

PLAINTIFF'S EXHIBIT

CHV-720

105-93 Install Drain & Gate Valve
in Gas Line to Furnace F-501
R-409

Chevron BB
040400

WORK REQUISITION

GO-113

TO COST NOT
MORE THAN

J-18573

TO

D.D. LYUCK

ATTN: CDA

3/21/57

NO.

NO.

NO.

NO.

NO.

TO BE USED FOR

Blocks & Benders

1-501

1-501

1-501

1-501

1-501

1-501

1-501

1-501

1-501

CHARGE TO

2-409-1

3/27/57

4/9/57

4/9/57

4/9/57

4/9/57

4/9/57

4/9/57

4/9/57

4/9/57

4/9/57

EQUIPMENT READY: DATE

3/27/57

4/9/57

4/9/57

4/9/57

4/9/57

4/9/57

4/9/57

4/9/57

4/9/57

4/9/57

INSTRUCTIONS:

Please install

4-32

2" gate

4-32

1/2" gate

4-32

1/2" gate

4-32

1/2" gate

4-32

Blade

above

banding

flanges

in each

of the

12 gas

lines

to

bumpers

at

1-501

in

accordance

with

the

above

sketch

T-285

4-32

1/2" gate

4-32

Sketch

T-285

4-32

1/2" gate

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1/2" gate

4-32

PROPOSAL FOR CONSTRUCTION AND MAINTENANCE WORK 60-36-B-TX

District or Division Mfg. Location or Property El Paso Refinery

Work Proposed Install Additional Block Valves & Bleeders in Gas Risers for Gas Recovery Hot Oil Furnace

Appropriation Number R-409

Job No. 105-93

Budget Project No.

Amount Requested \$ 900.00

Previously Authorized \$

Estimated Total \$

SUMMARIZED ESTIMATE

ITEM	Contract	Company Labor (Incl. PR Burden)	MATERIALS		Misc. Charges	Total
			Purchased	Inventory Stocks		
1. Install 2" screwed 600# gate valve in each of 12 gas lines to furnace, F501.		144	412			556
2. Install drain with 1/2" screwed 600# gate valve in each of 12 gas lines to furnace, F501.		100	126			226
3. Engineering		6				6
4. Contingency						
Field Indirect Expense						
Total Amount Requested (Item 8, Co-36-TX)		250	538			788

Recommended By

6/26/57

DATE

DATE

DATE

DATE

MEMORANDUM GO-144

TO: MR.

O.B.M.

9/11/1957

FROM: MR.

J.E.H.

SUBJECT:

OUR FILE:

R-409

YOUR FILE:

Attached is a completion notice for R-409.

This job was done during the annual shutdown of the Gas Recovery Unit, & apparently did not receive correct charges for all the labor & material used. Therefore, please transfer the following charges from Mtg. Exp. 106-09 to the Appropriation

To:

L M T

R-409-1 7-2" 600# stl. gate valves ~~\$240~~ ^L \$240 \$240.

R-409-2 Co. Labor * 100 \$100

\$ 100 \$ 240 \$ 340

OMO 9/11/57

TO: MR. J. H. KITCHEN

Attention: Mr. J. E. Hayden <DMO>

REQUEST FOR DATA NECESSARY TO COMPLETE
AND CLOSE JOBS AND APPROPRIATIONS

Appro. or Job No. R-409

Date July 15, 1957

Further information or data is required on the items checked below. Please furnish or contact us for details.

- ☒ 1. Notice of completion showing engineering and drafting hours.
- ☐ 2. Material charges _____.
- ☐ 3. Labor charges: Company _____ Contract _____.
- ☐ 4. No. TX-145 received covering material or equipment dismantled or transferred.
- ☐ 5. Serial number or Company assigned equipment number missing on TX-145 No. _____ covering equipment dismantled or transferred.
- ☐ 6. Approved Appropriation or Job not received.
- ☐ 7. Appropriation item numbers not shown on charges.
- ☒ 8. Physical inventory of completed project not received.
- ☐ 9. Miscellaneous _____

Financial Accounting Division

MEMORANDUM

El Paso, Texas

June 26, 1957, 195

NOTICE OF COMPLETION ON

Approp. No. R-409

Job Number 105-92

Title: Install Drain & Gate Valve
in Gas Line to Furnace F-501

MR. F. R. MENKE:

R. J. Galentin

Attention: Mr. ~~Galentin~~

Construction work has been completed on subject project on 4/10/57
and project placed in commercial operation on 4/15/57.

1. Number of engineering and drafting hours to be charged are:

Engineering 0 Drafting 2

2. We will assist you in taking physical inventory upon request.

3. Alterations of existing plant not specified by item in appropriation are as follows:

4. Also a check has been made to verify that:

a. TX-145's for material and equipment dismantled or transferred have been submitted.

b. TX-145's for scrap material used in fabrication of equipment and value have been submitted.

5. Please complete and return the attached GO-36B showing final costs.

J. E. HAYDEN

JEH/lis

3-21-57

WEL

OK WEL

JOB complete —

Drawings signed

Awaiting approval of expenditure
request —

This job to be done prior
to start up —

OK need GO 113 & drawings to
C.D.H.

1. Changed drawing to call for
L-32 (was L-31) - 2" valves
2. GO-113 written 3/27/57
WEL

WORK REQUISITION

GO-113

TO COST NOT
MORE THAN

J- 18574

TO

3/27/57

19

57

NO.

TO BE USED FOR

ITEM NO.

CHARGE TO

EQUIPMENT READY, DATE

TIME

LOCATION

DATE REQUIRED

INSTRUCTIONS:

50-113 # J-18574 CARRIERS
installing 21 blocks & 1/2" spacers
on fuel pump to 12 barrels on K-501

APPROVED BY

ASSIGN TO

DATE COMPLETE

ACTUAL COST

SIGNED

DUPLICATE

GO-113 (7900 BKS 11-49)

EXPENDITURE REQUEST

FILE NO. 105-93

REFINERY El Paso

DATE 3/18/ 57

SHOP ORDER NO.

B-409

TITLE OF REQUEST Install Additional Block Valves & Bleeders in Gas Risers for Gas Recovery Wet Oil Furnace.

APPROPRIATION NO.

\$900.00

GRANT

TYPE OF SHOP ORDER

REQN.	DESCRIPTION	CHARGE TO		ESTIMATED COST		
		PLANT-REPR-ALT. OR DISM.	ACCOUNTING ITEM	LABOR	MATERIAL CONTRACTS	TOTAL
1.	Install 2" screwed 600# gate valve in each of 12 gas lines to furnace, F501.			150	420	570
2.	Install drain with 1/2" screwed 600# gate valve in each of 12 gas lines to furnace, F-501.			100	130	230
3.	Engineering			30		30
4.	Contingency			30	40	70
TOTAL OF EXPENDITURES FOR WHICH APPROVAL IS HEREBY REQUESTED				310	590	900
TOTAL EXPENDITURES PREVIOUSLY APPROVED ON THIS SHOP ORDER						
TOTAL OF REQUESTS ON THIS SHOP ORDER, INCLUDING THIS REQUEST				310	590	900

DESCRIPTION AND REASONS:

PRESSENT SITUATION: When operating at reduced feed rates it is necessary to remove burners from service in furnace. Present method entails blinding each burner. There is no valve between the blinding flange & the burner. The globe valves upstream of the blinding flanges in these lines leak - thus when pulling a blind to relight a burner there is a good chance of having a back flash thru the line & out the flange causing injury to the operator.

PROPOSAL: Install a block valve between the flange & the burner thus preventing any flash back thru the flange. Also install a bleeder between the globe valve & the flange to bleed off any gas pressure towards the furnace wall away from the operator.

JUSTIFICATION: This proposed installation is an operating necessity for safe operation. One accident has already occurred with the present installation.

DND

APPROVED:

J. R. Menke

OFFICE MANAGER

296

SUPERVISION OF

Paul Mustain

J. H. Kitchen

CHIEF ENGINEER

MFG. 2328-1 (32M) PRINTED IN U.S.

Chevron BB
013502

113

EXPENDITURE REQUEST

FILE NO. 105- 93

REFINERY EL PASO

DATE 3/18/57

SHOP ORDER NO.

R-409

TYPE OF REQUEST

INSTALL ADDITIONAL BLOCK VALVES & BLEEDERS
ON GAS RISERS FOR GAS RECOVERY HOT OIL FURNACE.

APPROPRIATION NO.

GRANT

TYPE OF SHOP ORDER -

REQN.	DESCRIPTION	CHARGE TO		ESTIMATED COST		
		PLANT-REPR. ALT. OR DISM.	ACCOUNTING ITEM	LABOR	MATERIAL CONTRACTS	TOTAL
1.	INSTALL 2" SCREWED GATE VALVE 600# IN EACH OF 12 GAS LINES TO FURNACE, F501			150	420	570
2.	INSTALL DRAIN WITH 1/2" SCREWED 600# GLOBE VALVE IN EACH OF 12 GAS LINES TO FURNACE, F501			100	130	230
3.	Engineering			30		30
4.	Contingency			30	40	70
TOTAL OF EXPENDITURES FOR WHICH APPROVAL IS HEREBY REQUESTED				310	590	900
TOTAL EXPENDITURES PREVIOUSLY APPROVED ON THIS SHOP ORDER						
TOTAL OF REQUESTS ON THIS SHOP ORDER, INCLUDING THIS REQUEST						

DESCRIPTION AND REASONS:

Present Situation:

When operating at reduced feed rates it is necessary to remove burners from service in furnace. Present method entails blinding each burner. There is no valve between the blinding flange & the burner. The globe valve upstream of the blinding flange is closed - thus when pulling a blind to relight a burner there is a good chance of having a back flash thru the line & out the flange causing injury to the operator.

Proposal: Install a block valve between the flange & the burner thus preventing any flash back thru the flange. Also install a bleeder between the globe valve & the flange to bleed off any gas pressure towards the furnace wall away from the operator.

Justification: This proposed installation is an operating necessity for safe operation. One accident has already occurred with the present installation.

APPROVED:

SUPERVISION OF

OFFICE MANAGER
3/18/57

CHIEF ENGINEER

JST

JED DMS

1. Note
2. - MSR is have
all furnaces
checked to
see which do
not have dbl.
blk. & blind
arrangement.

ALL

ESTIMATE SHEET

INSTALL DRAIN & GATE VALVE
FOR IN GAS LINE TO F501 - GAS REC-1
ITEM TITLE

FILE #105-93
S. O. _____ ITEM _____
SHEET 1 OF _____
DATE 3-18-57
DRWG. NO. _____

REQUESTED BY

MADE BY

CHECKED BY

APPROVED BY

WJR

WEM

DESCRIPTION

UNIT

QUANT.

PRICE

LABOR

MAT'L

TOTAL

2" solid gate stl
600 # F.S. Union bonn.
L-32

in stock

1/2" 600 # stl union bonn
gate solid

1/2" pipe for drain L7
well (saddle) 1/2"

Engineering

Sub Totals

Contingency

Totals

WJR

Expenditure Request - Sid to JEH

~~JEFF~~ DMO

- 1.- Note
- 2.- WJR is have
all furnaces
checked to
see which do
not have dbl.
blk. & blind
arrangement.

all

~~WTR~~, PPM - J.E.H.

Please Transmitt if
you approve.

LAD

WJR 3/1/57
PPM 3/4/57

3/4/57
We have had previous occurrences
similar to this one. Several fires.
The globe valves do not hold very
well either, for some reason.

PPM

RECEIVED

MAR 5 1957

J. E. HAYDEN

MAR 5 1957

D. M. O'NEILL

MEMORANDUM GO-144

TO: J. F. HAYDEN (Attn: D. McNeill) 3-1 1957
 FROM: P. P. MUSTAIN (L.A. Durrford) 1957
 SUBJECT: Alterations to Gas Piping at F-501 Furnace. RECEIVED
 OUR FILE: MAR 1 1957
 YOUR FILE: P. P. MUSTAIN

This morning an accident occurred at the Gas Recovery Hot Oil Furnace (F-501) which, fortunately, was not serious, but which could have cost an employee his sight and or severe burns. It is requested that alterations to the gas lines to F-501 furnace be made during the forthcoming shutdown to prevent a recurrence of this type of accident. The attached sketch shows the present gas piping at the furnace and a suggested alteration.

This morning the men were putting a burner into service. The flange bolts were loosened and the spectacle blind was turned. While the gas jets were being adjusted around the open end of the blind, gas which leaked from the closed valve filled the pipe to the firebox where it ignited. The concussion from the ignition blew dirt and scale back up the pipe, and out the opened flange into the workers eyes.

To prevent this from happening again, it is suggested that a gate valve and a blinder be installed as indicated on the attached sketch. This arrangement will isolate the flange while the blind is being turned. The blinder would be used to vent pressure and should be turned away from the work area.

It is recommended that this or a better alteration to the present piping be made during the April shutdown.

LAD: J
 Encl. Sketch
 CC: PPM
 WTR
 JDC
 LAD

P. P. MUSTAIN

WHEN REPLY IS REQUIRED, FORWARD ORIGINAL AND ONE COPY.

GO-144 (50M-10-53)

GO-24-Long
M E M O R A M

Speak It - Forget It - Write It - Remember

Mr. W. J. RUTH

Date 9/5/57

Attached is the tracing of
Dwg. T-384, in answer to your
TXM 152 of 4/3/57 asking for
2 steel mesh guard around the
steam heater in the Clark
Compressor lube oil room.

Please approve and return.

Signed _____

105-101

REQUEST FOR ADDITION OR ALTERATION

TO EXISTING EQUIPMENT

TXM-152

Date: 4/3/57

TO: Engineering & Maintenance Dept.

Attention: D.M. O'NEILL:

Proposal or Title of Request: CONSTRUCT AND INSTALL A STEEL
MESH ~~SEE~~ GUARD AROUND STEAM HEATER IN
CLARK COMP LUBE OIL ROOM.

Reason (Situation): _____

Justification (Unsafe condition, improved operation, payout, etc.): STEAM
HEATERS IS QUITE LARGE AND IS IN SUCH A
POSITION AS TO CREATE A HAZARD.

Urgency (Desired completion date. No Rush except for unusual circumstances): _____
~~BEFORE~~ BEFORE NEXT WINTER (SAY) SEPT 1 1957

Requested by: R.A. Janda

Received by: [Signature]
APR 23 1957

Approved by: [Signature]

Date: _____
Estimated Cost: \$ 200

Est. Completion Date: 9/1/57

3/13/57

Well

105-93

cost of welding (per CDH) is the
same for SCD valves &
Flanged valve — the only
difference in cost $\therefore$ is the
cost of SCD valve vs. flanged —
 $\therefore$ use SCD —