

COST ESTIMATE

ENR Index 1963.

S.

FORM

PROJECT Local Emission Control
JOB NO. EA-22-EP AUTH. NO.
MADE BY Design Section DATE 5-17-74

PLANT El Paso
DRAWING NOS. See List Below
CHECKED BY A.O. Marsh, Jr. DATE 5-17-74

QUANTITY	CLASSIFIED MATERIAL	UNIT PRICE	ESTIMATED COST
SUMMARY			
C -	MACHINERY AND EQUIPMENT		\$306,300
1.	Total Direct Labor & Materials		\$306,300
2.	Engineering		
2.1	Design @ 8.5% of (1)		26,700
2.2	Field supervision @ 1.5% of (1)		5,000
3.	Contractor's Field Distributables @ 17.5% of (1)		54,000
4.	Total Field & Engineering Costs		\$392,000
5.	Contingencies @ 10% of (4)		39,000
6.	Escalation @ 15% of (4)		59,000
7.	Contractor's Fee		29,000
8.	Total Estimated Capital Costs		\$519,000
9.	Sales Taxes - Bulk Materials & Equipment		17,000
10.	TOTAL ESTIMATED PROJECT COSTS		\$536,000

List of Drawings:

E-13530
EP-21151-902-G
EP-21152-902-G
EP-21153-902-G

PLAINTIFF'S EXHIBIT

ASA-605

ASARCO ELP 0000238

S-1

FCM 84

08 Local Emission Control

PLANT El Paso

06 NO. EA-22-EP

AUTH. NO.

DRAWING NOS.

MADE BY Design Section . DATE 5-17-74

CHECKED BY A. O. Marsh, Jr. DATE 5-17-74

POUR NO.	CLASSIFIED MATERIAL	QUANTITIES	EST'D LIFE	EST'D DATE OF COMPL.	UNIT PRICES		EST. MATER. COST		TOTAL ESTIMATED COST
					MATERIAL	LABOR	MATERIAL	LABOR	
SUMMARY									
C - MACHINERY AND EQUIPMENT									
C-1	Sinter Machine Ventilation								\$ 36,650.
C-2	Cadmium Plant Ventilation								72,450.
C-3	Blast Furnace Elevator Ventilation								167,000.
C-4	Dross Kettle Ventilation								6,200.
C-5	Cadmium Crane Cab Ventilation								8,000.
C-6	Dross Reverb Crane Cab Ventilation								16,000.
TOTAL DIRECT LABOR & MATERIALS									\$306,300.

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FORM 12A

JOB Local Emission Control
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PLANT El Paso
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GROUP NO.	CLASSIFIED MATERIAL	QUANTITIES	EST'D LIFE	EST'D DATE OF COMPL.	UNIT PRICES		ESTIMATED COST		TOTAL EST. MAT'L COST
					MATERIAL	LABOR	MATERIAL	LABOR	
C-1 Sinter Machine Ventilation									
1.	8" dia. duct	100'	10	0329	@ 8/ft				\$ 800.
2.	12" dia. duct	150'	10	0329	@ 11/ft				1,650.
3.	Hoods, fan supports & floor steel	9T	10	0329	@ 1500/T				13,500.
4.	Fans - 3500 CFM @ 6" S.P. complete w/motors & drives	6	20	0560	1200	250	7200	1500	8,700.
5.	Electrical	60HP	30	0536	@ 200/HP				12,000.
TOTAL C-1									\$36,650
C-2 Cadmium Plant Ventilation									
1.	8" dia. duct	50'	10	0329	@ 8/ft				400.
2.	12" dia. duct	150'	10	0329	@ 11/ft				1,650.
3.	16" dia. duct	50'	10	0329	@ 14/ft				700.
4.	20" dia. duct	40'	10	0329	@ 20/ft				800.
5.	Hoods & structural steel	6T			@ 1400/T				8,400.
6.	Baghouse-10,000CFM								
	Structural steel hopper & thimble floor	15T	20	0639	@ 1400/T				21,000.
	Floor grating	200SF	20	0639	@ 6/SF				1,200.
	Galbestos siding	26 Sq	20	0639	@ 200/Sq				5,200.
	Shaker frame 2"dia. Std pipe	150'	20	0639	@ 8/ft				1,200.
	Frame support rollers, cranks, discs, bag hangers	Lot	20	0639			3000	1200	4,200.
	15HP gearmotor chain drive & bearings	1	20	0639			2000	500	2,500.
	Bags 8"dia.x18'-0	130	20	0639	@ 10/bag				1,300.
ASARCO ELP 0000240									

ASARCO ELP 0000240

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FORM 22A

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PLANT El Paso
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GROUP NO.	CLASSIFIED MATERIAL	QUANTITIES	EST'D LIFE	EST'D DATE OF COMPL.	UNIT PRICES		ESTIMATED COST		TOTAL ESTIMATED COST
					MATERIAL	LABOR	MATERIAL	LABOR	
C-2	Cadmium Plant Ventilation, continued:								
7.	10,000 CFM fan w/ motor & drive	1	20	0560			2600	700	\$ 3,300.
8.	Screw conveyor	30'	10	0277 @ 120/ft					3,600.
9.	Concrete	30CY	20	0560 @ 200/CY					6,000.
10.	Electrical	55HP	50	0536 @ 200/HP					11,000.
							TOTAL C-2		\$72,450.
C-3	Blast Furnace Elevator Ventilation								
1.	Elevator building								
	Girts, door & support steel	13T	20	0308 @ 1400/T					18,200.
	Galvanized corrugated roofing & siding	50Sq	20	0308 @ 200/Sq					10,000.
2.	36" dia.x10 ga. duct	5T	10	0329 @ 1500/T					7,500.
3.	30,000 CFM fan w/ motor & drive	1	20	0560			8500	1000	9,500.
4.	Concrete	30CY	20	0560 @ 200/CY					6,000.
5.	Screw conveyor	110'	10	0277 @ 120/ft					13,200.
6.	Baghouse								
	Structural steel hopper & thimble floor	34T	20	0639 @ 1400/T					47,600
	Floor grating	525SF	20	0639 @ 6/SF					3,150
	Galbestos siding	38Sq	20	0639 @ 200/Sq					7,600
	Shaker frame 2"dia. pipe	450'	20	0639 @ 8/Ft					3,600
	Frame supports, drive cranes, discs, bag hangers & holders	Lot	20	0639			7000	3000	10,000
ASARCO ELP 0000241									

ASARCO ELP 0000241

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FORM 1-64

JOB Local Emission Control

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GROUP NO.	CLASSIFIED MATERIAL	QUANTITY	EST'D LIFE	EST'D DATE OF COMPLETION	UNIT PRICES		ESTIMATED COST		TOTAL ESTIMATED COST
					MATERIAL	LABOR	MATERIAL	LABOR	
C-3 Blast Furnace Elevator Ventilation, continued:									
6. Baghouse, cont.									
	10HP gear motors	2	20	0639 @ 1800/ea					\$ 3,600
	Bags	432	20	0639 @ 9/bag					3,888
7.	Electrical	110HP	50	0536 @ 200/HP					22,000
8.	Air supply & damper control valve	Lot					762	400	1,162
TOTAL C-3									\$167,000
C-4 Dross Kettle Ventilation									
1.	Vent hoods & ducts	4T	10	0329 @ 1500/T					6,000
2.	Concrete	1CY	10	0329 @ 200/CY					200
TOTAL C-4									\$ 6,200
C-5 Cadmium Crane Cab Ventilation									
1.	Air conditioning & filtering unit	1	15	0637			5000	1000	6,000
2.	Cab modifications	1T	15	0637 @ 1400/T					1,400
3.	Electrical	3HP	50	0536 @ 200/HP					600
TOTAL C-5									\$ 8,000
C-6 Dross Reverb Crane Cab Ventilation									
1.	Air conditioning & filtering unit	2	15	0637			10,000	2000	12,000
2.	Cab modifications	2T	15	0637 @ 1400/T					2,800
3.	Electrical	6HP	50	0536 @ 200/HP					1,200
TOTAL C-6									\$ 16,000

ASARCO ELP 0000242