

APPLICATION FOR APPROPRIATION GO-36

REQUESTED BY Chevron Oil Company, Western Division
(ORGANIZATION)DATE 9/27/65 AMOUNT \$6,000
(ITEM 6)FOR Noise reduction of FCC Precipitator Inlet Duct. El Paso RefineryAPPLY AGAINST 19 65 BUDGET - BUDGET CATEGORY: Misc.PLAINTIFF'S
EXHIBIT

CHV-10

Items to be filled out in accordance with instructions on reverse side hereof.

- | | | | |
|--|---|-----|--|
| 1. LAND, RIGHTS-OF-WAY AND DAMAGES | | | |
| 2. CONTRACTS; RENTALS; FEES | | | |
| 3. LABOR (INCLUDES INDIRECT COSTS; EXCLUDES CONTRACT LABOR) | 3 | 100 | |
| 4. MATERIALS (PURCHASED AND INVENTORY STOCKS; INCLUDES MATERIALS BURDEN) | 2 | 400 | |
| 5. MISCELLANEOUS CHARGES | | 500 | |

6. TOTAL AMOUNT REQUESTED

6 000

7. EQUIPMENT ALREADY IN PLANT ACCOUNT INCORPORATED IN THIS PROJECT -

ESTIMATED PRESENT VALUE

8. INCREASE IN INVENTORIES MADE NECESSARY BY PROJECT

9. OTHER INCREASES IN WORKING CAPITAL MADE NECESSARY BY PROJECT

10. RISK CAPITAL OR CREDIT NOT INCLUDED ABOVE

11. TOTAL VALUE INVOLVED IN PROJECT

6 000

12. REASONS FOR MAKING PROPOSED EXPENDITURE: Noise levels at FCC have increased with increased feed and air rates. The resulting noise level in adjacent residential area is well above the desired limits.

13. PAYOUT WILL BE _____ YRS. OF _____ YRS. USEFUL LIFE AT _____ % INCOME TAXES.

14. RATE OF RETURN ON NET OUTSTANDING INVESTMENT WILL BE _____ % AT _____ % INCOME TAXES & _____ YRS. USEFUL LIFE
(REQUIRED FOR PROJECTS OVER \$100,000 AND THOSE WITH IRREGULAR CASH FLOW OR LESS THAN TEN YEARS USEFUL LIFE)

TOTAL EXPENDITURE (ITEM 6) ESTIMATED BY QUARTERLY PERIODS

YEAR 19 65YEAR 19 66

1ST QTR. \$ _____

1ST QTR. \$ 2,000

2ND QTR. \$ _____

2ND QTR. \$ _____

3RD QTR. \$ _____

3RD QTR. \$ _____

4TH QTR. \$ 4,000

4TH QTR. \$ _____

ESTIMATED DATE OF INITIAL OPERATION _____

REPORTED TO EL PASO

CO-ORDINATING COMMITTEE

Date 9-28-65 By ARL

RECOMMENDED

ENDORSED

Engineer RPT [Signature]

[Signature] 9/28/65
DATE

Paul J. Mottain 9/28/65
DATE

[Signature] 9/28/66
DATE

DATE

DATE

DATE

DEPARTMENT MANAGER

DATE

APPROVED

9/28
DATEGO-36 (16M.CD-5-62)
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Present Situation: Due to a report of noise annoyance of the residents of adjoining Romona addition, a noise survey was conducted. This revealed that increased feed and air rates have increased noise levels at the FCC by 9 to 12 decibels (sound pressure doubles for each 3 decibel increase.) Noise levels have increased up to 15 decibels at our fence line compared to the 1961 survey. In adjacent Romona addition sound levels are as high as 14 decibels above the typical criterion for a residential neighborhood. The frequency-power profile of this noise as well as observation indicates the FCC precipitator inlet is a principal source of the noise. Continuous fatigue cracking of structural members and the skin of the precipitator inlet section has also been caused by the same vibration that is generating the noise.

Proposal: Spray a three inch thick coating of "Limpet" insulation on the external surfaces of the flue gas system from top slide valve to precipitator. Based on Pascagoula's experience with a similar installation a reduction of 15 to 20 decibels should be achieved at the precipitator. This would reduce noise levels down to and possibly slightly below 1961 levels. A corresponding reduction in noise level will result at our fence boundary and in Romona Tract.

Justification: Informal information indicates that Romona residents are thinking of presenting a complaint to the City. With the noise levels measured during the survey, possible City enforced sound reduction is likely, which would result in bad publicity.

Some reduction in fatigue failures of precipitator is also expected due to dampening effect of insulation upon the vibration of the skin and structural members.

ESTIMATE SHEET

FOR Noise Abatement
FCC Precipitator
 ITEM TITLE No \$ from supplier *

FILE _____
 S.O. _____ ITEM _____
 SHEET _____ OF _____
 DATE 9/21/65
 DRWG. NO. _____

REQUESTED BY _____ MADE BY RPT
 CHECKED BY _____ APPROVED BY _____

DESCRIPTION	UNIT	QUANT.	PRICE	LABOR	MAT'L	TOTAL
Limpet Installed *	Ø	800	2 ⁵⁰	—	2000	2,000
Travel Expense					240	240
3 men @ \$20					100	100
4 manday @ 25						
Staging Up & Down	MD	20	\$50	1000	100	1000
Nelson Studs				100	300	400
Chicken Wire				200	100	300
Brick Draft & Import				600		600
				1800	2840	4640
Sales Tax					50	50
Con.				60	300	660
						5350
						5500
						\$6000

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