

8037.T.0811A
CVC FWKO TANK 1500 BBL
DIMENSION : 21'-6" DIA. X 24'-0" H.
CAPACITY : 1500 BBL
TRIM : TE-T-11-B1

8037.T.0812A & B
CVC & SOP WASH TANKS 1000 BBL
DIMENSION : 21'-6" DIA. X 16'-0" H.
CAPACITY : 1000 BBL
TRIM : TE-T-12-B1

8037.T.0813A & B
CVC SHIPPING TANKS 500 BBL
DIMENSION : 21'-6" DIA. X 8'-0" H.
CAPACITY : 500 BBL
TRIM : TE-T-13-B1

8037.T.0816
FOULED WATER TANK (1000 BBL)
DIMENSIONS : 21'-6" DIA. X 16'-0" HIGH.

8037.V.0803A & B
FOULED GAS BOOT
DIM. : 36' O.D. X 40'-0" H

8037.W.0804
LP VENT STACK
SIZE : 12" DIA. X 50 FT. H

8037.P.0801C & D
SHIPPING PUMP
DUTY : 90 GPM/ 30 BHP (RATED)

8037.P.0816A, B & C
FOULED WATER INJECTION PUMPS
CPI CONFIRM

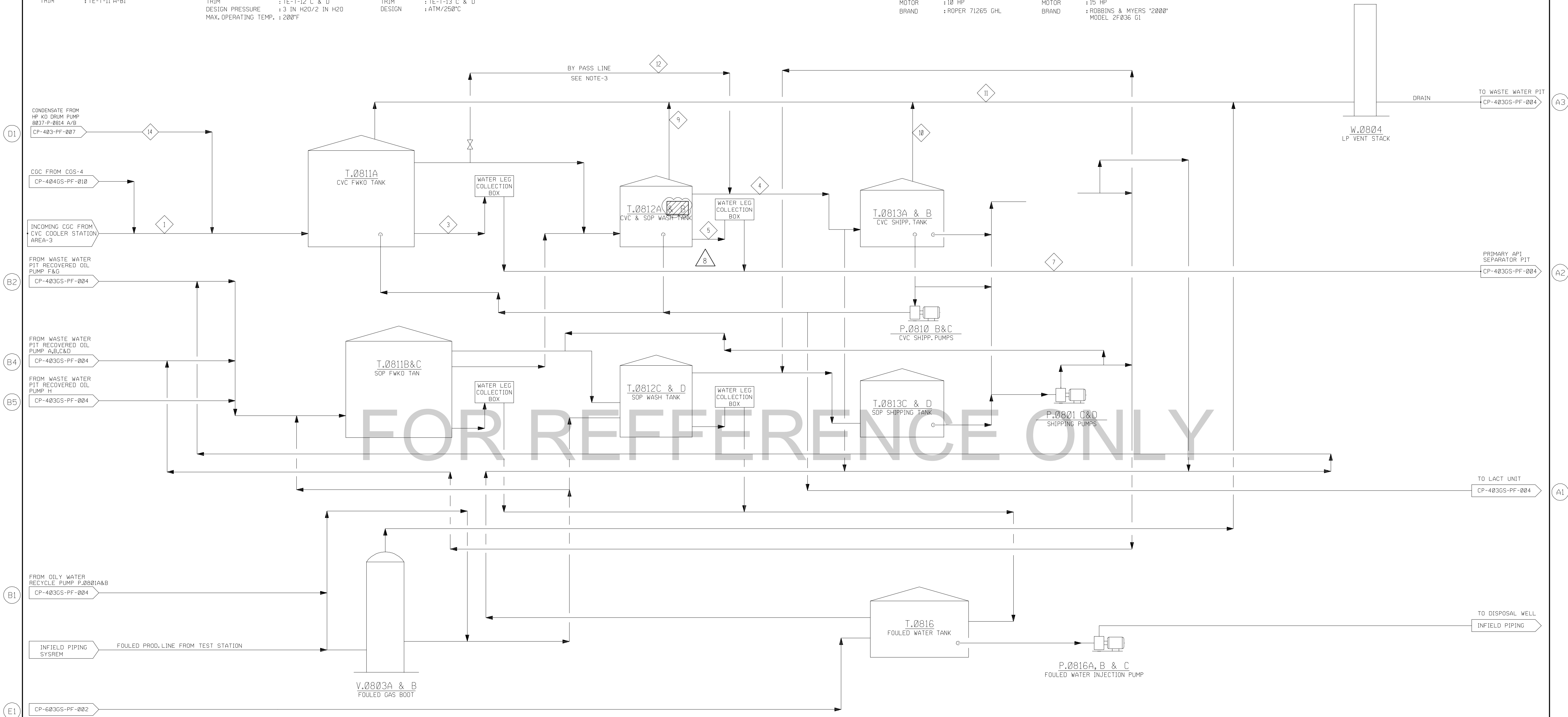
8037.T.0811B & C
SOP FWKO TANK (1500 BBL)
DIMENSIONS : 21'-6" DIA. X 24'-0" H.
TRIM : TE-T-11 A-B1

8037.T.0812C & D
SOP WASH TANKS (1000 BBL)
DIMENSIONS : 21'-6" DIA. X 16'-0" H.
TRIM : TE-T-12 C & D
DESIGN PRESSURE : 3 IN H2O/2 IN H2O
MAX. OPERATING TEMP. : 200°F

8037.T.0813C & D
SOP SHIPPING TANKS 500 BBL
DIMENSIONS : 21'-6" DIA. X 8'-0" H.
TRIM : TE-T-13 C & D
DESIGN : ATM/250°C

8037.P.0810B
CVC SHIPPING PUMP
CAPACITY : 125 GPM/80 PSI
MOTOR : 10 HP
BRAND : ROPER 71265 GHL

8037.P.0810C
CVC SHIPPING PUMP
CAPACITY : 125 GPM/80 PSI
MOTOR : 15 HP
BRAND : ROBBINS & MYERS "2000"
MODEL 2F036 G1



| STREAM NUMBER | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|-----------------------------------------|----------------------------|--------------------|----------------------|--------------------|----------------------|------------------|---------------------------------------|-------------------------|-------------------------|-----------------------------|------------------------|--------------------------------------|--------------------------------|-------------------------------|
| DESCRIPTION | INC.FLUID FROM CVC STATION | OIL FROM FWKO TANK | WATER FROM FWKO TANK | OIL FROM WASH TANK | WATER FROM WASH TANK | OIL FOR SHIPPING | WATER FROM FWKO & WASH TANK WATER LEG | VENT GAS FROM FWKO TANK | VENT GAS FROM WASH TANK | VENT GAS FROM SHIPPING TANK | VENT GAS TO VENT STACK | OIL FROM FWKO TANK THRU BY PASS LINE | OIL RETURN TO FWKO & WASH TANK | CONDENSATE FROM FLARE KO DRUM |
| MAXIMUM FLOW (NOTE-1) BPD * | 68,570 | 7,610 | 60,952 | 6,857 | 760 | 6,857 | 61,712 | - | - | - | - | 6,857 | (NOTE-2) | 1,200 (NOTE 6) |
| LB/HR | - | - | - | - | - | - | 42,800 | 40,000 | 30,400 | 113,200 | - | - | - | - |
| GPM * | 2,000 | 222 | 1,778 | 200 | 22 | 200 | 1,800 | - | - | - | - | 200 | (NOTE-2) | - |
| SCFM | - | - | - | - | - | - | - | - | 9,100 | 16,340 | - | - | - | - |
| DESIGN FLOW (BPD) | 55,000 (NOTE-1) | 6,110 | 48,890 | 5,500 | 610 | 5,500 | 49,500 | - | - | - | - | 5,500 | (NOTE-2) | 1,200 |
| SPECIFIC GRAVITY (60/60°F) | 0.980 | 0.829 | 0.999 | 0.810 | 0.999 | 0.810 | 0.999 | 0.6 | 0.6 | 0.6 | 0.6 | 0.810 | 0.810 | 0.995 |
| TEMPERATURE : OPERATING RANGE, °F | 160°F | 160°F | 160°F | 160°F | 160°F | 160°F | 160°F | 160°F | 160°F | 160°F | 160°F | 160°F | 160°F | 106 |
| PRESSURE : OPERATING | 30 | 3 IN. W.C. | 24 FT. W.C. | 3 IN. W.C. | 16 FT. W.C. | 00 PSIG | 16-24 FT. W.C. | 3 IN. W.C. | 3 IN. W.C. | 3 IN. W.C. | 3 IN. W.C. | 2 IN. W.C. | 00 PSIG | 90 |
| VISCOSITY : @ 60 °F, CP | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 0.0062 (NOTE-5) | 0.0062 | 0.0062 | 0.0062 | 1.12 | 1.12 | 1.12 | - |
| VISCOSITY : @ OPERATING TEMPERATURE, CP | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.0075 (NOTE-5) | 0.0075 | 0.0075 | 0.0075 | 0.35 | 0.35 | 0.35 | 0.635 |
| HYDROCARBON CONTENT, PPM <DR % VOL.> | 10 % | 90% | < 10 PPM | >99% | < 10 PPM | >99% | < 10 PPM | > 88.5% | > 99.9% | > 93.7% | > 99% | < 99% | < 99% | - |
| WATER CONTENT, VOL. % | 90% | 10% | >99.9% | <1% | >99.9% | <1% | > 99.9% | < 11.5% | < 5.5% | < 0.1% | < 6.3% | < 1% | < 1% | - |

NOTE

- DESIGN BASIS : 55,000 BFPD
- FLOW INTERMITTENT AND SHORT DURATION RETURN LINE USED WHEN WATER CUT AT LINE MORE THAN 1 %
- BY PASS LINE USED WHEN WATER CUT AT LINE LESS THAN 1 %
- BASIS : INSTANTANEOUS SURGE FROM EACH CVC STATIONS OF 400 GPM
400GPM X 5 STATIONS = 2000 GPM = 68,570 BFPD
- VISCOSITY IS ASSUMED AS SAME AS HEXANE
- INTERMITTENT FLOW DESIGN AND MAXIMUM FLOW BASED ON 1.2 OF PUMP 8037-P-BPD CAPACITY : 1.2 x 1000 BPD.

| | | | | | | | | | | | | | | |
|------|----------|----------------------------------------------------------------------------------|-------|------|-------------|---------------|-----------|----------|--------------------|---|---|---|---|---|
| 8 | 25-03-22 | AS BUILT MOC #1408/1815 (BLANKED-MOC INACTIVE EQUIPMENT IN PLANT - OPERATOR USE) | RKP | PWW | | | NOV | RIS | | | | | | |
| 7 | 22-05-19 | AS BUILT MOC #421596 CCS-3 PIT ISOLATION & PIT IMPROVEMENT | RPRN | AAW | | | | ABI | | | | | | |
| 6 | 26-12-18 | AS BUILT (PSI V&V AS PER MOC #481540) | SM | AM | | | | TZSK | | | | | | |
| 5 | 02-03-17 | AS BUILT FOR PSM-PSI REMEDIATION PROJECT JOB No. #2445 | AFZ | ADR | RGS | MWS | RGS | | | | | | | |
| 4 | 03-03-04 | UP-DATE TO ASBUILT (JOB #4502) | ALZ | JT | KRT | TDH | KRT | | | | | | | |
| 3A | 08-01-07 | UPDATED FOR AIR EMISSION HANDLING PROJECT (WA-1561) | RUJI | - | - | - | - | - | - | - | - | - | - | - |
| C | 16-10-02 | SOP & FOULED FACILITIES UP-DATE | F10P0 | - | - | - | - | - | - | - | - | - | - | - |
| REV. | DATE | DESCRIPTION | BY | CHKD | DESIGN ENGR | DESIGN T. LDR | PROJ ENGR | PSI COOR | REFERENCE DRAWINGS | | | | | |

| | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|-----|----------------|
| | | DRAWN | ADR | 12-3-92 |
| | | CHECKED | JAS | 27/07/92 |
| | | DESIGN ENGR. | VM | 24/07/92 |
| | | DESIGN TEAM LEADER | | |
| | | PROJECT ENGR. | | |
| | | OPR'G DEPT. | ACC | FOR MZ 24/7/92 |
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DRAWING TITLE
PROCESS FLOW DIAGRAM
CVC, SOP & FOULED FACILITIES
CENTRAL GATHERING STATION
DURI AREA-3

| | | |
|-----------------|--------------------------------------|--------------------------------------------------|
| JOB NO. | D-009/273 | CAD |
| SCALE : | ONE | DRAWN WITH CAD NEVER CHANGE THIS DRAWING BY HAND |
| SIZE : | A0 | |
| DRAWING NO. | CP-403GS-PF-002-8 | |
| NEW DRAWING NO. | DURI-OTPF03GS000-PRO-PFD-IBU-0004-00 | |