

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### 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
<b>Process 3: STORAGE TANKS</b>					
<b>System 2: INTERNAL FLOATING ROOF TANKS</b>					S13.2
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 506, 79183 BBL; DIAMETER: 117 FT 3 IN; HEIGHT: 41 FT 6 IN WITH A/N: 542999  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY A, RIM MOUNTED, WIPER TYPE	D175				B22.5, B59.4, C1.17, C6.4, H23.11, H23.13

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
  - (3) Denotes RECLAIM concentration limit
  - (5) (5A) (5B) Denotes command and control emission limit
  - (7) Denotes NSR applicability limit
  - (9) See App B for Emission Limits
  - (2) (2A) (2B) Denotes RECLAIM emission rate
  - (4) Denotes BACT emission limit
  - (6) Denotes air toxic control rule limit
  - (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
  - (10) See section J for NESHAP/MACT requirements
- \*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 511, WITH A 25 H.P. MIXER, 79008 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 5 IN WITH A/N: 543000  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND S RADAR GAUGE ATLG SYSTEM  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, MECHANICAL SHOE  SECONDARY SEAL, WIPER TYPE	D176				B22.5, C1.17, C6.1, H23.13

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 513, 70692 BBL; DIAMETER: 117 FT 4 IN; HEIGHT: 41 FT 9 IN WITH A/N: 531617 Permit to Construct Issued: 10/26/12  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D177				B22.5, B59.4, C1.51, C6.1, H23.13, K67.8

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 514, 69571 BBL; DIAMETER: 117 FT 4 IN; HEIGHT: 41 FT 6 IN WITH A/N: 531618 Permit to Construct Issued: 10/26/12  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D178				B22.5, B59.4, C1.51, C6.1, H23.13, K67.8

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 570, WITH A 20 H.P. MIXER, 80000 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 5 IN WITH A/N: 543011  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, MECHANICAL SHOE  SECONDARY SEAL, RIM MOUNTED, MULTIPLE WIPER  GUIDEPOLE, GASKETED COVER, WITH FLOAT, SLEEVE, WIPER, SLOTTED	D183				B22.5, B59.4, C1.41, C6.4, H23.11, H23.13, K67.8

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 577, 80488 BBL; DIAMETER: 117 FT 5 IN; HEIGHT: 41 FT 10 IN WITH A/N: 531621 Permit to Construct Issued: 10/26/12  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, MECHANICAL SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D184				B22.5, B59.4, C1.50, C6.1, H23.13, K67.8

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
  - (3) Denotes RECLAIM concentration limit
  - (5) (5A) (5B) Denotes command and control emission limit
  - (7) Denotes NSR applicability limit
  - (9) See App B for Emission Limits
  - (2) (2A) (2B) Denotes RECLAIM emission rate
  - (4) Denotes BACT emission limit
  - (6) Denotes air toxic control rule limit
  - (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
  - (10) See section J for NESHAP/MACT requirements
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<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 502, 78963 BBL; DIAMETER: 117 FT 4 IN; HEIGHT: 41 FT 5 IN WITH A/N: 531609 Permit to Construct Issued: 10/26/12  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D356				B22.5, B59.4, C1.51, C6.2, H23.13, K67.8

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 586, 104046 BBL; DIAMETER: 144 FT 2 IN; HEIGHT: 40 FT 1 IN WITH A/N: 531622 Permit to Construct Issued: 10/26/12  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D357				B22.6, B59.5, C1.51, C6.2, H23.13, K67.8

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 508, 80000 BBL; DIAMETER: 117 FT 3 IN; HEIGHT: 41 FT 10 IN WITH A/N: 531613 Permit to Construct Issued: 10/26/12  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, METALLIC SHOE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D186				B22.5, B59.4, C1.51, C6.1, H23.13, K67.8

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, TANK 512, 80000 BBL; DIAMETER: 117 FT 3 IN; HEIGHT: 41 FT 9 IN WITH A/N: 531616 Permit to Construct Issued: 10/26/12  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D187				B22.5, B59.4, C1.51, C6.1, H23.13, K67.8

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 726, 115603 BBL; DIAMETER: 144 FT 1 IN; HEIGHT: 40 FT 1 IN WITH A/N: 543017  COLUMN, WELL, PIPE COLUMN, WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTE  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY A, RIM MOUNTED, WIPER TYPE	D190				B22.5, B59.4, C1.17, C6.4, H23.13

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 501, 79163 BBL; DIAMETER: 117 FT 4 IN; HEIGHT: 41 FT 6 IN WITH A/N: 531608 Permit to Construct Issued: 10/26/12  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D194				B22.5, B59.4, C1.51, C6.1, H23.13, K67.8

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 503, 78963 BBL; DIAMETER: 117 FT ; HEIGHT: 41 FT 5 IN WITH A/N: 531610 Permit to Construct Issued: 10/26/12  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D195				B22.5, B59.4, C1.51, C6.2, H23.13, K67.8

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 504, 79109 BBL; DIAMETER: 117 FT 3 IN; HEIGHT: 41 FT 5 IN WITH A/N: 531611 Permit to Construct Issued: 10/26/12  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D196				B22.5, B59.4, C1.51, C6.2, H23.13, K67.8

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, NO. 515, 78969 BBL; DIAMETER: 117 FT 4 IN; HEIGHT: 41 FT 6 IN WITH A/N: 531619 Permit to Construct Issued: 10/26/12  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D197				B22.5, B59.4, C1.51, C6.2, H23.13, K67.8

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (3) Denotes RECLAIM concentration limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (4) Denotes BACT emission limit  
 (6) Denotes air toxic control rule limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 725, 115666 BBL; DIAMETER: 144 FT 3 IN; HEIGHT: 40 FT 2 IN WITH A/N: 543016  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY A, RIM MOUNTED, WIPER TYPE	D750				B22.5, B59.4, C1.17, C6.4, H23.13

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, TANK 562, WITH A 20 H.P. MIXER, 76534 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 8 IN WITH A/N: 543003  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY A, RIM MOUNTED, WIPER TYPE	D146				B22.5, B59.4, C1.17, C6.4, H23.11, H23.13

- (1) (1A) (1B) Denotes RECLAIM emission factor
  - (3) Denotes RECLAIM concentration limit
  - (5) (5A) (5B) Denotes command and control emission limit
  - (7) Denotes NSR applicability limit
  - (9) See App B for Emission Limits
  - (2) (2A) (2B) Denotes RECLAIM emission rate
  - (4) Denotes BACT emission limit
  - (6) Denotes air toxic control rule limit
  - (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
  - (10) See section J for NESHAP/MACT requirements
- \*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### 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
<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, NO. 563, 76534 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 10 IN WITH AN: <i>543004</i>  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY A, RIM MOUNTED, WIPER TYPE	D171				B22.5, B59.4, C1.17, C6.4, H23.11, H23.13

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### 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
<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, TANK 567, 79295 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 10 IN WITH A/N: 543008  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY A, RIM MOUNTED, WIPER TYPE	D147				B22.5, B59.4, C1.17, C6.4, H23.11, H23.13, K67.8

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (3) Denotes RECLAIM concentration limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (4) Denotes BACT emission limit  
 (6) Denotes air toxic control rule limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### 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
<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, INTERNAL FLOATING ROOF, TANK 571, 79160 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 10 IN WITH A/N: 543012  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM  FLOATING ROOF, PAN, RIVETED SHELL  PRIMARY SEAL, CATEGORY A, MECHANICAL SHOE  SECONDARY SEAL, CATEGORY A, RIM MOUNTED, MULTIPLE WIPER	D149				B22.13, B59.4, C1.41, C6.4, H23.11, H23.13, K67.8
<b>System 5: DOMED EXTERNAL FLOATING ROOF TANKS</b>					S13.2

\* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### 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
<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, TK. 507, 78932 BBL; DIAMETER: 117 FT 2 IN; HEIGHT: 41 FT 10 IN WITH A/N: 531612 Permit to Construct Issued: 10/26/12  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON, RIVETED SHELL  PRIMARY SEAL, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D198				B22.5, B59.4, C1.52, C6.4, H23.13, K67.8

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (3) Denotes RECLAIM concentration limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (4) Denotes BACT emission limit  
 (6) Denotes air toxic control rule limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### 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
<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, TK 509, 78735 BBL; DIAMETER: 117 FT 1 IN; HEIGHT: 41 FT 9 IN WITH A/N: 531614 Permit to Construct Issued: 10/26/12  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON, RIVETED SHELL  PRIMARY SEAL, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D199				B22.5, B59.4, C1.52, C6.4, H23.13, K67.8

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
  - (3) Denotes RECLAIM concentration limit
  - (5) (5A) (5B) Denotes command and control emission limit
  - (7) Denotes NSR applicability limit
  - (9) See App B for Emission Limits
  - (2) (2A) (2B) Denotes RECLAIM emission rate
  - (4) Denotes BACT emission limit
  - (6) Denotes air toxic control rule limit
  - (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
  - (10) See section J for NESHAP/MACT requirements
- \*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### 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
<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, TK 510, 78879 BBL; DIAMETER: 117 FT 3 IN; HEIGHT: 41 FT 8 IN WITH A/N: 531615 Permit to Construct Issued: 10/26/12  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON, RIVETED SHELL  PRIMARY SEAL, METALLIC SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D200				B22.5, B59.4, C1.52, C6.4, H23.13, K67.8

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (3) Denotes RECLAIM concentration limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (4) Denotes BACT emission limit  
 (6) Denotes air toxic control rule limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### 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
<b>Process 3: STORAGE TANKS</b>					
STORAGE TANK, DOMED EXTERNAL FLOATING ROOF, TK 576, WITH A 30 H.P. MIXER, 124539 BBL; DIAMETER: 150 FT ; HEIGHT: 40 FT WITH A/N: 531620 Permit to Construct Issued: 10/26/12  DOME COVER, GEODESIC  FLOATING ROOF, PONTOON, RIVETED SHELL  PRIMARY SEAL, MECHANICAL SHOE  SECONDARY SEAL, WIPER TYPE  COLUMN, WELL, PIPE COLUMN WITH FLEXIBLE FABRIC SLEEVE SEAL AND A RADAR GAUGE ATLG SYSTEM	D201				B22.5, B59.4, C1.52, C6.4, H23.13, K67.8
<b>Process 6: WATER TREATMENT SYSTEM</b>					
<b>System 3: GROUNDWATER BIOREACTOR TREATMENT SYSTEM</b>					
REACTOR, BIOLOGICAL, WASTE WATER, 70,000 GALLON CAPACITY, FIBER GLASS PANEL FIXED ROOF COVER WITH PRV VALVE, WIDTH: 24 FT ; HEIGHT: 11 FT ; LENGTH: 42 FT A/N: 504107 Permit to Construct Issued: 12/22/10	D907	C915			S13.4  D29.1, E193.3, K40.1

- \* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### 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
<b>Process 6: WATER TREATMENT SYSTEM</b>					
REACTOR, BIOLOGICAL, WASTE WATER, 70,000 GALLON CAPACITY, FIBERGLASS PANEL FIXED ROOF COVER WITH PRV VALVE, WIDTH: 24 FT ; HEIGHT: 11 FT ; LENGTH: 42 FT A/N: 504107 Permit to Construct Issued: 12/22/10	D908	C915			D29.1, E193.3, K40.1
BLOWER, THREE(3), AERATION, 350 CFM, MAXIMUM 2 IN OPERATION WITH ONE SPARE. A/N: 504107 Permit to Construct Issued: 12/22/10	D909				E193.3
CLARIFIER, FOUR(4), COVERED, WIDTH: 12 FT ; LENGTH: 12 FT A/N: 504107 Permit to Construct Issued: 12/22/10	D910				
TANK, SURGE, (BIOREACTOR SURGE TANK) EFFLUENT EQUALIZING, 1400 GALS; DIAMETER: 7 FT 2 IN; HEIGHT: 6 FT 4.25 IN A/N: 504107 Permit to Construct Issued: 12/22/10	D911				
PUMP, BIOREACTOR FEED, 3HP A/N: 504107 Permit to Construct Issued: 12/22/10	D912				
PUMP, EFFLUENT A/N: 504107 Permit to Construct Issued: 12/22/10	D913				
PUMP, SLUDGE DEWATERING, 2 TOTAL A/N: 504107 Permit to Construct Issued: 12/22/10	D914				

- \* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### 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
<b>Process 6: WATER TREATMENT SYSTEM</b>					
CARBON ADSORBER, TOTAL OF TWO CONNECTED IN SERIES, VENT SCRUB, MODEL VSC-3000, 3000 LBS A/N: 504107 Permit to Construct Issued: 12/22/10	C915	D907 D908			D90.3, D94.1, E128.1, E153.3, E440.1
BLOWER, 1000 CFM, VENTING 2 BIOREACTORS A/N: 504107 Permit to Construct Issued: 12/22/10	D916				E193.3
<b>Process 7: CHEMICAL BULK LOADING</b>					
<b>System 11: DENATURED ETHANOL BULK LOADING RACK</b>					
BULK MATERIAL LOADING STATION, THREE LOADING LANES WITH A/N: 486152 Permit to Construct Issued: 12/20/12  PUMP, LOADING, 3 TOTAL, EACH EQUIPPED WITH A MECHANICAL SEAL, 250 H.P.  LOADING ARM, BOTTOM, TANK TRUCK, DENATURED ETHANOL, 9 TOTAL; DIAMETER: 4 IN  VAPOR RETURN LINE, 6 TOTAL; DIAMETER: 4 IN	D884	C887		VOC: 0.02 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT, 12-6-2002]; VOC: 0.08 LBS/1000 GAL (5) [RULE 462, 5-14-1999]	C1.53, C1.54, E71.7, K67.3, K67.7
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 486152 Permit to Construct Issued: 12/20/12	D890				H23.5

- \* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (3) Denotes RECLAIM concentration limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate  
 (4) Denotes BACT emission limit  
 (6) Denotes air toxic control rule limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### 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
<b>Process 7: CHEMICAL BULK LOADING</b>					
BLOWER, VAPOR, 4150 CFM					
<b>Process 8: AIR POLLUTION CONTROL SYSTEM</b>					
<b>System 6: SOIL VAPOR EXTRACTION AND TREATMENT SYSTEM</b>					
					S13.4
OXIDIZER, REGENERATIVE THERMAL OXIDIZER, WITH AN INTEGRAL HEAT EXCHANGER, NATURAL GAS, EXHAUST STACK 30 FT., NO RAIN CAP, 1.6 MMBTU/HR A/N: 464772 Permit to Construct Issued: 12/22/10	C939	D940 D941	NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF (1) ; PM: 0.1 GRAINS/SCF (5) [RULE 404, 2-7-1986; RULE 409, 8-7-1981]; SOX: 0.506 LBS/MMSCF PROCESS GAS (1) ; SOX: 0.83 LBS/MMSCF NATURAL GAS (1) ; VOC: 25 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]	A229.7, B163.2, C1.49, C8.5, D90.7, D90.8, E71.10, E71.11, E193.7, E193.8, E193.9, E193.11, E193.12
BLOWER, EXTRACTION, 3 BLOWERS (ONE AS SPARE) RATED AT 3000 SCFM EACH A/N: 464772 Permit to Construct Issued: 12/22/10	D940	C939			E336.5
VAPOR EXTRACTION WELL, MULTIPLE WELLS A/N: 464772 Permit to Construct Issued: 12/22/10	D941	C939			E336.5

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (3) Denotes RECLAIM concentration limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (4) Denotes BACT emission limit  
 (6) Denotes air toxic control rule limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

**FACILITY PERMIT TO OPERATE  
EQUILON ENTER. LLC, SHELL OIL PROD. US**

**SECTION H: DEVICE ID INDEX**

**The following sub-section provides an index  
to the devices that make up the facility  
description sorted by device ID.**

**FACILITY PERMIT TO OPERATE  
 EQUILON ENTER. LLC, SHELL OIL PROD. US**

**SECTION H: DEVICE ID INDEX**

<b>Device Index For Section H</b>			
<b>Device ID</b>	<b>Section H Page No.</b>	<b>Process</b>	<b>System</b>
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D147	19	3	2
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D171	18	3	2
D175	1	3	2
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D190	11	3	2
D194	12	3	2
D195	13	3	2
D196	14	3	2
D197	15	3	2
D198	21	3	5
D199	22	3	5
D200	23	3	5
D201	24	3	5
D356	7	3	2
D357	8	3	2
D750	16	3	2
D884	26	7	11
C887	28	7	11
D890	26	7	11
D907	24	6	3
D908	25	6	3
D909	25	6	3
D910	25	6	3
D911	25	6	3
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**FACILITY PERMIT TO OPERATE  
EQUILON ENTER. LLC, SHELL OIL PROD. US**

**SECTION H: DEVICE ID INDEX**

<b>Device Index For Section H</b>			
<b>Device ID</b>	<b>Section H Page No.</b>	<b>Process</b>	<b>System</b>
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C915	26	6	3
D916	26	6	3
C939	28	8	6
D940	28	8	6
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## **FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

#### **FACILITY CONDITIONS**

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 401, 3-2-1984; RULE 401, 11-9-2001]

F16.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Records of the monthly (or quarterly where applicable) and subsequent repair and reinspection of VOC fugitive components subject to Rule 1173.

[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009]

F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

40CFR80

Title 13, California Code of Regulations

[40CFR 80, 7-1-1999; CCR Title 13, 9-24-1999]

F60.1 The emission limits identified in Section D and H of the permit shall be defined as emissions discharged to the atmosphere from the originating equipment.

#### **SYSTEM CONDITIONS**

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

S13.1 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	462
HAPs	40CFR63, SUBPART	EEEE

[RULE 462, 5-14-1999; 40CFR 63 Subpart EEEE, 7-28-2006]

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

S13.2 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463
VOC	District Rule	1149
VOC	District Rule	1178

[RULE 1149, 7-14-1995; RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 463, 5-6-2005]

[Systems subject to this condition : Process 3, System 1 , 2 , 3 , 5]

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

Contaminant	Rule	Rule/Subpart
HAPs	40CFR63, SUBPART	GGGG

[40CFR 63 Subpart GGGGG, 11-29-2006]

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

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

S13.6 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	XX
VOC	40CFR63, SUBPART	R
VOC	40CFR63, SUBPART	462

**[RULE 462, 5-14-1999; 40CFR 60 Subpart XX, 12-19-2003; 40CFR 63 Subpart R, 4-6-2006]**

[Systems subject to this condition : Process 7, System 11]

S13.7 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176

**[RULE 1176, 5-13-1994]**

[Systems subject to this condition : Process 2, System 5; Process 6, System 2]

S31.1 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 379029 and 486152:

## **FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

All fugitive components in VOC service shall be inspected monthly using EPA reference Method 21. The operator may revert to a quarterly inspection upon District approval, after two consecutive months of inspections in which only two percent or less of the fugitive components are detected to leak over 500 ppm above background.

All valves shall be bellow seal valves except in the following applications: valves in heavy liquid service, control valves, instrument piping/tubing valves, valves requiring torsional stem motion, situations where valve failure could pose safety hazard (e.g., drain valves with stems in the horizontal position), special application valves with space limitation, and valves not commercially available. The District shall approve all exceptions to this requirement.

The District shall approve all exceptions to this requirement. All valves and major components shall be physically identified in the field with special markings that distinguish the components from non-BACT components. Additionally, all components shall be identified as BACT components in the record.

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Systems subject to this condition : Process 7, System 11]

#### **DEVICE CONDITIONS**

##### **A. Emission Limits**

A229.7 The 25PPM emission limit is measured by calculating it as methane at the outlet of vapor control system for VOC..

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : C939]

##### **B. Material/Fuel Type Limits**

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

B22.5 The operator shall not use this equipment with materials having a(n) true vapor pressure of 11 psia or greater under actual operating conditions.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 463, 5-6-2005]

[Devices subject to this condition : D146, D147, D171, D175, D176, D177, D178, D183, D184, D186, D187, D190, D194, D195, D196, D197, D198, D199, D200, D201, D356, D750]

B22.6 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.1 psia or greater under actual operating conditions.

Material Safety Data Sheet (MSDS) shall be used to demonstrate compliance with this condition

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D357]

B22.13 The operator shall not use this equipment with materials having a(n) true vapor pressure of 8.2 psia or greater under actual operating conditions.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D149]

B59.4 The operator shall only use the following material(s) for storage in this equipment :

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Gasoline and gasoline blend stocks (e.g. alkylate, iso-octane)

Jet Fuel

Diesel Fuel

Ethanol/Denatured Ethanol

Bio-equivalents (e.g., bio-diesel and bio-jet)

Synfuel equivalents (e.g., oil shale, coal, tar sand derived gasoline, diesel, or jet)

[RULE 1303(b)(2)-Offset, 12-6-2002; RULE 463, 11-4-2011]

[Devices subject to this condition : D146, D147, D149, D171, D175, D177, D178, D183, D184, D186, D187, D190, D194, D195, D196, D197, D198, D199, D200, D201, D356, D750]

**B59.5 The operator shall only use the following material(s) for storage in this equipment :**

Jet Fuel

Diesel Fuel

Bio-equivalents (e.g., bio-diesel and bio-jet)

Synfuel equivalents (e. g., oil shale, coal, derived diesel or jet)

[RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D357]

**B163.2 The operator shall only use this equipment subject to restrictions containing the following:**

## **FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

All vapor extraction wells and ducts shall be capped when not in use to prevent venting of vapors to the atmosphere. Vapors shall not be extracted from the soil unless they are vented to this equipment.

An identification tag or nameplate shall be displayed on the equipment to show manufacturer model and/or serial numbers. The tag(s) or plate(s) shall be issued by the manufacturer, and shall be adhered to the equipment in a permanent and conspicuous position.

Volatile organic compound (VOC) concentration shall be measured and recorded in parts per million by volume (ppmv) at the inlet and the outlet of this equipment once each week that this equipment is in operation. The operator shall use a flame ionization detector or other organic vapor analyzer (OVA) approved by the AQMD to measure the VOC concentration. The instrument shall be reported as methane.

If a calibration gas other than methane is used for calibrating the instrument used for VOC measurements, the concentration measured shall be correlated to and reported as methane.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the requirements specified under this condition.

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : C939]

#### **C. Throughput or Operating Parameter Limits**

C1.17 The operator shall limit the throughput to no more than 760,420 barrel(s) in any one calendar month.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The operator shall calculate the throughput in barrels by the following equation:  $0.14 \times D \times D \times L$ , where D is the diameter of the tank in feet and L is the total one-way liquid surface level in feet per month..

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the liquid surface level. For the purpose of this condition, continuous recording is defined as once every 15 minutes..

The operator shall calculate the total one-way liquid surface level, in feet, on a monthly basis..

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8% whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by 15-minute tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy..

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, throughput shall be determined by the 15-minute tank level data averaged for the previous 30 days prior to the time that the ATLG went out of service..

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D146, D147, D171, D175, D176, D190, D750]

C1.41 The operator shall limit the throughput to no more than 760,417 barrel(s) in any one calendar month.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The operator shall calculate the throughput in barrels, by the following equation:  $0.14 \times D \times D \times L$ , where D is the diameter of the tank in feet and L is the total one-way liquid surface level in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the liquid surface level. For the purpose of this condition, continuous recording is defined as once every 15 minutes..

The operator shall calculate the total one-way liquid surface level, in feet, on a monthly basis..

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the 15-minute tank level data averaged for the previous 30 days prior to the discovery of the discrepancy..

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the 15-minute tank level data averaged for the previous 30 days prior to the time that the ATLG went out of service..

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D149, D183]

C1.49 The operator shall limit the load to no more than 6000 cubic feet per minute.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

For the purpose of this condition, the load shall be defined as the extracted gas stream entering the oxidizer measured in standard cubic feet per minute.

The operator shall install and maintain a flowmeter and a recorder to measure the total load rate. In case a pressure sensor device is used in place of the flow indicator, a conversion chart shall be available to indicate the correspondent flow rate, in scfm, to the pressure reading.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : C939]

- C1.50 The operator shall limit the throughput to no more than 950,521 barrel(s) in any one calendar month.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The operator shall limit the throughput to no more than 9,125,000 barrel(s) in any one year.

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times D \times D \times L$ ; where D is the diameter of the tank in feet and L is the total one-way liquid surface level in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the liquid surface level. For the purpose of this condition, continuous recording is defined as once every 15-minutes.

The operator shall calculate the total one-way liquid surface level, in feet, on a monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by 15-minute tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the 15-minute tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

[RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D184]

C1.51 The operator shall limit the throughput to no more than 9,125,000 barrel(s) in any one year.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times D \times D \times L$ ; where D is the diameter of the tank in feet and L is the total one-way liquid surface level in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the liquid surface level. For the purpose of this condition, continuous recording is defined as once every 15-minutes.

The operator shall calculate the total one-way liquid surface level, in feet, on a monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by 15-minute tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the 15-minute tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

[RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D177, D178, D186, D187, D194, D195, D196, D197, D356, D357]

C1.52 The operator shall limit the throughput to no more than 760,417 barrels in any one calendar year.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The operator shall calculate the throughput, in barrels, by the following equation:  $0.14 \times D \times D \times L$ ; where D is the diameter of the tank in feet and L is the total one-way liquid surface level in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the liquid surface level. For the purpose of this condition, continuous recording is defined as once every 15-minutes.

The operator shall calculate the total one-way liquid surface level, in feet, on a monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, throughput shall be determined by 15-minute tank level data averaged for the previous 30 days, prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the 15-minute tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

[RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D198, D199, D200, D201]

C1.53 The operator shall limit the throughput to no more than 16,972,500 barrels in any one calendar year.

For the purpose of this condition, throughput shall be defined as the amount of denatured ethanol loaded into tanker trucks.

[CA PRC CEQA, 11-23-1970]

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : D884]

- C1.54 The operator shall limit the throughput to no more than 1,596,875 barrel(s) in any one calendar month.

For the purpose of this condition, throughput shall be defined as the amount of denatured ethanol loaded into tanker trucks.

[RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D884]

- C6.1 The operator shall use this equipment in such a manner that the hydrocarbon concentration being monitored, as indicated below, does not exceed 50 percent of the Lower Explosive Limit.

The operator shall use an explosimeter or equivalent device to monitor the hydrocarbon concentration in the vapor space above the floating roof twice a year at a 4 to 8 month intervals.

[RULE 1178, 4-7-2006; RULE 463, 5-6-2005]

[Devices subject to this condition : D176, D177, D178, D184, D186, D187, D194]

- C6.2 The operator shall use this equipment in such a manner that the hydrocarbon concentration being monitored, as indicated below, does not exceed 30 percent of the Lower Explosive Limit.

The operator shall use a lower explosive meter to monitor the hydrocarbon concentration. The operator shall monitor the Lower Explosive Limit once every six months.

[RULE 1178, 4-7-2006; RULE 463, 5-6-2005]

[Devices subject to this condition : D195, D196, D197, D356, D357]

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- C6.4 The operator shall use this equipment in such a manner that the hydrocarbon concentration being monitored, as indicated below, does not exceed 30 percent of the Lower Explosive Limit.

The operator shall use an explosimeter or equivalent device to monitor the hydrocarbon concentration in the vapor space above the floating roof twice a year at a 4 to 8 month interval.

[RULE 1178, 4-7-2006; RULE 463, 5-6-2005]

[Devices subject to this condition : D146, D147, D149, D171, D175, D183, D190, D198, D199, D200, D201, D750]

- C8.1 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1400 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature reading and recording device to accurately indicate the temperature in the fire chamber of the thermal oxidizer.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C887]

- C8.5 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1600 Deg F.

This condition shall only apply whenever the regenerative thermal oxidizer is operating.

The operator shall install and maintain a temperature measurement and recording device at the outlet of the combustion chamber. The measuring device shall be accurate to plus or minus 20 degrees Fahrenheit.

[RULE 1303(a)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C939]

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

#### **D. Monitoring/Testing Requirements**

D12.3 The operator shall install and maintain a(n) stack flow monitor to accurately indicate the flow rate from the afterburner stack to provide continuous (recording/monitoring at least every 15 minutes) and cumulative actual flow volume. The operator shall install and maintain a recording device to record the flow rate. Such a stack flow monitor shall be certified by the District pursuant to a District-approved protocol.

The operator shall submit an application for certification of the stack flow monitor at least 60 days prior to start-up of the stack flow monitor unless otherwise approved in writing by the District.

When a valid exhaust flow rate of an afterburner is not obtained from the stack flow monitor, substituted data for the exhaust flow rate for the afterburner shall be determined by using procedures in the certification letter for the continuous exhaust flow monitor and the missing data procedures applicable to flow as set forth in Rule 2012 Appendix A, Chapter 3, Section K(2)

[RULE 2012(d)(1)(A)(ii)-Large NOx Source, 4-11-1997]

[Devices subject to this condition : C887]

D12.4 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate being supplied to the combustion chamber.

The operator shall also install and maintain a device to continuously record the parameter being measured.

For the purpose of this condition, the flow rate of natural gas supplied to the combustion chamber shall be indicated and recorded.

[RULE 2012(d)(1)(A)(ii)-Large NOx Source, 4-11-1997]

[Devices subject to this condition : C887]

D28.6 The operator shall conduct source test(s) in accordance with the following specifications:

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The test shall be conducted in accordance with the approved protocol.

The test shall be conducted at least annually.

The District shall be notified of the date and time of the test at least 14 days prior to the test.

The test shall be conducted no later than 180 days after device C887 (afterburner) commences operation in RECLAIM "Large Source" mode (e.g. after the installation and certification of the exhaust stack flow meter).

The test shall be conducted at a minimum combustion temperature of 1400 degrees Fahrenheit.

The test shall be conducted to determine: 1) the VOC emission rate at the exhaust of the thermal oxidizer, 2) mass emission rates of NO<sub>x</sub> (ppmv, lbs/hr and lbs/1000 gallons loaded) as measured, 3) concentration of CO (ppmv), and O<sub>2</sub>(%) at the exhaust of the thermal oxidizer, and 4) the ethanol loading rate in barrels per hour during the source test.

[RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2012(d)(1)(A)(ii)-Large NO<sub>x</sub> Source, 4-11-1997; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C887]

D29.1 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
ROG emissions	District Method 25.1 or 25.3	District-approved averaging time	outlet of the bioreactor and outlet of the second carbon adsorber

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The test shall be conducted to determine the vent gas flow rate in acfm.

The test shall be conducted in accordance with AQMD approved source test protocol. The protocol shall be submitted to the AQMD permitting engineer no later than 45 days before the proposed test date and shall be approved by the AQMD before the test commences. The protocol shall include the proposed operating conditions of the bioreactor during the tests, the identity of the testing lab, a statement from the lab certifying that it meets the criteria of R304, and a description of all sampling and analytical procedures.

The facility permit holder shall submit the protocol to the AQMD engineer no later than 45 days prior to the proposed test date, and notify the District of the date and time of the test at least 10 days prior to the test.

The test(s) shall be conducted within 10 days after achieving maximum production rate, but no later than 60 days after initial start-up.

The test shall be conducted after the biocell is established and after each time the biocell is reestablished.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D907, D908]

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	Approved District method	District-approved averaging time	Outlet

## **FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

The test(s) of NOX emissions shall be conducted to verify the unit operates at or below the permitted RECLAIM NOx concentration limit established by the permit. For emission calculation purposes, RECLAIM calculations shall be based on 49 ppmv NOx (as measured).

A source test protocol shall be submitted to the District no later than 60 days after the initial certification of the stack flow monitor unless otherwise approved in writing by the District. The test protocol shall be approved in writing by the District before the test commences.

The source test(s) shall be conducted no later than 180 days after the initial certification of the stack flow monitor unless otherwise approved in writing by the District

A written notice of the source test(s) shall be submitted to the District at least 14 days prior to source testing date so that an observer from the District may be present

[RULE 2012(d)(1)(A)(ii)-Large NOx Source, 4-11-1997]

[Devices subject to this condition : C887]

D90.3 The operator shall monitor and record the VOC concentration at the inlet and the outlet of the first carbon canister according to the following specifications:

The operator shall monitor on the day of startup of the bioreactor in accordance with EPA Method 21.

The operator shall monitor once every week during the normal operation of the bioreactor in accordance with EPA Method 21.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C915]

D90.7 The operator shall monitor the soil vapor extraction system in accordance with and according to the following specifications:

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Influent and effluent concentration of volatile organic compound (VOC) concentration shall be monitored and recorded once each week using an organic vapor analyzer calibrated in accordance with EPA Method 21. All results shall be recorded in ppmv " as methane." Results from the OVA readings shall be used only as a screening tool, not as a definitive evaluation for compliance with the 25 ppmv as methane effluent limit.

Should effluent OVA readings exceed the 25 ppmv screening value, operations must be modified (within 24 hours of a screening value measurement >25 ppmv) in such a way to lower effluent VOC concentration to  $\leq 25$  ppmv as methane.

The operator shall maintain records of all VOC measurements specified by this condition.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002**]

[Devices subject to this condition : C939]

D90.8 The operator shall sample and analyze the equipment at inlet and outlet of the equipment according to the following specifications:

The operator shall analyze the influent samples for total sulfur. Initial sampling shall be performed within 90 days of initial startup and once each quarter thereafter. Samples shall be analyzed in accordance with SCAQMD Method 307-91 and compared to the permitted SO<sub>x</sub> factor using the following equation.  
Extraction Gas SO<sub>x</sub> EF = Tested Sulfur Concentration (as CS<sub>2</sub> ppmv) / (379.4 ft<sup>3</sup> CS<sub>2</sub>/lbmol CS<sub>2</sub>) x (2 lbmol SO<sub>x</sub> / lbmol CS<sub>2</sub>) x (64 lbs SO<sub>x</sub>/lbmol SO<sub>x</sub>).

The operator shall maintain records of all analytical measurements as specified under this condition.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2004, 5-11-2001; RULE 2004, 4-6-2007; RULE 2011, 5-6-2005**]

[Devices subject to this condition : C939]

## **FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

D94.1 The operator shall install, maintain and operate a sampling line at the inlet and the outlet of the carbon canisters to allow measurement of the Volatile organic compounds

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C915]

#### **E. Equipment Operation/Construction Requirements**

E71.7 The operator shall only use this equipment for loading denatured ethanol product.

[RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D884]

E71.10 The operator shall not operate this equipment unless the operator demonstrates to the Executive Officer that the facility holds sufficient NO<sub>x</sub> RTCs (1734 lbs/year) to offset the annual emission increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient NO<sub>x</sub> RTCs (1734 lbs/year).

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : C939]

E71.11 The operator shall not operate this equipment unless the operator demonstrates to the Executive Officer that the facility holds sufficient SO<sub>x</sub> RTCs (1,606 lbs/year) to offset the annual emission increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient SO<sub>x</sub> RTCs (1,606 lbs/year).

## **FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D907, D908, D909, D916]

**E193.7 The operator shall operate and maintain this equipment as follows:**

The operator shall submit to the AQMD in writing the results of the first 90 days of operation under this permit, including, but not limited to, source test data, monitoring data, lab analysis, flow and temperature readings, sufficient to prove compliance with each condition of this permit. Submittal shall be within 60 days of the initial source test and shall be addressed to:

SCAQMD, Refinery and Waste Management Team, Engineering and Compliance Division, 21865 Copley Drive, Diamond Bar, CA 91765.

[RULE 204, 10-8-1993]

[Devices subject to this condition : C939]

**E193.8 The operator shall operate and maintain this equipment as follows:**

Equipment interlocks shall be installed and operated to prevent vapor processing during periods when the minimum operating temperature of the regenerative thermal oxidizer is not met.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C939]

**E193.9 The operator shall operate and maintain this equipment as follows:**

The exit to the exhaust stack shall have a minimum height of 30 feet measured from grade.

[RULE 1401, 3-7-2008]

## **FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : C939]

E128.1 The operator shall keep all spent carbon in a tightly covered container which shall remain closed except when it is being transferred into or out of the container.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : C915]

E153.3 The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough occurs when the hydrocarbon monitor reading indicates a concentration of 500 ppmv at the outlet of either carbon canister measured as methane.

The operator shall replace the carbon as follows: the primary carbon canister shall be replaced with either a fresh carbon canister or the secondary carbon canister, and the secondary carbon canister shall be replaced with a fresh carbon.

Records of carbon replacement shall be kept and maintained for this equipment for a period of five years.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C915]

E193.3 The operator shall operate and maintain this equipment as follows:

During periods of routine maintenance, the aeration blowers may remain in operation while the bioreactor covers are removed and/or the carbon adsorption unit is bypassed, as long as the groundwater feed to the bioreactors has been stopped. Maintenance actions shall not exceed 72 hours for each repair period.

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : C939]

E193.11 The operator shall operate and maintain this equipment as follows:

Samples shall be collected and analyzed once during the first 90 days of operation for total volatile organic compounds and speciated for benzene, MTBE [and other toxics as required in (E)] as follows:

Samples shall be collected at the inlet and outlet of the regenerative thermal oxidizer.

B. Sampling and Analysis Shall be conducted by an independent laboratory per Rule 304.

C. Analysis for VOC shall be conducted using SCAQMD Method 25.1, 25.3 or other methods approved by SCAQMD.

D. Analysis for toxics shall be conducted using SCAQMD Method TO-15 or other methods approved by the SCAQMD.

E. The inlet sample shall also be analyzed for all volatile organic compounds that were both detected by the Phase II site assessment (soil and groundwater characterization studies) and found on the Rule 1401 compound list. If no assessments of soil or groundwater exist, the inlet sample shall be analyzed for all volatile organic compounds listed in SCAQMD Rule 1401, unless otherwise approved in writing by the SCAQMD.

F. The tests indicated above shall be conducted after SCAQMD approval of the source test protocol submitted in accordance with Section E - Administrative Conditions.

G. Follow up Source tests shall be conducted at least once every 3 years.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1401, 3-7-2008; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

## **FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

[Devices subject to this condition : C939]

E193.12 The operator shall operate and maintain this equipment as follows:

The operator shall monitor/test the equipment as follows:

The operator shall collect and analyze grab samples at the inlet and outlet of this equipment. Initial sampling shall be performed within two weeks of start up of this unit, and once each quarter thereafter. Samples shall be speciated for benzene, toluene, ethylbenzene, and xylenes in accordance with EPA Method TO-15.

[RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1401, 6-5-2009; **RULE 3004(a)(4)  
-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : C939]

E336.5 The operator shall vent the vent gases from this equipment as follows:

All gases shall be vented to the regenerative thermal oxidizer C939, which shall be in full use and have a valid permit to receive vent gases from this equipment.

[**RULE 1303(a)(1)-BACT, 5-10-1996**; RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 3-7-2008; **RULE 462, 5-14-1999**]

[Devices subject to this condition : D940, D941]

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

E440.1 The operator shall operate and maintain this equipment according to the following specifications:

During the carbon change out operation, the spent carbon shall be dropped onto the fabric filters with the use of a chute to minimize carbon particle release

During the process of loading fresh carbon into the canister, the operator shall use a vacuum device vented to a cyclone around the canister opening to minimize carbon particle release

The operator shall limit the carbon change out operation to once per month.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

[Devices subject to this condition : C915]

E448.1 The operator shall comply with the following requirements:

The vapor holder may be bypassed during periods of maintenance, repair, breakdown, or other times determined appropriate by the permittee. VOC emissions shall not exceed 0.02 pounds per 1,000 gallons of liquid loaded while the system is operating in normal mode or when the bladder tank is bypassed.

The operator shall keep records of the dates and durations when the bladder inoperable and when the vapor recovery system is in bypass mode. The vapor holder may be bypassed only if the unit is certified by the California Air Resource Board (CARB) to operate in bypass mode.

Source testing, while operating in bypass mode, will only be required for the initial source test as a RECLAIM large source, and as part of the testing required to obtain CARB certification in bypass mode.

[RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C887]

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

E448.2 The operator shall comply with the following requirements:

The exhaust stack flow meter shall be audited by a source test contractor annually. The audit will consist of firing the thermal oxidizer exclusively with natural gas, calculating the anticipated exhaust flow rate (using an F-factor and measured oxygen concentration) and comparing the calculated value to the recorded value from the stack flow monitoring system.

Should the relative accuracy test show that the unit is out of calibration by  $\geq 15\%$ , a recalculation of volumetric flow and associated NO<sub>x</sub> emissions will be required from the last audit date to the current audit date; additional RTC's may be required. Should the relative accuracy test show that the unit is out of calibration by  $\geq 15\%$ , the stack flow monitor will be re-calibrated.

[RULE 2012(d)(1)(A)(ii)-Large NO<sub>x</sub> Source, 4-11-1997]

[Devices subject to this condition : C887]

E448.3 The operator shall comply with the following requirements:

Volumetric flow rates of the afterburner exhaust are not required to be used in RECLAIM calculations during periods when there is afterburner flow but combustion is not occurring and NO<sub>x</sub> is not being produced (e.g. during periods of cooling, purging, etc).

A flame detector (or other parameter monitoring device) shall be installed, maintained and used to monitor and record periods when there may be exhaust stack flow but combustion is not occurring. Data from this monitoring and recording device will be recorded as part of, and simultaneously with data required by Condition D12.3 (exhaust stack flow monitor data).

[RULE 2012, 5-6-2005]

[Devices subject to this condition : C887]

**FACILITY PERMIT TO OPERATE  
 EQUILON ENTER. LLC, SHELL OIL PROD. US**

**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

**E448.4 The operator shall comply with the following requirements:**

The 0.004 lb NOx/1000 gallon RECLAIM Process Unit emission rate shall apply to the afterburner (C887) prior to the exhaust stack flow monitor installation and certification as required by Conditions D12.3 & D12.4, after which the 49 ppmv NOx RECLAIM Large Source concentration limit shall apply.

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : C887]

**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

**[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009]**

[Devices subject to this condition : D890]

**H23.11 This equipment is subject to the applicable requirements of the following rules or regulations:**

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	Kb

**[40CFR 60 Subpart Kb, 10-15-2003]**

[Devices subject to this condition : D146, D147, D149, D171, D175, D183]

**H23.13 This equipment is subject to the applicable requirements of the following rules or regulations:**

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Contaminant	Rule	Rule/Subpart
HAPs	40CFR63, SUBPART	R

[40CFR 63 Subpart R, 4-6-2006]

[Devices subject to this condition : D146, D147, D149, D171, D175, D176, D177, D178, D183, D184, D186, D187, D190, D194, D195, D196, D197, D198, D199, D200, D201, D356, D357, D750]

#### K. Record Keeping/Reporting

K40.1 The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D907, D908]

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

In addition to the records required in Rule 462, the loading throughput record shall be maintained for five years in a format approved by AQMD and shall be made available to District personnel upon request.

The records of monthly inspection, subsequent repairs and reinspections, if any, shall be maintained for five years and shall be made available to District personnel upon request.

Rule 1173 Inspection and Maintenance Program is required, and these records shall be maintained for at least five years and shall be made available to District personnel upon request.

[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; RULE 462, 5-14-1999]

## FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : D884]

K67.7 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Loading rate of ethanol

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D884]

K67.8 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Tank throughput in barrels per month

Commodity/product stored and time period of its storage

True vapor pressure, in psia, of each commodity/product stored

Hydrocarbon concentration measurements done in the vapor space above the floating roof of the tank

Other records that may be required to comply with the applicable requirements of District Rule 463, Rule 1149, Rule 1178 and 40CFR63, Subpart R

[**RULE 1149, 7-14-1995; RULE 1149, 5-2-2008; RULE 1178, 4-7-2006; RULE 1303(b) (2)-Offset, 5-10-1996; RULE 463, 5-6-2005; 40CFR 63 Subpart R, 4-6-2006**]

[Devices subject to this condition : D147, D149, D177, D178, D183, D184, D186, D187, D194, D195, D196, D197, D198, D199, D200, D201, D356, D357]

K171.1 The operator shall provide to the District the following items:

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

A. A source test protocol no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by the AQMD. The test protocol shall contain the following information:

- a) Brief description of the equipment tested.
- b) Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.
- c) Operating conditions under which the test will be performed.
- d) Method of measuring operating parameters, such as fuel rate and process weight, process schematic diagram showing the ports and sampling locations, and distances of flow disturbances, (e.g., elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
- e) Brief description of sampling and analytical method used to measure each pollutant, temperature, flow rate, and moisture content.
- f) Description of calibration and quality assurance procedures.
- g) Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (no conflict of interest).

B. Report the results of the source test report no later than 60 days after each round of source tests is conducted. The test shall contain the following information:

- a) The results of the source test.
- b) Brief description of the equipment tested.
- c) Operating condition under which the Test was performed.
- d) Method of measuring operating parameters, such as fuel rate and process weight, process schematic diagram showing the ports and sampling locations,

## **FACILITY PERMIT TO OPERATE EQUILON ENTER. LLC, SHELL OIL PROD. US**

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

including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g., elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).

e) Field and laboratory data forms, strip charts, and analyses.

f) Calculations for volumetric flow rates, emission rates, and control efficiency.

[RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2012, 5-6-2005]

[Devices subject to this condition : C887]