EXTRA COPY

CED

MEMO

MEMO NO 1

TO: Don Wasson — LOCATION: G2WC

FROM: Carl Wittekind — LOCATION: F2WE

SUBJECT: Aroclor Dept. Update

☐ REPLY REQ'D ☑ NO REPLY REQ'D

CEA: 7817-02.0

DATE: 4-17-75

Attached evaluation estimate is for the up-dating of some selected equipment, & replacement of #2 Intermediate Tank I-329, in the Aroclor Area at the Krummrich plant.

This estimate is based upon estimate 7817-01.0 information, and script outline of work involved. (Don Wasson to Carl Wittekind 4-9-75)

Due to the very sketchy information received, this estimate is believed to be within ± 25%; contingencies of @17% capital & 15% expense are included.

Capital	$150,000
Expense	60,000
Total	$210,000

COPIES: EXTRA COPY #1 TO O.F. Bremen - F1WE

EXTRA COPY #2 TO K.E. Boucher - 1740 ✓

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CORPORATE ENGINEERING DEPARTMENT
COST ENGINEERING SECTION

CEA NUMBER	2-7817
SCOPE DATE	3-9-75
CE ESTIMATE NUMBER	7817-02.0
ESTIMATED DATE	4-16-75
COST ENGINEER	C. WITTEKIND
AREA SECTION MANAGER	KOZACKA/KOWITZ
PROJECT MANAGER	D. WATSON
ESTIMATE TYPE	EVAL ± 25%

PROJECT SUMMARY

PROJECT TITLE AROCLOR DEPT UPDATE

LOCATION KRUMMRICH PLANT COMPANY MICC

DESCRIPTION	EQUIPMENT	LABOR	MATERIAL	LUMP SUM	DISTRIB	TOTAL COST
INSTALLED MACHINERY & EQUIPMENT	[illegible]	[illegible]	14 000			[illegible]
UNINSTALLED SPARES						
LAND						
BUILDINGS						
CONSTRUCTION INDIRECTS					30 000	[illegible]
ENGINEERING % Total Project					[illegible]	[illegible]
DISTRIBUTIVES TO EXPENSE					(-20 000)	(-20 000)
CONTINGENCY % Total Capital*					22 000	[illegible]
OTHER						
UNDEVELOPED DESIGN						
TOTAL CAPITAL	[illegible]	[illegible]	[illegible]		60 000	150 [illegible]
EXPENSE						
DISMANTLING		4 000	1 000		4 000	[illegible]
START UP EXPENSE TAX					7 000	[illegible]
REPAIRS						
RELOCATIONS & MODIFICATIONS		9 000	[illegible]		9 000	[illegible]
START UP RELOC & MODIFICATIONS		[illegible]	[illegible]		4 000	11 000
CONTINGENCY 15 % Total Expense					[illegible]	[illegible]
TOTAL EXPENSE		17 000	[illegible]		33 000	[illegible]
TOTAL PROJECT COST	[illegible]	39 000	[illegible]		93 000	210 [illegible]

*Not to be reported in expert evaluation

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APPROVALS

COST ENGR SUPERVISOR O Bremer DATE 4-17-75

PROJECT MANAGER DATE

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CENTRAL ENGINEERING DEPARTMENT
COST ENGINEERING SECTION

CE ESTIMATE NUMBER 7817-02.0
DATE 4-16-75
COST ENGINEER C. WITTKIND

AREA CATEGORY SUMMARY

PROJECT TITLE AROCLOR DEPT UPDATE
LOCATION KRUMMRICH PLANT COMPANY MICC
AREA NUMBER(S) _____ AREA TITLE AROCLOR

CAT	DESCRIPTION		EQUIPMENT	LABOR	MATERIAL	LUMP SUM	TOTAL COST
01	EQUIPMENT ITEMS		12 000				22 000
02	INSTRUMENT ITEMS		12 000				12 000
03	S & T EQUIPMENT			5 000	4 000		9 000
04	S & T INSTRUMENTS			3 700	1 800		5 500
05	PILING						
06	EXCAVATION						
07	FOUNDATIONS			400	200		600
08	STRUCTURES & SUPPORT			1 200	600		1 800
09	OTHER BUILDING ITEMS			400	300		700
10	FIRE PROTECT & SPRNK.			300	200		500
11	PIPING			7 000	5 000		12 000
12	DUCTWORK			200	100		300
13	ELECTRICAL			1 500	500		2 000
14	SITE PREPARATION						
15	SEWERS DRAINS & PLBG.						
16	UNDERGROUND MAINS						
17	YARDS ROADS & FENCES						
18	RAILROADS						
19	INSULATION			2 000	1 000		3 000
20	PAINTING						
21	WALLS ROOF & ROOFING						
23	LUMP SUM CONTRACTS						
	SUB-TOTAL CAPITAL DIRECTS		24 000	22 000	14 000		90 000
22	UNINSTALLED SPARES						
	TOTAL CAPITAL DIRECTS						

CAT	DESCRIPTION	DISTRIB	EQUIPMENT	LABOR	MATERIAL	LUMP SUM	TOTAL COST
90	DISMANTLING	2 000		[illegible]	1 [illegible]		[illegible]
91	START-UP EXP - TAXES	7 [illegible]					[illegible]
92	REPAIRS EXPENSE						
93	RELOC & MOD EXPENSE	9 000		9 000	6 000		24 000
94	START UP RELOC & MOD	4 000		4 000	3 000		11 000
99	CONTINGENCIES - EXP.	9 000					17 000
	TOTAL EXPENSE	33 000		17 000	10 000		60 000
	TOTAL AREA	[illegible]	24 000	39 000	24 000		150 000

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COMPANY

CORPORATE ENGINEERING DEPARTMENT
COST ENGINEERING SECTION

CEA NUMBER 2-7617
ESTIMATE NUMBER 7617-02,0
DATE 9-16-75
COST ENGINEER C. W. [illegible]

DISTRIBUTIVE CATEGORY SUMMARY

PROJECT TITLE ARoCLoR DEPT UPDATE
LOCATION KRUMRICH PLANT COMPANY MICC
AREA NUMBER 50 AREA TITLE DISTRIBUTIVES

CAT	DESCRIPTION	LABOR DISTRIB	MATERIAL DISTRIB	TOTAL DISTRIB	% DIRECT LABOR
50	SITE BURDEN	3 420	200	3 620	15 0
51	DIRECT LABOR BURDEN	7 980	7 980	15 960	30 0
53	CONSTR TOOL & SUPPLY	152	1 368	1 520	3 0
55	EQUIP RENTAL & SERV		1 520	1 520	3 0
58	PREMIUM WAGES	1 900		1 900	5 0
67	TEMPORARY FACILITIES	1 330	1 330	2 660	7 0
	TOTAL CONSTRUCTION INDIRECTS	19 782	12 618	32 400	80 0
	USE			30 000	
	TOTAL DIRECT LABOR 39000				
80	CEO ENGINEERING			2 400	
81	OUTSIDE ENGINEERING				
	TOTAL ENGINEERING			23 400	
87	UNDEVELOPED DESIGN				
89	CONTINGENCY - CAPITAL			22 000	
	TOTAL PROJECT DISTRIBUTIVES			80 000	
88	DISTRIBUTIVES TO EXPENSE			1 720 0000	
	TOTAL CAPITAL DISTRIBUTIVES			60 280	

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