION FIRE STATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
7.32	ELECT'L											
	800 AMP 480V PRIM SW (OUTDOOR)	1	LS				10 000	20				
	480V LOAD CENTER PNL BOARD 24-4 10-100AF CKT BKR 1 1/2 SIZE-1-COMB MAG STR	1	LS				5 100	74				
	TOTAL THIS SHT						15 100	94				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 10-26-84 | SHEET 3 OF 6

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | (N) CHECKED BY

UNIT/AREA

DESCRIPTION FIRE STATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
7.32	ELECTRICAL											
	6KV TX 480-208/120 3 Ø 4W	1	E	450	8.00		450	8				
	LTG PNL (RA) 208/120	1	E	450	8.00		450	8				
	LTG PNL (LA) 480V	1	E	800	16.50		800	17				
	MTG LTG PNLS & TX	3	E	15.00	6.00		50	18				
	480V MTR CONNECTIONS ~ 10 HP	8	E	1.50	2.00		10	16				
	ACCU 805 AIR COOLED CONDENSER CONNECTIONS	1	E	300	2.40		~	2				
	480V MTR CONDUIT RUNS 10 HP 150'	8	E	444	45.2		3550	362				
	480V LTG PNL CONDUIT RUN 150	1	E	1500	30.00		1500	30				
	208/120V LTG PNL & TX CONDUIT RUN 150'	1	E	444	45.2		490	45				
	TOTAL THIS SHT.						7250	506				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 10-26-84 | SHEET 4 OF 6
JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY
UNIT/AREA
DESCRIPTION FIRE STATION
CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT: MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT: M/HRS	DOLLARS	LABOR: M/HRS	DOLLARS	TOTAL DOLLARS
7.32	ELECT'L											
	LIGHTING & RECEP —											
	51'-4" X 22'-8" = 1172 □'											
	50'-0 X 145'-4" = 7270 □'											
	6'-0" X 18'-8" = 113 □'											
	18'-8" X 10'-0" = 188 □											
	8743 □'											
	8743 □' X $15.00/□' = $131145											
	USE 40% MATL & 60% LABOR											
	MATL $131145 X .40 = $52458											
	LABOR 131145 X .60 = 78687											
	$78687 ÷ $28.58/MH = 2753 MH											
	USE	1	LS				52460	2750				
4605	COMM — 8743 □'											
	8743 □' X $1.50/□' = $13115											
	USE 40% MATL & 60% LABOR											
	MATL $13115 X .40 = $5246											
	LABOR 13115 X .60 = 7869											
	$7869 ÷ $28.58/MH = 275 MH											
	USE	1	LS				5250	275				
	TOTAL THIS SHT.						57710	3025				

CES-2000-0 (4/81)

WARM WET SITE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY FREDG PRICED BY EL DATE 10-26-84 SHEET 5 OF 6

JOB NO.: 6440 CLIENT: PNL/DOE TYPE OF ESTIMATE ROM CHECKED BY M

UNIT/AREA

DESCRIPTION FIRE STATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT: MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT: M/HRS	SUBCONTRACT: DOLLARS	LABOR: M/HRS	LABOR: DOLLARS	TOTAL DOLLARS
7.32	ELECTRICAL											
	GROUNDING ~											
	8743 □'											
	8743 □' X 0.30/□' = $2623											
	USE 40% MATL & 60% LABOR											
	MATL $2623 X .40 = $1049											
	LABOR 2623 X .60 = 1574											
	$1574 ÷ $28.58/MN = 55											
	USE	1	LS				1050	60				
	FIRE ALARM ~											
	8743 □'											
	8743 □' X $1.50/□' = $13115											
	USE 40% MATL & 60% LABOR											
	MATL $13115 X .40 = $5246											
	LABOR 13115 X .60 = 7869											
	$7869 ÷ $28.58/MN = 275 MH											
	USE	1	LS				5250	275				
	TOTAL THIS SHT						6300	335				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY E FONG | PRICED BY E FONG | DATE 10-26-89 | SHEET 6 OF 6

JOB NO. 6440 | CLIENT PNL/DOE | TYPE OF ESTIMATE ROM | (M) CHECKED BY

UNIT/AREA FIRE STATION
DESCRIPTION
CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.53.7.32 ELECTRICAL											
	LIGHTING PROTECTION											
	AIR TERMINALS, COPPER ½"	30	EA	11.00	1.00		330	30				
	CABLE, COPPER 347#/MLF	600	LF	1.65	.036		990	22				
	USE 10% OF ABOVE FOR FITTINGS, SUPPORTS, ETC	1	LS				130	5				
	TOTAL THIS SHT.						1450	57				

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY | PRICED BY | DATE AUG 85 | SHEET ____ OF ____

JOB NO.: 6440-11 | CLIENT: DOE / PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA: MRS Support Facilities
DESCRIPTION: Security Bldg.
CAPACITY: Area #5

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	Security Bldg											
	2A Estimate - Direct Cost						1246600			26410		
	Less LA Prod. Factor									(1056)		
	2A Total Direct	9800	SF							25354		
	Escalation 2984 to 2985 = 0.042						52400					
	Total Direct Cost (2985)	9800	SF				1299000			25354		

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY V. MESEC | PRICED BY | DATE 12/17/80 | SHEET ____ OF ____

JOB NO.: 6440 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY D

UNIT/AREA MRS

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.42 SECURITY BLDG											
15	SITE WORK											
	CONCRETE						35 400	350	92 300			147 700
	MASONARY						11 700	950	24 400			36 100
	METALS						39 400	350	9 000			48 400
	WOOD & PLASTICS						-	-	-			-
	THERMAL MOIST.						31 100	790	20 300			51 400
	DOORS & WINDOWS						26 900	360	9 300			36 200
	FINISHES						26 900	2080	53 500			80 400
	SPECIALTIES						19 900	180	4 600			24 500
	EQUIPMENT						-	-	-			-
	FURNISHINGS						26 20	100	2 600			29 300
	SPECIAL CONSTRUCTION						-	-	-			-
	CONVEYING SYSTEMS						1 300	10	300			1 600
	MECHANICAL						89 300	2660	68 400			157 700
	ELECTRICAL						225 600	5960	123 700			469 300
	INSTRUMENTATION						62 400	9380	244 300			863 700
	CATHODIC PROTECTION											
	OTHER											
	SUB TOTAL						1 286 600	26440	699 700			1 986 300
	CONTRACTORS OH'D PROFIT	37%					461 200	...	258 900			720 100
	SUB-TOTAL						1 707 800	26440	958 600			2 666 400
	CONTINGENCY	20%					341 600	5280	191 700			533 300
	TOTAL						2 049 400	31720	1 150 300			3 199 700

CES-2000-0 (4/81)

PARSONS

Warm Wet Site — ESTIMATE WORKSHEET

M.T.O. BY	4P	PRICED BY	RUF / 4P	DATE	JUN' 84 / 10-23-84	SHEET 2 OF
JOB NO.	6440-10	CLIENT:	DOE	TYPE OF ESTIMATE	ROM	CHECKED BY
UNIT/AREA	MRB FACILITY					
DESCRIPTION						
CAPACITY	5,5,6 SUPPORT FACILITY					

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
42.	SECURITY BLDG											
7.19.5	CONCRETE WORK											
	GRADE BEAMS / WALL FOOTINGS	90	CY	65.88	3.28		5 930	295				
	SUSPENDED SLAB 10" & 8" TK	155	CY	67.64	4.1		10 480	636				
	SLAB ON GRADE	136	CY	63.20	2.28		8 600	310				
	BEAMS	15	CY	92.	11.05		1 380	166				
	WALLS 8" TK	137	CY	99.	9.46		13 560	1296				
	EARTHWORK - BULK EXCAVATION	2100	CY	-	.05		-	105				
	- BACKFILL	960	/	-	.09		-	86				
	- HAUL SURPLUS	1140	/	-	.14		-	160				
	REBAR	28	TON	550	14		15 400	392				
	TOTAL, CONC. WORK W/ PROD. 96%	3446	MH			25.72	55 400	3446 3590	92 300			147 700
7.20	MASONRY											
	SPLIT FACED BLOCK 8"	6100	SF	1.92	.15		11 700	915				
	TOTAL MASONRY W/ PROD. 96%	915	MH			25.73	11 700	950	24 400			86 100
	(LA BASIN)											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY RUF/4P | DATE Jun '84 / 10-23-84 | SHEET 3 OF ____

JOB NO. 6440-10 | CLIENT DOE | TYPE OF ESTIMATE R O M | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5,5,6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
42,	SECURITY BLDG.											
7.21	METALS											
	STRUCTURAL STEEL FRM'G	11	TON	1500	12		16 500	132				
	STAIRS INCL. RAILING - RISER	20	EA	100	.71		2 000	14				
	- LANDING	28	SF	5	.20		140	6				
	LADDER W/O CAGE	—	—	—	—		—	—				
	METAL DECKING	9200	SF	2.25	.02		20 700	184				
	TOTAL, METAL W/ PROD. 96%	336	MH			25.1%	39 400	336 350	9 000			48 400
7.23	THERMAL / MOISTURE PROTECTION											
	ROOFING, SINGLE PLY, BALLASTED	9200	SF	.80	.015		7 360	138				
	INSULATION - RIGID ON ROOF 2"	9200	/	.50	.01		4 600	92				
	- CAVITY WALL 3½" BATT	6100	/	.20	.005		1 220	31				
	METAL PANEL FACIA	400	LF	2.85	.07		1 140	28				
	METAL PANEL SOFFIT	1900	SF	4.70	.08		8 930	152				
	MISC. SHEET METAL/WD. BLK/ETC	ALLOW					4 000	100				
	SUN CONTROL - METAL PANEL 3'X7'	4	EA	210	3.5		840	14				
	MEMB. H₂O PROOF'G WALL BELOW GRADE 2-PLY	5000	SF	.60	.04		3 000	200				
	TOTAL, W/ PROD. 96%	755	MH			25.1%	31 100	755 790	20 300			51 400

CES-2000-0 (4/81) LA BASIN

PARSONS

WARM MGT. SITE — ESTIMATE WORKSHEET

M.T.O. BY	4P	PRICED BY	RUF / 4P	DATE	JUN '84 / 10-23-84
JOB NO.	6440-10	CLIENT	DOE	TYPE OF ESTIMATE	ROM
UNIT/AREA	MRS FACILITY				
DESCRIPTION					
CAPACITY	5.5.6 SUPPORT FACILITIES				

SHEET 4 OF ____ CHECKED BY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
42	SECURITY BLDG											
7.24.7	DOORS & WINDOWS											
	DOORS, FRM & HDWR											
	ALUM ENTRY DOORS, TEMP GLASS W/ 2' TRANSOM 6'-7"	3	EA	1400	27		4 200	81				
	H.M. DOOR, FLUSH, 16 GA - SGL	21	EA	400	4		8 400	84				
	" " " W/ TRANSOM + SECURITY LOCK DBL	8	EA	800	10		6 400	80				
	OVHD SECTIONAL DOOR, MANUAL 8' x 9'	1	EA	530	8		530	8				
	10' x 9'	3	EA	800	12		2 400	36				
	WINDOWS - ALUM STOREFRONT SYSTEM	500	SF	10.	.11		5 000	55				
	TOTAL, DOORS/WDOS W/ PROD. 96%	341	MH			25.7	26 900	341 360	9 300			36 200
	LA BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY RUF / 4P | DATE JUN '84 / 10-23-84 | SHEET 5 OF ____

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE R O M | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5,5,6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
42	SECURITY BLDG											
7.25.10	FINISHES											
	GYPSUM WALL BD 5/8" TK (2 FACE) ON 20 GA 3 5/8" MTL STUDS	5900	SF	1.23	.08		7 260	472				
	GYPSUM WALL BD - DITTO - (1 FACE)	0100	/	.79	.05		4 820	305				
	ACOUSTIC TILE CEILING, SUSPENDED	1500	SF	1.22	.02		1 830	30				
	SOUND ABSORBING PANEL, FIBERGLASS 1½"	207	/	5.85	.013		1 210	3				
	CERAMIC TILE - FLOOR	800	/	3.25	.09		2 600	72				
	- WALL	1000	/	1.40	.08		1 400	80				
	VINYL ASB. TILE - FLOOR	700	/	.90	.01		630	7				
	- COVE BASE	1000	LF	.46	.03		460	30				
	PAINTING - MASONRY	7630	SF	.25	.02		1 910	153				
	- CONC. WALL & CEILING	12 000	SF	.25	.025		3 000	300				
	- GYPSUM BD.	18 000	/	.08	.025		1 440	450				
	- STR'L STEEL FRM'G	3300	/	.02	.01		70	33				
	- LADDER	12	LF	.08	.04		-	1				
	- STAIRS INCL RAIL'G	20	RIS	.92	.40		20	8				
	- SECTIONAL DOORS	1000	SF	.04	.015		40	15				
	- HM DOORS - SINGLE	21	EA	5.-	1.2		110	25				
	- DOUBLE	8	PR	7.-	2.0		60	16				
								2000				
	TOTAL, FINISHES W/ PROD. 96%	2000	MH			25.72	26 900	2080	53 500			80 400

CES-2000-0 (4/81)

PARSONS

Warm MET Site

ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY 4P / RUF | DATE JUN '84 / 10-23-84 | SHEET 6 OF

JOB NO. 6440 -10 | CLIENT DOE | TYPE OF ESTIMATE R O M | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
42	SECURITY BLDG											
7.26	SPECIALTIES											
	TOILET PARTITION	2	EA	595	4		1 190	8				
	URINAL SCREEN	1	/	205	2		210	2				
	SHOWER STALL & DOOR	4	/	770	4		3 080	16				
	LOCKERS	60	/	89	1		5 340	60				
	BLDG. DIRECTORY, GLASS COVERED 3'X4'	1	/	530	8		530	8				
	SIGNAGE ALLOW	1	LS	800	8		800	8				
	PEDESTAL FLOOR	1100	SF	4.70	.03		5 170	33				
	WHEEL GUARD, C.I. 3' HI	4	EA	125	1.5		500	6				
	TOILET / BATH ACCESSORIES	1	LS	2000	20		2 000	20				
	FLOOR HATCH 4' X 6'	1	EA	1050	9		1 050	9				
								170				
	TOTAL, SPECIALTIES W/ PROD. 96%	170	MH			25.7≡	19 900	180	4 600			24 500
	LA BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY RUF/4P | DATE JUN '84/10-23-84 | SHEET 7 OF ____

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
42	SECURITY BLDG.											
7.28	FURNISHINGS											
	BLINDS	500	SF	8	.02		4 000	10				
	RECESSED FOOT GRILLE/MAT	110	/	17	.05		1 870	6				
	KITCHEN UNIT 10 LF	1	LS	1800	10		1 800	10				
	KITCHEN APPLIANCE - MICRO OVEN	1	EA	450	1		450	1				
	- REFRIGERATOR	1	EA	900	4		900	4				
	VENDING MACHINE ALLOW	1	LS	3700	10		3 700	10				
	LUNCH RM TABLE/CHAIRS	1	/	3200	10		3 200	10				
	OFFICE FURNITURES	1	/	9000	40		9 000	40				
	EXERCISE ROOM ALLOW	1	/	1800	8		1 800	8				
								99				
	TOTAL, FURNISHING W/ PROD. 96%	99	MH			25.7±	26 700	100	2 600			29 300
7.30	CONVEYING SYSTEMS											
	MONORAIL W/ PROD. 8 ÷ 96%	1	LS	1300	8	25.7±	1 300	10	300			1 600
	L A BASIN											

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

WARM WET SITE

M.T.O. BY BCA PRICED BY BCA DATE 11/14/84 SHEET 1 OF 2

JOB NO.: C440-10 CLIENT: TYPE OF ESTIMATE BOM CHECKED BY M

UNIT/AREA
DESCRIPTION
CAPACITY 5.5.6 SUPPORT FAC.

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
142	SECURITY BLDG											
7.31	MECH. SYSTEMS											
.16	PLUMBING						14 700	690				
.18	HVAC						38 800	1170				
.19	FIRE PROTECTION						35 800	690				
	SUB TOTAL						89 300	2550				
	PROD. 2550 ÷ 96%	2660	MH			25.72			68 400			
	TOTAL - MECH'L						89 300	2660	68 400			157 700
	LA BASIN											

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

Warm Wet Site

M.T.O. BY BGA PRICED BY BGA DATE 6/82 SHEET 9 OF

JOB NO. 6440-10 CLIENT: DOE TYPE OF ESTIMATE FIRM CHECKED BY W

UNIT/AREA

DESCRIPTION MRS FACILITY

CAPACITY S.S.C SUPPORT FAC.

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
.42	SECURITY BLDG											
7.31.16	PLUMBING -											
	FIXTURES ; SHOWER	5	EA	260	4		1300			20		
	W.C.	4	-	330	13		1320			52		
	LAV.	4	-	320	16		1280			64		
	U.R.	1	-	467	20		470			20		
	KITSK W/DISP.	1	-	560	25		560			25		
	EYE WASH EMERG.	1	-	550	16		550			16		
	S.S. BLR MTD.	1	-	451	24		450			24		
	EWC. PROCESSED	1	-	767	11		770			11		
	EWH, 100 gal, 12KW	1	-	1625	8		1630			8		
	PIPES + FITTINGS MTL = .46 × 9390 F LABS = 1.85 × 235	1	LS				4320			433		
	WATER CONTROL EQUIPT. MTL = .10 × 9550 L = .10 × 234	1	LS				960			23		
	VENT THRU ROOF, 4"ϕ	2	EA	120	25		240			5		
	FLOOR DRAIN	4	-	260	2		1040			8		
	FLOOR CLEAN OUT	4	-	110	2		440			8		
	S/T						14650			691		
	ADJ						+ 50			(-1)		
	TOTAL - PLBG						14700			690		

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY EGA | PRICED BY EGA | DATE 6/82 | SHEET 10 OF ____

JOB NO. 6440-10 | CLIENT: DOS | TYPE OF ESTIMATE ROM | CHECKED BY (M)

UNIT/AREA

DESCRIPTION MRS FACILITY

CAPACITY 5,5,C

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.42	SECURITY BLDG.											
7.31.18	HVAC											
	MULTI-ZONE SYSTEM, PACKAGE COMB. COOLING, 25 TONS, HEATING 320,000 BTU COMPLETE W/ STARTERS, CONTROLS + DUCT WORK	25	TN	1003	38		25080			950		
	BOILER, OIL FIRED C/W STD CONTROLS, FLAME RETENTION BURNER, C.I. W/ INSULATION	1	EA	—	—		9330			115		
	FUEL OIL DAY TANK C/W LEVEL GAGE	1	EA	—	—		1540			21		
	BATTERY RM. E.F.	1	EA	—	—		1540			10		
	TOILET - E.F.	1	✓	—	—		230			2		
	KITCHEN E.F.	1	✓	—	—		230			2		
	EXH. DUCT WORK GALV.	400	LB	1.20	.102		480			41		
	" " SST.	200	LB	1.79	.15		360			30		
	S/T						38790			1171		
	ADJ						+10			(-1)		
	TOTAL - HVAC						38800			1170		

CES-2000-0 (4/81)

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PARSONS

WARM WET SITE ESTIMATE WORKSHEET

M.T.O. BY EGA PRICED BY EGA DATE 6/82 SHEET 11 OF 11

JOB NO. 6440-10 CLIENT: DOE TYPE OF ESTIMATE FIRM CHECKED BY

UNIT/AREA

DESCRIPTION MRS FACILITY

CAPACITY 5.6.6

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.42	SECURITY BLDG											
7.31.19	FIRE PROTECTION SYSTEM:											
	SPRINKLERS	7843	SF	1.08	0585		8470			459		
	HALON SYST.	30980	CF	.80	.006		24780			186		
	FIRE EXTINGUISHER CAB. MTD	10	EA	250	4.		2500			40		
	S/T						35780			685		
	MOL.						+50			+5		
	TOTAL F.P.						35800			690		

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 10-26-84 | SHEET 1 OF 8

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
42	SECURITY BLDG											
7.32	ELECTRICAL SUMMARY											
	PWR GEAR SHT. 2						137 960	476				
	PWR DIST MG SHT. 3						9 820	282				
	4						62 480	733				
	5						10 260	292				
	LTG / COMM } SHT 6						66 060	3465				
	GR / FIRE ALARM } SHT. 7						8 010	420				
	LIGHTNING PROT SHT. 8						1 600	56				
	SUB TOTAL						295 620	5724				
	PROD 96%	5724	MH	÷	.96			5960				
	LABOR RATE	5960	MH			29.14			173 700			
	LA BASIN											
							295 600	5960	173 700			469 300

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 10-23-84 | SHEET 2 OF 8

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA

DESCRIPTION SECURITY BLDG

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECTRICAL 5.5.6.42.7.32											
	480V STAND BY UNIT SUBSTATION S/S 2-4	1	LS				123460	286				
	2 ~ 600A 5KV AIR INTERRUPTER SW											
	2 ~ 500KVA TX 4.16KV 480/277V 3Ø4W											
	6 ~ 800A CKT BKR											
	2 ~ 800A CKT BKR MAIN											
	1 ~ INTERLOCK WITH TRANSFER											
	480V CRITICAL LOAD CENTER PNL 24-2	1	LS				2500	33				
	11 ~ 100AF CKT BKR											
	480V LOAD CENTER PNL BOARD 24-1	1	LS				4000	59				
	5 ~ 100AF CKT BKR.											
	11 ~ SIZE-1- COMB MAG STR											
	480V UPS PNL BOARD 2-4-2A	1	LS				1500	18				
	5 ~ 100AF CKT BKR											
	1 ~ 100AF CKT BKR MAIN											
	PWR FEEDER FROM 480V SUBSTA	1	LS				3000	40				
	S/S 2-4 TO CRITICAL LOAD											
	CENTER PNL BOARD 2-4-2											
	PWR FEEDER FROM 480V SUBTA	1	LS				3000	40				
	S/S 2-4 TO LOAD CENTER PNL BOARD											
	2-4-1											
							137460	476				

CES-2000-0 (4/81)

PARSONS

Warm Wet Site

ESTIMATE WORKSHEET

M.T.O. BY FREDG | PRICED BY | DATE 10-23-84 | SHEET 3 OF 8

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA

DESCRIPTION SECURITY BLDG

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
	ELECTRICAL 5.5.6.42.7.32											
	3KVA TX 480-208/120V 3Ø	2	E	350	8.00		700	16				
	9KVA TX 480-208/120V 3Ø 4W	2	E	550	9.00		1100	18				
	15KVA TX 480-208/120V 3Ø4W	1	E	750	12.00		750	12				
	MTG TX	5	E	15.00	6.00		80	30				
	LTG PNL (LA & LB)	2	E	800	20.00		1600	40				
	LTG PNL (RA & RB)	2	E	800	16.50		1600	33				
	LTG PNL (EMERG EXIT LIGHTS)	1	E	800	16.50		800	17				
	LTG PNL (EMERG & SECURITY LTG)	1	E	800	16.50		800	17				
	MTG PNLS	6	E	15.00	6.00		90	36				
	INST & COMPUTER DIST PNLS	2	E	750	15.00		1500	30				
	ESSENTIAL LTG PNL BOARD	1	E	750	15.00		750	15				
	MTG	3	E	15.00	6.00		50	18				
	TOTAL THIS SHT						9820	282				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY [illegible] | DATE 11/14/84 | SHEET 4 OF 8

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY (M)

UNIT/AREA

DESCRIPTION SECURITY BLDG

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECTRICAL 5.5.6.42.7.32											
	30 KVA UPS SYSTEM (802)	1	LS	35000	40		35000	35				
	125V UPS BATTERYS (802)	1	LS	20000	25		20000	25				
	480V MTR CONNECTIONS											
	10 HP	6	E	1.50	2.00		10	12				
	20 HP	2	E	2.80	2.15		10	4				
	PWR CONNECTIONS											
	WATER HTR 3 KW	1	E	2.80	2.15		—	2				
	ACU 800 AIR COND UNIT	2	LS	10000	7.00		20	14				
	19 KW COMP & 2 FANS											
	DRY 70S PLANT AIR	1	LS				10	3				
	MOTOR RUNS (150' RUN)											
	10 HP	6	E	444	45.2		2660	271				
	20 HP	2	E	577	52.3		1150	105				
	HOT WATER HTR RUNS (150')	1	E	444	45.2		440	45				
	ACCU 800 & 801 AIR COOLED CONDENSING UNIT	3	E	1037	72.2		3110	217				
	TOTAL THIS SHT.						62 410	733				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY FREDG PRICED BY DATE 11/14/84 SHEET 5 OF 8

JOB NO.: 6440-10 CLIENT: PNL/DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA

DESCRIPTION SECURITY BLDG

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
	ELECTRICAL 5.5.6.42 7.32											
	LTG PNL CONDUIT RUN (150'RUN)	6	E	1500	30		9000	180				
	DRY 70S PLANT AIR CONDUIT RUN (150')	1	E	24.80	21.98		240	22				
	UPS CONDUIT RUN (150')	1	E	300.00	23.63		300	24				
	INST & COMPUTER CONDUIT RUN (150')	2	E	240.00	22.00		480	44				
	ESSENTIAL LTG PNL CONDUIT RUN (150')	1	E	240.00	22.00		240	22				
	TOTAL THIS SHT.						10260	292				

CES-2000-0 (4/81)

PARSONS

WARM DET SITE — ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 10-23-84 | SHEET 6 OF 8
JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY
UNIT/AREA
DESCRIPTION SECURITY BLDG
CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.42.7.32											
	LIGHTING & RECEP ~											
	GR LEVEL 108'X68' = 7344											
	LOWER LEVEL 62'X43' = 2666											
	10,010 □'											
	10010 □' X $15/□' = $150150											
	USE 40% MATL & 60% LABOR											
	MATL $150150 X .40 = $60060											
	LABOR 150150 X .60 = 90090											
	$90090 ÷ $28.58/MH = 3152 MH											
	USE	1	LS				60060	3150				
	COMM ~											
	10010 □'											
	10010 □' X $1.50/□' = $15015											
	USE 40% MAT & 60% LABOR											
	$15015 X .40 = $6006											
	15015 X .60 = 9009											
	$9009 ÷ $28.58/MH = 315 MH											
	USE	1	LS				6000	315				
	TOTAL THIS SHT.						66060	3465				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY FREDG PRICED BY DS DATE 10-23-84 SHEET 7 OF 8

JOB NO.: 6440-10 CLIENT: PNL/DOE TYPE OF ESTIMATE ROM CHECKED BY (M)

UNIT/AREA

DESCRIPTION SECURITY BLDG

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.42.7.32											
	GROUNDING. —											
	10010 □'											
	$10010 X $0.50/□' = $5005											
	USE 40% MATL & 60% LABOR											
	MATL $5005 X .40 = $2002											
	LABOR 5005 X .60 = 3003											
	$3003 ÷ $28.58/MH = 105											
	USE	1	LS				2000	105				
1	FIRE ALARM —											
	10010 □'											
	10010 □' X $1.50/□' = $15015											
	USE 40% MATL & 60% LABOR											
	MATL $15015 X .40 = $6006											
	LABOR 15015 X .60 = 9009											
	$9009 ÷ $28.58/MH = 315											
	USE	1	LS				6010	315				
	TOTAL THIS SHT.						8010	420				

CES-2000-0 (4/81)

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PARSONS

WARM WGT SITE — ESTIMATE WORKSHEET

M.T.O. BY E FONG | PRICED BY E FONG | DATE 11/14/80 | SHEET 8 OF 8

JOB NO. 6440 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA SECURITY BUILDING

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.42.7.32 - ELECT'L											
	LIGHTNING PROTECTION											
	AIR TERMINALS, COPPER 1/2"	26	EA	11.00	1.0		280	26				
	CABLE, COPPER 375#/MLF	700	LF	1.65	.036		1160	25				
	USE 10% OF ABOVE FOR FITTINGS SUPPORTS ETC.	1	LS				150	5				
		1										
	TOTAL THIS SHT.						1600	56				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY CEH | PRICED BY CEH/AQ | DATE NOV. 1984 | SHEET 1 OF 2

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE: BUDGETARY | CHECKED BY (M)

UNIT/AREA: SECURITY BUILDING

DESCRIPTION: INST'N & CONTROL EQUIP'T.

CAPACITY: 5.5.6.42

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
7.33	INSTRUMENTATION											
1	SECURITY COMPUTER SYSTEM, FORNEY ECS-1200, CONSISTING OF THE FOLLOWING:	1	LOT	604277	9000		604277	9000				
	CRT OPERATOR'S CONSOLE CONTAINING: 2 EA. AUXILIARY KEYBOARDS, ALARM HORN, DOT MATRIX PRINTER, CCTV SWITCHING & CONTROL EQUIPMENT, AND SECURITY EQUIPMENT I/O CABINETS CONTAINING I/O CONTROL UNITS, I/O EQUIPMENT, AND CRT CONTROL UNITS, A PORTABLE PROGRAMMER PANEL WILL ALSO BE INCLUDED.	1	EA	316200.			—					
	A CCTV & MOTION DETECTION SYSTEM INCLUDING	1	EA	288077			—					
	MOTION DETECTORS, CHANNEL MASKING UNITS LIGHT PENS, AUTORANGING UNITS, VIDEO TAPE RECORDER SWITCHERS, PTZ CONTROLS, 6 EA. B&W MONITORS, ISOLATION TRANSFORMERS & 3 EA. VIDEO TAPE RECORDERS.											
	NOTE: THE ALARM MONITORING EQUIP'T. LISTED UNDER 5.5.6.53.7.27.13.2 IS INCLUDED IN THE ABOVE SECURITY COMPUTER SYSTEM. (LIKEWISE, THE CCTV EQUIP'T. LISTED UNDER 5.5.7.55.42.27.27 IS INCLUDED.)											
	CARRY FWD TO SHT. 2	1	LOT				604300	9000				

CES-2000-0 (4/81)

PARSONS

Warm Wet Site — ESTIMATE WORKSHEET

M.T.O. BY CEH | PRICED BY CEH / AQ | DATE NOV. 1984 | SHEET 2 OF 2

JOB NO.: 6440 – 10 | CLIENT: PNL / DOE | TYPE OF ESTIMATE BUDGETARY | CHECKED BY

UNIT/AREA SECURITY BLDG DESCRIPTION CAPACITY	ACCNT	QUANTITY	UNIT	COST OR M/HRS PER UNIT: MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT: M/HRS	SUBCONTRACT: DOLLARS	LABOR: M/HRS	LABOR: DOLLARS	TOTAL DOLLARS
	5.5.6.42.7.33											
FROM SHT. 1		1	LOT				604 300	9600				
PRODUCTIVITY = 96 %								9380				
LABOR COST		(9380)	MH			25.72			241 300			
FREIGHT, 3 %		1	LOT				18 100					
TOTAL		1	LOT				$ 622 400	9380	241 300			$ 863 700
LA BASIN												

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY | PRICED BY | DATE AUG 85 | SHEET ____ OF ____

JOB NO.: 6440-11 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS Support Facilities

DESCRIPTION Main Gate - Badge House

CAPACITY Area #5

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	Main Gate - Badge House											
	2A Estimate - Direct Cost						147500			4470		
	Less LA Prod. Factor									(179)		
	2A Total Direct						147500			4291		
	Escalation 2Q84 to 2Q85 = 0.042						6200					
	Total Direct Cost (2Q85)	1500	SF				153700			4291		

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY V. MESEC | PRICED BY | DATE 12/17/80 | SHEET ____ OF ____

JOB NO.: 6440 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.43 MAINGATE BADGE HOUSE											
4	SITE WORK											
	CONCRETE						9000	470	12100			21100
	MASONARY						6400	500	12900			19300
	METALS						39200	340	8700			47900
	WOOD & PLASTICS						0	0	0			0
	THERMAL MOIST.						19500	420	10800			30300
	DOORS & WINDOWS						11800	270	6900			18700
	FINISHES						9100	620	15900			25000
	SPECIALTIES						1300	10	300			1600
	EQUIPMENT						0	0	0			0
	FURNISHINGS						6200	20	500			6700
	SPECIAL CONSTRUCTION						7400	70	1800			9200
	CONVEYING SYSTEMS						0	0	0			0
	MECHANICAL						11300	560	14400			25700
	ELECTRICAL						26600	1190	34800			61400
	INSTRUMENTATION						0	0	0			0
	CATHODIC PROTECTION						0	0	0			0
	OTHER						0	0	0			0
	SUB-TOTAL						147500	4470	119100			266600
	CONTRACTORS OH'D PROFIT	37%					54600		44000			98600
	SUB-TOTAL						202100	4470	163100			365200
	CONTINGENCY	20%					40400	890	32600			73000
	TOTAL						242500	5360	195700			438200

CES-2000-0 (4/81)

PARSONS

WARM MIST SITE — ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY 4P | DATE JUN '84 | SHEET 2 OF ____
JOB NO. 9440-10 | CLIENT: | TYPE OF ESTIMATE ROM | CHECKED BY
UNIT/AREA MRS FACILITY
DESCRIPTION
CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
43	MAIN GATE / BADGE HOUSE											
7.19.5	CONCRETE WORK											
	COLUMN FOOTING	5	CY	82.05	6.7		410	34				
	WALL FOOTING	30	✓	65.88	3.28		1980	98				
	SLAB ON GRADE	38	/	63.20	2.28		2400	87				
	SUSPENDED SLAB	8	/	67.44	4.1		540	33				
	WALLS	15	/	99.80	9.46		1490	142				
	REBAR	4	TON	550	14		2200 (10)	56				
	S / T						9000	450				
	96 % PROD.					25.72		470		12 100		21 100
7.20	MASONRY											
	SPLIT FACED BLOCK 8"	3190	SF	1.93	0.15		6100	479				
	96 % PROD					25.72		500		12 900		19 000
7.21	METALS											
	STRUCTURAL STEEL FRM'G	20	TON	1500	12		30000	240				
	METAL DECK'G -	4100	SF	2.25	0.02		9220 (20)	82				
	S / T						39200	322				
	96% PROD.					25.72		340		8 700		47900
	LA BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY 4P | DATE JUN '84 | SHEET 3 OF ____

JOB NO. 6440-10 | CLIENT DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
43	MAIN GATE / BADGE HOUSE											
7.23	THERMAL / MOISTURE PROTECTION											
	ROOFING, SINGLE PLY, BALLASTED	4300	SF	0.80	0.015		3440	65				
	INSULATION - ON ROOF	4300	/	0.50	0.01		2150	43				
	- ON CAVITY WALL	2900	/	0.20	0.005		580	15				
	METAL PANEL FACIA	1700	/	2.85	0.07		4850	119				
	METAL PANEL SOFFIT	1000	/	4.70	0.08		4700	80				
	MISC. GHT. METAL / WD. BLK / ETC			25%			3790	77				
							(10)					
	S / T						19500	399				
	96% PROD.					25.72		420	10800			30200
7.24.7	DOORS & WINDOWS											
	H.M. DOOR, HALF GLASS, H.M. FRM & H.M. TRANSOM - 3° 7²	4	EA	500.	6		2000	24				
	- 6° - 7²	6	/	700.	8		4200	48				
	H.M. DOOR & FRM - 3° - 7²	3	/	400.	4		1200	12				
	WINDOWS - ALUM. SASH FIXED GLASS	132	SF	7.51	0.08		990	11				
	BULLET PROOF GLASS	168	✓	20.	1.0		3360	168				
							50					
	S / T						11800	263				
	LA BASIN 96% PROD					25.72		270	6900			18700

CES-2000-0 (4/81)

PARSONS

WARM WGT SITE — ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY 4P | DATE JUN '84 | SHEET 4 OF ____

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE R O M | CHECKED BY (M)

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
43	MAIN GATE / BADGE HOUSE											
7.25.80	FINISHES											
	GYPSUM WALL BD 5/8" TK (1 FACE) ON 3 5/8 MTL STUDS	2900	SF	1.23	0.08		3570	232				
	GYPSUM WALL BD - DITTO - (1 FACE)	900	/	0.79	0.05		710	45				
	ACOUSTIC CEILING ON SUSPENSION SYSTEM	1660	/	1.22	0.02		2030	33				
	VINYL ASB. TILE - FLOOR	1380	/	0.90	0.01		1240	14				
	- BASE	420	LF	0.46	0.03		190	13				
	PAINTING - MASONRY	3190	SF	0.25	0.02		800	64				
	- GYPSUM WALL	4700	/	0.08	0.025		380	118				
	- STRUCT'L STL. FRM	6000	/	0.02	0.01		120	60				
	- DOORS & FRM - SINGLE	7	EA	5.	1.2		40	8				
	- DOUBLE	5	/	7.	2		80	10				
							(10)					
	S/T						9100	597				
	L.A. BASIN 96% PROD.					25.72		620		15900		25000

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY	4P	PRICED BY	4P	DATE	JUN '84
JOB NO.	G440-10	CLIENT	DOE	TYPE OF ESTIMATE	ROM
UNIT/AREA	MRS FACILITY				
DESCRIPTION					
CAPACITY	5.5.6 SUPPORT FACILITIES				

SHEET 5 OF ____ CHECKED BY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
43	MAIN GATE / BADGE HOUSE											
7.26	SPECIALTIES											
	TOILET RM ACCESSORIES	1	LS	1000	10		1000	10				
	SIGNAGE ALLOW	1	✓	300	2		300	2				
								(2)				
	S/T						1300					
	96% PROD					25.72	LLSE	10	300			1600
7.28	FURNISHINGS											
	CABINET WORK	24	LF	60.	0.5		1440	12				
	GUARD / WAITING FURNITURES	1	LS	2000	2		2000	2				
	RECESSED FOOT GRILLE / MAT	160	SF	17.	0.05		2720	8				
							40					
	S/T						6200	(2)				
	96% PROD.					25.72	LLSE	20	500			6700
7.29	SPECIAL CONSTRUCTION											
	ELECT. OPERATED TRAFFIC GATE	2	EA	2100	15		4200	30				
	ELECT OPERATOR FOR SLIDE GATE	1	✓	2000	24		2000	24				
	SLIDE GATE 6'H x 25'W, GALV. STL.	1	PR	1200	15		1200	15				
	S/T						7400	69				
	96% PROD					25.72		70	1800			9200
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY BGA | PRICED BY BGA | DATE 6/84 | SHEET 6 OF ____

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA
DESCRIPTION MRS FACILITY
CAPACITY 5.5.6 SUPPORT FAC.

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.43	MAIN GATE BADGE HOUSE											
	SUMMARY											
7.31	MECHANICAL SYSTEMS											
.16	PLUMBING						4300	250				
.18	HVAC						4300	150				
.19	FIRE PROTECTION						2700	140				
	SUB TOTAL						11300	540				
	PROD. 540 ÷ 96 %	560	MH			25.72			14400			
								560				
	L.A. BASIN TOTAL MECH'L						11300		14400			25700

CES-2000-0 (4/81)

PARSONS

WARM WGT SITE — ESTIMATE WORKSHEET

M.T.O. BY BGA | PRICED BY BGA | DATE 6/82 | SHEET 7 OF 8

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE FIRM | CHECKED BY

UNIT/AREA

DESCRIPTION AIR'S FACILITY

CAPACITY 5,560

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.43	MAIN GATE BADGE HOUSE											
7.31.16	PLUMBING -											
	FIXTURES: W.C.	2	EA	330	13		660			26		
	LAV	2	/	320	16		640			32		
	EWC	1	/	267	11		270			11		
	EWH, 6gal	1	-	680	4		680			4		
	PIPE & FITTINGS (M=.46×2790 F) (L=1.85×80)	1	LS				1260			148		
	WATER CONTROL EQUIPT, M=.10×EM L=.10×FL	1	LS				270			8		
	VENT THRU ROOF	1	EA	120	2.5		120			3		
	FLOOR DRAIN	1	/	260	2		260			2		
	FLOOR CLEAN-OUT	1	-	110	2		110			2		
	S/T						4270			236		
	PROD. = 96% =						4270			246		
	ROUND-OFF ADJ						+30			+4		
	TOTAL - PLBG						4300			250		

CES-2000-0 (4/81)

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PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY RGA | PRICED BY RGA | DATE 6/84 | SHEET 8 OF ____

JOB NO. 6440-10 | CLIENT: LOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA

DESCRIPTION MISC FACILITY

CAPACITY 5.56

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
143	MAIN GATE BADGE HOUSE											
7.31.18	HVAC											
	ROOF TOP PACKAGE UNIT, 90MB. HEATING-COOLING UNIT C/W CURB, STARTERS, CONTROLS & AIR DUCT,	4	TN	995	32		3980			128		
	TOILET RM EF	1	EA	230	1.5		230			2		
	GALV EXH. DUCT	100	LB	1.20	.102		120			10		
	S/T						4330			140		
	PROD. 96%						4330			146		
	ADJ						(30)			+4		
	TOTAL HVAC						4300			150		

CES-2000-0 (4/81)

PARSONS

Warm Met Site — ESTIMATE WORKSHEET

M.T.O. BY EGA | PRICED BY EGA | DATE 6/82 | SHEET 9 OF 9

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE FIRM | CHECKED BY

UNIT/AREA

DESCRIPTION MISC FACILITY

CAPACITY 5.5.6

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
143	MAIN GATE BADGE HOUSE											
7.3.1.9	FIRE PROTECTION SYSTEM											
	AUTOMATIC SPRINKLER SYST.	1491	SF	1.33	.08		1980			119		
	FIRE EXTINGUISHING CAB MTD	3	EA	250	4		750			12		
	S/T						2730			131		
	PROD = 96%						2730			136		
	ADJ						(30)			+4		
	TOTAL F.P.						2700			140		

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

WARM WET. SITE

M.T.O. BY FRED G | PRICED BY | DATE 10-26-84 | SHEET 1 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA M R 9, FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
43	MAIN GATE - BADGE HOUSE											
7.32	ELECTRICAL - SUMMARY											
	PWR GEAR PWR DIST AG } SHT. 2						5 200	121				
	PWR DIST AG SHT. 3						4 900	222				
	LTG COMM } SHT. 4						11 900	626				
	GND FIRE ALARM } SHT. 5						1 700	90				
	LIGHTNING PROT. SHT. 6						700	24				
	HI-BAY LTG " 7						2200	62				
	SUB TOTAL						26 600	1145				
	PROD 96%	1145	MH	÷	.96			1190				
	LABOR RATE	1190	MH			29.14			34 800			
	L.A. BASIN											
							26 600		34 800			61 400
								1190				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE ESTIMATE WORKSHEET

M.T.O. BY FRED G PRICED BY DATE 10-24-84 SHEET 2 OF 2

JOB NO.: 6440-10 CLIENT: PNL/DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA

DESCRIPTION MAIN GATE/BADGE HOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.4.43.7.32											
	480V LOAD CENTER PNL BOARD 1-3-1A 11 ~ 100 AF CKT BKR 1 ~ 100 AF CKT BKR MAIN	1	LS				2500	36				
	FEEDER FROM ADMINISTRATION BLDG MCC 1-3-1	1	LS		—		—	—		W/ U.G. UTILITIES		
	6KVA TX 480V-208/120V 3 Ø 4 W	1	E	450	8.00		450	8				
	9KVA TX 480V-208/120V 3 Ø 4 W	1	E	550	9.00		550	9				
	MTG PNL (RA & LA)	2	E	800	16.50		1600	33				
	MTG MATL	4	E	15.00	6.00		60	24				
	480V MTR CONNECTIONS 10HP	2	E	1.50	2.00		—	4				
	PWR CONNECTIONS ACU 801 HEAT PUMP UNIT	1	E	30-	7 —		30	7				
	TOTAL THIS SHT.						5190	121				

CES-2000-0 (4/81)

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PARSONS

Hard Wet Site

ESTIMATE WORKSHEET

M.T.O. BY FREDS | PRICED BY | DATE 10-24-84 | SHEET 3 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE Roth | CHECKED BY

UNIT/AREA

DESCRIPTION MAIN GATE/BADGE HOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.43.7.32											
	480V MTR RUNS (150') 10 HP	2	E	444	45.2		890	90				
	ACU 801 HEAT PUMP UNIT 150' RUN	1	E	1087	72.2		1090	72				
	LTG PNL CONDUIT RUNS (150')	2	E	1500	30.00		3000	60				
	TOTAL THIS SHT						4930	222				

CES-2000-0 (4/81)

Waem Wet. Site

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY FEED G | PRICED BY | DATE 10-24-84 | SHEET 4 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ZOM | CHECKED BY

UNIT/AREA

DESCRIPTION MAINGATE / BADGE HOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 55.6.43.7.32											
	LIGHTING & RECEP											
	40'6" x 30' = 1218											
	26' x 57 = 1482											
	2700 □'											
	$ 2700 □' x $ 10.00/□' = $ 27000											
	USE 40% MATL & 60% LABOR											
	MATL $ 27000 x .40 = $ 10800											
	LABOR 27000 x .60 $ 16200											
	$ 16200 ÷ $ 28.58/MH = 566											
	USE						10800	566				
	COMM											
	2700 □'											
	$ 2700 □' x $ 1.00/□' = $ 2700											
	USE 40% MATL & 60% LABOR											
	MATL $ 2700 x .40 = $ 1080											
	LABOR 2700 x .60 = 1620											
	$ 1620 ÷ $ 28.58/MH = 57											
	USE						1100	60				
	TOTAL THIS SHT.						11900	626				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY [illegible] | DATE 10-24-84 | SHEET 5 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY [illegible]

UNIT/AREA

DESCRIPTION MAINGATE/BADGE HOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT: MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT: M/HRS	SUBCONTRACT: DOLLARS	LABOR: M/HRS	LABOR: DOLLARS	TOTAL DOLLARS
	ELECTRICAL 5.5.6.43.7.32											
	GROUNDING —											
	2700 □'											
	2700 □' x $0.50/□' = $1350											
	USE 40% MATL & 60% LABOR											
	MATL $1350 x .40 = $540											
	LABOR 1350 x .60 = 810											
	$810 ÷ $28.58/MH = 28 MH											
	USE	1	LS				550	30				
	FIRE ALARM —											
	2700 □'											
	2700 □' x $1.10/□' = $2970											
	USE 40% MATL & 60% LABOR											
	MATL $2970 x .40 = $1188											
	LABOR 2970 x .60 1782											
	$1782 ÷ $28.68/MH = 62											
	USE	1	LS				1190	60				
	TOTAL THIS SHT.						1740	90				

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

WARM WET SITE

M.T.O. BY FRED G PRICED BY [illegible] DATE 10-24-84 SHEET 6 OF 7

JOB NO.: 6440-10 CLIENT: PNL/DOE TYPE OF ESTIMATE ROM CHECKED BY [illegible]

UNIT/AREA

DESCRIPTION MAINGATE / BADGEHOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
	ELECT'L 5.5.6.43.7.32											
	LIGHTNING PROTECTION AIR TERMINALS COPPER 1/2"	11	EA	11.00	1.00		120	11				
	CABLE COPPER 375/MLF	300	FT	1.65	.036		500	11				
	USE 10% OF ABOVE FOR FITTINGS SUPPORTS ETC	1	LS				60	2				
	TOTAL THIS SHT						680	24				

CES-2000-0 (4/81)

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PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY E FONG | PRICED BY | DATE 10-31-84 | SHEET 2 OF 2

JOB NO. 6440 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | (M) CHECKED BY

UNIT/AREA MAIN GATE/BADGE HOUSE

DESCRIPTION VEHICLE INSPECTION AREA

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.43.7.32											
	HIGH BAY LIGHTING FIXTURES HOLOPHANE # PRSL 2.50HP27QDG35FI	9	EA	200	3.50		1800	32				
	3/4" RIGID STEEL CONDUIT	200	LF	.91	.08		180	16				
	#12 THW WIRE	800	LF	.100	.008		80	6				
	Supports & FTG (50% of RGS)	1	LS	—			90	8				
							2150	62				

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY | PRICED BY | DATE AUG 95 | SHEET ____ OF ____

JOB NO.: 6440-11 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA: MRS Support Facilities
DESCRIPTION: Gate House & Inspection Sta.
CAPACITY: Area #5

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	Gate House & Inspection Station											
	2A Estimate - Direct Cost						391600			9130		
	Less LA Prod. Factor									(365)		
	2A Total Direct						391600			8765		
	Escalation 2Q84 to 2Q85=0.042						16450					
	Total Direct Cost (2Q85) Bldg 2	1200	SF				408050			8765		
	Roof Canopy	10310	SF		use		408000					

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY V. MESEC PRICED BY DATE 12/17/84 SHEET ____ OF ____

JOB NO.: 6440 CLIENT: DOE/PNL TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA

DESCRIPTION INSPECTION GATE HOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.44											
.6	SITE WORK											
	CONCRETE						$ 30 300	1450	$ 37 300			$ 67 600
	MASONARY						8400	630	16 200			24 600
	METALS						169 000	1400	36 000			205 000
	WOOD & PLASTICS											
	THERMAL MOIST.						41 500	890	22 900			64 400
	DOORS & WINDOWS						8600	140	3600			12 200
	FINISHES						4600	520	13 400			18 000
	~~SPECIALTIES~~						18 000	210	5400			23 400
	EQUIPMENT											
	FURNISHINGS						3800	10	300			4100
	SPECIAL CONSTRUCTION											
	CONVEYING SYSTEMS											
	MECHANICAL						9400	410	10 600			20 000
	ELECTRICAL						98 000	3470	101 100			199 100
	INSTRUMENTATION											
	CATHODIC PROTECTION											
	OTHER											
	SUB TOTAL						$ 321 600	9130	$ 246 800			$ 636 400
	CONTRACTORS O&P	37%					144 900	—	91 300			236 200
	SUB TOTAL						536 500	9130	338 100			874 600
	CONTINGENCY	20%					107 300	1830	67 600			174 900
	TOTAL 5.56.44						643 800	10960	405 700			1049 500

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY 4P | DATE JUN '84 | SHEET 2 OF ____
JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY
UNIT/AREA MRS FACILITY
DESCRIPTION
CAPACITY S.S.G SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
44	INSPECTION GATEHOUSE											
7.19.5	CONCRETE WORK											
	COLUMN - FOOTING	32	CY	82.05	6.34		2630	203				
	- PEDESTAL	4	/	105.20	9.76		420	39				
	WALL FOOTING	78	/	65.88	3.28		5140	256				
	PERIMETER FDN. INSULATION	432	SF	0.60	0.04		260	17				
	SLAB ON GRADE	214	/	63.20	2.28		13520	488				
	SUSPENDED SLAB	18	/	67.64	4.1		1220	74				
	WALLS & PIT 8" TK	—	/									
	REBAR	13	TON	550	14		7160	182				
	EARTHWORK & PIT - EXCAVATION	850	CY	-	0.05			43				
	- BACKFILL	490	/	-	0.09			44				
	- HAUL SURPLUS	360	/	-	0.14			50				
								(40)				
	S|T						80 200	1396				
	96% PROD					25.72		1450	37 300			67 600
7.20	MASONRY											
	SPLIT FACED BLOCKS - 12"	8011	SF	2.48	0.19		1990	153				
	- 8"	492	/	1.92	0.15		940	74				
	HOLLOW BLOCKS - 12"	424	/	2.24	0.15		950	64				
	- 8"	2609	✓	1.74	0.12		4540	313				
							(20)					
	S|T						8400	604				
	96% PROD					25.72		630	16800			28680 6375

CES-2000-0 (4/81)

PARSONS

Warm Wet. Site — ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY 4P | DATE JUN '84 | SHEET 3 OF ____

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE R O M | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
44	INSPECTION GATEHOUSE											
7.21	METALS											
	STRUCTURAL STEEL FRM'G	83	TON	1500	12		124500	996				
	METAL DECK ON ROOF	11100	SF	1.25	0.02		24980	222				
	RAILS	13	T	1500	10		19500	130				
							169020	1348				
	S/T 96% PROD					25.72		1400	36000			205000
7.23	THERMAL / MOISTURE PROTECTION											
	ROOFING, SINGLE PLY, BALLASTED	11622	SF	0.80	0.015		9300	174				
	INSULATION - ON ROOF	11622	"	0.50	0.01		5810	116				
	- ON CAVITY WALL	1300	"	0.20	0.005		260	7				
	METAL PANEL FACIA	2330	"	2.85	0.07		6640	163				
	METAL PANEL SOFFIT	2016	"	4.79	0.08		9480	161				
	MISC. SHEET METAL / WD. BLK / ETC	1	LS	25%			8250	170				
	ROOF DRAIN, OVERFLOW SCUPPER & D-SPOUTS	8	EA	220.	8		1760	64				
							41500	855				
	S/T 96% PROD					26.72		890	22900			64400
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY 4P | DATE JUN '84 | SHEET 4 OF 8
JOB NO. 6440-10 | CLIENT DOE | TYPE OF ESTIMATE ROM | CHECKED BY (M)
UNIT/AREA MRS FACILITY
DESCRIPTION
CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
44	INSPECTION GATEHOUSE											
7.24.7	DOORS & WINDOWS											
	DOORS, FRM & HDWR											
	HM FLUSH, DBL INSULATED GLASS (50%) PM FRM 3'-7"	—	EA									
	BULLET PROOF METAL DOOR | FRM 3'-7"	1	/	1200.	16		2200	15				
	METAL DOOR, BULLET PROOF GLASS (50%) " " FRM 3'-7"	2	/	1200	16		2400	30				
	WOOD H.C. SGL GLASS (50%) PM FRM 3'-7"	—	EA									
	WOOD H.C. NO GLASS PM FRM 3'-7"	2	/	300.	4		600	8				
	WINDOWS - ALUM FRM, FIXED, DBL INSULATED GLASS	—	SF									
	- BULLET PROOF FRM & GLASS, FIXED	85	SF	40.	1		3400	85				
	S|T						8600	138				
	96% PROD.					25.%		140	3600			12200
	L.A. BASIN											

PARSONS

Waem WET SITE

ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY 4P | DATE JUN '84 | SHEET 5 OF

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
44	INSPECTION GATE HOUSE											
7.25.10	FINISHES											
	GYPSUM WALL BD. 5/8" TK (1 FACE) ON 20 GA 3-5/8 MTL STUDS	1608	SF	1.23	0.08		1980	129				
	GYPSUM WALL BD - DITTO - (1 FACE)	252	"	0.79	0.05		200	13				
	ACOUSTIC TILE CEILING - SUSPENSION SYSTEM	600	/	1.23	0.02		730	12				
	VINYL ASB. TILE - FLOOR	600	/	0.90	0.01		540	6				
	- BASE	200	LF	0.46	0.03		90	6				
	PAINTING - MASONRY	1300	SF	0.25	0.02		330	26				
	- GYPSUM BD.	2110	/	0.08	0.025		170	53				
	- STRUC'L STL FRM'G	24900	/	0.02	0.01		500	249				
	- DOORS & FRM SINGLE	5	EA	5.	1.2		30	6				
							30					
							4600	500				
	S/T 96% PROD					25.72		520		13400		18000
	L.A. BASIN											

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PARSONS

Nacm WET SITE — ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY 4P | DATE JUN '84 | SHEET 6 OF

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
44	INSPECTION GATEHOUSE											
7.26	SPECIALTIES											
	TOILET RM ACCESSORIES	1	LS	1000.	10		1000	10				
	SIGNAGE ALLOW	1	LS	250	2		250	2				
	SLIDING GATE	3	EA	2000	24		6000	72				
	SECURITY GATES, MOTORIZED, 30'OP	2	PR	5000	50		10000	100				
	CHAIN LINK ENCLOSURE W/GATES	300	SF	2.40	0.05		720	15				
	S/T						18000	199				
	96% PROD					25.72		210	5400			23400
7.28	FURNISHINGS											
	CABINET WORK - BASE & WALL	18	LF	60.	0.05		1080	1				
	GUARD RM. FURNITURES ALLOW	1	LS	1000.	2		1000	2				
	VENDING MACHINES	—	—									
	RECESSED FOOT GRILLE / MAT	100	SF	17	0.05		1700	5				
							20					
	S/T						3800	8				
	96% PROD.					25.73	USE	10	300			4100
	L.A. BASIN											

CES-2000-0 (4/81)

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PARSONS

ESTIMATE WORKSHEET

HARM NET SITE

M.T.O. BY BGA PRICED BY BGA DATE 6/84 SHEET 7 OF

JOB NO. 6440-10 CLIENT: DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA

DESCRIPTION MRS FACILITY

CAPACITY 5,5,6 SUPPORT FAC.

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.44	GATE HOUSE & INSPECTION STA.											
	SUMMARY											
		REF. SHT										
7.31	MECH. SYSTEMS											
.16	PLUMBING	8 OF 10					4300	250	6400			
.18	HVAC	9 OF 10					4300	150	3900			
.19	FIRE PROTECTION	10 OF 10					800	10	300			
	TOTAL						9400	410	10600			20000
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY RGA | PRICED BY EGA | DATE 6/82 | SHEET 8 OF ____

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE FOOM | CHECKED BY

UNIT/AREA

DESCRIPTION MRS FACILITY

CAPACITY 5,5C

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.44	GATE HOUSE & INSPECT STA											
7.31.16	PLUMBING											
	FIXTURES: W.C.	2	EA	330	13		660			26		
	LAV	2	"	320	16		640			32		
	EWC	1	"	267	11		270			11		
	EWH, 6 gal	1	"	680	4		680			4		
	PIPES + FITTINGS	1	LS				1260			148		
	WATER CONTROL EQUIPT	1	LS				270			8		
	VENT THRU ROOF	1	EA	120	2.5		120			3		
	FLOOR DRAIN	1	"	260	2.		260			2		
	FLOOR C.O.	1	"	110	2.		110			2		
	S/T						4270			236		
	PROD. 96%									246		
	ROUND-OFF ADJ.						+30			+4		
	TOTAL - PLBG -					25%	4300			250	6400	10700

CES-2000-0 (4/81)

PARSONS

Warm Mist Site

ESTIMATE WORKSHEET

M.T.O. BY BCA | PRICED BY BCA | DATE 6/82 | SHEET 9 OF ____

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE FOIM | CHECKED BY

UNIT/AREA

DESCRIPTION MISC FACILITY

CAPACITY 5.5.6

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE			SUBCONTRACT			LABOR			TOTAL DOLLARS		
				MATL	M/H	LABS				M/HRS	DOLLARS		M/HRS	DOLLARS				
144	GATE HOUSE & INSPECT STA																	
7.31.18	HVAC																	
	ROOFTOP PACKAGE UNIT COMB. HEATING-COOLING C/W CURBS, STARTERS, CONTROLS & DUCTWORK																	
	4 TON, 10 KW HEAT	4	TN	995	32			3	980				128					
	TOILET RM E.F	1	EA	230	1.5				230				2					
	EXH. DUCTWORK	100	LB	1.20	.108				120				10					
	S/T							4	330				140					
	PROD = 96%												146					
	ADJ								(30)				+4					
	TOTAL HVAC					25 hr		4	300				150		3900		8	200

CES-2000-0 (4/81)

PARSONS

Warm Wet Site — ESTIMATE WORKSHEET

M.T.O. BY BGA | PRICED BY BGA | DATE 6/82 | SHEET 10 OF 10

JOB NO. 6440-10 | CLIENT: LOE | TYPE OF ESTIMATE FIRM | CHECKED BY

UNIT/AREA INSPECTION GATE HOUSE

DESCRIPTION MISC FACILITY

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.44	GATE HOUSE & INSPECT. STA											
7.31.19	FIRE PROTECTION											
	FIRE EXTINGUISHER CAB. MTD	3	EA	250	4		750			12		
	S/T						750			12		
	PROD 96%					25%	750			13	330	
	ADJ.						+50				(-30)	
	TOTAL F.P.						800			10	300	1100

CES-2000-0 (4/81)

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WARM WET SITE

PARSONS
ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 10-26-84 | SHEET 1 OF 7
JOB NO.: 6490-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY
UNIT/AREA MRS FACILITY
DESCRIPTION
CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
44	INSPECTION GATE HOUSE											
7.32	ELECTRICAL - SUMMARY											
	PWR GEN'G SHT. 2						25 300	263				
	PWR DIST'G SHT 3						8 720	412				
	LTG / COMM SHT. 4						37 100	1950				
	GR / FIRE ALARM SHT. 5						4 900	250				
	LIGHTNING PROT SHT. 6						1 890	72				
	LTG - 7						20 100	382				
	SUB TOTAL						98 010	3329				
	PROD 96%	3329	MH	÷	96			3470				
	LABOR RATE	3470	MH			29.14			101 100			
	L.A. BASIN											
							98 000	3470	101 100			199 100

CES-2000-0 (4/81)

PARSONS

Warm Wet Site

ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 10-23-84 | SHEET 2 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA

DESCRIPTION INSPECTION GATE HOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.44.7.32											
	600A 5KV PRIM SW FUSED OUTDOOR OIL FILLED (PAD MTD)	1	E				7000	45				
	112.5 KVA TX 4.16KV-480/277V 3 ϕ 4W OUTDOOR (PAD MTD)	1	E				10 000	58				
	480V LOAD CENTER PNL BOARD 1-2-1 17-100AF CKT BKR 1-225AF CKT BKR MAIN	1	LS				4000	55				
	FEEDER FROM 600A 5KV PRIM SW TO 112.5 KVA TX	1	LS				1000	30				
	FEEDER FROM 112.5KVA TX TO 480V LOAD CENTER PNL BOARD 1-2-1	1	LS				2500	45				
	PAD FOR PRIM SW & TX	1	LS				800	80				
	TOTAL THIS SHT.						25 300	263				

CES-2000-0 (4/81)

WARM WET SITE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY [illegible] | DATE 10-23-84 | SHEET 3 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY [illegible]

UNIT/AREA

DESCRIPTION / INSPECTION GATE HOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
	ELECT'L 5.5.6.44.7.32											
	6KVA TX 480V 208/120V 3 Ø 4W	1	E	450	8.00		950	8				
	15KVA TX 480V-208/120V 3 Ø 4W	1	E	750	12.00		750	12				
	LTG PNLS (RA-LA)	2	E	800	20.00		1600	40				
	MTG TX & PNLS	4	E	1500	6.00		60	24				
	480V MTR CONNECTIONS 10 HP ↓	4	E	1.50	2.00		10	8				
	PWR CONNECTIONS ~ ACU 802 HEAT PUMP UNIT	1	LS				30	7				
	MOTOR RUNS CONDUIT (150' RUN) 10 HP ↓	4	E	444	45.27		1780	181				
	ACU 802 HEAT PUMP UNIT 150' RUN	1	E	1037	72.24		1040	72				
	LTG PNL CONDUIT RUNS (150' RUN)	2	E	1530	30		3000	60				
	TOTAL THIS SHT.						8720	412				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY FRED G PRICED BY [illegible] DATE 10-24-84 SHEET 4 OF 7

JOB NO.: 6440-10 CLIENT: PNL/DOE TYPE OF ESTIMATE ROM CHECKED BY [illegible]

UNIT/AREA

DESCRIPTION INSPECTION GATEHOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.44.7.32											
	LIGHTING & RECEPT. ~											
	34' X 20' = 680 □'											
	80' X 96' = 7680 □'											
	8360 □'											
	8360 □' X $10.00/□' = $83600											
	USE 40% MATL & 60% LABOR											
	MATL $83600 X .40 = $33440											
	LABOR 83600 X .60 = 50160											
	$50160 ÷ $28.58/MH = 1755 MH											
	USE						33400	1760				
	COMM ~											
	8360 □'											
	8360 □' X $1.10/□' = $9196											
	USE 40% MATL & 60% LABOR											
	MATL $9196 X .40 = $3678											
	LABOR 9196 X .60 = 5518											
	$5518 ÷ $28.58/MH = 193 MH											
	USE						3700	190				
	TOTAL THIS SHT.						37100	1950				

CES-2000-0 (4/81)

PARSONS

Warm Wet Site

ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 10-24-84 | SHEET 5 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA

DESCRIPTION / INSPECTION GATEHOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.44.7.32											
	GROUNDING —											
	8360 □'											
	8360 □' @ $0.35/□' = $2926											
	USE 40% MATL & 60% LABOR											
	MATL $2926 X .40 = $1170											
	LABOR 2926 X .60 = 1756											
	$1756 ÷ $28.58/MH = 61											
	USE						1200	60				
	FIRE ALARM											
	8360 □'											
	8360 □' @ $1.10/□' = $9196											
	USE 40% MATL & 60% LABOR											
	MATL $9196 X .40 = $3678											
	LABOR 9196 X .60 = 5518											
	$5518 ÷ $28.58/MH = 193											
	USE						3700	190				
	TOTAL THIS SHT.						4900	250				

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PARSONS

ESTIMATE WORKSHEET

WARM WET. SITE

M.T.O. BY E FONG | PRICED BY E FONG | DATE 11/14/84 | SHEET 6 OF 7

JOB NO. 6440 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA INSPECTION GATEHOUSE

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6 44.7.32 - ELECT'L											
	LIGHTNING PROTECTION											
	AIR TERMINALS, COPPER ½"	36	EA	11.00	1.0		400	36				
	CABLE, COPPER 375 #/MLF	800	LF	1.65	.036		1320	29				
	USE 10% OF ABOVE FOR FITTINGS SUPPORTS ETC	1	LS				170	7				
	TOTAL THIS SHT						1890	72				

CES-2000-0 (4/81)

PARSONS

Warm Wet. Site

ESTIMATE WORKSHEET

M.T.O. BY E FONG | PRICED BY | DATE 11/14/84 | SHEET 7 OF 7

JOB NO. 6440 | CLIENT PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA INSPECTION GATEHOUSE

DESCRIPTION COVER AREA & PIT LIGHTING

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
	ELECT'L 5.5.6.44.7.32											
	HIGH BAY HID LIGHTING FIXTURES HOLOPHANE #PRSL-250HP27QD-G35-FI	36	EA	200	3.50		7200	126				
	SUITABLE FOR WET LOCATION FLUORESCENT FIXTURES WITH 2-F40 LAMPS CROUSE-HINDS # PEG 240R277-0°W	39	EA	281	2.25		10960	88				
	3/4 1/2" RIGID STEEL CONDUIT	1100	LF	.91	.08		1000	88				
	#12 THW WIRES	4500	LF	.10	.008		450	36				
	SUPN 5' FTG. (50% OF RGS)	1	LS	—			500	44				
							20110	382				

CES-2000-0 (4/81)

PARSONS

Warm Wet Site

ESTIMATE WORKSHEET

M.T.O. BY CEH | PRICED BY CH / AQ | DATE NOV. 1984 | SHEET 1 OF 1

JOB NO.: 6440 - 10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE BUDGETARY | CHECKED BY

UNIT/AREA INSPECTION GATEHOUSE

DESCRIPTION INST'N & CONTROL EQUIPT

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
	5.5.6.44.7.33											
	SEE R&H BUILDING FOR PORTABLE RADIATION MONITORING INSTN., WBS NO. 5.5.2.39						—		—	—	—	—
	NOTE: SEE SECURITY BLDG. & PROTECTED AREA GATEHOUSE FOR SECURITY CCTV CAMERA WBS NOS: 5.5.6.42.7.33 AND 5.5.6.45.7.33, RESP.						—		—	—	—	—
	FOR IDENTIFICATION ONLY											

CES-2000-0 (4/81)

PARSONS

CLINCH RIVER BASE CASE **ESTIMATE WORKSHEET**

M.T.O. BY | PRICED BY | DATE AUG 85 | SHEET ____ OF ____

JOB NO.: 6440-11 | CLIENT: DOE/PNL | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS Support Facilities

DESCRIPTION Protected Area Gate Station

CAPACITY Area #5

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
	Protected Area Gate Station											
	2A Estimate - Direct Cost						1328700			24980		
	Less 2A Prod. Factor									(1000)		
	2A Total Direct						1328700			23980		
	Escalation 2Q84 to 2Q85 = 0.042						55800					
	Total Direct Cost (2Q85)	6470	SF				1384500			23980		

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY V. MESEC PRICED BY DATE 12/17/80 SHEET ____ OF ____

JOB NO.: 6440 CLIENT: DOE/PNL TYPE OF ESTIMATE RON CHECKED BY

UNIT/AREA

DESCRIPTION PROTECTED AREA GATE HOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.45											
.6	SITE WORK											
	CONCRETE						$ 44,500	3080	$ 79,200			$ 123,700
	MASONARY						6,700	520	13,400			20,100
	METALS						6,500	60	1,500			8,000
	WOOD & PLASTICS						—	—	—			—
	THERMAL MOIST.						24,900	620	15,900			40,800
	DOORS & WINDOWS						11,200	130	3,300			14,500
	FINISHES						18,400	1100	28,300			46,700
	SPECIALTIES						17,300	140	3,600			20,900
	EQUIPMENT											
	FURNISHINGS											
	SPECIAL CONSTRUCTION											
	CONVEYING SYSTEMS											
	MECHANICAL						58,800	1390	35,800			94,600
	ELECTRICAL						171,600	4000	116,600			288,200
	INSTRUMENTATION						968,800	13940	358,500			1327,300
	CATHODIC PROTECTION											
	OTHER											
	SUB TOTAL						$ 1328,700	24280	$ 656,100			$ 1984,800
	CONTRACTORS O&P	37%					491,600	/	242,800			734,400
	SUB TOTAL						1820,300	24280	898,900			2719,200
	CONTINGENCIES	20%					364,100	5000	179,700			543,800
	TOTAL 5.5.6.45						2184,400	29280	1078,600			$ 3263,000

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY | PRICED BY 4P/RUP | DATE JUN '84 / 10-23-84 | SHEET 2 OF

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
45	PROTECTED AREA GATE HOUSE											
7.19.5	CONCRETE WORK											
	CONTINUOUS FOOTING	44	CY	65.88	3.28		2 900	144				
	SLAB ON GRADE	69	/	63.20	2.28		4 360	157				
	SUSPENDED SLAB 8" TK	195	/	67.64	4.1		13 190	800				
	WALLS 8" TK	115	/	99.-	9.46		11 390	1088				
	REBAR	23	TON	550	14		12 650	322				
	EARTHWORK - BULK EXCAVATION	2647	CY	-	.05		-	132				
	- BACKFILL	1250	/	-	.09		-	113				
	- HAUL SURPLUS	1400	/	-	.14		-	196				
	TOTAL, CONC. WORK W/ PROD. 96%	2952	MH			25.72	44 500	3080	79 200			123 700
7.20	MASONRY											
	SPLIT FACED BLOCK 10"	1500	SF	2.20	.16		3 300	240				
	8"	1750	SF	1.92	.15		3 360	263				
	TOTAL, MASONRY W/ PROD. 96%	503	MH			25.72	6 700	520	13 400			20 100
7.21	METALS											
	STRUCT'L STL FRMG ALLOW	2	TN	1500	12		3 000	24				
	STAIRS INCL RAIL - RISER	20	EA	100	.71		2 000	14				
	- LANDING	28	SF	5	.2		140	6				
	PIPE RAILING	32	LF	32	.16		1 020	5				
	LADDER W/O CAGE	12	/	25	.25		300	3				
	TOTAL, METALS W/ PROD. 96%	52	MH			25.72	6 500	60	1 500			8 000

CES-2000-0 (4/81)

PARSONS

Warm Wet Site

ESTIMATE WORKSHEET

M.T.O. BY | PRICED BY RUF | DATE Jun '84 / 10-23-84 | SHEET 3 OF

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY M

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
45	PROTECTED AREA GATE HOUSE											
7.23	THERMAL / MOISTURE PROTECTION											
	ROOF'G. SINGLE PLY BALLASTED	5100	SF	.80	.015		4 080	77				
	INSULATION - RIGID ON ROOF	5100	″	.50	.01		2 550	51				
	- PERIMETER WALL	3200	″	.20	.005		640	16				
	METAL PANEL FACIA	1700	″	2.85	.07		4 850	119				
	″ ″ SOFFIT	1400	″	4.70	.08		6 580	112				
	MISC. SHEET METAL / WD. BLK. / ETC	ALLOW	–				4 000	100				
	MEMB. H2O PROOF'G WALL BELOW GRADE	2640	SF	.60	.04		1 580	106				
	ROOF DRAINS & DOWNSPOUT	6	EA	100	2.–		600	12				
								593				
	TOTAL, 7.23 W/ PROD. 96 %	593	MH			25.7	24 900	620	15 900			40 800
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

Nolan Wet. Site

ESTIMATE WORKSHEET

M.T.O. BY | PRICED BY RUF / 4P | DATE JUN '84 / 10-23-84 | SHEET 4 OF ____

JOB NO. 6440-10 | CLIENT DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
45	PROTECTED AREA GATE HOUSE											
7.24.7	DOORS & WINDOWS											
	H.M. DOOR / FRM / HDWR W/ 2' TRANSOM											
	FLUSH - HALF GLASS - DBL 6°-7°	2	PR	700	8		1400	16				
	- SGL 3°-7°	1	EA	500	6		500	6				
	FLUSH - NO GLASS - DBL 6°-7°	7	PR	600	6		4200	42				
	- SGL 3°-7°	1	EA	450	5		450	5				
	- " 4°-7°	1	"	500	5		500	5				
	FLUSH - NO GLASS, NO TRANSOM 3°-7°	9	"	400	4		3600	36				
	WINDOWS - ALUM SASH, FIXED 3'x4' INCL. 3 COUNTER	5	EA	100.-	2.-		500	10				
	CLOSET, BI-SLIDING DOOR 4' WIDE	1	EA	80	1.5		80	2				
	TOTAL, DOORS / WDO, W/ PROD. 96%	122	MH			25.7±	1100	122 130	3300			14500
	L.A. BASIN											

CES-2000-0 (4/81)

E-196

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY	4P	PRICED BY	RUF	DATE	JUN '84 / 10-23-84	SHEET 5 OF
JOB NO.	6440-10	CLIENT	DOE	TYPE OF ESTIMATE	ROM	CHECKED BY
UNIT/AREA	M R S FACILITY					
DESCRIPTION						
CAPACITY	5.5.6 SUPPORT FACILITIES					

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	COST OR M/HRS PER UNIT M/H	COST OR M/HRS PER UNIT LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
45	PROTECTED AREA GATE HOUSE											
7.25.10	FINISHES											
	GYPSUM WALL BD. 5/8" (2 FACE) ON 20 GA METAL STUDS	2200	SF	1.23	.08		2 710	176				
	GYPSUM WALL BD - DITTO - (1 FACE)	3200	"	.79	.05		2 530	160				
	ACOUSTIC TILE CEILING ON SUSPENSION SYSTEM	2300	"	1.22	.02		2 810	46				
	CERAMIC TILE - FLOOR	50	SF	3.25	.09		160	5				
	- WALL	210	"	1.40	.08		300	17				
	VINYL ASBESTOS TILE - FLOOR	5800	"	.90	.01		5 220	58				
	- BASE	1100	LF	.46	.03		510	33				
	PAINTING - MASONRY	3300	SF	.25	.02		830	66				
	- GYPSUM BD	7600	SF	.08	.025		610	190				
	- STRUCT'L STEEL FRM'G	600	SF	.02	.01		20	6				
	- CONC. WALL & CEILING	10200	SF	.25	.025		2 550	255				
	- DOORS & FRM - SGL	12	EA	5.-	1.2		60	14				
	- DBL	10	PR	7.-	2		70	20				
	- PIPE RAILING / LADDER	44	LF	.08	.04		10	2				
	- STAIRS INCL. RAILING	20	RIS	.92	.40		20	8				
								1056				
	TOTAL, FINISHES W/ PROD. 96%	1056	MH			25.72	18 400	1100	28 300			46 700

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY RUF | DATE JUN '84 | 10-23-84 | SHEET 6 OF

JOB NO. 6440-10 | CLIENT DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA M R S FACILITIES

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
45	PROTECTED AREA GATE HOUSE											
7.26	SPECIALTIES											
	TOILET ACCESSORIES	1	LS	500	4		500	4				
	SIGNAGE ALLOW	1	"	400	4		400	4				
	PEDESTAL FLOOR	2200	SF	4.70	.03		10 340	66				
	TURNSTILE, 3-ARM, 7' HIGH, ELEC.	2	EA	2500	27		5 000	54				
	FLOOR HATCH 4' x 6'	1	EA	1050	9.		1 050	9				
								137				
	TOTAL, SPECIALTIES W/ PROD. 96%	137	MH			25.7%	17 300	140	3 600			20 900
	L.A. BASIN											

CES-2000-0 (4/81)

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PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY	BGA	PRICED BY	BGA	DATE	6/84
JOB NO.	6440-10	CLIENT:	DOE	TYPE OF ESTIMATE	ROM

SHEET 1 OF 8 — CHECKED BY (M)

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.145	PROTECTED AREA GATE STA.											
	SUMMARY											
7.31	MECH. SYSTEMS	REF. SHT										
.16	PLUMBING	8 OF 10					4900	200				
.18	HVAC	9 OF 10					18300	660				
.19	FIRE PROTECTION	10 OF 10					35600	470				
	SUB TOTAL						58800	1330				
	PROD. 1330 ÷ 96%	1390	MH			25.72			35 800			
								1390				
	L.A. BASIN TOTAL, MECH'L						58800		35 800			94 600

CES-2000-0 (4/81)

PARSONS

Warm Wet Site — ESTIMATE WORKSHEET

M.T.O. BY BGA | PRICED BY BGA | DATE 6/82 | SHEET 8 OF

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | (M) CHECKED BY

UNIT/AREA

DESCRIPTION MRS FACILITY

CAPACITY 5.5.6

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
.145	PROTECTED AREA GATE STA.											
7.3.1.6	PLUMBING -											
	FIXTURES : W.C.	1	EA	330	13		330			13		
	LAV	1	-	320	16		320			16		
	EYE WASH	1	-	550	16		550			16		
	EWC	1	-	767	11		770			11		
	EWH 6 GAL	1	-	680	4		680			4		
	PIPES + FITTINGS (M = .46 × 3140 F) (L = 1.85 × 66 F)	1	LS				1440	40		122		
	WATER CONTROL VALVES (M = .10 × 3220) (L = .10 × 64)	1	LS				310	10		7		
	VENT THRU ROOF	1	EA	120	2.5		120			3		
	FLOOR DRAIN	1	✓	260	2		260			2		
	FLOOR C.O.	1	-	110	2		110			2		
	S/T						4890			196		
	6D1						10			+4		
	TOTAL - PLBG.						4900			200		

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY BGA | PRICED BY BGA | DATE 6/84 | SHEET 9 OF ____

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE BOM | CHECKED BY

UNIT/AREA

DESCRIPTION MISC. FACILITY

CAPACITY 5,15,6

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.45	PROTECTED AREA GATE STA.											
7.31.18	HVAC											
	PACKAGE COMB. HEATING-COOLING UNIT, 16TON & 42KW, C/W CURB, STARTER, CONTROLS & DUCTWORK	16	TN	1003	38		16050			608		
	BATTERY RM EF	1	EA	—	—		1540			10		
	TOILET — EF	1	—	—	—		230			2		
	EA - DUCT GALV	100	LB	1.20	.102		120			10		
	" " SST	200	"	1.79	.15		360			30		
							18300			660		

CES-2000-0 (4/81)

5-201

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY BCA | PRICED BY BCA | DATE 6/84 | SHEET 10 OF 10

JOB NO. 6440-10 | CLIENT DOE | TYPE OF ESTIMATE FORM | CHECKED BY

UNIT/AREA

DESCRIPTION MISC. FACILITY

CAPACITY 5.5.C

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
145	PROTECTED AREA GATE STA.											
7.9.19	FIRE PROTECTION SYSTEM											
	AUTO. SPRINKLER SYSTEM	3620	SF	1.08	.058		3910			212		
	HALON SYSTEM	36460	CF	.80	.006		29170			219		
	FIRE EXTINGUISHERS CAB. MTD	10	EA	250	4		2500			40		
	S/T						35580			471		
	ADJ						420			(-1)		
	TOTAL F.P.						35600			470		

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

WARM WET SITE

M.T.O. BY FIELD G | PRICED BY | DATE 10-26-84 | SHEET 1 OF 1

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA M R S FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
45	PROTECTED AREA GATE HOUSE											
7.32	ELECTRICAL - SUMMARY											
	PWR GEAR SHT. 2						70 770	301				
	PWR DISTAG SHT. 3						57 910	1377				
	4						9 750	418				
	LTG / COMM. SHT. 5						28 300	1500				
	GR / FIRE ALARM SHT. 6						4 160	220				
	LIGHTNING PROT SHT. 7						680	24				
	SUBTOTAL						171 570	3840				
	PROD 96%	3840	MH	1	.96			4000				
	LABOR RATE	4000	MH			29.M			116 800			
	L.A. BASIN											
							171 600	4000	116 600			288 200

CES-2000-0 (4/81)

PARSONS

WARM WET. SITE

ESTIMATE WORKSHEET

M.T.O. BY FRED G PRICED BY DATE 10-24-84 SHEET 2 OF 7

JOB NO.: 6440-10 CLIENT: PNL/DOE TYPE OF ESTIMATE ROM CHECKED BY (N)

UNIT/AREA

DESCRIPTION PROTECTED AREA GATEHOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.45.7.32											
	480V UNIT SUBSTATION 1-7	1	LS				66 970	139				
	1~600A 5KV PRIM SW											
	1~300KVA TX 4.16KV-480/277V 3Ø 4W											
20	2~800AF CKT BKR											
	2~800AF CKT BKR MAIN											
	1~INTERLOCK W/ AUTO TRANSF											
	480V CRITICAL LOAD CENTER 1-7-1	1	LS				8 000	117				
	39~100AF CKT BKR											
	480V NON CRITICAL LOAD CENTER 1-7-2	1	LS				3 000	45				
	15~100AF CKT BKR											
	4.16KV FEEDER FROM 4.16KV SWITCHGEAR BUS 1 AT SITE SERVICE BLDG	1	LS	—			—	—		W/UG. UTILITIES		
	480V FEEDER FROM STANDBY BUS IN SECURITY BLDG	1	LS	—			—	—		✓	✓	
							70 770	301				

CES-2000-0 (4/81)

Warm Wet Site

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY Fred G | PRICED BY | DATE 10-24-84 | SHEET 3 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY TD

UNIT/AREA

DESCRIPTION Protected Area Gatehouse

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5, 6.45, 7.32											
	UPS POWER SUPPLY 15KVA, 480V 3Ø INPUT & OUTPUT	1	E	27,000			27,000	30				
	BATTERIES LEAD ACID	1	E	15,000			15,000	20				
	480V UPS PANELBOARD 3~ 100 AF CKT BKR 1~ 100AF CKT BKR MAIN	1	E				1,000	10				
	9KVA TX 480V-208/120V	3	E	550	9.00		1,650	27				
	LTG PNL (LE&RA)	2	E	800	16.50		1,600	33				
	MTG	2	E	1500	6.00		80	30				
	480V MTR CONNECTIONS 10 HP ↓	26	E	1.50	2.00		40	52				
	480V MTR CONDUIT RUNS 150' 10 HP ↓	26	E	444	45.12		11,540	1175				
	TOTAL THIS SHT.						57,910	1377				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY: FRED G | PRICED BY: | DATE: 10-24-84 | SHEET 4 OF 7

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE: ROM | CHECKED BY:

UNIT/AREA:

DESCRIPTION: PROTECTED AREA GATE HOUSE

CAPACITY:

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT: MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT: M/HRS	SUBCONTRACT: DOLLARS	LABOR: M/HRS	LABOR: DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.45.7.32											
	EQUIP CONDUIT RUNS —											
	LIGHTING PNL 150'	2	E	240	21.98		480	44				
	INDOOR LIGHTING 150'	1	E	240	21.98		240	22				
	ACU 150'	2	E	1037	72.2		2070	144				
	EHC BOX HEATER 150'	4	E	240	21.98		960	88				
	FEEDER FROM 480V SWITCHGEAR 1-7 TO CRITICAL LOAD CENTER PNL BOARD 1-7-1	1	LS	—			3000	60				
	FEEDER FROM 480V SWITCHGEAR 1-7 TO NON CRITICAL LOAD CENTER PNLBOARD 1-7-2	1	LS	—			3000	60				
	TOTAL THIS SHT.						9750	418				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY FRED G PRICED BY DATE 10-24-84 SHEET 5 OF 7

JOB NO.: 6440-10 CLIENT: PNL/DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA

DESCRIPTION PROTECTED AREA GATEHOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.45.7.32											
	LIGHTING & RECEP —											
	62'X48' = 2976 18X 30' = 540 LOWER LEVEL 2976 6492 □'											
	$ 6492 □ X $ 10.00/□' = $ 64920											
	USE 40% MATL & 60% LABOR											
	MATL $ 64920 X .40 = 25968 LABOR 64920 X .60 = 38952											
	$ 38952 ÷ $ 28.58/MH = 1363 MH											
	USE						25 700	1360				
	COMM —											
	6492 □'											
	$ 6492 □ X 1.0/□' = $ 6492											
	USE 40% MATL & 60% LABOR											
	MATL $ 6492 X .40 = $ 2596 LABOR 6492 X .60 = 3895											
	$ 3895 ÷ $ 28.58/MH 136 MH											
	USE						2,600	140				
	TOTAL THIS EHT:						28 300	1500				

CES-2000-0 (4/81)

5.207

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY FRED G PRICED BY [illegible] DATE 10-24-84 SHEET 6 OF 7

JOB NO.: 6440-10 CLIENT: PNL/DOE TYPE OF ESTIMATE ROM CHECKED BY [illegible]

UNIT/AREA

DESCRIPTION PROTECTED AREA GATEHOUSE

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.6.6 45.7.32											
	GROUNDING ~											
	6492 □'											
	6492 □' X 0.50/□' = $3246											
	USE 40% MATL & 60% LABOR											
	MATL $3246 X .40 = $1298											
	LABOR 3246 X .60 = $1948											
	$1948 ÷ $28.58/MH = 68 MH											
	USE						1300	70				
	FIRE ALARM ~											
	6492 □'											
	6492 □' X $1.10/□' = $7141											
	USE 40% MATL & 60% LABOR											
	MATL $7141 X .40 = $2856											
	LABOR 7141 X .60 = $4285											
	$4285 ÷ $28.58/MH = 150											
	USE						2860	150				
	TOTAL THIS SHT						4160	220				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY E FONG | PRICED BY E FONG | DATE 10-24-84 | SHEET 7 OF 7

JOB NO. 6440 | CLIENT PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA PROTECTED AREA GATE HOUSE

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	COST OR M/HRS PER UNIT M/H	COST OR M/HRS PER UNIT LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.45.7.32 - ELECT'L											
	LIGHTNING PROTECTION											
	AIR TERMINALS, COPPER ½"	11	EA	11.00	1.0		120	11				
	CABLE, COPPER 375#/MLF	300	LF	1.65	.036		500	11				
	USE 10% OF ABOVE FOR FITTINGS, SUPPORTS ETC	1	LS				60	2				
	TOTAL THIS SHT.						680	24				

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

WARM WET SITE

M.T.O. BY C. Heck 3789 PRICED BY CH/AA DATE NOV. 1984 SHEET 1 OF 5

JOB NO.: 6440-10 CLIENT: PNL/DOE TYPE OF ESTIMATE BUDGETARY CHECKED BY

UNIT/AREA PROTECTED AREA GATEHOUSE

DESCRIPTION INSTR. & CONTROL EQUIP.

CAPACITY 5.5.6.45

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	COST OR M/HRS PER UNIT M/H	COST OR M/HRS PER UNIT LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
7.33	INSTRUMENTATION											
-	PHILLIPS ELECTRONIC INSTRUMENTS DYNAVISION 500 X-RAY SCREENING SYSTEM, CONSISTING OF: 1 EA 8 FT. CONVEYER SYSTEM 1 EA 65 KV X-RAY TUBE 1 EA SYSTEM CONTROL MODULE 1 EA 14 IN. TV MONITOR 1 EA 6 FT. PARCEL COLLECTOR	1	EA		60		32500			60		
-	ION TRACK INSTRUMENTS MODEL 75 ENTRY-SCAN MARK II DUAL FUNCTION EXPLOSIVES/METAL DETECTION SYSTEM, CONSISTING OF: 1 EA. WALK-THRU PORTAL 1 EA. CONSOLE 1 EA. POWER/CONTROL MODULE 1 EA. TRANSFER VALVE, ARGON GAS 1 EA. 4 CU.FT. TANK, PORTABLE, ARGON GAS 6 EA. TEST SAMPLE, SIMULATED EXPLOSIVES	1	LOT		70		31486			70		
-	ION TRACK INSTRUMENTS MODEL MD-1 WALK THRU METAL DETECTOR, CONSISTING OF: 1 EA. WALK-THRU PORTAL 1 EA. ELECTRONIC CONSOLE	1	EA.		10		5000			10		
	CARRY FWD TO SHT. 2	1	LOT				72200			140		

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY C. HUCK | PRICED BY C. H. / AQ | DATE NOV. 1982 | SHEET 2 OF

JOB NO.: 6440-10 | CLIENT: PNL / DOE | TYPE OF ESTIMATE: BUDGETARY | CHECKED BY

UNIT/AREA: PROTECTED AREA GATEHOUSE

DESCRIPTION: INST'N & CONTROL EQUIP'T.

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.45.7.33 FROM SHT. 1						72,200	140				
-	PORTAL MONITOR EBERLINE MODEL PM-6, FOR α, β & γ PERSONNEL MONITORING	1	EA	19,895	40		19,895	40				
-	SECURITY COMPUTER SYSTEM, FORNEY ECS-1200 CONSISTING OF THE FOLLOWING:	1	LOT	878,477	13200		878,477	13200				
-	CRT OPERATOR'S CONSOLE CONTAINING: 2 EA. AUXILIARY KEYBOARDS, ALARM HORN, DOT MATRIX PRINTER, CCTV SWITCHING & CONTROL EQUIPMENT, & SECURITY EQUIPMENT I/O CABINETS CONTAINING I/O CONTROL UNITS, I/O EQUIPMENT, AND CRT CONTROL UNITS. A PORTABLE PROGRAMMER PANEL WILL ALSO BE INCLUDED.	1	EA	316,200			—					
" -	A CCTV & MOTION DETECTION SYSTEM CONSISTING OF FIXED & PAN, TILT & ZOOM CAMERAS, MOTION DETECTORS, CHANNEL MASKING UNITS, LIGHT PENS, AUTORANGING UNITS, VIDEO TAPE RECORDER SWITCHERS, PTZ CONTROLS, 6 EA B&W MONITORS, ISOLATION TRANSFORMERS, & 3 VIDEO TAPE RECORDERS.	1	EA	532,277			—					
	CARRY FWD TO SHT. 3	1	LOT				940,600	13380				
	NOTE: THE ALARM MONITORING & CCTV EQUIPMENT LISTED UNDER WBS NOS: 5.5.6.53.7.27.13.2 AND 5.5.7.5.4.22.7.27 IS INCLUDED IN 5.5.6.45.7.33, PRECEDING.											

CES-2000-0 (4/81)

PARSONS

WIAMM WEST SITE

ESTIMATE WORKSHEET

M.T.O. BY C. HUCK / V.M. PRICED BY C.H. / AQ DATE NOV. 1984 SHEET 3 OF 3

JOB NO.: 6440-10 CLIENT: PNL - DOE TYPE OF ESTIMATE BUDGETARY CHECKED BY

UNIT/AREA PROTECTED AREA GATEHOUSE

DESCRIPTION INSTRUMENTATION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LAB $		M/HRS	DOLLARS	M/HRS	DOLLARS	
	5.5.6.45.7.33											
	FROM SHT. 2	1	LOT				940600	13380				
	PRODUCTIVITY = 96 %							13940				
	LABOR COST	(13940)	MH			25.72			358500			
	FREIGHT 3 %	1	LOT				28200					
	TOTAL	1	LOT				$ 968800	13940	358500			$ 1327300
	L.A. BASIN											

CES-2000-0 (4/81)

5-212

PARSONS

CLINCH RIVER BASE CASE

ESTIMATE WORKSHEET

M.T.O. BY | PRICED BY | DATE AUG 85 | SHEET ____ OF ____

JOB NO.: 6440-11 | CLIENT: DOE/PNL | TYPE OF ESTIMATE | CHECKED BY

UNIT/AREA: MRS Support Facilities
DESCRIPTION: Vehicle Maintenance Bldg
CAPACITY: Area = 5

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	Vehicle Maintenance Bldg.											
	2A Estimate - Direct Cost						946700			20730		
	Add Equip.											
	- Diesel Pumps & HCC Tanks						13000			500		
	- Unleaded - - - -						16000			500		
	Less LA Prod Factor									(830)		
	Escalation 2Q84 to 2Q85 = 0.042						39900					
	Total Direct Cost (2Q85)	17710	SF				1015500			20900		

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY V. MESEC | PRICED BY | DATE 12/17/80 | SHEET ____ OF ____

JOB NO.: 6440 | CLIENT: DOE/PNL | TYPE OF ESTIMATE RONT | CHECKED BY JJ

UNIT/AREA

DESCRIPTION VEHICLE MAINTENANCE BLDG.

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.49											
.6	SITE WORK											
	CONCRETE						$ 40 800	1810	$ 46 600			$ 87 400
	MASONARY						13 800	1130	29 100			42 900
	METALS						206 200	1760	45 300			251 500
	WOOD & PLASTICS											
	THERMAL MOIST.						68 900	1290	33 200			102 100
	DOORS & WINDOWS						36 500	460	11 800			48 300
	FINISHES						31 800	2800	72 000			103 800
	SPECIALTIES						15 700	180	4 600			20 300
	EQUIPMENT						0	0	0			0
	FURNISHINGS						12 500	50	1 300			13 800
	SPECIAL CONSTRUCTION											
	CONVEYING SYSTEMS											
	MECHANICAL						91 200	2610	67 100			158 300
	ELECTRICAL						186 500	6870	200 700			386 700
	INSTRUMENTATION											
	CATHODIC PROTECTION											
	OTHER						242 800	1770	45 500			288 300
	SUB TOTAL						$ 946 700	20750	$ 536 700			$ 1503 400
	CONTRACTORS O&P	37%					350 300		206 000			556 300
	SUB TOTAL						1297 000	20 780	742 700			2059 700
	CONTINGENCY	20%					259 400	4180	152 500			411 900
	TOTAL 5.5.6.49						1556 400	24880	$ 915 200			$ 2471 600

CES-2000-0 (4/81)

PARSONS

WARM MGT SITE — ESTIMATE WORKSHEET

M.T.O. BY	4P	PRICED BY	4P / RUF	DATE	JUN '84 / 10-26-84	SHEET	2 OF
JOB NO.	6441-10	CLIENT	DOE	TYPE OF ESTIMATE	R O M	CHECKED BY	
UNIT/AREA	M R S FACILITY						
DESCRIPTION							
CAPACITY	5,5,6 SUPPORT FACILITIES						

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
49	VEHICLE MAINTENANCE BLDG.											
7.19.5	CONCRETE WORK											
	COLUMN FOOTING	80	CY	84	3.51		6 720	281				
	" PEDESTAL	10	/	187	10.5		1 870	105				
	SLAB ON GRADE	360	/	84	3.51		30 240	1264				
	WALL & PITS	15	/	131	5.66		1 970	85				
	EARTHWORK & PITS - EXCAVATION	260	/									
	- BACKFILL	160	/									
	- HAUL SURPLUS	100	/				INCLUDED	IN UNIT PRICE				
	REBAR	18	TON									
							40 800	1735				
	S/T W/ PROD. 96%	1735	MH			25.12		1810	46 400			87 400
7.20	MASONRY											
	SPLIT FACED BLOCKS 8"	7200	SF	1.92	.15		13 800	1080				
	S/T W/ PROD. 96%	1080	MH			25.12		1130	29 100			42 900
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY	4P	PRICED BY	4P / RVF	DATE	JUN '84 / 10-26-84	SHEET	3 OF
JOB NO.	0440-10	CLIENT:	DOE	TYPE OF ESTIMATE	ROM	CHECKED BY	
UNIT/AREA	MRS FACILITY						
DESCRIPTION							
CAPACITY	5.5.6 SUPPORT FACILITIES						

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
49	VEHICLE MAINTENANCE BLDG.											
7.21	METALS											
	STRUCTURAL STEEL FRM'G	110	TON	1500	12		165 000	1320				
	METAL DECKING (ROOF)	18 300	SF	2.25	.02		41 180	366				
								1686				
	S/T W/ PROD. 96 %	1686	MH			25.72	206 200	1760	45 300			251 500
7.23	THERMAL / MOISTURE PROTECTION											
	INSULATION - RIGID @ ROOF	18 300	SF	.50	.01		9 150	183				
	- CAVITY WALL	7 200	"	.20	.005		1 440	36				
	METAL SIDINGS, PREFIN, INSULATED W/ INNER LINER	7000	/	4.45	.085		31 150	595				
	METAL PANEL FACIA	400	/	2.85	.07		1 140	28				
	METAL PANEL SOFFIT	300	/	4.70	.08		1 410	24				
	MISC. SHEET METAL / WD. BLK / ETC	ALLOW					10 000	100				
	ROOFING, SINGLE PLY, BALLASTED	18300	SF	.80	.015		14 640	275				
								1241				
	S/T W/ PROD. 96 %	1241				25.72	68 900	1290	33 200			102 100
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

Warm Wet Site

ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY 4P / RUF | DATE JUN '84 / 10-26-84 | SHEET 4 OF ____

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE R O M | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
49	VEHICLE MAINTENANCE BLDG.											
7.24.7	DOORS & WINDOWS											
	DOORS, FRM & HARDWARE											
	ALUM. ENTRY DOOR, TEMP. GLASS W/ 2' TRANSOM 6'-7"	2	EA	1600	8		3 200	16				
	H.M DOOR, FLUSH 16 GA - SINGLE	19	/	400	4		7 600	76				
	- DOUBLE	1	PR	600	6		600	6				
	/ W/ TRANSOM - DOUBLE	1	/	700	8		700	8				
	- SINGLE	1	EA	450	6		450	6				
	OVERHEAD SECT'L DOOR - MANUAL INSULATED 12' X 20	7	/	2200	30		15 400	210				
	12 X 15	2	/	1600	22		3 200	44				
	12 X 10	1	/	1100	16		1 100	16				
	10 X 10	1	/	900	12		900	12				
	ROLL-UP GRILLE, ALUM 1- 12'X10'	120	SF	20	.21		2 400	25				
	WINDOWS - ALUM. SASH, FIXED GLASS	110	SF	8.50	.17		940	19				
								438				
	S/T W/ PROD. 96 %	438	MH			25.72	36 500	460	11 800			48 300
	L.A. BASIN											

CES-2000-0 (4/81)

5.212

PARSONS

WARM WET. SITE — ESTIMATE WORKSHEET

M.T.O. BY	4P	PRICED BY	4P / RUF	DATE	JUN '84 / 10-26-84	SHEET 5 OF
JOB NO.	6440-10	CLIENT	DOE	TYPE OF ESTIMATE	R O M	CHECKED BY
UNIT/AREA	M R 3 FACILITY					
DESCRIPTION						
CAPACITY	5.5.6 SUPPORT FACILITIES					

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
49	VEHICLE MAINT. BLDG.											
7.25.10	FINISHES											
	GYPSUM WALL BD. 5/8" TK (2 FACE) ON 3 5/8" MTL STUDS, 20 GA	9000	SF	1.23	.08		11 070	720				
	GYPSUM WALL BD, DITTO (1 FACE)	7200	″	.79	.05		5 690	360				
	GYP BD CEILING, 5/8" H2O PROOF ON RIGID FRM	1600	″	.65	.055		1 040	88				
	ACOUSTIC TILE CEILING ON SUSPENSION SYSTEM	2700	″	1.22	.02		3 290	54				
	CERAMIC TILE - FLOOR	800	″	3.25	.09		2 600	72				
	- WALL	1700	″	1.40	.08		2 380	136				
	VINYL ASB. TILE - FLOOR	800	″	.90	.01		720	8				
	- BASE	150	LF	.46	.03		70	5				
	PAINTING - MASONRY	7200	SF	.25	.02		1 800	144				
	- GYP BD WALL / CEILING	26 800	″	.08	.025		2 140	670				
	- STRUCT'L STL FRM	33 000	″	.02	.01		660	330				
	- SECTIONAL DOORS	4600	″	.04	.015		180	69				
	- HM DOORS - SINGLE	80	EA	5.-	1.2		100	24				
	- DOUBLE	2	″	7.-	2		20	4				
								2684				
	S/T W/ PROD. 96 %	2684	MH			25.72	31 800	2800	72 000			103 800

CES-2000-0 (4/81)

5-218

PARSONS

Warm Wet Site — ESTIMATE WORKSHEET

M.T.O. BY 4P | PRICED BY 4P/RUF | DATE Jun '84/10-26-84 | SHEET 6 OF ____
JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE R O M | CHECKED BY
UNIT/AREA M R S FACILITY
DESCRIPTION
CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
49	VEHICLE MAINTENANCE BLDG.											
7.26	SPECIALTIES											
	TOILET PARTITION	4	EA	595	4		2380	16				
	URINAL SCREEN	1	/	205	2		210	2				
	SHOWER STALL & DOOR	2	/	770	4		1540	8				
	LOCKERS	36	/	89	1		3200	36				
	SIGNAGE ALLOW	1	LS	450	2		450	2				
	WOVEN WIRE - PARTITION	38	LF	22	.23		840	9				
	- CEILING (14 x 14)	200	SF	2.15	.027		430	6				
	- SWING DOOR	1	EA	210	4		210	4				
	WHEEL GUARD, C.I. 3' HI	22	EA	120	2		2640	44				
	TOILET ACCESSORIES	1	LS	2000	20		2000	20				
	METAL SHELVINGS, OPEN, CROSS BRACED 24" DEEP	1000	SF	1.80	.024		1800	24				
	S/T W/ PROD. 96%	171	MH			25.72	15700	(171) 180	4600			20300
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

Warm Wet Site — ESTIMATE WORKSHEET

M.T.O. BY	4P	PRICED BY	4P / RUF	DATE	Jun '84 / 10-26-84	SHEET	7 of
JOB NO.	6440-1	CLIENT:	DOE	TYPE OF ESTIMATE	R O M	CHECKED BY	
UNIT/AREA	M R S FACILITY						
DESCRIPTION							
CAPACITY	5.5.6 SUPPORT FACILITIES						

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
49	VEHICLE MAINT. BLDG.											
										25.2		
7.28	FURNISHINGS											
	BLINDS	120	SF	8	.02		960	3				
	RECESSED FOOT GRILLE / MAT	54	′	17	.05		920	3				
	KITCHEN UNIT 10 LF	1	LS	1800	10		1 800	10				
	KITCHEN APPLIANCES - MICRO OVEN	1	EA	450	1		450	1				
	- REFRIGERATOR	1	′	900	4		900	4				
	VENDING MACHINE ALLOW	1	LS	3700	10		3 700	10				
	LUNCH ROOM TABLE / CHAIRS	ALLOW					2 400	10				
	OFFICE FURNITURES	ALLOW					1 400	2				
	S/T W/ PROD. 96%	43	MH			25.72	12 500	50	1 300			13 800
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

BARM WET SITE

M.T.O. BY BCA | PRICED BY BCA | DATE 6/84 | SHEET 8 OF ____

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA

DESCRIPTION MISC FACILITY

CAPACITY S.S.C SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.09	VEHICLE MAINT. BLDG											
7.31	MECH SYSTEMS											
		REF. SHT										
.16	PLUMBING	9 OF 13					10 000	530				
.18	HVAC	11 OF 13					44 500	630				
.17	OTHER EQUIPT	12 OF 13					5 900	150				
.19	FIRE PROTECTION	13 OF 13					30 800	1200				
	SUB TOTAL						91 200	2510				
	PROD. 2510 / 96 %	2610	MH			25.72			67 100			
	TOTAL - MECH'L						91 200	2610	67 100			158 300
	L.A. BASIN											

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

Warm Wet Site

M.T.O. BY BGA PRICED BY BGA DATE 6/84 SHEET 9 OF

JOB NO. 6440-10 CLIENT: DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA

DESCRIPTION MRS FACILITY

CAPACITY 5.6.6

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.49	VEHICLE MAINT. BLDG											
7.31.K	PLUMBING											
	FIXTURES - W.C INCL R.I.	4	EA	330	13		1320			52		
	UR " "	1	"	467	20		470			20		
	LAV " "	2	"	320	16		640			32		
	SHWR " "	2	"	260	4		520			8		
	S.S. " "	1	"	451	24		450			24		
	EWC " "	1	"	767	11		770			11		
	EMERG SHWR & E.W	1	"	550	16		550			16		
	EWH, 40 GAL	1	"	850	5		850			5		
	FLOOR DRAIN	2	"	260	2		520			4		
	FLOOR C.O.	2	"	110	2		220			4		
	VENT THRU ROOF	1	"	120	2.5		120			3		
	PIPES & FITTINGS (M = .4L × FIXT) 648						2960			324		
	(L = 1.85 × ') 178											
	VALVES ETC (M = .10 × -)						640			18		
	(L = .10 × ')											
	S/T						10030			526		
	ADJ						(30)			4		
	TOTAL - PLBG						10000			530		

CES-2000-0 (4/81)

5.822

PARSONS

ESTIMATE WORKSHEET

WARM WET SITE

M.T.O. BY BGA PRICED BY BGA DATE 6/84 SHEET 10 OF ____

JOB NO. 6440-10 CLIENT DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA

DESCRIPTION MRS FACILITY

CAPACITY 5.5.6

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.49	VEHICLE MAINT. BLDG											
7.31.18	HVAC											
	ROOF TOP PACKAGE UNIT, COMB. HEATING - COOLING C/W CURB, STARTERS, CONTROLS & DUCTWORK	3	TN	935	26.3		2810			79		
	HOT WATER BOILER, 1843 MBH OIL FIRED, C/W STD CONTROLS, FLAME RETENTION BURNER & INSULATED JACKET	1	EA	9325	11.5		9330			11.5		
	UNIT HEATERS, PROPELLER 72.7 MBH	20	EA	325	4.3		6500			86		
	33.5 "	10	"	260	4.0		2600			40		
	26.9 "	2	"	240	3.6		480			7		
	PIPING INSUL, STL 2"ø	500	LF	3.30	.09		1650			45		
	" " " 1 1/2"	300	"	3.18	.09		950			27		
	" " " 1"	200	"	3.05	.08		610			16		
	VALVES	1	LS	1265	2.0		1270			2		
	EXH. FANS -											
	EQUIPT RM	2	EA	2310	1.5		4620			30		
	BATTERY RM	1	"	1540	1.0		1540			10		
	TOILET RM	1	"	230	1.5		230			2		
	PAINT STD. RM	1	"	282	2.0		280			2		
	EXH. DUCT	600	LB	1.20	.102		720			6.1		
	T.C.F.						33590			522		

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY BGA | PRICED BY BGA | DATE 6/84 | SHEET 11 OF ____

JOB NO. 6440-10 | CLIENT DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA

DESCRIPTION MRS FACILITY

CAPACITY 5.5.6

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
.49	VEHICLE MAINT. BLDG											
7.31.18	HVAC CONT. T.B.F						33590			522		
	PAINT BOOTH: E.F.	1	EA	3470	22		3470			22		
	MAU.	1	EA	4120	26		4120			26		
	DUCT	400	LB	1.20	.102		480			41		
	FILTER ASSY	1	Lot	2460	16		2460			16		
	S/T						44520			627		
	ROUND-OFF ADJ						(20)			+3		
	TOTAL HVAC						44500			630		

CES-2000-0 (4/81)

Hanford WET SITE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY BGA PRICED BY BGA DATE 6/84 SHEET 12 OF

JOB NO. 6440-10 CLIENT: DOE TYPE OF ESTIMATE ROM CHECKED BY

UNIT/AREA

DESCRIPTION MRS FACILITY

CAPACITY 5.5.6.

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.44	MECHANICAL VEH MAINT.											
7.31.17	PIPING & MISC ITEMS											
	BOILER FOR STEAM CLEANING FACILITY, GAS FIRED, 360MBH	1	EA	2550	50		2550			50		
	FUEL OIL STO. TANK FOR HW BOILER FOR BLDG HEAT, 1000 GAL CAP	1	EA	1000	15		1000			15		
	STEAM PIPING & VALVES	1	LOT	620	36		620			36		
	FUEL PIPING & VALVES FOR F.O TANK + GAS CONN.	1	LOT	1150	38		1150			38		
	TANK GAGING ASSY	1	LOT	270	3		270			3		
	FILL	1	LOT	270	3		270			3		
	S/T						5860			145		
	ADJ.						+40			+5		
	TOTAL - OTHER EQPT.						5900			150		

CES-2000-0 (4/81)

5.225

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY BGA | PRICED BY BGA | DATE 6/84 | SHEET 13 OF 13

JOB NO. 6440-10 | CLIENT: DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA VEHICLE MAINT. BLDG.

DESCRIPTION MRS FACILITY

CAPACITY 5.56.

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
.49	MECHANICAL VEH MAINT											
7.31.19	FIRE PROTECTION											
	AUTO. SPRINKLER SYST.	18373	SF	1.08	.0585		19840			1075		
	HALON SYST. (ELECT RM)	7440	CF	.80	.006		5950			45		
	FIRE EXTINGUISHERS CAB MTD.	20	EA	250	4.		5000			80		
	S/T						30790			1200		
	ADJ.						+10			0		
	TOTAL - F.P.						30800			1200		

CES-2000-0 (4/81)

WARM WET SITE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 11/14/84 | SHEET 1 OF 8

JOB NO.: G440-10 | CLIENT: PWL/DOE | TYPE OF ESTIMATE PRELIMINARY | CHECKED BY

UNIT/AREA MRB FACILITY

DESCRIPTION

CAPACITY 5.5.6 SUPPORT FACILITIES

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
49	VEHICLE MAINTENANCE BLDG											
7.32	ELECTRICAL - SUMMARY											
	PWR CENTER SHT. 2						35 300	250				
	PWR DIST AG SHT. 3						18 300	385				
	4						44 600	1604				
	5						7 800	162				
	LTG / COMM } SHT. 6						74 230	3895				
	GIZ / FIRE ALARM } SHT. 7						3 940	200				
	LIGHTNING PROT. SHT. 8						2 320	96				
	SUB TOTAL						186 490	6592				
	PROD 96%	6592	MH	÷	.96			6870				
	LABOR RATE	6870	MH			29.14			200	200		
							186 500		200	200		386 700
	L.A. BASIN							6870				

CES-2000-0 (4/81)

WARM WET SITE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 10-25-84 | SHEET 2 OF 8

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE B.O.M. | CHECKED BY

UNIT/AREA

DESCRIPTION VEHICLE MAINTENANCE BLDG

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT: MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT: M/HRS	SUBCONTRACT: DOLLARS	LABOR: M/HRS	LABOR: DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.49.7.32											
	600A 5KV PRIM SW FUSED PAD MTD	1	E				7000	45				
	500KVA TX 4.16KV 480/277V 3Ø 4W PAD MTD	1	E				12 000	58				
	480V MCC 1-6-1 11 ~ 100AF CKT BKR 1 ~ 225AF " " 1 ~ 600AF " " 17 ~ SIZE-1- COMB MAG STR 1 ~ " -2 " " " 1 ~ 800AF CKT BKR MAIN	1	E				15 500	117				
	PAD FOR PRIMSW & TX	1	LS				800	30				
	TOTAL THIS SHT.						35 300	250				

CES-2000-0 (4/81)

PARSONS

ESTIMATE WORKSHEET

WARM WET SITE

M.T.O. BY FIZED G | PRICED BY | DATE 10-25-84 | SHEET 3 OF 8

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE R.O.M. | CHECKED BY

UNIT/AREA

DESCRIPTION VEHICLE MAINTENANCE BLDG

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.49.7.32											
	30KVA TX 480-208/120V 3Ø 4W	1	E	1280	14.00		1280	14				
	LTG PNL 208/120V (RA)	1	E	850	20.00		850	20				
	LTG PNL 480V (LA)	1	E	800	16.50		800	17				
	MTG PNLS AND TX	3	E	15.00	6.00		50	18				
	480V MTR CONNECTIONS											
	10 HP	11	E	1.60	2.00		20	22				
	25 HP	2	E	3.15	2.15		10	4				
	30 HP	1	E	3.50	2.90		—	2				
	PLUG IN BUS DUCT (400A) 66'L	1	LS	—			5600	99				
	PLUG IN BUS DUCT (400A) 66'L	1	LS	—			5600	99				
	SUPPORTS FOR BUS DUCT	1	LS	—			700	30				
	BUS DUCT. FTG (30% OF BUS)	1	LS	—			3400	60				
							18 310	385				
	TOTAL THIS SHT.											

CES-2000-0 (4/81)

WARM WET SITE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 10-25-84 | SHEET 4 OF 8

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE R.O.M. | CHECKED BY (M)

UNIT/AREA

DESCRIPTION VEHICLE MAINTENANCE BLDG

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.16.49.7.32											
	480V MTR CONDUIT RUNS (150')											
	10 HP	11	E	444	45.2		4880	497				
	25 HP	2	E	577	52.3		1150	105				
	30 HP	1	E	763	62.5		760	63				
	LTG PNL CONDUIT RUNS (150') 1 TX	2	E	240	21.90		480	44				
	BUS DUCT SUPP.	1	LS	—			1500	60				
	" " FTG (30% OF BUS)	1	LS	—			7650	135				
	PLUG IN BUS DUCT CONDUIT RUN 400AMP 150'	2	E	1275	225		2500	450				
	20 TON BRIDGE CRANE CONDUIT RUN 150'	1	E	763	62.5		760	63				
	7.5 HP HYDRAULIC HOIST CONDUIT RUN 150'	2	E	444	45.2		890	90				
	AHU MAKE UP AIR UNIT CONDUIT RUN 150'	1	E	577	52.3		580	52				
	DRY PLANT AIR .9 KVA CONDUIT RUN 150'	1	E	444	45.2		440	45				
	TOTAL THIS SHT.						44590	1604				

CES-2000-0 (4/81)

5-220

WARM WET SITE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY FRED G | PRICED BY | DATE 10-25-84 | SHEET 5 OF 8

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE RDM | CHECKED BY

UNIT/AREA

DESCRIPTION VEHICLE MAINTENANCE BLDG

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.49.7.32											
	ACCU 80G AIR COOLED COND UNIT 60KVA	1	E	763	625		760	62				
	CONDUIT RUN 150'											
	4.16KV PRIM FEEDER FROM SITE SERV BLDG TO 600A 5KV PRIM SW	1	LS	—			—	—		w/U.G. UTILITIES		
	FEEDER FROM 600A 5KV PRIM SW TO 500KVA TX	1	LS	—			3000	40				
	FEEDER FROM 500KVA TX TO 480 MCC 1-6-1	1	LS	—			4000	60				
	TOTAL THIS SHT.						7760	162				

CES-2000-0 (4/81)

WARM WET SITE

PARSONS

ESTIMATE WORKSHEET

M.T.O. BY FREDG | PRICED BY | DATE 10-25-84 | SHEET 6 OF 8

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA

DESCRIPTION VEHICLE MAINTENANCE BLDG

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT: MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT: M/HRS	SUBCONTRACT: DOLLARS	LABOR: M/HRS	LABOR: DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.49.7.32											
	LIGHTING & RECEP											
	155'-4" X 115'-4" = 17933 □'											
	17933 □' X $10.00/□' = $179330											
	USE 40% MATL AND 60% LABOR											
	$ MATL 179330 X .40 = 71732											
	LABOR 179330 X .60 = 107598											
	$ 107598 ÷ $28.58/MH = 3765 MH											
	USE	1	LS				71 730	3765				
	COMM											
	17933 □'											
	17933 □' X $0.35/□' = $6277											
	USE 40% MATL & 60% LABOR											
	$ MATL 6277 X .40 = $2510											
	LABOR 6277 X .60 = 3766											
	$ 3766 ÷ $28.58/MH = 132 MH											
	USE	1	LS				2500	132				
	TOTAL THIS SHT						74 230	3895				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY FREDG | PRICED BY [illegible] | DATE 10-25-89 | SHEET 7 OF 8

JOB NO.: 6440-10 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY [illegible]

UNIT/AREA

DESCRIPTION VEHICLE MAINTENANCE BLDG

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB $	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	ELECT'L 5.5.6.4/9.7.32											
	GROUNDING											
	17933 □'											
	17933 □' X 0.30/□' = $5380											
	USE 40% MATL & 60% LABOR											
	MATL $5380 X .40 = $2152											
	LABOR $5380 X .60 = $3228											
	$3228 ÷ $28.58/MH = 113											
	USE	1	LS				2150	110				
	FIRE ALARM ~											
	17933 □'											
	17933 X 0.25/□' = $4483											
	USE 40% MATL 60% LABOR											
	MATL $4483 X .40 = $1793											
	LABOR 4483 X .60 = 2689											
	$2689 ÷ $28.58/MH = 94											
	USE	1	LS				1790	90				
	TOTAL THIS SHT.						3940	200				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY E FONG | PRICED BY E FONG | DATE 11/14/84 | SHEET 8 OF 8

JOB NO. 6440 | CLIENT: PNL/DOE | TYPE OF ESTIMATE ROM | CHECKED BY

UNIT/AREA VEHICLE MAINTENANCE BLDG

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6 49.7.32 ELECT'L											
	LIGHTNING PROCTECTION AIR TERMINIALS, COPPER 1/2"	50	EA	11.00	1.0		550	50				
	CABLE, COPPER 347#/MLF	1000	LF	1.56	.036		1560	36				
	USE 10 % OF ABOUT FOR FITTINGS, SUPPORTS ETC	1	LS				210	10				
	TOTAL THIS SHT.						2320	96				

CES-2000-0 (4/81)

E-2201

49 - VEHICLE MAINTENANCE BLDG
7.35.22 EQUIPMENT

PARSONS

WARM WET. SITE — ESTIMATE WORKSHEET — NOV. 5 '84

M.T.O. BY D. SCHLOSSER | PRICED BY | DATE JULY 12, 1984 | SHEET 1 OF 13

JOB NO. 6440-70 | CLIENT: DOE/PNL | TYPE OF ESTIMATE PRELIMINARY | CHECKED BY

UNIT/AREA MRS FACILITY

DESCRIPTION

CAPACITY 5,5.6 SUPPORT FACILITIES

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
49	VEHICLE MAINTENANCE BLDG											
7.35.22	EQUIPMENT - SUMMARY (OTHER)											
	SHEET 2 OF 13						24 300	189				
	3						11 400	78				
	4						3 300	16				
	5						12 600	4				
	6						14 700	110				
	7						9 200	66				
	8						5 000	20				
	9						36 700	273				
	10						2 600	—				
	11						5 800	36				
	12						7 200	48				
	13						110 000	860				
	SUB TOTAL						242 800	1700				
	PROD. 1700 / 96%	1770	MH			25.7±			45 500			
								1770				
	L.A. BASIN TOTAL EQUIPMENT						242 800		45 500			288 300

CES-2000-0 (4/81)

5-235

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER PRICED BY DATE 11/14/84 SHEET 2 OF

JOB NO. 6440-70 CLIENT: DOE/PNL TYPE OF ESTIMATE PRELIMINARY CHECKED BY

UNIT/AREA VEHICLE MAINTENANCE GARAGE

ACCNT	DESCRIPTION / CAPACITY	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.49.7.35.22											
	FRONT END ALIGNMENT UNIT SIZED TO HANDLE CARS AND TRUCKS TO TIRE SIZE 11:20x20 100 INCH FRONT BEAM ADJUSTABLE FROM 48 INS TO 90 INS LOAD CAPACITY 18,000 lbs OPTICAL PROJECTION HEADS AND STANDS SPECIAL WHEEL MIRRORS NECESSARY CHECKING FIXTURES	1		12.5K			12 500	100				
	DUAL POST HOISTING UNIT WEAVER MODEL OR EQUAL CAPACITY 24000 lbs MAX LIFT 67 INCHES OIL DISPLACEMENT 50 GALS. OIL REQUIRED 85 GALS.	1		8.6K			8 600	66				
	SINGLE POST LIFTING UNIT WEAVER MODEL OR EQUAL CAPACITY 8000 lbs. MAX LIFT 69 INCHES OIL DISPLACEMENT 27 GALS. OIL REQUIRED 45 GALS.	1		3.2K			3 200	23				
	PAGE TOTAL						24 300	189				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER | PRICED BY | DATE 11/14/84 | SHEET 3 OF

JOB NO. 6440-70 | CLIENT: DOE / PNL | TYPE OF ESTIMATE PRELIMINARY | CHECKED BY

UNIT/AREA VEHICLE MAINTENANCE GARAGE

DESCRIPTION / CAPACITY / ACCNT	QUANTITY	UNIT	COST OR M/HRS PER UNIT: MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT: M/HRS	SUBCONTRACT: DOLLARS	LABOR: M/HRS	LABOR: DOLLARS	TOTAL DOLLARS
ACCNT 5.5.6.49.7.35.22											
OVERHEAD REEL LUBE SYSTEM 4-REEL UNIT, GREASE, GEAR LUBE, AIR AND MOTOR OIL. 25 FT HOSES AIR PRESSURE OPERATED	1		3.6K			3600	27			700	
LUBE UNITS, FLOOR PORTABLE AIR OPERATED ROLL-ABOUT LUBE BARREL. CAPABLE OF PACKING BEARINGS 5/8 IN. TO 3 1/4. COMPLETE WITH LUBE HOSE AND GREASE GUN ATTACHMENT	2	EA	.8K			1600	4			1	1
HAND OPERATED LUBE ACCESSORIES SUCTION GUN, OIL GUN, GREASE GUN AND OIL CANS.		LOT	.2K			200	—				
TIRE CHANGER, (TRUCKS) CAPACITY: TIRE SIZE 14:00 x 24 ELECTRIC-HYDRAULIC OPERATING AIR 100 PSI. 2 HP MOTOR, 230 VOLT, 3 PHASE 60 HERTZ.	1		6K			6000	47				
PAGE TOTAL						11400	78				

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PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER PRICED BY DATE 11/14/84 SHEET 4 OF

JOB NO. 6440-70 CLIENT DOE/PNL TYPE OF ESTIMATE PRELIMINARY CHECKED BY

UNIT/AREA VEHICLE MAINTENANCE GARAGE

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
	5.5.6.49.7.35.22											
	TIRE BALANCING MACHINE BALANCING SPEED 450 RPM 2 HP MOTOR 230 VOLT, 3 PHASE 60 HERTZ	1		.7K			700	4				
	TIRE REPAIR TEST TANK	1					100	—				
	TIRE STORAGE RACKS LYON MODEL 7501 OR EQUAL STEEL CONSTRUCTION UNIT 84 INS. HIGH, 48 INS WIDE 16 INS DEEP.	2	EA	.2K			400	4				
	SAFETY INFLATION CAGE 5 BAR STYLE CAPACITY 14:00 x 24 TIRES	1		.3K			300	—				
	AIR WRENCHES AND TOOLS AIR IMPACT WRENCH AIR OPERATED TORQUE WRENCH	2	EA	.5K			1000	4				
	TIRE AND WHEEL CARRIER CART UNIVERSAL MODEL S25 OR EQUAL CAPACITY 2500 LBS.	1		.8K			800	4				
	PAGE TOTAL						3300	16				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER PRICED BY DATE 11/14/84 SHEET 5 OF

JOB NO. 6440-70 CLIENT DOE / PNL TYPE OF ESTIMATE PRELIMINARY CHECKED BY

UNIT/AREA VEHICLE MAINTENANCE GARAGE

ACCNT	DESCRIPTION / CAPACITY	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.49.7.35.22											
	FLOOR JACKS	2	EA									
	2 TON CAPACITY			.6K			1200	–				
	4 TON CAPACITY			1K			2000	–				
	BENCH, STEEL TOP	2	EA	.6K			1200	4				
	72 INS LONG, 36 INS WIDE, 34-IN. HIGH HEAVY DUTY CONTRUCTION. DESIGNED WITH 3/8 INCH THICK TOP. TABLE CAPACITY 2000 lbs.											
	TUNEUP ANALIZER. SUN MODEL THT 1015 OR EQUAL PORTABLE UNIT 15 IN. OSCILLOSCOPE SCREEN 3 SCALE AMP AND DWELL METER VOLT AND OHM METERS	1		5.9K			5900	–				
	FLOOR LIFTING CRANE MOBILE UNIT CAPACITY 2000 lbs BOOM EXTEND TO 117 INCHES 5 IN. WHEELS FOLD-AWAY FEATURE HYDRAULIC PUMP OPERATED 62 INCH LIFT CHAIN HORIZONTAL ADJUSTMENT TO 80 INCHES	1		2.3K			2300	–				
	PAGE TOTAL						12 600	4				

CES-2000-0 (4/81)

PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER PRICED BY DATE 11/13/84 SHEET 6 OF

JOB NO. 6440-70 CLIENT DOE/PNL TYPE OF ESTIMATE PRELIMINARY CHECKED BY

UNIT/AREA VEHICLE MAINTENANCE GARAGE

ACCNT	DESCRIPTION / CAPACITY	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.49.7.35.22											
	PARTS CLEANER UNIT ELECTRIC FIRED INSIDE DIMENSIONS 36 IN. LONG X 23 3/4 WIDE, 24 INS. DEEP 1 HP AGITATOR MOTOR 115/230 VOLT, 1 PHASE, 60 HERTZ. UNIT COMPLETE WITH PARTS BASKET UNIT	1		5.6K			5600	43			1	
	GRINDER, BEARING CAPS BEARING CAP CAPACITY 8 3/4" X 5" GRINDING WHEEL 7 INCHES 1 HP MOTOR, 110 VOLTS, 1 PHASE, 60 HERTZ.	1		1.3K			1300	8				
	HEAVY DUTY BRAKE DRUM LATHE DRUM DIA CAPACITY 14" TO 32" SPINDLE MOTOR: 2HP 230/440 VOLT, 3 PHASE, 60 HERTZ. GRINDING ATTACHMENT MOTOR 1/2 HP	1		6.2K			6200	47				
	MOTOR & TRANSMISSION POSITIONER CAPACITY 2000 lbs. MOBILE UNIT. FLOOR LOCKDOWN ANCHORS HYDRAULIC JACKS FOR TILTING GEAR TURNING DEVICE FOR ROTATING ENGINE 360 DEGREES	1		1.6K			1600	12				
	PAGE TOTAL						14700	110				

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PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER | PRICED BY | DATE 11/14/84 | SHEET 7 OF ___

JOB NO. 6440-70 | CLIENT: DOE/PNL | TYPE OF ESTIMATE PRELIMINARY | CHECKED BY

UNIT/AREA VEHICLE MAINTENANCE GARAGE

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
	5.5.6.49.7.35.22											
	"A" FRAME HOISTING UNIT CAPACITY 2 TONS EQUIPPED WITH A 2 TON HAND OPERATED CHAIN HOISTING UNIT.	1		4K			4000	31				
	BATTERY CHARGER - STATIONARY MULTIPLE CHARGING UNIT MAX. RATED CHARGING 50 AMP 10 FT CHARGING LEADS TO CONNECT TO BUS BAR	1		.6K			600	4				
	BATTERY CHARGER, PORTABLE TELL AMOUNT OF CHARGE METER MAX. RATED CHARGING 90/120 AMP 300 AMP CRANKING POWER	2	EA	.3K		—	600	—				
	GRINDER, PEDESTAL MOUNTED GRINDER WHEEL 12 IN. X 2 IN X 1¼ IN 2 HP MOTOR, 230 VOLT, 3 PHASE 60 HERTZ. SAFETY EYESHIELDS	2	EA	2K			4000	31				
	PAGE TOTAL						9 200	66				

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PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER | PRICED BY | DATE 11/14/84 | SHEET 8 OF

JOB NO. 6440-70 | CLIENT: DOE/PNL | TYPE OF ESTIMATE PRELIMINARY | CHECKED BY

UNIT/AREA VEHICLE MAINTENANCE GARAGE

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
	5.5.6.49.7.35.22											
	DRILL, PEDESTAL MOUNTED VARIABLE BELT DRIVE SPEED RANGE: 135 TO 1350 RPM 1½ HP, 230 VOLT, 3 PHASE, 60 HERTZ. POWERMATIC 20" OR EQUAL	1		2K			2000	16				
	TOOL BOX, ROLL-ABOUT TOOL ROLLER CABINET UNIT 5 DRAWER STYLE WITH ATTACTABLE 5 DRAWER TOOL CHEST UNIT. FURNISHED WITH LOCK & KEYS	4	EA	.4K			1600	—				
	CABINET PART STORAGE LYONS 38-1018 OR EQUAL HEAVY DUTY CONSTRUCTION WITH 4 ADJUSTABLE SHELVES DOUBLE DOORS WITH LOCKS AND KEYS. CABINET UNIT 78 IN HIGH, 36 INS. WIDE, 18 INS DEEP.	1		.2K			200	—				
	BENCH, STEEL TOP. STYLE 72 INS LONG X 30 INS WIDE AND 32 5/8 INS. HIGH. DESIGNED WITH 3/8 INCH THICK STEEL PLATE TOP. WORKING SURFACE TO SUPPORT 2000 lbs.	2	EA	.6K			1200	4				
	PAGE TOTAL						5000	20				

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PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER | PRICED BY | DATE 11/14/84 | SHEET 9 OF

JOB NO. 6440-70 | CLIENT: DOE / PNL | TYPE OF ESTIMATE PRELIMINARY | CHECKED BY

UNIT/AREA VEHICLE MAINTENANCE GARAGE

DESCRIPTION

CAPACITY

ACCNT	DESCRIPTION	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LAB$	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.49.7.35.22											
	VISE, BENCH MOUNTED 10 INCH PIPE JAW FACE VISE WITH SWIVEL STYLE BASE	2	EA	1.2K			2 400	8				
	WELDER, ELECTRIC 400 DC AMP UNIT AT 36 VOLTS 75 VOLT OPEN CIRCUIT INPUT AMP. AT 230 VOLTS WILL BE 80. POWER USAGE WILL BE 31.9 KVA	1		1.8K			1 800	12				
	AIR COMPRESSOR, ROTARY FURNISH 100 TO 125 PSI. CHAMPION MODEL RC50 OR EQUAL. PACKAGE UNIT 64 INS x 38 INS x 77½ INCHES. 50 HP MOTOR, 230 VOLTS, 3 PHASE 60 HERTZ	1		26K			26 000	202				
	HOT WATER CLEANER (PORTABLE) HOTSY 840 MODEL OR EQUIP 1200 PSI CLEANING CAPACITY 4 GPM DISCHARGE CAPACITY 10 HP MOTOR ON PUMP SYSTEM UNIT FURNISH WITH HOSE AND SPRAY GUN NOZZLE	1		6.5K			6 500	51				
	PAGE TOTAL						36 700	273				

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PARSONS

Warm Wet Site

ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER PRICED BY DATE 11/14/84 SHEET 10 OF

JOB NO. 6440-70 CLIENT DOE/PNL TYPE OF ESTIMATE Preliminary CHECKED BY

UNIT/AREA VEHICLE MAINTENANCE GARAGE

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT			MATERIAL EXPENSE	SUBCONTRACT		LABOR		TOTAL DOLLARS
				MATL	M/H	LABS		M/HRS	DOLLARS	M/HRS	DOLLARS	
	5.5.6.49.7.35.22											
	OXYGEN AND ACETYLENE KIT. KIT COMPLETE WITH 25 FT HOSES, TANKS, GAUGES. CUTTING TORCH, HEATING TIP AND VARIOUS WELDING TIPS	1		.4K			400	—				
	VALVE SERVICING KIT. KIT TO INCLUDE: 1. SEAT GRINDER DRILL 2. GRINDING WHEEL DRIVE ADAPTOR 3. BEARING WHEEL DRESSER 4 TOOL BOX 5. EXPANDING TABORED ARBOR.	1		.9K			900	—				
	VALVE SEAT GRINDER GRINDER IS AC/DC UNIT WITH BREAKING MECHANISM 45 DEGREE ANGLE DRIVE HEX GRINDER UNIT HEAVY DUTY DRESSER TOOL MOUNTING CABINET FOR TOOL STORAGE	1		1.3K			1 300	—				
	PAGE TOTAL						2 600	—				

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PARSONS

WARM WET SITE — ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER PRICED BY DATE 11/14/84 SHEET 11 OF

JOB NO. 6440-70 CLIENT DOE / PNL TYPE OF ESTIMATE PRELIMINARY CHECKED BY

UNIT/AREA VEHICLE MAINTENANCE GARAGE

DESCRIPTION / CAPACITY / ACCNT	QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
ACCNT 5.5.6.49.7.35.22											
"H" FRAME PRESS 25 TON CAPACITY OPERATING PRESSURE 90 TO 145 PSI. AIR OPERATED WITH MOVEABLE HEAD FRAME.	1		1.9K			1 900	12				
ENGINE BLOCK GRINDER BERGO MODEL RSC-950 OR EQUAL CAPACITY BLOCKS 38" LONG 5 HP MOTOR DRIVE, 230 VOLT, 3 PHASE, 60 HERTZ.	1		1.7K			1 700	12				
ENGINE HEAD GRINDER TOBIN-TA 20 OR EQUAL CAPACITY: HEADS 37 INCH LONG 6 HP, MOTOR, 230 VOLT, 3 PHASE 60 HERTZ.	1		1.4K			1 400	8				
ANALYZER, DIESEL POWER BACHARACH MODEL 65-0051 OR EQUAL. CAPACITY: TESTING PRESSURES TO 5000 PSI. PORTABLE UNIT	1		.8K			800	4				
PAGE TOTAL						5 800	36				

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PARSONS

WARM WET SITE

ESTIMATE WORKSHEET

M.T.O. BY D. SCHLOSSER, PRICED BY, DATE 11/4/84, SHEET 12 OF ____

JOB NO. 6440-70, CLIENT: DOE/PNL, TYPE OF ESTIMATE PRELIMINARY, CHECKED BY

UNIT/AREA VEHICLE MAINTENANCE GARAGE

DESCRIPTION

CAPACITY

ACCNT		QUANTITY	UNIT	COST OR M/HRS PER UNIT MATL	M/H	LABS	MATERIAL EXPENSE	SUBCONTRACT M/HRS	SUBCONTRACT DOLLARS	LABOR M/HRS	LABOR DOLLARS	TOTAL DOLLARS
	5.5.6.49.7.35.22											
	TIRE CHANGER, PASSENGER CARS ELECTRIC-AIR OPERATED CAPACITY TIRE SIZES 13 IN TO 15 IN.	1		3.4K			3400	24			6	
	BORING MACHINE, ENGINE BLOCK CAPACITY: 51 INCHES CENTER TO CENTER BORING 3 HP MOTOR, 230 VOLT, 3 PHASE 60 HERTZ.	1		2.3K			2300	16				
	HONING MACHINE, ENGINE BLOCK CAPACITY FOR HONING CYLINDERS 2 INCHES TO 8 INCH DIAMETER 3 HP MOTOR, 230 VOLT, 3 PHASE 60 HERTZ.	1		.8K			800	4				
	HOSE ASSEMBLY MACHINE CAPABLE OF REPAIRING HYDRAULIC HOSE SIZES USING 3-32 HOSE FITTING 3 1/2 HP MOTOR, 3 PHASE, 60 HERTZ.	1		.7K			700	4				
	PAGE TOTAL						7200	48				

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