



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

May 8, 2012

Mr. Gerardo Rios  
Chief, Permits Office  
U.S. EPA – Region IX – Air – 3  
75 Hawthorne Street  
San Francisco, CA 94105

Dear Mr. Rios:

**Subject: Beta Offshore (ID 166073) - Title V Permit Revision**

Beta Offshore is an oil and gas production facility located in Federal Waters. They are proposing to revise their Title V permit under Application No. 531454 by the following action :

Appl. No.	Device No.	Section No.	Proposed action
531455	D99	D	Change NOx Reclaim concentration limit.

This proposed revision is considered a “minor permit revision” to their Title V Facility Permit. The draft Title V permit for the proposed revision is being sent electronically for your review. With your receipt of this proposed Title V permit, we will note that the EPA 45-day review period has begun.

If you have any questions or wish to provide comments regarding these changes, please call the processing engineer, Ms. Maria Vibal at (909) 396-2422 or [mvibal@aqmd.gov](mailto:mvibal@aqmd.gov).

Sincerely,



William C. Thompson, P.E.  
Senior Manager  
Operations Team  
Engineering and Compliance

WCT:GLT:RGC:MV

Enclosures

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 1: CRUDE OIL PRODUCTION</b>					
<b>System 1: OIL/WATER/GAS SEPARATION - PLATFORM ELLEN</b>					S13.1
VESSEL, SEPARATOR, BLOW DOWN, V-101, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 8 FT ; DIAMETER: 2 FT 8 IN A/N: 516016	D1	D54 D56 D108			
<b>System 2: OIL/WATER/GAS SEPARATION - PLATFORM EUREKA</b>					S13.1
VESSEL, MAM-1102A, FREE WATER KNOCKOUT, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVES VENTED TO SCRUBBER, LENGTH: 15 FT ; DIAMETER: 6 FT A/N: 516016	D2	D46 D48 D105			
VESSEL, MAM-1102B, FREE WATER KNOCKOUT, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVES VENTED TO SCRUBBER, LENGTH: 15 FT ; DIAMETER: 6 FT A/N: 516016	D3	D46 D48 D105			
VESSEL, SEPARATOR, TEST, MBD-1104A, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVES VENTED TO SCRUBBER, LENGTH: 15 FT ; DIAMETER: 6 FT A/N: 516016	D4	D46 D48 D105			

- \* (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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<b>Process 1: CRUDE OIL PRODUCTION</b>					
VESSEL, SEPARATOR, TEST, MBD-1104B, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVES VENTED TO SCRUBBER, LENGTH: 15 FT ; DIAMETER: 6 FT A/N: 516016	D5	D46 D48 D105			
VESSEL, MAY-1101, HEATED, PRODUCTION SURGE, PRESSURE VESSEL, VENTED TO VAPOR RECOVERY, SYSTEM, EMERGENCY PRESSURE RELIEF VALVE VENTED TO SCRUBBER, HEIGHT: 30 FT ; DIAMETER: 12 FT A/N: 516016	D6	D46 D48 D105			
VESSEL, MAY-1116, WELL CLEAN-UP SURGE, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVE VENTED TO SCRUBBER, HEIGHT: 9 FT ; DIAMETER: 4 FT A/N: 516016	D7	D46 D48 D105			
TANK, HEATED, ABJ-1105, WELL CLEAN UP, CRUDE OIL, 1000 BBL; WIDTH: 15 FT ; HEIGHT: 14 FT 6 IN; LENGTH: 30 FT A/N: 516016	D8	D158			E127.1, H23.4, H23.6
VESSEL, KAH-1603, CRUDE OIL LAUNCHER, LENGTH: 8 FT 10 IN; DIAMETER: 1 FT 4 IN A/N: 516016	D159				
<b>System 3: OIL/WATER/GAS SEPARATION - PLATFORM ELLY</b>					S13.1

- \* (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 1: CRUDE OIL PRODUCTION</b>					
VESSEL, RECEIVER, U-08, EUREKA OIL, DIAMETER: 1 FT 4 IN A/N: 516016	D9				
VESSEL, RECEIVER, M5, EDITH OIL, LENGTH: 3 FT ; DIAMETER: 8 IN A/N: 516016	D10				
VESSEL, TREATER, V-03A, WELL TEST/CLEAN UP, PRESSURE VESSEL, CRUDE OIL, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVES VENTED TO DRUM, HEIGHT: 17 FT ; DIAMETER: 8 FT A/N: 516016	D11	D54 D56 D108			
VESSEL, TREATER, V-03B, WELL TEST/CLEAN UP, PRESSURE VESSEL, CRUDE OIL, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVES VENTED TO DRUM, HEIGHT: 17 FT ; DIAMETER: 8 FT A/N: 516016	D12	D54 D56 D108			
VESSEL, V-01A, FREE WATER KNOCKOUT, HEATED, CRUDE OIL, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVES VENTED TO DRUM, LENGTH: 40 FT ; DIAMETER: 10 FT A/N: 516016	D13	D56 D108			

- \* (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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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1: CRUDE OIL PRODUCTION</b>					
VESSEL, V-01B, FREE WATER KNOCKOUT, HEATED, CRUDE OIL, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVES VENTED TO DRUM, LENGTH: 40 FT ; DIAMETER: 10 FT A/N: 516016	D14	D56 D108			
VESSEL, TREATER, V-02A, PRESSURE VESSEL, HEATED, CRUDE OIL, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVES VENTED TO DRUM, LENGTH: 45 FT ; DIAMETER: 12 FT A/N: 516016	D15	D54 D56 D108			
VESSEL, TREATER, V-02B, PRESSURE VESSEL, HEATED, CRUDE OIL, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVES VENTED TO DRUM, LENGTH: 45 FT ; DIAMETER: 12 FT A/N: 516016	D16	D54 D56 D108			
TANK, HOLDING, S-02A, WET CRUDE OIL, VENTED TO VAPOR RECOVERY SYSTEM, 500 BBL; WIDTH: 7 FT ; HEIGHT: 14 FT ; LENGTH: 30 FT A/N: 516016	D17	D54 D56			E127.1, H23.4, H23.6

- \* (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 1: CRUDE OIL PRODUCTION</b>					
TANK, HOLDING, S-02B, DRY CRUDE OIL, VENTED TO VAPOR RECOVERY SYSTEM, 2500 BBL; WIDTH: 30 FT ; HEIGHT: 14 FT ; LENGTH: 36 FT A/N: 516016	D18	D54 D56			E127.1, H23.4, H23.6
TANK, HOLDING, TK-1000, DRY CRUDE OIL, VENTED TO VAPOR RECOVERY SYSTEM, 600 BBL; WIDTH: 13 FT ; HEIGHT: 15 FT ; LENGTH: 17 FT A/N: 516016	D19	D54 D56			E127.1, H23.4, H23.6
TANK, HOLDING, TK-1001, DRY CRUDE OIL, VENTED TO VAPOR RECOVERY SYSTEM, 600 BBL; WIDTH: 13 FT ; HEIGHT: 15 FT ; LENGTH: 17 FT A/N: 516016	D20	D54 D56			E127.1, H23.4, H23.6
VESSEL, SPHERE LAUNCHER, U-10, DIAMETER: 1 FT 8 IN A/N: 516016	D21				
<b>System 4: WASTE WATER TREATMENT - PLATFORM ELLEN</b>					
TANK, U-16, EMERGENCY SUMP, TANK OVERFLOW, 244 BBL; DIAMETER: 3 FT ; HEIGHT: 194 FT A/N: 516017	D22	D175			E127.2, H23.1
TANK, HOLDING, U-17B, DRAIN WATER, 76 BBL; DIAMETER: 6 FT ; HEIGHT: 15 FT A/N: 516017	D23	D175			E127.2, H23.1

- \* (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 1: CRUDE OIL PRODUCTION</b>					
TANK, HOLDING, U-18B, CRUDE OIL, 19 BBL; DIAMETER: 3 FT ; HEIGHT: 15 FT A/N: 516017	D24	D175			E127.2, H23.1
TANK, HOLDING, U-17A, DRAIN WATER, 76 BBL; DIAMETER: 6 FT ; HEIGHT: 15 FT A/N: 516017	D25	D175			E127.2, H23.1
TANK, HOLDING, U-18A, CRUDE OIL, 19 BBL; DIAMETER: 3 FT ; HEIGHT: 15 FT A/N: 516017	D26	D175			E127.2, H23.1
<b>System 5: WASTE WATER TREATMENT - PLATFORM EUREKA</b>					
TANK, HOLDING, ABH-1107, DRAIN WATER, 81 BBL; DIAMETER: 6 FT ; LENGTH: 16 FT A/N: 516017	D27	D158			E127.2, H23.1
TANK, HOLDING, ABH-1108, CRUDE OIL, 32 BBL; DIAMETER: 4 FT ; HEIGHT: 16 FT A/N: 516017	D28	D158			E127.2, H23.1
TANK, ABH-1109, EMERGENCY SUMP, TANK OVERFLOWS, 268 BBL; DIAMETER: 3 FT ; HEIGHT: 213 FT A/N: 516017	D29	D158			E127.2, H23.1
VESSEL, RECEIVER, KAQ-1602, INJECTION WATER, LENGTH: 8 FT 8 IN; DIAMETER: 1 FT A/N: 516017	D30				
<b>System 6: WASTE WATER TREATMENT - PLATFORM ELLY</b>					

- \* (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 1: CRUDE OIL PRODUCTION</b>					
VESSEL, SEPARATOR, V-1000, SOURCE WATER, PRESSURE VESSEL, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 10 FT ; DIAMETER: 5 FT A/N: 516017	D31	D54 D56 D108			H23.1
TANK, HOLDING, S-01A, PRODUCED WATER, VENTED TO VAPOR RECOVERY SYSTEM, 800 BBL; WIDTH: 14 FT ; HEIGHT: 12 FT ; LENGTH: 30 FT A/N: 516017	D32	D54 D56			E127.1, H23.4, H23.6
TANK, HOLDING, S-01B, PRODUCED WATER, VENTED TO VAPOR RECOVERY SYSTEM, 800 BBL; WIDTH: 14 FT ; HEIGHT: 12 FT ; LENGTH: 30 FT A/N: 516017	D33	D54 D56			E127.1, H23.4, H23.6
FLOATATION UNIT, U-01A, WEMCO, MODEL 120, 213 BBL A/N: 516017	D34				E448.1, H23.1
FLOATATION UNIT, U-01B, WEMCO, MODEL 120, 213 BBL A/N: 516017	D35				E448.1, H23.1
TANK, U-02A, OILY WATER, OILY WATER SUMP, 32 BBL; DIAMETER: 3 FT 6 IN; HEIGHT: 18 FT 9 IN A/N: 516017	D172				E127.2, E448.1, H23.1
TANK, U-02B, OILY WATER, OILY WATER SUMP, 32 BBL; DIAMETER: 3 FT 6 IN; HEIGHT: 18 FT 9 IN A/N: 516017	D173				E127.2, E448.1, H23.1

- \* (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.)  
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<b>Process 1: CRUDE OIL PRODUCTION</b>					
TANK, SURGE, S-04, FILTER BACKWASH SUPPLY WATER, VENTED TO VAPOR RECOVERY SYSTEM, 400 BBL; WIDTH: 15 FT; HEIGHT: 12 FT; LENGTH: 15 FT A/N: 516017	D36	D54 D56			E127.2, H23.1
TANK, SURGE, S-03, FILTERED PRODUCED/SOURCE WATER, VENTED TO VAPOR RECOVERY SYSTEM, 600 BBL; WIDTH: 15 FT; HEIGHT: 12 FT; LENGTH: 23 FT A/N: 516017	D37	D54 D56			E127.1, H23.4, H23.6
TANK, U-06, EMERGENCY SUMP, TANK OVERFLOWS, 243 BBL; DIAMETER: 3 FT; HEIGHT: 193 FT A/N: 516017	D38	D175			E127.2, H23.1
TANK, HOLDING, U-04, DRAIN WATER, 80 BBL; DIAMETER: 6 FT; HEIGHT: 16 FT A/N: 516017	D39	D175			E127.2, H23.1
TANK, HOLDING, U-05, CRUDE OIL, 36 BBL; DIAMETER: 4 FT; HEIGHT: 16 FT A/N: 516017	D40	D175			E127.2, H23.1
TANK, HOLDING, S-05A, FILTER BACKWASH WATER, VENTED TO VAPOR RECOVERY SYSTEM, 190 BBL; WIDTH: 12 FT; HEIGHT: 11 FT 6 IN; LENGTH: 15 FT A/N: 516017	D41	D54 D56			E127.2, H23.1

- \* (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 1: CRUDE OIL PRODUCTION</b>					
TANK, HOLDING, S-05B, FILTER BACKWASH WATER, VENTED TO VAPOR RECOVERY SYSTEM, 190 BBL, WIDTH: 12 FT ; HEIGHT: 11 FT 6 IN; LENGTH: 15 FT A/N: 516017	D42	D54 D56			E127.2, H23.1
TANK, HOLDING, S-07, CENTRATE, 85 BBL; WIDTH: 8 FT ; HEIGHT: 7 FT 6 IN; LENGTH: 8 FT A/N: 516017	D43				E127.2, E448.1, H23.1
TANK, HOLDING, S-06, SOLIDS LADEN WATER, VENTED TO VAPOR RECOVERY SYSTEM, 690 BBL, WIDTH: 12 FT ; HEIGHT: 13 FT 6 IN; LENGTH: 24 FT A/N: 516017	D44	D54 D56			E127.1, H23.4, H23.6
VESSEL, U-14A, SPHERE LAUNCHER, INJECTION WATER, DIAMETER: 1 FT 2 IN A/N: 516017	D160				
<b>System 7: VAPOR RECOVERY SYSTEM - PLATFORM EUREKA</b>					S13.1
SCRUBBER, MBF-1310A, COMPRESSOR SUCTION, EMERGENCY PRESSURE RELIEF VALVE VENTED TO SCRUBBER, HEIGHT: 7 FT 6 IN; DIAMETER: 3 FT A/N: 516018	D46	D2 D3 D4 D5 D6 D7 D105			
COMPRESSOR, CAY-1310 B, FUEL GAS, EMERGENCY PRESSURE RELIEF VALVE VENTED TO SCRUBBER A/N: 516018	D68	D105			

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 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate  
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<b>Process 1: CRUDE OIL PRODUCTION</b>					
VESSEL, SEPARATOR, MBF-1310B, EMERGENCY PRESSURE RELIEF VALVE VENTED TO SCRUBBER, HEIGHT: 8 FT ; DIAMETER: 2 FT 8 IN A/N: 516018	D47	D105			
VESSEL, SEPARATOR, MBF-1310C, EMERGENCY PRESSURE RELIEF VALVE VENTED TO SCRUBBER, HEIGHT: 7 FT 6 IN; DIAMETER: 2 FT 6 IN A/N: 516018	D48	D2 D3 D4 D5 D6 D7 D105			
VESSEL, KAH-1601, GAS LAUNCHER, LENGTH: 6 FT 4 IN; DIAMETER: 10 IN A/N: 516018	D49				
<b>System 8: VAPOR RECOVERY SYSTEM - PLATFORM ELLY</b>					S13.1
DRUM, LOW PRESSURE RELIEF, V-09, VENTED TO VAPOR RECOVERY SYSTEM, EMERGENCY PRESSURE RELIEF VALVES VENTED TO ATMOSPHERE, 20 BBL; DIAMETER: 4 FT ; LENGTH: 9 FT A/N: 516018	D45	D54 D56			
VESSEL, RECEIVER, U-09, EMERGENCY PRESSURE RELIEF VALVES VENTED TO DRUM, DIAMETER: 10 IN A/N: 516018	D52	D108			

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
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- (5) (5A) (5B) Denotes command and control emission limit
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- (9) See App B for Emission Limits
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VESSEL, V-18, SLUG CATCHER, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 8 FT ; DIAMETER: 2 FT 6 IN A/N: 516018	D53	D108			
SCRUBBER, V-04, COMPRESSOR SUCTION GAS, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 8 FT ; DIAMETER: 3 FT 6 IN A/N: 516018	D54	D1 D11 D12 D15 D16 D17 D18 D19 D20 D31 D32 D33 D36 D37 D41 D42 D44 D45 D108			
COMPRESSOR, K-01, RECIPROCATING A/N: 516018	D55				
SCRUBBER, V-1004A, 35# GAS, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 12 FT ; DIAMETER: 5 FT A/N: 516018	D56	D1 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D31 D32 D33 D36 D37 D41 D42 D44 D45 D108			E17.1
SCRUBBER, V-05A, COMPRESSOR SUCTION GAS, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 8 FT ; DIAMETER: 2 FT 6 IN A/N: 516018	D57	D108			
SCRUBBER, V-05B, COMPRESSOR SUCTION GAS, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 8 FT ; DIAMETER: 2 FT 6 IN A/N: 516018	D58	D108			

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

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 1: CRUDE OIL PRODUCTION</b>					
COMPRESSOR, K-02A, FUEL GAS A/N: 516018	D59				
COMPRESSOR, K-02B, FUEL GAS A/N: 516018	D60				
SCRUBBER, V-06A, COMPRESSOR INTERSTAGE GAS, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 8 FT ; DIAMETER: 2 FT 6 IN A/N: 516018	D61	D108			
SCRUBBER, V-06B, COMPRESSOR INTERSTAGE GAS, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 8 FT ; DIAMETER: 2 FT 6 IN A/N: 516018	D62	D108			
VESSEL, V-11, SCOUR GAS, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, LENGTH: 40 FT ; DIAMETER: 2 FT 6 IN A/N: 516018	D63	D108			
VESSEL, V-07, KNOCKOUT SCRUBBER, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 6 FT ; DIAMETER: 2 FT A/N: 516018	D51	D108			
VESSEL, V-08, INTERSTAGE SCRUBBER, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 5 FT ; DIAMETER: 2 FT A/N: 516018	D50	D108			
<b>Process 2: FUEL GAS TREATMENT - PLATFORM ELLY</b>					P13.1

- \* (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 BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 2: FUEL GAS TREATMENT - PLATFORM ELLY</b>					P13.1
SCRUBBER, V-15A, FUEL GAS, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 9 FT 8 IN; DIAMETER: 3 FT A/N: 516019	D64	C66 C67 D108			
SCRUBBER, V-15B, FUEL GAS, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 9 FT 8 IN; DIAMETER: 3 FT A/N: 516019	D65	C66 C67 D108			
VESSEL, V-100A, SULFA TREAT, LEAD/LAG, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 11 FT 2 IN; DIAMETER: 5 FT A/N: 516019	C66	D64 D65 D108			
VESSEL, V-100B, SULFA TREAT, LAG/LEAD, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, HEIGHT: 11 FT 2 IN; DIAMETER: 5 FT A/N: 516019	C67	D64 D65 D108			
VESSEL, RECEIVER, MBL-1003, FUEL GAS, EMERGENCY PRESSURE RELIEF VALVE VENTED TO DRUM, LENGTH: 22 FT ; DIAMETER: 8 FT A/N: 516019	D69	D108			
<b>Process 3: INTERNAL COMBUSTION</b>					
<b>System 1: ICE: EMERGENCY POWER - PLATFORM ELLEN</b>					

- \* (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 BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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: INTERNAL COMBUSTION</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, Z-11, DIESEL FUEL, CATERPILLAR, MODEL D379PCTA, WITH AFTERCOOLER, TURBOCHARGER, 600 BHP WITH A/N: 516020  GENERATOR, RIG, EMERGENCY POWER, 420 KW	D76		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]	A63.2, C1.1, D12.1
<b>System 2: ICE: EMERGENCY POWER - PLATFORM EUREKA</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, EN-040-E2, DIESEL FUEL, CATERPILLAR, MODEL D379PCTA, WITH AFTERCOOLER, TURBOCHARGER, 600 BHP WITH A/N: 516021  GENERATOR, RIG, EMERGENCY POWER, 420 KW	D77		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]	A63.2, C1.1, D12.1
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, LAN-2530, DIESEL FUEL, CATERPILLAR, MODEL 3412 DITT, WITH TURBOCHARGER, 620 BHP WITH A/N: 516022  GENERATOR, EMERGENCY POWER, 500 KW	D78		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]	A63.3, C1.1, D12.1
<b>System 3: ICE: EMERGENCY POWER, - PLATFORM ELLY</b>					

\* (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 BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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: INTERNAL COMBUSTION</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, Z-10, DIESEL FUEL, DETROIT DIESEL, MODEL 8163-7000, 727 BHP WITH A/N: 516023  GENERATOR, ELLY STAND-BY, EMERGENCY POWER, 400 KW	D79		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]	A63.4, C1.1, D12.1
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, ZAN-9007, DIESEL FUEL, DETROIT DIESEL, MODEL 1043-7000, 155 BHP WITH A/N: 516024  GENERATOR, MARS STAND-BY, EMERGENCY POWER, 30 KW	D80		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]	A63.5, C1.1, D12.1
<b>System 4: ICE: RIG GENERATOR - PLATFORM ELLEN</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, EJ-01A, DIESEL FUEL, CATERPILLAR, MODEL D398PCTA, WITH OXIDATION CATALYST, JOHNSON MATTHEY, MODEL BX-70-D-8, WITH AFTERCOOLER, TURBOCHARGER, 853 BHP WITH A/N: 516025  GENERATOR, RIG, 600 KW	D81		NOX: LARGE SOURCE**	CO: 250 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 450 PPMV DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV (5) [RULE 1110.2, 2-1-2008]	A63.9, D12.6, D28.1, D323.3, E193.2, E448.3, E448.4, E448.5, H23.7, 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 BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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: INTERNAL COMBUSTION</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, EJ-01B, DIESEL FUEL, CATERPILLAR, MODEL D398PCTA, WITH AFTERCOOLER, TURBOCHARGER, 853 BHP WITH A/N:  GENERATOR, RIG, 600 KW	D82		NOX: LARGE SOURCE**	CO: 250 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 450 PPMV DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV (5) [RULE 1110.2, 2-1-2008]	A63.9, D28.1, D323.3, K40.1
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, EJ-01C, DIESEL FUEL, CATERPILLAR, MODEL D398PCTA, WITH AFTERCOOLER, TURBOCHARGER, 853 BHP WITH A/N:  GENERATOR, RIG, 600 KW	D83		NOX: LARGE SOURCE**	CO: 250 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 450 PPMV DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV (5) [RULE 1110.2, 2-1-2008]	A63.9, D28.1, D323.3, K40.1
<b>System 5: ICE: RIG GENERATOR - PLATFORM EUREKA</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, EN-010-E2, DIESEL FUEL, CATERPILLAR, MODEL D398PCTA, WITH AFTERCOOLER, TURBOCHARGER, 853 BHP WITH A/N:  GENERATOR, RIG, 600 KW	D84		NOX: LARGE SOURCE**	CO: 250 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 450 PPMV DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV (5) [RULE 1110.2, 2-1-2008]	A63.9, D28.1, D323.3, K40.1

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| * (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 BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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: INTERNAL COMBUSTION</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, EN-020-E2, DIESEL FUEL, CATERPILLAR, MODEL D398PCTA, WITH AFTERCOOLER, TURBOCHARGER, 853 BHP WITH A/N:  GENERATOR, RIG, 600 KW	D85		NOX: LARGE SOURCE**	CO: 250 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 450 PPMV DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV (5) [RULE 1110.2, 2-1-2008]	A63.9, D28.1, D323.3, K40.1
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, EN-030-E2, DIESEL FUEL, CATERPILLAR, MODEL D398PCTA, WITH AFTERCOOLER, TURBOCHARGER, 853 BHP WITH A/N:  GENERATOR, RIG, 600 KW	D86		NOX: LARGE SOURCE**	CO: 250 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 450 PPMV DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV (5) [RULE 1110.2, 2-1-2008]	A63.9, D28.1, D323.3, K40.1
<b>System 6: ICE: PEDESTAL CRANE- PLATFORM ELLEN</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, L-11B, DIESEL FUEL, DETROIT DIESEL, MODEL 1064-7001, ELLEN EAST CRANE, 195 BHP A/N:	D87		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 469 LBS/1000 GAL DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; VOC: 250 PPMV (5) [RULE 1110.2, 2-1-2008]	A63.6, C1.3, D28.1, D323.3, E448.2, E448.4, E448.5, H23.7, K40.1
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, L-11A, DIESEL FUEL, DETROIT DIESEL, MODEL 1063-7008, ELLEN CENTER CRANE, 195 BHP A/N:	D91		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 469 LBS/1000 GAL DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; VOC: 250 PPMV (5) [RULE 1110.2, 2-1-2008]	A63.6, C1.3, D28.1, D323.3, E448.2, E448.4, E448.5, H23.7, 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 BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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: INTERNAL COMBUSTION</b>					
<b>System 7: ICE: PEDESTAL CRANE - PLATFORM EUREKA</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, CR-030-A2, DIESEL FUEL, DETROIT DIESEL, MODEL 1067-8503, EUREKA WEST CRANE, 195 BHP A/N: 516034	D88		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 469 LBS/1000 GAL DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; VOC: 250 PPMV (5) [RULE 1110.2, 2-1-2008]	A63.6, C1.3, D28.1, D323.3, E448.2, E448.4, E448.5, H23.7, K40.1
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, CR-010-A2, DIESEL FUEL, DETROIT DIESEL, MODEL 1064-7001, EUREKA EAST CRANE, 195 BHP A/N:	D89		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 469 LBS/1000 GAL DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; VOC: 250 PPMV (5) [RULE 1110.2, 2-1-2008]	A63.6, C1.3, D28.1, D323.3, E448.2, E448.4, E448.5, H23.7, K40.1
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, CR-020-A2, DIESEL FUEL, DETROIT DIESEL, MODEL 1064-7001, EUREKA CENTER CRANE, 195 BHP A/N:	D90		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 469 LBS/1000 GAL DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; VOC: 250 PPMV (5) [RULE 1110.2, 2-1-2008]	A63.6, C1.3, D28.1, D323.3, E448.2, E448.4, E448.5, H23.7, K40.1
<b>System 8: ICE: PEDESTAL CRANE - PLATFORM ELLY</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, L-01A, DIESEL FUEL, DETROIT DIESEL, MODEL 1064-7001, ELLY EAST CRANE, 195 BHP A/N:	D92		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 469 LBS/1000 GAL DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; VOC: 250 PPMV (5) [RULE 1110.2, 2-1-2008]	A63.6, C1.3, D28.1, D323.3, E448.2, E448.4, E448.5, H23.7, K40.1

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| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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: INTERNAL COMBUSTION</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, L-01B, DIESEL FUEL, DETROIT DIESEL, MODEL 1064-7001, ELLY WEST CRANE, WITH OXIDATION CATALYST, CLEAN EMISSIONS PROD, MODEL 4-400, 195 BHP A/N: 516037	D93		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 1110.2, 2-1-2008]; NOX: 469 LBS/1000 GAL DIESEL (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; VOC: 250 PPMV (5) [RULE 1110.2, 2-1-2008]	A63.6, C1.3, D12.4, D28.1, D323.3, E193.1, E448.2, E448.4, E448.5, H23.7, K40.1
<b>System 10: TURBINES; PUMP MECHANICAL POWER - PLATFORM ELLY</b>					
GAS TURBINE, NP-07-A, DIESEL FUEL, PROCESS GAS, SOLAR, MODEL SATURN MG1-SB, 2.9 MMBTU/HR WITH A/N: 516038  PUMP, WATER INJECTION	D95		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 65 PPMV PROCESS GAS (3) [RULE 2012, 5-6-2005]; NOX: 95 PPMV DIESEL (3) [RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 500 PPMV DIESEL (5) [RULE 407, 4-2-1982]	A63.8, B61.1, B61.2, D323.2
GAS TURBINE, NP-10-A, DIESEL FUEL, PROCESS GAS, SOLAR, MODEL SATURN MG1-SB, 2.9 MMBTU/HR WITH A/N: 516039  PUMP, WATER INJECTION	D96		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 65 PPMV PROCESS GAS (3) [RULE 2012, 5-6-2005]; NOX: 95 PPMV DIESEL (3) [RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 500 PPMV DIESEL (5) [RULE 407, 4-2-1982]	A63.8, B61.1, B61.2, D323.2

\* (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 BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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: INTERNAL COMBUSTION</b>					
GAS TURBINE, NP-10-B, DIESEL FUEL, PROCESS GAS, SOLAR, MODEL SATURN MG1-SB, 2.9 MMBTU/HR WITH A/N: 516040  PUMP, WATER INJECTION	D97		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 65 PPMV PROCESS GAS (3) [RULE 2012, 5-6-2005]; NOX: 95 PPMV DIESEL (3) [RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 500 PPMV DIESEL (5) [RULE 407, 4-2-1982]	A63.8, B61.1, B61.2, D323.2
<b>System 11: ELECTRICITY GENERATION - PLATFORM ELLY</b>					
GAS TURBINE, NJ-01-A, DIESEL FUEL, PROCESS GAS, SOLAR, MODEL CENTAUR GC1-CB-ID, 42 MMBTU/HR WITH A/N: 516041  GENERATOR, 2.5 MW  HEAT EXCHANGER, WASTE HEAT RECOVERY, 18 MM BTU/HR	D98		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 140 PPMV PROCESS GAS (3) [RULE 2012, 5-6-2005]; NOX: 180 PPMV DIESEL (3) [RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 500 PPMV DIESEL (5) [RULE 407, 4-2-1982]	A63.11, B61.1, B61.2, D371.1

- \* (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 BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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: INTERNAL COMBUSTION</b>					
GAS TURBINE, NJ-01-B, DIESEL FUEL, PROCESS GAS, SOLAR, MODEL CENTAUR GC1-CB-ID, 42 MMBTU/HR WITH A/N:  GENERATOR, 2.5 MW  HEAT EXCHANGER, WASTE HEAT RECOVERY, 18 MM BTU/HR	D99		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 PPMV PROCESS GAS (3) [RULE 2012, 5-6-2005]; NOX: 180 PPMV DIESEL (3) [RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 500 PPMV DIESEL (5) [RULE 407, 4-2-1982]	A63.11, B61.1, B61.2, D371.1
GAS TURBINE, NJ-01-C, DIESEL FUEL, PROCESS GAS, SOLAR, MODEL CENTAUR GC1-CB-ID, 42 MMBTU/HR WITH A/N: 516043  GENERATOR, 2.5 MW  HEAT EXCHANGER, WASTE HEAT RECOVERY, 18 MM BTU/HR	D100		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 140 PPMV PROCESS GAS (3) [RULE 2012, 5-6-2005]; NOX: 180 PPMV DIESEL (3) [RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 500 PPMV DIESEL (5) [RULE 407, 4-2-1982]	A63.11, B61.1, B61.2, D371.1

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

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

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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: INTERNAL COMBUSTION</b>					
GAS TURBINE, NJ-01-D, DIESEL FUEL, PROCESS GAS, SOLAR, MODEL MARS GS2-MA-ID, 87 MMBTU/HR WITH A/N: 516044  GENERATOR, 6.5 MW  HEAT EXCHANGER, WASTE HEAT RECOVERY, 29 MM BTU/HR	D101	S102	NOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.01 GRAINS/SCF (5A) [RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 11 LBS/HR (5B) [RULE 475, 8-7-1978]; SOX: 500 PPMV DIESEL (5) [RULE 407, 4-2-1982]	A63.10, A327.1, B61.1, B61.2, D328.1, D371.1, E313.1, E315.1, H421.2
STACK, MARS NJ-01-D A/N: 516044	S102	D101			
GAS TURBINE, NJ-01-E, DIESEL FUEL, PROCESS GAS, SOLAR, MODEL MARS GS2-MA-ID, 87 MMBTU/HR WITH A/N: 516046  GENERATOR, 6.5 MW  HEAT EXCHANGER, WASTE HEAT RECOVERY, 29 MM BTU/HR	D103	S104	NOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: 0.01 GRAINS/SCF (5A) [RULE 475, 8-7-1978]; PM: 11 LBS/HR (5B) [RULE 475, 8-7-1978]; SOX: 500 PPMV DIESEL (5) [RULE 407, 4-2-1982]	A63.10, A327.1, B61.1, B61.2, D328.1, D371.1, E313.1, E315.1, H421.2
STACK, MARS NJ-01-E A/N: 516046	S104	D103			
<b>Process 4: EXTERNAL COMBUSTION</b>					P13.1

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

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

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 4: EXTERNAL COMBUSTION</b>					P13.1
<b>System 1: FLARE - PLATFORM EUREKA</b>					
SCRUBBER, MBF-1106, RELIEF SCRUBBER, HEIGHT: 10 FT ; DIAMETER: 5 FT A/N: 516045	D105	D2 D3 D4 D5 D6 D7 D46 D47 D48 D68 C107			
SCRUBBER, MBF-3001, FLARE PILOT GAS SCRUBBER, HEIGHT: 5 FT ; DIAMETER: 1 FT A/N: 516045	D106	C107			
SCRUBBER, MBF-1200, LOW PRESSURE VENT SCRUBBER, HEIGHT: 4 FT 11 IN; DIAMETER: 10 IN A/N: 516045	D158	D8 D27 D28 D29 C107			
FLARE, ZOO-1620, EUREKA HIGH PRESSURE FLARE, PROCESS GAS, 33 MMSCFD, WITH A WASTE GAS PILOT BURNER A/N: 516045	C107	D105 D106 D158		CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D12.2, E71.1
<b>System 2: FLARE - PLATFORM ELLY</b>					
DRUM, V-10, HIGH PRESSURE FLARE DRUM, LENGTH: 10 FT ; DIAMETER: 6 FT A/N: 516047	D108	D1 D11 D12 D13 D14 D15 D16 D31 D50 D51 D52 D53 D54 D56 D57 D58 D61 D62 D63 D64 D65 C66 C67 D69 C109			
SCRUBBER, V-22, LOW PRESSURE VENT, HEIGHT: 5 FT ; DIAMETER: 10 IN A/N: 516047	D175	D22 D23 D24 D25 D26 D38 D39 D40 C109			

- |  |   |
|--|---|
| * (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 BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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 4: EXTERNAL COMBUSTION</b>					P13.1
FLARE, U-19, PROCESS GAS, ELLY HIGH PRESSURE FLARE, 19 MMSCFD, WITH A WASTE GAS PILOT BURNER A/N: 516047	C109	D108 D175		CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D12.2, E71.1
<b>Process 5: PETROLEUM STORAGE</b>					P13.1
<b>System 1: DIESEL STORAGE TANK - PLATFORM EUREKA</b>					
STORAGE TANK, FIXED ROOF, A-1, DIESEL FUEL, STORAGE LEG (DIA. RANGE 2FT. 10 IN TO 5FT 10 IN), 1000 BBL, HEIGHT: 48 FT A/N: 516049	D118				E127.1, H23.4, H23.6
<b>System 2: DIESEL STORAGE TANK - PLATFORM ELLY</b>					
STORAGE TANK, FIXED ROOF, S-10, DIESEL FUEL, 1200 BBL; WIDTH: 24 FT ; HEIGHT: 12 FT ; LENGTH: 24 FT A/N: 516048	D121				E127.1, H23.4, H23.6
<b>Process 6: FUGITIVE EMISSIONS</b>					
FUGITIVE EMISSIONS, COMPRESSORS A/N: 516018	D125				H23.2
FUGITIVE EMISSIONS, PUMPS A/N: 516016	D126				H23.2
FUGITIVE EMISSIONS, VALVES A/N: 516016	D127				H23.2
FUGITIVE EMISSIONS, PRV A/N: 516016	D128				H23.2
FUGITIVE EMISSIONS, FLANGES A/N: 516016	D129				H23.2
FUGITIVE EMISSIONS, DRAINS A/N: 516016	D130				H23.1

- \* (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 BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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: RULE 219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES</b>					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E176			VOC: (9) [RULE 1113, 7-13-2007; RULE 1171, 2-1-2008]	K67.1
RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, WET, AND ANY CONTROL EQUIPMENT	E177			PM: (9) [RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	D323.1
RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS	E178				H23.5
RULE 219 EXEMPT EQUIPMENT, WELL HEADS AND PUMPS, OIL AND GAS	E179				H23.2
RULE 219 EXEMPT EQUIPMENT, EXEMPT HAND WIPING OPERATIONS	E180			VOC: (9) [RULE 1171, 2-1-2008]	
RULE 219 EXEMPT EQUIPMENT, PARTS DEGREASER, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E181			VOC: (9) [RULE 1171, 2-1-2008]	H23.3
RULE 219 EXEMPT EQUIPMENT, PORTABLE MARINE COATING EQUIPMENT, COATING EQUIPMENT, LOW USE OR EMISSIONS	E182			VOC: (9) [RULE 1106, 1-13-1995; RULE 1171, 2-1-2008]	
RULE 219 EXEMPT EQUIPMENT, FIRE EXTINGUISHING EQUIPMENT USING HALONS	E183				

- \* (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  
BETA OFFSHORE**

**SECTION D: 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  
 BETA OFFSHORE  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1	1	1	1
D2	1	1	2
D3	1	1	2
D4	1	1	2
D5	2	1	2
D6	2	1	2
D7	2	1	2
D8	2	1	2
D9	3	1	3
D10	3	1	3
D11	3	1	3
D12	3	1	3
D13	3	1	3
D14	4	1	3
D15	4	1	3
D16	4	1	3
D17	4	1	3
D18	5	1	3
D19	5	1	3
D20	5	1	3
D21	5	1	3
D22	5	1	4
D23	5	1	4
D24	6	1	4
D25	6	1	4
D26	6	1	4
D27	6	1	5
D28	6	1	5
D29	6	1	5
D30	6	1	5
D31	7	1	6
D32	7	1	6
D33	7	1	6
D34	7	1	6
D35	7	1	6

**FACILITY PERMIT TO OPERATE  
 BETA OFFSHORE  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D36	8	1	6
D37	8	1	6
D38	8	1	6
D39	8	1	6
D40	8	1	6
D41	8	1	6
D42	9	1	6
D43	9	1	6
D44	9	1	6
D45	10	1	8
D46	9	1	7
D47	10	1	7
D48	10	1	7
D49	10	1	7
D50	12	1	8
D51	12	1	8
D52	10	1	8
D53	11	1	8
D54	11	1	8
D55	11	1	8
D56	11	1	8
D57	11	1	8
D58	11	1	8
D59	12	1	8
D60	12	1	8
D61	12	1	8
D62	12	1	8
D63	12	1	8
D64	13	2	0
D65	13	2	0
C66	13	2	0
C67	13	2	0
D68	9	1	7
D69	13	2	0
D76	14	3	1

**FACILITY PERMIT TO OPERATE  
 BETA OFFSHORE  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D77	14	3	2
D78	14	3	2
D79	15	3	3
D80	15	3	3
D81	15	3	4
D82	16	3	4
D83	16	3	4
D84	16	3	5
D85	17	3	5
D86	17	3	5
D87	17	3	6
D88	18	3	7
D89	18	3	7
D90	18	3	7
D91	17	3	6
D92	18	3	8
D93	19	3	8
D95	19	3	10
D96	19	3	10
D97	20	3	10
D98	20	3	11
D99	21	3	11
D100	21	3	11
D101	22	3	11
S102	22	3	11
D103	22	3	11
S104	22	3	11
D105	23	4	1
D106	23	4	1
C107	23	4	1
D108	23	4	2
C109	24	4	2
D118	24	5	1
D121	24	5	2
D125	24	6	0

**FACILITY PERMIT TO OPERATE  
 BETA OFFSHORE  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D126	24	6	0
D127	24	6	0
D128	24	6	0
D129	24	6	0
D130	24	6	0
D158	23	4	1
D159	2	1	2
D160	9	1	6
D172	7	1	6
D173	7	1	6
D175	23	4	2
E176	25	7	0
E177	25	7	0
E178	25	7	0
E179	25	7	0
E180	25	7	0
E181	25	7	0
E182	25	7	0
E183	25	7	0

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

#### FACILITY CONDITIONS

F2.1 The operator shall limit emissions from this facility as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 14337 LBS IN ANY ONE DAY
PM	Less than or equal to 1292 LBS IN ANY ONE DAY
ROG	Less than or equal to 3251 LBS IN ANY ONE DAY
SOX	Less than or equal to 532 LBS IN ANY ONE DAY
NOX	Less than or equal to 2017 LBS IN ANY ONE DAY

For the purpose of this condition, the CO emission limit shall be the maximum daily potential to emit which also includes emissions from the platform support vessels.

For the purpose of this condition, the PM emission limit shall be the maximum daily potential to emit which also includes emissions from the platform support vessels.

For the purpose of this condition, the ROG emission limit shall be the maximum daily potential to emit which also includes emissions from the platform support vessels and the fugitive sources.

For the purpose of this condition, the SOx emission limit shall be the maximum daily potential to emit which also includes emissions from the platform support vessels.

For the purpose of this condition, the NOx emission limit shall be the maximum daily potential to emit from the flares, work and crew boats only.

[RULE 1183, 3-12-1993]

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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, 11-9-2001]

F14.1 The operator shall not use fuel oil containing sulfur compounds in excess of 0.05 percent by weight.

[RULE 431.2, 9-15-2000]

F14.2 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

The MSDS shall be made available to AQMD upon request

[RULE 431.2, 9-15-2000]

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

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- platform support vessels operating hours
- support vessels fuel type and usage
- date and time of operation of support vessels
- activity associated with vessels operation

[RULE 1183, 3-12-1993]

#### 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
VOC	District Rule	1173

[RULE 1173, 6-1-2007]

[Processes subject to this condition : 2, 4, 5]

#### SYSTEM CONDITIONS

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	1173

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1173, 6-1-2007]

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

#### DEVICE CONDITIONS

##### A. Emission Limits

A63.2 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 84.95 LBS PER DAY
PM	Less than or equal to 27.9 LBS PER DAY
ROG	Less than or equal to 31.2 LBS PER DAY
SOX	Less than or equal to 5.91 LBS PER DAY

[RULE 1303(b)(2)-Offset, 12-6-2002; 40CFR 55 OCS, 9-4-1992]

[Devices subject to this condition : D76, D77]

A63.3 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 83.23 LBS PER DAY
PM	Less than or equal to 27.34 LBS PER DAY
ROG	Less than or equal to 30.6 LBS PER DAY
SOX	Less than or equal to 5.79 LBS PER DAY

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1303(b)(2)-Offset, 12-6-2002; 40CFR 55 OCS, 9-4-1992]

[Devices subject to this condition : D78]

A63.4 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 102.1 LBS PER DAY
PM	Less than or equal to 33.53 LBS PER DAY
ROG	Less than or equal to 37.53 LBS PER DAY
SOX	Less than or equal to 7.11 LBS PER DAY

[RULE 1303(b)(2)-Offset, 12-6-2002; 40CFR 55 OCS, 9-4-1992]

[Devices subject to this condition : D79]

A63.5 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 20.81 LBS PER DAY
PM	Less than or equal to 6.83 LBS PER DAY
ROG	Less than or equal to 7.65 LBS PER DAY
SOX	Less than or equal to 1.45 LBS PER DAY

[RULE 1303(b)(2)-Offset, 12-6-2002; 40CFR 55 OCS, 9-4-1992]

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D80]

A63.6 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 171.4 LBS PER DAY
PM	Less than or equal to 8.4 LBS PER DAY
ROG	Less than or equal to 33.7 LBS PER DAY
SOX	Less than or equal to 1.8 LBS PER DAY

[RULE 1303(b)(2)-Offset, 12-6-2002; 40CFR 55 OCS, 9-4-1992]

[Devices subject to this condition : D87, D88, D89, D90, D91, D92, D93]

A63.8 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 409 LBS PER DAY
PM	Less than or equal to 22.3 LBS PER DAY
ROG	Less than or equal to 16.3 LBS PER DAY
SOX	Less than or equal to 17.9 LBS PER DAY

[RULE 1303(b)(2)-Offset, 12-6-2002; 40CFR 55 OCS, 9-4-1992]

[Devices subject to this condition : D95, D96, D97]

A63.9 The operator shall limit emissions from this equipment as follows:

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 794.6 LBS PER DAY
PM	Less than or equal to 38.8 LBS PER DAY
ROG	Less than or equal to 156.4 LBS PER DAY
SOX	Less than or equal to 8.2 LBS PER DAY

[RULE 1303(b)(2)-Offset, 12-6-2002; 40CFR 55 OCS, 9-4-1992]

[Devices subject to this condition : D81, D82, D83, D84, D85, D86]

A63.10 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 230.4 LBS PER DAY
PM	Less than or equal to 127.7 LBS PER DAY
ROG	Less than or equal to 96.6 LBS PER DAY
SOX	Less than or equal to 102.5 LBS PER DAY

[RULE 1303(b)(2)-Offset, 12-6-2002; 40CFR 55 OCS, 9-4-1992]

[Devices subject to this condition : D101, D103]

A63.11 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 110.6 LBS PER DAY

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

PM	Less than or equal to 61.7 LBS PER DAY
ROG	Less than or equal to 24.1 LBS PER DAY
SOX	Less than or equal to 49.5 LBS PER DAY

[RULE 1303(b)(2)-Offset, 12-6-2002; 40CFR 55 OCS, 9-4-1992]

[Devices subject to this condition : D98, D99, D100]

A327.1 For the purpose of determining compliance with District Rule 475, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

[RULE 475, 8-7-1978]

[Devices subject to this condition : D101, D103]

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

B61.1 The operator shall not use process gas containing the following specified compounds:

Compound	ppm by volume
H2S content greater than	3

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

[Devices subject to this condition : D95, D96, D97, D98, D99, D100, D101, D103]

B61.2 The operator shall not use process gas containing the following specified compounds:

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Compound	ppm by volume
sulfur compounds calculated as hydrogen sulfide greater than	40

The 40 ppm limit shall be averaged over a 4-hour period.

[RULE 431.1, 6-12-1998]

[Devices subject to this condition : D95, D96, D97, D98, D99, D100, D101, D103]

#### C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

The purpose(s) of this condition is to ensure that this equipment qualifies as an emergency standby generator.

The purpose(s) of this condition is to ensure that D76, D77, D78, and D79 qualify as a NOx process unit.

[RULE 1110.2, 2-1-2008; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;  
RULE 2012, 5-6-2005]

[Devices subject to this condition : D76, D77, D78, D79, D80]

C1.3 The operator shall limit the operating time to no more than 500 hour(s) in any one year.

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The purpose(s) of this condition is to exempt the engine from the VOC limit of 30 ppmvd and the CO limit of 250 ppmvd, both corrected to 15% O<sub>2</sub>, effective 7/1/2011, pursuant to Rule 1110.2(d)(1)(B)(ii).

The engine shall emit no more than 250 ppmvd of VOC and 2000 ppmvd of CO, both corrected to 15% O<sub>2</sub>.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the equipment.

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

[RULE 1110.2, 2-1-2008]

[Devices subject to this condition : D87, D88, D89, D90, D91, D92, D93]

#### D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 2-1-2008; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;  
RULE 2012, 5-6-2005]

[Devices subject to this condition : D76, D77, D78, D79, D80]

D12.2 The operator shall install and maintain a(n) infrared flame detector to accurately indicate the presence of a flame at the flare pilot.

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

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : C107, C109]

D12.4 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the exhaust at the inlet to the oxidation catalyst.

The temperature of the engine exhaust at the inlet of the catalyst shall be between 480 and 1380 degrees F, inclusive.

The temperature range requirement of this condition shall not apply during start-up operations of the engine not to exceed 30 minutes per start-up.

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

[Devices subject to this condition : D93]

D12.6 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the exhaust at the inlet to the oxidization catalyst.

The temperature of the engine exhaust at the inlet of the catalyst shall be between 465 and 1250 degrees F, inclusive.

The temperature range requirement of this condition shall not apply during start-up operations of the engine not to exceed 30 minutes per start-up.

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

[Devices subject to this condition : D81]

D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

## **FACILITY PERMIT TO OPERATE BETA OFFSHORE**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

The test shall be conducted to determine the VOC emissions at the outlet.

The test shall be conducted to determine the CO emissions at the outlet.

The test shall be conducted in compliance with the source testing requirements of Rule 1110.2(f)(1)(C).

The test shall be conducted in accordance with an AQMD approved protocol.

The test shall be conducted to demonstrate compliance with Rule 1110.2.

[RULE 1110.2, 2-1-2008; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D81, D82, D83, D84, D85, D86, D87, D88, D89, D90, D91, D92, D93]

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D323.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

## **FACILITY PERMIT TO OPERATE BETA OFFSHORE**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

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

**[Devices subject to this condition : E177]**

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D323.2 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period, or the equipment did not burn fuel oil during the entire period. The routine semi-annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

## **FACILITY PERMIT TO OPERATE BETA OFFSHORE**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

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

[Devices subject to this condition : D95, D96, D97]

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D323.3 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a quarterly basis, at least, unless the equipment did not operate during the entire quarterly period. The routine quarterly inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

## **FACILITY PERMIT TO OPERATE BETA OFFSHORE**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

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

[Devices subject to this condition : D81, D82, D83, D84, D85, D86, D87, D88, D89, D90, D91, D92, D93]

D328.1 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 407 emission limit. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

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

[Devices subject to this condition : D101, D103]

## **FACILITY PERMIT TO OPERATE BETA OFFSHORE**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

D371.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment on an annual basis whenever this equipment is fired on fuel oil for training/testing purposes; and after every 400 cumulative hours of operation on diesel fuel or after every two million gallons of diesel fuel combusted, to be counted cumulatively over a five year period. The inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall:

Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three working days (or during the next fuel oil firing period if the unit ceases firing on fuel oil within the three working day time frame) and report any deviations to AQMD.

In addition, the operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- a). Stack or emission point identification;
- b). Description of any corrective actions taken to abate visible emissions;
- c). Date and time visible emission was abated; and
- d). Visible emission observation record by a certified smoke reader.

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

[Devices subject to this condition : D98, D99, D100, D101, D103]

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

E17.1 The operator shall not use more than 1 of the following items simultaneously:

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Device ID: D56 [Scrubber]

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

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

[Devices subject to this condition : D56]

E71.1 The operator shall only use this equipment during process upset, emergency situation and/or safety concern of operating personnel and equipment.

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

[Devices subject to this condition : C107, C109]

E127.1 The operator shall keep gauge/sample hatches closed except during actual gauging/sampling operations.

[RULE 463, 5-6-2005]

[Devices subject to this condition : D8, D17, D18, D19, D20, D32, D33, D37, D44, D118, D121]

E127.2 The operator shall keep gauge/sample hatches closed except during actual gauging/sampling operations.

[RULE 1176, 9-13-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D22, D23, D24, D25, D26, D27, D28, D29, D36, D38, D39, D40, D41, D42, D43, D172, D173]

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E193.1 The operator shall construct, operate, and maintain this equipment according to the following requirements:

The operator shall install and maintain an engine backpressure gauge to accurately indicate the engine backpressure.

The engine backpressure shall not exceed 44 inches water column.

The catalyst shall be cleaned or replaced if the engine backpressure exceeds the recommended limit.

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

[Devices subject to this condition : D93]

E193.2 The operator shall construct, operate, and maintain this equipment according to the following requirements:

The engine shall install and maintain an engine backpressure gauge to accurately indicate the engine backpressure.

The engine backpressure shall not exceed 27 inches water column.

The catalyst shall be cleaned or replaced if the engine backpressure exceeds the recommended limit.

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

[Devices subject to this condition : D81]

## **FACILITY PERMIT TO OPERATE BETA OFFSHORE**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

E313.1 This device is classified as a non-operated major NOx source as defined under Rule 2012 and shall not be operated unless the Facility Permit holder provides written notification to the Executive Officer 30 days prior to starting operation. In order to maintain the non-operational classification, the Facility Permit holder shall:

(a) Remove a section of the fuel feed line(s) to the device and place a blind flange on both ends of the fuel feed line(s); and

(b) Remove a section of the process feed line(s) and place a blind flange on both ends of the process feed line(s).

Removal of parts or components solely to qualify the device for non-operated classification pursuant to this condition, or replacement of the same removed parts or components resulting in the device no longer being classified as non-operated shall not be deemed to affect the potential to emit within the meanings of Rule 2005, Regulation XIII and Regulation XXX.

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

[Devices subject to this condition : D101, D103]

E315.1 Once this device is operated, it shall no longer be classified as non-operational. This device shall also meet the monitoring requirements of Rule 2012, subparagraph (c)(2)(A) or (c)(2)(B) no later than 30 calendar days after the start of operation except as provided in Rule 2012, paragraph (c)(10).

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

[Devices subject to this condition : D101, D103]

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

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

To comply with Rule 1176, the VOC content of each liquid stream entering each device shall not exceed at all times 5 mg per liter.

**[RULE 1176, 9-13-1996]**

[Devices subject to this condition : D34, D35, D43, D172, D173]

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

Maintain a quarterly engine operating log that includes:

- A. Total hours of operation;
- B. Type of liquid fuel;
- C. Fuel consumption (gallons of liquid); and
- D. Cumulative hours of operation since the last source test required in Rule 1110.2(f)(1)(C).

**[RULE 1110.2, 2-1-2008]**

[Devices subject to this condition : D87, D88, D89, D90, D91, D92, D93]

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

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Maintain a monthly engine operating log that includes:

- A. Total hours of operation;
- B. Type of liquid fuel;
- C. Fuel consumption (gallons of liquid); and
- D. Cumulative hours of operation since the last source test required in Rule 1110.2(f)(1)(C).

[RULE 1110.2, 2-1-2008]

[Devices subject to this condition : D81]

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

The operator shall comply with the requirements of the Inspection and Monitoring (I&M) plan.

[RULE 1110.2, 2-1-2008]

[Devices subject to this condition : D81, D87, D88, D89, D90, D91, D92, D93]

**E448.5 The operator shall comply with the following requirements:**

The operator shall comply with the reporting requirements of Rule 1110.2(f)(1)(H) pertaining to any equipment breakdown that results in emissions in excess of rule or permit emission limits for VOC or CO.

[RULE 1110.2, 2-1-2008]

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D81, D87, D88, D89, D90, D91, D92, D93]

#### H. Applicable Rules

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176

[RULE 1176, 9-13-1996]

[Devices subject to this condition : D22, D23, D24, D25, D26, D27, D28, D29, D31, D34, D35, D36, D38, D39, D40, D41, D42, D43, D130, D172, D173]

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173

[RULE 1173, 6-1-2007]

[Devices subject to this condition : D125, D126, D127, D128, D129, E179]

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

**[RULE 1122, 10-1-2004]**

[Devices subject to this condition : E181]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1149

**[RULE 1149, 5-2-2008]**

[Devices subject to this condition : D8, D17, D18, D19, D20, D32, D33, D37, D44, D118, D121]

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

Contaminant	Rule	Rule/Subpart
Refrigerants	40CFR82, SUBPART	F

**[40CFR 82 Subpart F, 5-14-1993]**

[Devices subject to this condition : E178]

H23.6 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

**[RULE 463, 5-6-2005]**

[Devices subject to this condition : D8, D17, D18, D19, D20, D32, D33, D37, D44, D118, D121]

H23.7 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
CO	District Rule	1110.2
VOC	District Rule	1110.2

**[RULE 1110.2, 2-1-2008]**

[Devices subject to this condition : D81, D87, D88, D89, D90, D91, D92, D93]

H421.2 The operator shall determine compliance with Rule 475 by complying with the tune-up requirements of Rule 2012, whenever the annual fuel oil usage exceeds 1 MM gallons in any one year or the hours of operations on fuel oil exceeds 336 hours in any one year. If annual fuel oil usage exceeds 2 MM gallons in any one year, the operator shall also conduct a source test to determine PM emissions using District method 5.1 measured over a 15 minute averaging time period at least once every five years and with this equipment fired on fuel oil and operating at normal load.

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

[Devices subject to this condition : D101, D103]

#### **K. Record Keeping/Reporting**

## FACILITY PERMIT TO OPERATE BETA OFFSHORE

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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.

All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute (DACFM).

Emission data shall be expressed in terms of mass rate (lbs/hr). In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains per DSCF.

Emission data shall be expressed in terms of concentration (ppmv), corrected to 15 percent oxygen, dry basis.

[RULE 1110.2, 2-1-2008; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D81, D82, D83, D84, D85, D86, D87, D88, D89, D90, D91, D92, D93]

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

## **FACILITY PERMIT TO OPERATE BETA OFFSHORE**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

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

[Devices subject to this condition : E176]

<b>SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT</b> <b>ENGINEERING &amp; COMPLIANCE</b> <b>APPLICATION PROCESSING AND CALCULATIONS</b>	PAGES 6	PAGE NO. 1
	APPL. NO. See below	DATE 4/21/2012
	PROCESSED BY M VIBAL	CHECKED BY

**EVALUATION REPORT FOR PERMIT TO OPERATE**  
 Change of Condition and Minor Revision of RECLAIM /Title V Facility Permit  
 Facility Permit Revision No. 6

**APPLICANT'S NAME:** Beta Offshore (Fac. ID 166073)

**MAILING ADDRESS:** 111 West Ocean Blvd. Ste. 1240  
Long Beach, CA 90802-4645

**EQUIPMENT LOCATION:** OCS Lease Parcels P300/P301  
Federal Waters

**CONTACT :** Marina Robertson  
HSE & Regulatory Manager  
Tel: (562) 683-3497

**EQUIPMENT DESCRIPTION**

**A/N 531454** Minor Revision of the RECLAIM/Title V Facility Permit

**A/N 531455** Change of Condition to Increase RECLAIM NOx concentration limit for Device D99 (dual-fired gas turbine) from 110 ppmv to 130 ppmv (both at 15% O<sub>2</sub>, dry) when fired on process gas.

**SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

Equipment	ID No.	Connected to	Source Type	Emissions	Equipment Specific Condition
<b>PROCESS 3:- INTERNAL COMBUSTION</b>					
<b>System 11:- ELECTRICITY GENERATION – PLATFORM ELLY</b>					
Gas Turbine, NJ-01-B, diesel fuel, Process Gas, Solar, Model Centaur GC1-CB-1D, 42 MMBtu/hr with  A/N 516042 531455  Generator, 2.5 MW  Heat Exchanger, Waste Heat Recovery, 18 MMBTU/hr	D99		NOX: Large Source	CO: 2000 ppmv (5)[Rule 407,4-2-1982]; NOx: <del>110</del> 130 ppmv process gas (3) [Rule 2012, 5-6-2005]; NOx: 180 ppmv diesel (3) [Rule 2012, 5-2005]; PM: 0.1 Grains/scf (5) [RULE 409,8-7-1981]; SOx: 500 ppmv diesel (5)[Rule 407, 4-2-1982]	A63.11, B61.1, B61.2, D371.1

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- (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

- (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.)  
(9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

### **BACKGROUND/PROCESS DESCRIPTION**

Beta Offshore is a crude oil and gas production facility located in Federal Waters. They hold a 100% working interest on parcels OCS P 0300 and P0301 which are covered under facility ID 166073. This BETA field lies 13 miles south of Long Beach, California. Beta Offshore operates three platforms as part of the Beta production unit at this site : 80-slot platform Ellen and processing platform Elly which were installed in 1980, and 60-slot platform Eureka installed in 1984. Platforms Ellen and Elly are located on the Outer Continental Shelf (OCS) and connected by a bridge. They are on parcel P 0300. Platform Eureka is also in the OCS on parcel P0301.

Beta Offshore's oil is produced from wells located on Platforms Ellen and Eureka. The oil is processed in facilities located on platform Elly. Reservoir fluids produced on Ellen are transported to Elly via a 12" line which is supported by the bridge between the two platforms. Reservoir fluids produced on Eureka are transported to Elly in a 6" subsea pipeline connecting the two platforms.

The electric power for Beta Offshore's three platforms is generated with turbine-driven generators located on platform Elly (turbines : three Solar Centaur – D98, D99 and D100, and three Solar Saturn - D95, D96 and D97. D97 is out of service. Dxx represents the facility device number in the Reclaim/Title V permit). Power from these generators is distributed from Elly to Platform Eureka by subsea cables and to Platform Ellen by standard high voltage cables. Three water injection turbines on Platform Elly are gas-fired. Two drilling workover rigs on Ellen and Eureka are diesel electric and the seven cranes are diesel-fired.

In order to conserve energy, waste heat from the turbine exhaust at Elly is recovered and utilized in a series of heat exchangers and vessels located on Elly to assist in separating the produced oil and water streams. The combined Beta Offshore/DCOR oil stream is metered and shipped via pipeline to an onshore pumping station in Long Beach, California where it is distributed to various Los Angeles area refineries. After being separated from the oil, produced water is further treated, pressurized and transported via pipeline across the bridge to Ellen where it is re-injected into the reservoir to implement a water flood and improve recovery efficiency. The sales line to shore is operated by Beta Offshore for the San Pedro Bay Pipeline Company.<sup>1</sup>

Beta Offshore is a major source and operates under both the RECLAIM (for NOx) and Title V permitting programs. All the turbines mentioned previously are classified as "NOx large sources" and require triennial source tests per Rule 2012(j)(2). Beta Offshore submitted a petition for an ex parte emergency variance on Dec. 30, 2011 for a failed source test. The copy of the petition, case no. 5855-1 is included in the file. Preliminary test results provided by the testing company, Almega Environmental, showed that the Solar Centaur turbine D99 failed the test for NOx using process gas as fuel. The NOx RECLAIM concentration limit is set at 110 ppmv and the test showed 115 ppmv

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(measured dry at 15% O<sub>2</sub>). Beta Offshore provided a summary of this testing that Almega Environmental conducted on Dec. 29, 2011 for D99 (copy in the file). The final result showed a reading of 116.36 ppmvd at 15% O<sub>2</sub> with process gas as fuel. Beta Offshore also called in a breakdown notification (293018) on Dec. 29, 2011 within the one hour required by Rule 2004(i)(1)(A).

AQMD Source Test staff confirmed that they accept test results with an allowance for accuracy of +/- 10%, but may require a re-test. The results, however, are not considered as "failed" tests. According to Supervising Inspector Rafael Reynosa (per T/C on Jan. 31, 2012), compliance staff will not pursue enforcement action on the matter since the NO<sub>x</sub> reading conformed to the allowable threshold for accuracy. In order to prevent any future violations of the RECLAIM NO<sub>x</sub> concentration limit on D99 for process gas, Beta Offshore decided to file the referenced permit applications. The company requests to increase the RECLAIM NO<sub>x</sub> concentration limit on D99 from 110 ppmv to 130 ppmv, measured dry at 15% O<sub>2</sub> using process gas as fuel.

Pacific Energy Resources, Ltd. (PERL), Fac. ID 151178, previously owned OCS Lease Parcels P300/P301 and operated the Beta Unit Complex. PERL applied to lower the NO<sub>x</sub> RECLAIM concentration limit for turbine D99 when operating on process gas from 140 ppmv to 110 ppmv (current limit), both measured dry at 15% O<sub>2</sub>. The facility permit to lower the said NO<sub>x</sub> concentration limit (498831) was approved on July 1, 2009. The application was processed by Permit Engr. Vicky Lee. The permit evaluation is in the file. According to Reclaim Sr. Engr. Don Nguyen and Reclaim Engineer Susan Tsai (meeting on Feb. 1, 2012), the requested change to increase the current NO<sub>x</sub> concentration limit for turbine D99 operating on process gas to 130 ppmvd measured dry at 15% O<sub>2</sub>, will not trigger a RECLAIM NSR emission increase. The initial RECLAIM Title V permit, 466784, had a NO<sub>x</sub> RECLAIM concentration limit of 140 ppmvd at 15% O<sub>2</sub> for turbine D99 using process gas as fuel. As long as the requested limit does not exceed the original, there will be no RECLAIM NSR emission changes for NO<sub>x</sub>.

Rule 2012(f)(3) provides that a facility permit holder may apply to amend the concentration limit for a large source, provided the large source complies with that limit over any continuous 60 minutes. Source tests performed in Aug. 11, 2005, Nov. 25, 2008 and Jan. 12, 2012 show that Solar Centaur turbine D99 has NO<sub>x</sub> concentrations below the requested limit of 130 ppmvd 15% O<sub>2</sub> while running on process gas. Below is a summary of the emission readings obtained from these source tests.

Date of Source Test	NO <sub>x</sub> emission, ppmvd at 15% O <sub>2</sub> using process gas as fuel
08/11/2005	103.3
11/25/2008	96.1
01/12/2012	116

The referenced permit applications were filed on Jan. 24, 2012. Beta Offshore is requesting expedited processing on the applications. The company paid the following processing fees.

Eqpt. Description	B-Cat No.	Processing Fees	Expedited Fees	Fees Paid
Facility Permit Amendment, RECLAIM/Title V	555009	\$1,747.19	-	\$1,747.19
Turbine Engine, ≤ 50 MW, NG/PG, Diesel	053208	\$3,114.35	\$1,557.18	\$4,671.53

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### COMPLIANCE REVIEW

The most recent compliance inspection conducted for Beta Offshore was on Nov. 23, 2011. There are three violation notices on record issued to Beta Offshore within the last two years, as shown in the attached NOV/NC Report Summary. Said violation notices have been resolved and complied with.

### EMISSION CALCULATIONS

The change requested by the applicant does not result in any emission increase or decrease. Since the original facility permit limited the NO<sub>x</sub> RECLAIM emission concentration limit to 140 ppmvd and, the requested limit is 130 ppmvd, this has no immediate impact on the RECLAIM NSR emissions. Although the current limit is 110 ppmvd, the requested emission concentration limit is still below the original limit. All concentration limits are measured at 15% O<sub>2</sub> using process gas as fuel. The emissions that will be entered in the NSR database for this permit application will be the same as in the previous application, 516042 and are shown below in Table 1. The equipment will be used 24 hrs/day, 7 days/wk, 52 wks/yr.

**Table 1. Controlled emissions from the Centaur Turbine D99**

Pollutant	lbs/hr	lbs/day <sup>(a)</sup>	lbs/yr <sup>(b)</sup>
CO	4.63	111.12	4056
NO <sub>x</sub>	19.7	472.8	17,257.2
PM <sub>10</sub>	2.58	61.92	22,601
ROG	1	24	8,760
SO <sub>x</sub>	2.08	50	18,250

<sup>(a)</sup> daily emissions = hourly emissions x 24

<sup>(b)</sup> annual emissions = daily emissions x 365

The uncontrolled emissions that will be entered in the NSR database are the same as the controlled emissions.

The proposed change of condition does not result in a net increase of emissions.

### RULES EVALUATION

#### RULE 212-STANDARDS FOR APPROVING PERMITS AND ISSUING PUBLIC NOTICES

Rule 212 requires that a person shall not build, erect, install, alter, or replace any equipment, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants without first obtaining written authorization for such construction from the Executive Officer. Rule 212(c) states that a project requires written notification if there is an emission increase for ANY criteria pollutant in excess of the daily maximums specified in Rule 212(g), if the equipment is located within 1,000 feet of the outer boundary of a school, or if the MICR is equal to or greater than one in a million ( $1 \times 10^{-6}$ ) during a lifetime (70 years) for facilities with more than one

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permitted unit, source under Regulation XX, or equipment under Regulation XXX, unless the applicant demonstrates to the satisfaction of the Executive Officer that the total facility-wide maximum individual cancer risk is below ten in a million ( $10 \times 10^{-6}$ ) using the risk assessment procedures and toxic air contaminants specified under Rule 1402; or, ten in a million ( $10 \times 10^{-6}$ ) during a lifetime (70 years) for facilities with a single permitted unit, source under Regulation XX, or equipment under Regulation XXX.

The requested change in condition to revise the NOx concentration limits in the Facility Permit to Operate does not result in an increase of any emissions. The application does not require any public notice per subsections (c)(1), (c)(2) and (c)(3).

**REGULATION XIII – NEW SOURCE REVIEW**

**RULE 1303(a) – BACT (Best Available Control Technology)**

The Executive Officer shall deny the Permit to Construct for any new source which results in an emission increase of any non-attainment air contaminant, any ozone depleting compound, or ammonia unless the applicant can demonstrate that BACT is employed for the new source. The requested change of condition is not expected to result in an increase in emissions; therefore, BACT requirements are not triggered.

**RULE 1303(b)(1) – MODELING**

The only criteria pollutant of concern is ROG; since modeling is not required for ROG, Rule 1303(b)(1) is not applicable.

**RULE 1303(b)(2) – OFFSETS**

1303(b)(2) – Emission Offsets. The proposed change of condition does not result in an increase of any emissions. The offset requirements of Rule 1303 are not triggered.

**REGULATION XX – REGIONAL CLEAN AIR INCENTIVES MARKET (RECLAIM)**

Beta Offshore is under the Regional Clean Air Incentives Market (RECLAIM) program. The requirements of this regulation apply to the facility.

**RULE 2012- REQUIREMENTS FOR MONITORING, REPORTING, AND RECORDKEEPING FOR OXIDES OF NITROGEN (NOx) EMISSIONS**

Subsection (f)(3) states:

“A Facility Permit holder may apply to the Executive Officer or designee to amend the concentration limit or equipment-specific emission rate for a large source, or to amend the emission factor to a concentration limit, equipment-specific emission rate, or category-specific emission rate for a process unit, in the Facility Permit, at any time. If the applicant demonstrates to the Executive Officer or designee that the equipment-specific or category-specific emission rate is reliable, accurate and representative for the purpose of calculating NOx emissions, the Executive Officer or designee will amend the Facility Permit to incorporate the equipment-specific or category-specific emission rate. No demonstration will be required to amend the Facility Permit to incorporate the alternative concentration limit, provided the large source or process unit complies with

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that limit in ppm over any continuous 60 minutes. The alternative concentration limit or equipment-specific emission rate for a large source, and the concentration limit, equipment-specific emission rate, or category-specific emission rate for a process unit, shall take effect prospectively from the date the Facility Permit is amended.”

Subsection (j)(2) requires every large NOx source to be source-tested every three years. Turbine D99 was source-tested in 2005, 2008 and 2012. The NOx testing used the SCAQMD test method 100.1 with a duration of 60 minutes. The source test results provided by the applicant support the proposed NOx concentration limit of 130 ppmvd measured at 15% O<sub>2</sub> using process gas as fuel.

**REGULATION XXX – TITLE V PERMITS**

Beta Offshore is also operating under the federal Title V program. The requirements of this regulation apply to the facility. Beta Offshore was issued its Initial Title V permit on March 12, 2010 and is valid through March 11, 2015. The proposed change of condition required Beta Offshore to file for a Title V permit revision per Rule 3002(a). Per Rule 3000 (b)(15), the change of condition is classified as a minor revision to the Title V facility permit because there are no increase in emissions of any contaminants. Public participation is not required as provided under the exemptions of Rule 3006(b). Rule 3003(i)(4)(C) - Notification requirement to the affected states is not necessary as the facility is not located within 50 miles of the nearby states. The modified facility complies with all applicable rules and regulations of the South Coast AQMD. The EPA administrator will be provided with the copy of the permit for a 45-day review as required under Rule 3003(j). The revised Title V permit will be issued to Beta Offshore after completion of the required EPA review and any necessary follow-up.

**RECOMMENDATIONS**

The application is expected to comply with all applicable District Rules and Regulations. It is recommended that the Permit to Operate be issued to the facility with the permit conditions set forth above.

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<sup>1</sup> From Beta Offshore website, [www.betaoffshore.com](http://www.betaoffshore.com)