



**FACILITY PERMIT TO OPERATE
TESORO REFINING AND MARKETING CO.**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE
The operator shall comply with the terms and conditions set forth below:

| Equipment | ID No. | Connected To | RECLAIM Source Type/ Monitoring Unit | Emissions and Requirements | Conditions |
|--|---------------------|--------------|--------------------------------------|----------------------------|--|
| PROCESS 2: COKING AND RESIDUAL CONDITIONING | | | | | P13.1 |
| System 6: DCU BLOWDOWN RECOVERY SYSTEM | | | | | S11.3, S13.4, S15.2, S15.3, S15.11, S31.4 |
| <u>POT, STEAM CONDENSATE, V-X103, HEIGHT: 5 FT; DIAMETER: 2 FT</u> A/N: 520770 | <u>DXXXX</u> | | | | |
| ACCUMULATOR, BLOWDOWN, FC-127 (V-923), LENGTH: 20 FT; DIAMETER:10 FT A/N: 520770/ 472871 | D53 | | | | |
| VESSEL, BLOWDOWN CONTACTOR, FC-128 (V-924), HEIGHT: 40 FT; DIAMETER:16 FT A/N: 520770/ 472871 | D1152 | | | | |
| KNOCK OUT POT, DISCHARGE, V-1400, HEIGHT: 7 FT 8 IN; DIAMETER:3 FT A/N: 520770/ 472871 | D63 | | | | |
| DRUM, FLARE SEAL, V-1613, LENGTH: 19 FT 6 IN; DIAMETER: 6 FT A/N: 520770/ 472871 | D65 | | | | |
| COMPRESSOR, C-137, BLOWDOWN, ALSO SERVES AS FLARE GAS RECOVERY COMPRESSOR AS NEEDED A/N: 520770/ 472871 | D68 | | | | H23.4 |
| DRUM, V-1613, DCU FLARE SEAL, HEIGHT: 25 FT ; DIAMETER: 5 FT A/N: 520770/ 472871 | D1350 | | | | |



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| | | | | | |
|--|-----------|--|--|---|-------|
| FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 520770/ 472871 | D136 1 | | | HAP: (10) [RULE 63 SUBPART CC# 5A, 06/23/03] | H23.5 |
|--|-----------|--|--|---|-------|

RECOMMENDATIONS

A permit to construct is recommended subject to the following conditions:

PROCESS CONDITIONS

P13.1 All devices under this process are subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|------------------|--------------|
| Benzene | 40CFR61, SUBPART | FF |

[40CFR 61 Subpart FF, 11-12-2002]

[Processes subject to this condition : 1, 2, 3, 4, 5, 6, 8, 9, 11, 12, 15]

SYSTEM CONDITIONS

S11.3 The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the AQMD Certified Final Environmental Impact Report dated 4-10-2009 for this facility.

This condition shall only apply to equipment listed in Section H of this facility permit.

[CA PRC CEQA, 11-23-1970]

[Systems subject to this condition : : **Process 2, System 6**, Process 8, System 1, Process 17, System 4]

S13.4 All devices under this system are subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| VOC | District Rule | 1123 |



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[RULE 1123, 12-7-1990]

[Systems subject to this condition : Process 1, System 1 , 2; Process 2, System 1 , 3 , 4 , 6 , 7 , 10; Process 3, System 1 , 2 , 4 , 5; Process 4, System 1 , 3 , 5 , 7 , 9; Process 5, System 1 , 3 , 5; Process 6, System 1 , 3; Process 8, System 1; Process 9, System 1 , 2 , 3 , 4; Process 12, System 5 , 8; Process 19, System 3; Process 21, System 1 , 3]

S15.2 The vent gases from all affected devices of this process/system shall be vented as follows:

This process/system shall not be operated unless the blowdown flare system is in full use and has a valid permit to receive vent gases from this system.

All emergency vent gases shall be directed to the refinery flares (process 21, system1) or flare gas recovery system (process 21, system 4) which may also includes DCU Blowdown Compressor C-137 (device D68) except Devices IDs D898, D20, D910, D1268, D1269, D1280, D93, D94, D96, D1283, D1284, D1288, D1292, D219, D226, D1212, D275, D1256, D375, D928, D1267 & D916 that vent to the atmosphere.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Systems subject to this condition : Process 1, System 1 , 2; Process 2, System 1 , 3 , 4 , 6 , 10; Process 3, System 1 , 2 , 5; Process 4, System 1 , 3 , 5 , 7 , 9; Process 5, System 1 , 3 , 5; Process 6, System 1 , 3; Process 8, System 1; Process 9, System 1 , 2 , 3; Process 12, System 8; Process 19, System 3; Process 21, System 4]

S15.3 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be directed to a vapor recovery system (process 21, system3) consisting of compressors, D641, D642, D643, and/or D644, which can be operated independently to maintain a system vacuum that efficiently collects all vented gases or the flare gas recovery system(process 21, system 4). This process/system shall not be operated unless the vapor recovery system (process 21, system 3) or flare gas recovery system (process 21, system 4) is in full use and has a valid permit to receive vent gases from this system.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Systems subject to this condition : Process 1, System 2; Process 2, System 3 , 4 , 6; Process 3, System 2 , 4; Process 4, System 1 , 3 , 5 , 7; Process 5, System 1 , 3 , 5; Process 6, System 1; Process 8, System 1; Process 9, System 2; Process 21, System 4]



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The operator shall comply with the terms and conditions set forth below:

S15.11 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases under normal operating conditions shall be directed to the fuel gas treating system(s) (Process 12, System 8 or Process 4, System 9).

This process/system shall not be operated unless the fuel gas treating system(s) is in full use and has a valid permit to receive vent gases from this system.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Systems subject to this condition: Process 2, System 6; Process 21, System 3, 4]

S31.4 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 520770:

All sampling connections shall be closed-purge, closed loop, or closed-vent systems.

All new valves in VOC service shall be leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where valve failure could pose safety hazard (e.g., drain valves with valve stems in horizontal position), retrofits/special applications with space limitations, and valves not commercially available.

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellows or equivalent approved in writing by the District prior to installation.

All new components in VOC service as defined by Rule 1173, except valves and flanges shall be inspected quarterly using EPA Reference Method 21. All new valves and flanges in VOC service except those specifically exempted by Rule 1173 shall be inspected monthly using EPA Method 21. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

The following leaks shall be repaired within 7 calendar days -- all light liquid/gas/vapor components leaking at a rate of 500 to 10,000 ppm, heavy liquid components leaking at a rate of 100 to 500 ppm and greater than 3 drops/minute, unless otherwise extended as allowed under Rule 1173.

The following leaks shall be repaired within 2 calendar days -- any leak between 10,000 to 25,000 ppm, any atmospheric PRD leaking at a rate of 200 to 25,000 ppm, unless otherwise extended as allowed under Rule 1173.



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The following leaks shall be repaired within 1 calendar day -- any leak greater than 25,000 ppm, heavy liquid leak greater than 500 ppm, or light liquid leak greater than 3 drops per minute.

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv for two consecutive months, then the operator may revert to a quarterly inspection program with the approval of the Executive Officer. This condition shall not apply to leakless valves.

The operator shall revert from quarterly to monthly inspection program if less than 98.0 percent of the new valves and the new flange population inspected are found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv. This condition shall not apply to leakless valves.

The operator shall keep records of the monthly inspection (quarterly where applicable), subsequent repair, and reinspection, in a manner approved by the District.

The operator shall provide to the District, prior to initial startup, a list of all non-leakless type valves that were installed. The list shall include the tag numbers for the valves and reasons why leakless valves were not used. The operator shall not startup the equipment prior to the Districts approval for the use of all non-leakless valves

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The operator shall also submit a complete, as built, piping and instrumentation diagram(s) and copies of requisition data sheets or field inspection surveys for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Systems subject to this condition: Process 2, System 6]

DEVICE CONDITIONS

H. Applicable Rules

H23.5 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|---------------|--------------|
| VOC | District Rule | 1173 |



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[RULE 1173, 5-13-1994; RULE 1173, 12-6-2002]
[Devices subject to this condition : D1357, D1361, D1419, D1454]

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|------------------|--------------|
| VOC | 40CFR60, SUBPART | GGG |

[40CFR 60 Subpart GGG, 6-7-1985]

[Devices subject to this condition : D68, D377, D901, D918, D1338, D1600, D1601, D1602, D1603, D1604]

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