



# South Coast Air Quality Management District

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

May 21, 2015

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

Dear Mr. *Gerardo,*

**Subject: Linn Operating, Inc. (ID 151532) - Title V Permit Revision**

Linn Operating, Inc. is an oil and gas production facility located in Brea, CA. They are proposing to revise their Title V permit under Application No. 531400 by the following actions :

Appl. No.	Device No.	Section No.	Proposed action
531398	D22 up to D27. D127 D203, D204, D205, D207.	D	Update equipment description. Delete. Equipment removed from service. Added to the facility permit
538706	C202	D	Move from Sect. H to Sect. D (Permit to Construct converted to Permit to Operate).
509255	C201	D	Delete. Equipment removed from service.

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.

Sincerely,

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

WCT:MH:MV  
Enclosures

**FACILITY PERMIT TO OPERATE  
 LINN OPERATING, INC**

**SECTION A: FACILITY INFORMATION**

**LEGAL OWNER &/OR OPERATOR:** LINN OPERATING, INC

**LEGAL OPERATOR (if different than owner):**

**EQUIPMENT LOCATION:** 500 N KRAEMER BLVD  
 BREA, CA 92821

**MAILING ADDRESS:** 2000 TONNER CANYON RD  
 BREA, CA 92821

**RESPONSIBLE OFFICIAL:** SCOTT SCHULTE

**TITLE:** OPERATIONS SUPERINTENDENT

**TELEPHONE NUMBER:** (714) 257-1606

**CONTACT PERSON:** VINCE VANDELLEN

**TITLE:** EH & S REPRESENTATIVE

**TELEPHONE NUMBER:** (714) 257-1604

**TITLE V PERMIT ISSUED:** September 02, 2011

**TITLE V PERMIT EXPIRATION DATE:** September 01, 2016

<b>TITLE V</b>	<b>RECLAIM</b>
<b>YES</b>	<b>NOx: YES</b> <b>SOx: NO</b> <b>CYCLE: 2</b> <b>ZONE: COASTAL</b>

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

### 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/GAS/WATER SEPARATION</b>					
<b>System 1: TONNER STEARNS TANK FARM</b>					
VESSEL, GAS BOOT, HEIGHT: 28 FT ; DIAMETER: 2 FT A/N:	D22	D23			
TANK, STOCK, T-100, FIXED ROOF, 3000 BBL; DIAMETER: 29 FT 8.63 IN; HEIGHT: 24 FT 1.5 IN A/N:	D23	D22 D41			E127.1, H23.5, H116.1
TANK, CLARIFIER, T-200, FIXED ROOF, 2000 BBL; DIAMETER: 29 FT 8.63 IN; HEIGHT: 16 FT 1 IN A/N:	D24	D41			E127.1, H23.5, H116.1
TANK, CLARIFIER, T-300, FIXED ROOF, 2000 BBL; DIAMETER: 29 FT 8.63 IN; HEIGHT: 16 FT 1 IN A/N:	D25	D41			E127.1, H23.5, H116.1
TANK, REJECT, T-400, FIXED ROOF, 1500 BBL; DIAMETER: 21 FT 6.5 IN; HEIGHT: 24 FT 1.5 IN A/N:	D26	D41			E127.1, H23.5, H116.1
TANK, SLOP OIL, T-500, FIXED ROOF, 100 BBL; DIAMETER: 9 FT 2.75 IN; HEIGHT: 8 FT .5 IN A/N:	D27	D41			E127.1, H23.1, H116.1
VESSEL, FWKO, V-100, ELECTROSTATIC DEHYDRATOR, LENGTH: 30 FT 10 IN; DIAMETER: 10 FT A/N: 469342	D198				E127.1, H23.3, H116.1

- \* (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.

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<b>Process 1: CRUDE OIL/GAS/WATER SEPARATION</b>					
VESSEL, FWKO, V-110, ELECTROSTATIC DEHYDRATOR, LENGTH: 30 FT 10 IN; DIAMETER: 10 FT A/N: 469342	D199				E127.1, H23.3, H116.1
VESSEL, V-10, FLOTATION CELL, HEIGHT: 10 FT ; DIAMETER: 6 FT A/N: 469342	D200				E127.1, H23.3, H116.1
TANK, WATER REINJECTION, T-600, FIXED ROOF, 3000 BBL; DIAMETER: 29 FT 8 IN; HEIGHT: 24 FT 1 IN A/N:	D203	D41			E127.1, H23.5, H116.1
VESSEL, GROSS SEPARATOR, NO. 1, GS-1, LENGTH: 30 FT ; DIAMETER: 10 FT A/N:	D204				E127.1, H116.1
VESSEL, GROSS SEPARATOR, NO. 2, GS-2, LENGTH: 30 FT ; DIAMETER: 10 FT A/N:	D205				E127.1, H116.1
<b>Process 2: NATURAL GAS PROCESSING - STEARNS GAS PLANT</b>					P13.1
<b>System 1: FIELD GAS COMPRESSION</b>					
SCRUBBER, V-010, FIELD VACUUM SUCTION, HEIGHT: 8 FT ; DIAMETER: 4 FT A/N: 469339	D147	D41 D83			
SCRUBBER, V-030, FIELD VACUUM DISCHARGE, HEIGHT: 8 FT ; DIAMETER: 2 FT A/N: 469339	D148	D41 D83			
<b>System 2: COMPRESSION UNIT</b>					

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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 2: NATURAL GAS PROCESSING - STEARNS GAS PLANT</b>					P13.1
SCRUBBER, V-100, COMPRESSION INTAKE, LENGTH: 24 FT 10 IN; DIAMETER: 7 FT 6 IN A/N: 469339	D41	D23 D24 D25 D26 D27 D83 D89 D147 D148 D203			
SCRUBBER, V-215, 1ST STAGE SUCTION, HEIGHT: 10 FT ; DIAMETER: 4 FT A/N: 469339	D149	D83 D171			
SCRUBBER, V-220, 2ND STAGE SUCTION, HEIGHT: 6 FT ; DIAMETER: 2 FT 6 IN A/N: 469339	D150	D83 D171			
SCRUBBER, V-235, 2ND STAGE DISCHARGE, HEIGHT: 7 FT ; DIAMETER: 2 FT A/N: 469339	D151	D83 D171			
<b>System 3: PROCESS UNIT</b>					
VESSEL, E-400, GAS/GAS SHELL AND TUBE EXCHANGER, LENGTH: 40 FT ; DIAMETER: 1 FT 6 IN A/N: 469339	D152	D83			
VESSEL, E-410, SHELL AND TUBE GAS CHILLER, LENGTH: 30 FT ; DIAMETER: 2 FT A/N: 469339	D153	D83			
VESSEL, V-430, COLD SEPARATOR, HEIGHT: 6 FT 2 IN; DIAMETER: 2 FT A/N: 469339	D154	D83			
SCRUBBER, V-440, FUEL GAS, HEIGHT: 6 FT 9 IN; DIAMETER: 1 FT 4 IN A/N: 469339	D155	D83 D171			

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<b>Process 2: NATURAL GAS PROCESSING - STEARNS GAS PLANT</b>					P13.1
VESSEL, V-449, SALES GAS COALESCER, HEIGHT: 4 FT ; DIAMETER: 1 FT 6 IN A/N: 469339	D156	D171			
VESSEL, V-450, SALES GAS SEPARATOR, HEIGHT: 6 FT ; DIAMETER: 1 FT 6 IN A/N: 469339	D157	D83 D171			
<b>System 4: PROCESS HEATING SYSTEM</b>					
HEATER, H-640, FIELD GAS, BROACH, WITH LOW NOX BURNER, 1.75 MMBTU/HR WITH A/N: 469338  BURNER, PROCESS GAS, ZEECO, MODEL GSSF-4, WITH LOW NOX BURNER	D86				
TANK, SURGE, V-600, HEIGHT: 6 FT ; DIAMETER: 2 FT A/N: 469338	D87	D83			
<b>System 5: REFRIGERATION UNIT</b>					
VESSEL, V-370, REFRIGERANT RECEIVER, LENGTH: 9 FT ; DIAMETER: 2 FT 6 IN A/N: 469339	D89	D41 D171			
SCRUBBER, V-350, REFRIGERANT SUCTION, HEIGHT: 5 FT ; DIAMETER: 2 FT 6 IN A/N: 469339	D158	D83 D171			
VESSEL, V-320, REFRIGERANT COMPRESSOR OIL SEPARATOR, HEIGHT: 8 FT ; DIAMETER: 3 FT A/N: 469339	D159	D83			

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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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<b>Process 2: NATURAL GAS PROCESSING - STEARNS GAS PLANT</b>					P13.1
VESEL, E-420, REFRIGERANT SUBCOOLER EXCHANGER, LENGTH: 24 FT ; DIAMETER: 2 FT A/N: 469339	D160	D83			
VESEL, E-421, REFRIGERANT EXCHANGER, LENGTH: 24 FT ; DIAMETER: 2 FT A/N: 469339	D161	D83			
VESEL, V-795, REFRIGERANT (MAKE-UP), 1000 GALS, LENGTH: 15 FT ; DIAMETER: 3 FT A/N: 469339	D162	C84			
<b>System 6: GLYCOL REGENERATION AND STABILIZATION</b>					
TOWER, C-510, STABILIZER, HEIGHT: 48 FT ; DIAMETER: 2 FT A/N: 469339	D163	D83			
VESEL, E-500, STABILIZER REBOILER SHELL AND TUBE EXCHANGER, LENGTH: 24 FT ; DIAMETER: 2 FT A/N: 469339	D164	D83 D171			
VESEL, E-510, GLYCOL EXCHANGER, WIDTH: 6 IN; HEIGHT: 1 FT ; LENGTH: 22 FT A/N: 469339	D165				
VESEL, V-431, GLYCOL SEPARATOR, HEIGHT: 6 FT 5 IN; DIAMETER: 3 FT 6 IN A/N: 469339	D166	D83			
VESEL, V-580, GLYCOL REGENERATOR, HEIGHT: 8 FT ; DIAMETER: 2 FT A/N: 469339	D167	D171			

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|--|--|
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<b>Process 2: NATURAL GAS PROCESSING - STEARNS GAS PLANT</b>					P13.1
SCRUBBER, V-520, RECOMPRESSION SUCTION, HEIGHT: 4 FT ; DIAMETER: 1 FT A/N: 469339	D168	D83 D171			
<b>System 7: ODORANT SYSTEM - SALES GAS</b>					
VESSEL, 1, ODORANT, 50 GALS A/N: 467338	D79				
VESSEL, 2, ODORANT, 50 GALS A/N: 467338	D80				
ODORANT DISPENSING EQUIPMENT, LOW PRESSURE A/N: 467338	D81				
ODORANT DISPENSING EQUIPMENT, HIGH PRESSURE A/N: 467338	D82				
<b>System 8: PROPANE EXTRACTION SYSTEM</b>					
VESSEL, E-800, DEPROPANIZER REBOILER SHELL AND TUBE EXCHANGER, LENGTH: 12 FT ; DIAMETER: 2 FT 6 IN A/N: 469339	D172	D83			
TOWER, V-810, DEPROPANIZER FRACTIONATION, HEIGHT: 36 FT ; DIAMETER: 2 FT A/N: 469339	D173	D83			
ACCUMULATOR, V-820, DEPROPANIZER REFLUX, HEIGHT: 7 FT ; DIAMETER: 2 FT 7 IN A/N: 469339	D174	D83			

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  - (5) (5A) (5B) Denotes command and control emission limit
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  - (9) See App B for Emission Limits
  - (2) (2A) (2B) Denotes RECLAIM emission rate
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  - (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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<b>Process 2: NATURAL GAS PROCESSING - STEARNS GAS PLANT</b>					P13.1
CONDENSER, AC-830, DEPROPANIZER REFLUX, WIDTH: 9 FT ; LENGTH: 14 FT A/N: 469339	D175				
TOWER, V-840, DEBUTANIZER FRACTIONATION, HEIGHT: 20 FT ; DIAMETER: 1 FT A/N: 469339	D176	D83			
ACCUMULATOR, V-850, DEBUTANIZER REFLUX, HEIGHT: 7 FT ; DIAMETER: 1 FT 6 IN A/N: 469339	D177	D83			
CONDENSER, AC-860, DEPROPANIZER REFLUX, WIDTH: 9 FT ; LENGTH: 14 FT A/N: 469339	D178				
VESSEL, C-870, PROPANE LIQUID TREATER, LENGTH: 10 FT ; DIAMETER: 2 FT A/N: 469339	D179	D83			
FILTER, F-875, PROPANE PARTICLE, 3 MICRON RATING, MODEL CUNO CT101 A/N: 469339	D180	D83			
<b>Process 3: INTERNAL COMBUSTION ENGINES</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, WITH AFTERCOOLER, TURBOCHARGER, 300 HP A/N: 469332	D74		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]	C1.1, D12.1, K67.2

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- (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
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- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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<b>Process 3: INTERNAL COMBUSTION ENGINES</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, WITH AFTERCOOLER, TURBOCHARGER, 125 HP A/N: 467337	D75		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]	C1.1, C177.1, D12.1, E114.1, K67.2
<b>Process 4: STORAGE AND LOADING</b>					
STORAGE TANK, PRESSURIZED, V-790, PROPANE, 60630 GALS; DIAMETER: 9 FT 9 IN; LENGTH: 102 FT A/N: 469334	D18				J123.1
STORAGE TANK, PRESSURIZED, V-793, PROPANE, ABOVEGROUND, 30000 GALS; DIAMETER: 10 FT ; LENGTH: 30 FT A/N: 467331	D145				
LOADING ARM, BOTTOM, TANK TRUCK, LIQUIFIED PETROLEUM GAS, WITH A VAPOR RETURN LINE A/N: 467330	D85				E144.1
LOADING ARM, BOTTOM, TANK TRUCK, PROPANE, WITH A VAPOR RETURN LINE A/N: 467330	D146				E57.1
<b>Process 5: FLARE SYSTEM</b>					

\* (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  
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<b>Process 5: FLARE SYSTEM</b>					
KNOCK OUT POT, V-720, HEIGHT: 8 FT ; DIAMETER: 5 FT A/N: 467335	D83	D41 C84 D87 D147 D148 D149 D150 D151 D152 D153 D154 D155 D157 D158 D159 D160 D161 D163 D164 D166 D168 D169 D171 D172 D173 D174 D176 D177 D179 D180			
FLARE, EMERGENCY, PROCESS GAS, AIR ASSISTED TYPE, HEIGHT: 40 FT ; DIAMETER: 1 FT ; 284.4 MMBTU/HR A/N: 467335	C84	D83 D162		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]; SOX: 500 PPMV PROCESS GAS (5) [RULE 407, 4-2-1982]	C1.2, C1.3, D12.2

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 (9) See App B for Emission Limits  
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<b>Process 5: FLARE SYSTEM</b>					
FLARE, GROUND FLARE, 27 MMBTU/HR, FIELD GAS, FLARE INDUSTRIES, MODEL CEB 800, SHROUDED, SMOKELESS, WITH CONTINUOUS GAS PILOT, WIDTH: 7 FT 9 IN; HEIGHT: 24 FT ; LENGTH: 7 FT 9 IN A/N: 538706	C202		NOX: LARGE SOURCE**	CO: 10 PPMV FIELD GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 0.023 LBS/MMBTU FIELD GAS (1) [RULE 2012, 5-6-2005]; NOX: 15 PPMV FIELD GAS (4) [RULE 2005, 6-3-2011]; VOC: 10 PPMV FIELD GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]	D12.5, D12.6, D29.5, D29.6, K40.2
<b>Process 6: VAPOR RECOVERY AND DRAIN SYSTEM</b>					
SCRUBBER, V-210, VRU SUCTION, HEIGHT: 5 FT ; DIAMETER: 1 FT 6 IN A/N: 469339	D169	D83 D171			
TANK, TK-903, FIXED ROOF, GRAVITY DRAIN, 100 BBL; DIAMETER: 9 FT 6 IN; HEIGHT: 8 FT A/N: 469339	D170	D171			
COMPRESSOR, K-250, 5 HP ELECTRIC MOTOR A/N: 469339	D171	D83 D89 D149 D150 D151 D155 D156 D157 D158 D164 D167 D168 D169 D170			

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### 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: FUGITIVE EMISSION SOURCES</b>					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 469339	D206				H23.7, H23.8
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D207				H23.7
<b>Process 8: R219 EXEMPT EQUIPMENT SUBJECT TO A SOURCE SPECIFIC RULE</b>					
RULE 219 EXEMPT EQUIPMENT, WELL HEADS AND PUMPS, OIL AND GAS	E128				H23.6
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E129			ROG: (9) [RULE 1113, 7-13-2007; RULE 1113, 9-6-2013; RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	K67.1
<b>Process 10: Power Generation</b>					
GAS TURBINE, NO. 1, PROCESS GAS, SOLAR CENTAUR, MODEL 50-T5700, SIMPLE CYCLE, WITH WATER INJECTION, 49.37 MMBTU/HR WITH A/N: 512636  GENERATOR, 3975 KW	D182	C184 C186 S188	NOX: MAJOR SOURCE**	CO: 10 PPMV (4) [RULE 1703 - PSD Analysis, 10-7-1988]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 9 PPMV (4) [RULE 2005, 5-6-2005]; NOX: 211 PPMV (8) [40CFR 60 Subpart GG, 2-24-2006]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 2-24-2006]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	A99.1, A195.1, A195.3, D82.1, D82.2, K40.1

\* (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 LINN OPERATING, INC

### 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 10: Power Generation</b>					
SELECTIVE CATALYTIC REDUCTION, BASF NOXCAT ZNX, WITH 214 CUBIC FEET OF TOTAL CATALYST VOLUME WITH A/N: 512635  AMMONIA INJECTION	C184	D182		NH3: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.2, D12.3, D28.2, E179.1
CO OXIDATION CATALYST, BASF CAMEL, WITH 34.3 CUBIC FEET OF TOTAL CATALYST VOLUME A/N: 512635	C186	D182			
STORAGE TANK, PRESSURIZED, AQUEOUS AMMONIA, 25% SOLUTION, 8000 GALS; DIAMETER: 7 FT ; LENGTH: 27 FT A/N: 467326	D187				C157.1, E144.1
STACK A/N: 512636	S188	D182			

- \* (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 LINN OPERATING, INC

### 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 10: Power Generation</b>					
GAS TURBINE, NO. 2, PROCESS GAS, SOLAR CENTAUR, MODEL 50-T5701, SIMPLE CYCLE, WITH STEAM OR WATER INJECTION, 49.37 MMBTU/HR WITH A/N: 512637  GENERATOR, 3845 KW	D189	C191 C193 S194	NOX: MAJOR SOURCE**	CO: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1703 - PSD Analysis, 10-7-1988]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 9 PPMV (4) [RULE 2005, 5-6-2005]; NOX: 36.3 LBS/MMSCF PROCESS GAS (1) [RULE 2012, 5-6-2005]; NOX: 209 PPMV (8) [40CFR 60 Subpart GG, 2-24-2006]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 2-24-2006]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	A99.1, A195.1, A195.3, D82.1, D82.2, K40.1
SELECTIVE CATALYTIC REDUCTION, BASF NOXCAT ZNX, WITH 280 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 10 FT ; HEIGHT: 16 FT ; LENGTH: 5.25 IN WITH A/N: 512638  AMMONIA INJECTION	C191	D189		NH3: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.2, D12.3, D28.2, E179.1
CO OXIDATION CATALYST, BASF CAMEL, WITH 23.3 CUBIC FEET OF TOTAL CATALYST VOLUME A/N: 512638	C193	D189			
STACK A/N: 512637	S194	D189			

\* (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  
LINN OPERATING, INC**

**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  
 LINN OPERATING, INC  
 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>
D18	8	4	0
D22	1	1	1
D23	1	1	1
D24	1	1	1
D25	1	1	1
D26	1	1	1
D27	1	1	1
D41	3	2	2
D74	7	3	0
D75	8	3	0
D79	6	2	7
D80	6	2	7
D81	6	2	7
D82	6	2	7
D83	9	5	0
C84	9	5	0
D85	8	4	0
D86	4	2	4
D87	4	2	4
D89	4	2	5
E128	11	8	0
E129	11	8	0
D145	8	4	0
D146	8	4	0
D147	2	2	1
D148	2	2	1
D149	3	2	2
D150	3	2	2
D151	3	2	2
D152	3	2	3
D153	3	2	3
D154	3	2	3
D155	3	2	3
D156	4	2	3
D157	4	2	3

**FACILITY PERMIT TO OPERATE  
 LINN OPERATING, INC  
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D158	4	2	5
D159	4	2	5
D160	5	2	5
D161	5	2	5
D162	5	2	5
D163	5	2	6
D164	5	2	6
D165	5	2	6
D166	5	2	6
D167	5	2	6
D168	6	2	6
D169	10	6	0
D170	10	6	0
D171	10	6	0
D172	6	2	8
D173	6	2	8
D174	6	2	8
D175	7	2	8
D176	7	2	8
D177	7	2	8
D178	7	2	8
D179	7	2	8
D180	7	2	8
D182	11	10	0
C184	12	10	0
C186	12	10	0
D187	12	10	0
S188	12	10	0
D189	13	10	0
C191	13	10	0
C193	13	10	0
S194	13	10	0
D198	1	1	1
D199	2	1	1
D200	2	1	1

**FACILITY PERMIT TO OPERATE  
LINN OPERATING, INC  
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>
C202	10	5	0
D203	2	1	1
D204	2	1	1
D205	2	1	1
D206	11	7	0
D207	11	7	0

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

### 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
Sulfur compounds	Less than or equal to 5 LBS PER DAY

For the purpose of this condition, the sulfur compound emission limit shall be verified through monthly gas analysis of sulfur content using District Method 307-91. The operator shall calculate the daily sulfur emissions by multiplying the results of the monthly gas analysis in ppm as H<sub>2</sub>S by 0.0899 and by the fuel use in mmscf/day. The operator shall keep records of the monthly gas analysis and daily records of the fuel gas usage for a minimum of five years.

**[RULE 431.1, 6-12-1998]**

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

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

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

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

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

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

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

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

[RULE 431.2, 5-4-1990; 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.

This condition shall become effective on or after June 1, 2004.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

### 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
Total Reduced Sulfur	40CFR60, SUBPART	LLL

[40CFR 60 Subpart LLL, 10-3-1986]

[Processes subject to this condition : 2]

### DEVICE CONDITIONS

#### A. Emission Limits

A99.1 The 9 PPM NOX emission limit(s) shall not apply during start-up or shutdown, or the initial start-up period. The initial start-up period shall not exceed 30 calendar days from the date of installation. The start-up and shutdown time shall not exceed 15 minutes per hour each.

## **FACILITY PERMIT TO OPERATE LINN OPERATING, INC**

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

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

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 5-6-2005]**

[Devices subject to this condition : D182, D189]

A195.1 The 10 PPM CO emission limit(s) is averaged over 15 minutes, at 15 percent oxygen.

**[RULE 1703 - PSD Analysis, 10-7-1988]**

[Devices subject to this condition : D182, D189]

A195.2 The 10 PPM NH<sub>3</sub> emission limit(s) is averaged over 15 minutes, at 15 percent oxygen.

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

[Devices subject to this condition : C184, C191]

A195.3 The 9 PPM NO<sub>x</sub> emission limit(s) is averaged over 15 minutes, at 15 percent oxygen, dry.

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

[Devices subject to this condition : D182, D189]

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

C1.1 The operator shall limit the operating time to no more than 199 hour(s) in any one year.

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

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

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

**[RULE 1110.2, 2-1-2008; RULE 1110.2, 9-7-2012; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D74, D75]

C1.2 The operator shall limit the fuel usage to no more than 130.46 MM cubic feet per year.

The operator shall maintain records of the flare operation and the reason for operation. The records shall be kept in a manner approved by the District, to demonstrate compliance with this condition.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 5-6-2005]**

[Devices subject to this condition : C84]

C1.3 The operator shall limit the fuel usage to no more than 20 MM cubic feet per month.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 5-6-2005]**

[Devices subject to this condition : C84]

C157.1 The operator shall install and maintain a pressure relief valve set at 15 psig.

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

[Devices subject to this condition : D187]

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

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

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

C177.1 The operator shall set and maintain the fuel injection timing of the engine at 4 degrees retarded relative to standard timing.

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

[Devices subject to this condition : D75]

#### **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 1110.2, 9-7-2012; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 2012, 5-6-2005]

[Devices subject to this condition : D74, D75]

D12.2 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the vented gases to the flare.

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

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

[Devices subject to this condition : C84]

D12.3 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the ammonia injection rate of the SCR system.

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

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

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

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

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

[Devices subject to this condition : C184, C191]

- D12.5 The operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the flare.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 5-6-2005**]

[Devices subject to this condition : C202]

- D12.6 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the combustion chamber.

The combustion temperature of the flare shall be maintained between 1800 and 2500 degrees Fahrenheit when this equipment is in operation.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 5-6-2005**]

[Devices subject to this condition : C202]

- D28.2 The operator shall conduct source test(s) in accordance with the following specifications:

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

### 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 quarterly during the first 12 months of operation and at least annually thereafter.

The test shall be conducted to determine the NH3 emissions using District method 207.1 and 5.3 or EPA method 17.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted and the results submitted to the District within 45 days after the test date.

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

[Devices subject to this condition : C184, C191]

D29.5 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District method 100.1	1 hour	Outlet

The test(s) shall be conducted at least once every three years.

The test shall be conducted and the results submitted to the District within 60 days after the test date. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted when this equipment is operating at the maximum load.

The test shall be conducted in accordance with a District approved source test protocol.

**FACILITY PERMIT TO OPERATE  
 LINN OPERATING, INC**

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

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

**[RULE 2005, 6-3-2011; RULE 2012, 5-6-2005]**

[Devices subject to this condition : C202]

D29.6 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
CO emissions	District method 100.1	1 hour	Outlet
VOC emissions	Approved District method	1 hour	Outlet

The test(s) shall be conducted at least once every five years.

The test shall be conducted and the results submitted to the District within 60 days after the test date. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted when this equipment is operating at the maximum load.

The test shall be conducted in accordance with a District approved source test protocol.

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

[Devices subject to this condition : C202]

D82.1 The operator shall install and maintain a CEMS to measure the following parameters:

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

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

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

NOX concentration in ppmv

The CEMS shall be installed and operating no later than 12 months after the initial start-up of the turbine. During the interim period between the initial start-up and the provisional certification date of the CEMS, the operator shall comply with the monitoring requirements of Rule 2012(h)(2) and 2012(h)(3). The operator shall provide written notification of the turbine initial start-up date. Notification shall be submitted within 2 weeks upon initial start-up of the turbine.

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

[Devices subject to this condition : D182, D189]

D82.2 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

The CEMS shall be installed and operated in accordance with an approved AQMD Rule 218 CEMS plan application. The operator shall not install the CEMS prior to receiving initial approval from the AQMD.

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

[Devices subject to this condition : D182, D189]

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

E57.1 The operator shall vent this equipment to the plant compression system, or back into the propane storage tank whenever loading operations are occurring.

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

### 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, 5-10-1996]**

[Devices subject to this condition : D146]

E114.1 The operator shall not use this equipment in conjunction with any utility voluntary demand reduction program.

**[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]**

[Devices subject to this condition : D75]

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

**[RULE 1176, 9-13-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 463, 11-4-2011]**

[Devices subject to this condition : D23, D24, D25, D26, D27, D198, D199, D200, D203, D204, D205]

E144.1 The operator shall vent this equipment, during filling, only to the vessel from which it is being filled.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 461, 6-3-2005; RULE 461, 4-6-2012]**

[Devices subject to this condition : D85, D187]

E179.1 For the purpose of the following condition number(s), continuous monitoring shall be defined as measuring at least once every 15 minutes, except as allowable by Rule 2000.

Condition Number D 12- 3

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

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

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

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

[Devices subject to this condition : C184, C191]

#### H. Applicable Rules

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

Contaminant	Rule	Rule/Subpart
ROG	District Rule	463

[RULE 463, 11-4-2011]

[Devices subject to this condition : D27]

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

Contaminant	Rule	Rule/Subpart
ROG	District Rule	1176
ROG	District Rule	464

[RULE 1176, 9-13-1996; RULE 464, 12-7-1990]

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

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

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

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

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

Contaminant	Rule	Rule/Subpart
ROG	District Rule	463
ROG	District Rule	1149

[RULE 1149, 5-2-2008; RULE 463, 11-4-2011]

[Devices subject to this condition : D23, D24, D25, D26, D203]

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

Contaminant	Rule	Rule/Subpart
ROG	District Rule	1173
TOC	District Rule	1148.1

[RULE 1148.1, 3-5-2004; RULE 1173, 2-6-2009]

[Devices subject to this condition : E128]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173

[RULE 1173, 2-6-2009]

[Devices subject to this condition : D206, D207]

**FACILITY PERMIT TO OPERATE  
 LINN OPERATING, INC**

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

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

H23.8 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	KKK

**[40CFR 60 Subpart KKK, 11-1-1985]**

[Devices subject to this condition : D206]

H116.1 The operator shall meet all requirements and notify the District a minimum of 24 hours prior to painting in order to comply with Rule 1113 whenever the tank is been painted.

**[RULE 1113, 7-13-2007; RULE 1113, 9-6-2013]**

[Devices subject to this condition : D23, D24, D25, D26, D27, D198, D199, D200, D203, D204, D205]

**J. Rule 461**

J123.1 The operator shall not dispense fuel from this equipment into motor vehicles.

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

[Devices subject to this condition : D18]

**K. Record Keeping/Reporting**

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

### 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.

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

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).

All moisture concentration shall be expressed in terms of percent corrected to 15 percent oxygen.

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 lbs/MM cubic feet.

Source test results shall also include turbine fuel flow rate under which the test was conducted.

Source test results shall also include turbine and generator output under which the test was conducted.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 5-6-2005]**

[Devices subject to this condition : D182, D189]

K40.2 The operator shall provide to the District a source test report in accordance with the following specifications:

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

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

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

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

Emission data shall be expressed in terms of lbs/MMBtu and lbs/hr.

Source test results shall include fuel flow rate under which the test was conducted.

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

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 5-6-2005]**

[Devices subject to this condition : C202]

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.

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

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

### 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 : E129]

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

the date of operation

the elapsed time in hours

the reason for operation

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

[Devices subject to this condition : D74, D75]

**FACILITY PERMIT TO OPERATE  
LINN OPERATING, INC**

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

NONE

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

### SECTION K: TITLE V Administration

#### GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

#### Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]  
  
(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

#### Duty to Provide Information

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

#### Payment of Fees

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

### SECTION K: TITLE V Administration

#### Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
- (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.
  - (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
  - (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

#### **COMPLIANCE PROVISIONS**

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
  - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

### SECTION K: TITLE V Administration

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
  - (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
  - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
  - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]
  
10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]
  
11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]
  
12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]
  
13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

### SECTION K: TITLE V Administration

14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
- (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
  - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
  - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
  - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
  - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
  - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

### SECTION K: TITLE V Administration EMERGENCY PROVISIONS

17. An emergency<sup>1</sup> constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
    - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
    - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
    - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
    - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
  - (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

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<sup>1</sup> "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

## **FACILITY PERMIT TO OPERATE LINN OPERATING, INC**

### **SECTION K: TITLE V Administration RECORDKEEPING PROVISIONS**

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:

- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
- (B) The date(s) analyses were performed;
- (C) The company or entity that performed the analyses;
- (D) The analytical techniques or methods used;
- (E) The results of such analyses; and
- (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]

20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]

21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

### **REPORTING PROVISIONS**

22. The operator shall comply with the following requirements for prompt reporting of deviations:

- (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

### SECTION K: TITLE V Administration

- (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.
  - (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
  - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;

## **FACILITY PERMIT TO OPERATE LINN OPERATING, INC**

### **SECTION K: TITLE V Administration**

- (B) The compliance status during the reporting period;
- (C) Whether compliance was continuous or intermittent;
- (D) The method(s) used to determine compliance over the reporting period and currently, and
- (E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn:  
Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

### **PERIODIC MONITORING**

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the TitleV application file. [3004(a)(4)]

## FACILITY PERMIT TO OPERATE LINN OPERATING, INC

### SECTION K: TITLE V Administration

#### *FACILITY RULES*

*This facility is subject to the following rules and regulations*

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 1110.2	2-1-2008	Federally enforceable
RULE 1110.2	9-7-2012	Non federally enforceable
RULE 1113	7-13-2007	Federally enforceable
RULE 1113	9-6-2013	Non federally enforceable
RULE 1148.1	3-5-2004	Non federally enforceable
RULE 1149	5-2-2008	Federally enforceable
RULE 1171	11-7-2003	Federally enforceable
RULE 1171	5-1-2009	Non federally enforceable
RULE 1173	2-6-2009	Federally enforceable
RULE 1176	9-13-1996	Federally enforceable
RULE 1303(a)	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1304(a)-Modeling and Offset Exemption	6-14-1996	Federally enforceable
RULE 1703 - PSD Analysis	10-7-1988	Federally enforceable
RULE 2005	6-3-2011	Federally enforceable
RULE 2012	5-6-2005	Federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable

**FACILITY PERMIT TO OPERATE  
 LINN OPERATING, INC**

**SECTION K: TITLE V Administration**

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 407	4-2-1982	Federally enforceable
RULE 409	8-7-1981	Federally enforceable
RULE 431.1	6-12-1998	Federally enforceable
RULE 431.2	5-4-1990	Federally enforceable
RULE 431.2	9-15-2000	Non federally enforceable
RULE 461	4-6-2012	Non federally enforceable
RULE 461	6-3-2005	Federally enforceable
RULE 463	11-4-2011	Federally enforceable
RULE 464	12-7-1990	Federally enforceable
40CFR 60 Subpart GG	2-24-2006	Federally enforceable
40CFR 60 Subpart KKK	11-1-1985	Federally enforceable
40CFR 60 Subpart LLL	10-3-1986	Federally enforceable

**FACILITY PERMIT TO OPERATE  
LINN OPERATING, INC**

**APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN  
PERMIT PURSUANT TO RULE 219**

1. PORTABLE IC ENGINES, GASOLINE
2. MICRO-TURBINES, FIELD GAS

<b>SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT</b> <b>ENGINEERING &amp; COMPLIANCE</b> <b>APPLICATION PROCESSING AND CALCULATIONS</b>	PAGES 16	PAGE NO. 1
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	PROCESSED BY M VIBAL	CHECKED BY <i>Wet</i>

**EVALUATION REPORT FOR PERMIT TO OPERATE**

Minor Revision of RECLAIM /Title V Facility Permit

**APPLICANT'S NAME:** Linn Operating, Inc. (Fac. ID 151532)

**MAILING ADDRESS:** 2000 Tonner Canyon Road  
Brea, CA 92821

**EQUIPMENT LOCATION:** Brea-Olinda Oilfield  
2000 Tonner Canyon Road  
Brea, CA 92821

**CONTACT :** Mike Shaffer  
Consultant  
Tel: (805) 207-1945

**EQUIPMENT DESCRIPTION**

**A/N 531398** Modification of Existing Crude Oil/Gas/Water Separation System A/N 467332

**A/N 531400** Minor Revision of the RECLAIM/Title V Facility Permit

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

Equipment	ID No.	Connected to	Source Type	Emissions And Requirements	Conditions
<b>PROCESS 1: CRUDE OIL/GAS/WATER SEPARATION</b>					
<b>System 1: TONNER STEARNS TANK FARM</b>					
Vessel, Gas Boot, Height: 28 Ft; Diameter: 2 Ft  A/N: 467332 531398	D22	D23			
Tank, Wash, Stock, T-100, Fixed Roof, 3000 BBL, Height: 24 Ft 1.5 In; Diameter: 29 Ft 8.63 In  A/N: 467332 531398	D23	D22 D41			E127.1, H23.5, H116.1

<b>SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT</b> <b>ENGINEERING &amp; COMPLIANCE</b> <b>APPLICATION PROCESSING AND CALCULATIONS</b>	PAGES 16	PAGE NO. 2
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

Equipment	ID No.	Connected to	Source Type	Emissions And Requirements	Conditions
<b>PROCESS 1: CRUDE OIL/GAS/WATER SEPARATION</b>					
<b>System 1: TONNER STEARNS TANK FARM</b>					
Tank, Clarifier, T-200, Fixed Roof, 2000 BBL, Height: 16 Ft 1 In; Diameter: 29 Ft 8.63 In  A/N: 467332 531398	D24	D41			E127.1, H23.5, H116.1
Tank, Shipping, Crude Oil, Clarifier, T-300, Fixed Roof, 2000 BBL, Height: 16 Ft 1 In; Diameter: 29 Ft 8.63 In  A/N: 467332 531398	D25	D41			E127.1, H23.5, H116.1
Tank, Wash (Standby), Wastewater, Reject, T-400, Fixed Roof, 1500 BBL, Height: 24 Ft 1.5 In; Diameter: 21 Ft 6.5 In  A/N: 467332 531398	D26	D41			E127.1, H23.5, H116.1
Tank, Slop Oil, T-500, Fixed Roof, 100 BBL, Height: 8 Ft 0.5 In; Diameter: 9 Ft 2.75 In  A/N: 467332 531398	D27	D41			E127.1, H23.1, H116.1
Oil/Gas/Water Separator, Parallel Plate, 750 Gals, Length: 9 Ft 10 In; Width: 8 Ft 0.5 In; Height: 11 Ft 7 In  A/N: 467332	D127	D41			E127.1, H23.3,
Vessel, FWKO, V-5A 100, Electrostatic Dehydrator, Length: 30 Ft 10 In; Diameter: 10 Ft  A/N: 469342	D198				E127.1, H23.3, H116.1

<b>SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT</b> <b>ENGINEERING &amp; COMPLIANCE</b> <b>APPLICATION PROCESSING AND CALCULATIONS</b>	PAGES 16	PAGE NO. 3
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

Equipment	ID No.	Connected to	Source Type	Emissions And Requirements	Conditions
<b>PROCESS 1: CRUDE OIL/GAS/WATER SEPARATION</b>					
<b>System 1: TONNER STEARNS TANK FARM</b>					
Vessel, FWKO, V-5B 110, Electrostatic Dehydrator, Length: 30 Ft 10 In; Diameter: 10 Ft  A/N: 469342	D199				E127.1, H23.3, H116.1
Vessel, V-10, Flotation Cell, Height: 10 Ft; Diameter: 6 Ft  A/N: 469342	D200				E127.1, H23.3, H116.1
Tank, Water Reinjection, T-600, Fixed Roof, 3000 BBL, Height: 24 Ft 1 In; Diameter: 29 Ft 8 In  A/N: 531398	D203	D41			E127.1, H23.5, H116.1
Vessel, Gross Separator No. 1, GS-1, Length: 30 Ft; Diameter: 10 Ft  A/N: 531398	D204				E127.1, H116.1
Vessel, Gross Separator No. 1, GS-2, Length: 30 Ft; Diameter: 10 Ft  A/N: 531398	D205				E127.1, H116.1

<b>SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT</b>  <b>ENGINEERING &amp; COMPLIANCE</b>  <b>APPLICATION PROCESSING AND CALCULATIONS</b>	PAGES 16	PAGE NO. 4
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

Equipment	ID No.	Connected to	Source Type	Emissions And Requirements	Conditions
<b>PROCESS 2: NATURAL GAS PROCESSING/STEARNS GAS PLANT</b>					P13.1
<b>System 4: PROCESS HEATING SYSTEM</b>					
Heater, H-640, Process Field Gas, Broach, with Low NOx Burner, 1.75 MMBtu/hr, with A/N 469338  Burner, Process Gas, Zeeco, Model GSSF-4, with Low NOx Burner	D86		NOx: Process Unit	CO: 2000 ppmv Field gas (5A) [Rule 407, 4-2-1982]; NOx: 30 ppmv Field Gas (4) [Rule 1303(a)(1) BACT, 5-10-1996]; NOx: 130 lbs/MMscf Field Gas (1) [Rule 2012, 5-6-2005]; PM: (9) [Rule 404, 2-7-1986]; PM: 0.1 Grains/scf (5) [Rule 409, 8-7-1981]; SOx: 500 ppmv Field Gas (5) [RULE Rule 407, 4-2-1982]	
Tank, Surge, V-600, Diameter: 2 Ft; Height: 6 Ft.  A/N: 469338	D87	D83			

Equipment	ID No.	Connected to	Source Type	Emissions And Requirements	Conditions
<b>PROCESS 5: FLARE SYSTEM</b>					
Flare, Ground Flare, Field Gas, Flare Industries, Clean Enclosed Burner, Model CEB 800, 27 MMBtu/hr, Shrouded, Snopkelass, with Continuous Gas Pilot, Height : 24 Ft.; Length : 7 Ft., 9 In.; Width : 7 Ft. 9 In.  A/N 538706	C202		NOx: Large Source	CO : 10 ppmv Field Gas (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; Rule 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; CO: 2000 ppmv (5) [Rule 407, 4-2-1982]; NOx: 15 ppmv Field Gas (4) [Rule 2005, 5-6-2005]; NOx: 0.023 lbs/MMBtu Field Gas (1) [Rule 2012, 5-6-2005]; VOC: 10 ppmv Field Gas (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; Rule 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002].	D12.5, D12.7, D29.5, D29.6, K40.2.

TYPE

<b>SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT</b>  <b>ENGINEERING &amp; COMPLIANCE</b>  <b>APPLICATION PROCESSING AND CALCULATIONS</b>	PAGES 16	PAGE NO. 5
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

Equipment	ID No.	Connected to	Source Type	Emissions And Requirements	Conditions
<b>PROCESS 7: FUGITIVE EMISSION SOURCES</b>					
<b>Fugitive Emissions, Miscellaneous</b>  A/N: 469339	<b>D206</b>				<b>H23.7, H23.8</b>
<b>Fugitive Emissions, Miscellaneous</b>  A/N: 531398	<b>D207</b>				<b>H23.7</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

(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

Note: **Bold-faced items** are to be added; ~~crossed-out items~~ are to be deleted.

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Device No. C201 will be inactivated because A/N 509255 will be cancelled. The Zeeco flare is permanently taken out of service and replaced by the Flare Industries CEB 800 Flare. Device No. C202 will be moved from Section H to Section D. There are no devices that will remain in Section H.

PERMIT CONDITIONS

**No new conditions imposed; delete condition D29.4 (requirement to source test the new flare), E179.2, I1.1 (condition re Stipulated Order for Abatement) and I1.2 (condition re variance).**

**Correction of permit conditions:**

**D. Monitoring/Testing Requirements**

D12.5 The operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the flare.

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[**RULE 1303(b)(2)-Offset, 5-10-1996, RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 5-6-2005**]

[Devices subject to this condition: ~~C201~~, **C202**]

D12.6 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the combustion chamber.

The combustion temperature of the flare shall be maintained between 1800 and ~~2300~~ **2500** °F when this equipment is in operation.

[**RULE 1303(b)(2)-Offset, 5-10-1996, RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 5-6-2005**]

[Devices subject to this condition: C202]

D29.4 ——— The operator shall conduct source test(s) for the pollutant(s) identified below:

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOx emissions	District Method 100.1	1 hour	Outlet
CO emissions	District Method 100.1	1 hour	Outlet
VOC emissions	Approved District method	1 hour	Outlet

~~The test shall be conducted after District approval of the source test protocol, but no later than 180 days after initial start up. The District shall be notified of the date and time of the test at least 10 days prior to the test.~~

~~The test shall be conducted to determine the oxygen levels in the exhaust. In addition, the tests shall measure the fuel flow rate (CFH) and the flue gas flow rate.~~

~~The test shall be conducted in accordance with a District approved source test protocol. The protocol shall be submitted to the AQMD engineer no later than 45 days before the proposed test date and shall be approved by the District before the test commences. The test protocol shall include the proposed operating conditions during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.~~

~~The test shall be conducted when this equipment is operating at loads of 100, 75 and 50 percent of the maximum load.~~

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~~[RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996, RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 5-6-2005]~~

~~[Devices subject to this condition: C202]~~

D29.5 The operator shall conduct source test(s) for the pollutant(s) identified below:

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOx emissions	District Method 100.1	1 hour	Outlet

The test(s) shall be conducted at least once every three years.

The test shall be conducted and the results submitted to the District within 60 days after the test date. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted when this equipment is operating at the maximum load.

The test shall be conducted in accordance with a District approved source test protocol.

~~[RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996, RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 5-6-2005]~~

~~[Devices subject to this condition: C202]~~

D29.6 The operator shall conduct source test(s) for the pollutant(s) identified below:

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
<del>NOx</del> CO emissions	District Method 100.1	1 hour	Outlet
VOC emissions	Approved District method	1 hour	Outlet
PM emissions	Approved District method	District approved averaging time	Outlet

The test(s) shall be conducted at least once every five years.

The test shall be conducted and the results submitted to the District within 60 days after the test date. The AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted when this equipment is operating at the maximum load.

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The test shall be conducted in accordance with a District approved source test protocol.

[RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996, RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 5-6-2005]

[Devices subject to this condition: C202]

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

<u>Contaminant</u>	<u>Rule</u>	<u>Rule/Subpart</u>
VOC	District Rule	1173

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

[Devices subject to this condition: Dx4, Dx5]

**H23.8 This equipment is subject to the applicable requirements of the following rules or regulations:**

<u>Contaminant</u>	<u>Rule</u>	<u>Rule/Subpart</u>
VOC	40 CFR Part 60	KKK

[40 CFR60, Subpart KKK, 11-1-1985 ]

[Devices subject to this condition: Dx4]

**I. Administrative**

~~II.1 The operator shall comply with all the requirements of the Stipulated Order for Abatement, Case No. 5711-6, dated March 2, 2011 in accordance with the Findings and Decisions of the Hearing Board or as subsequently modified by the Hearing Board. The operator shall submit progress reports at least semi-annually, or more frequently if specified in the Findings and Decisions. The progress reports shall contain dates for achieving activities, milestones or compliance required in the schedule of compliance and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not, or will not be met, and any preventative or corrective measures adopted.~~

~~\_\_\_\_\_ [RULE 3004(a)(10)(C), 12-12-1997]~~

~~\_\_\_\_\_ [Devices subject to this condition: C84]~~

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~~H.2~~ The operator shall comply with all the requirements of Variance Case No. 5711-8, dated June 26, 2012 in accordance with the Order and Decision of the Hearing Board or as subsequently modified by the Hearing Board. The operator shall submit progress reports at least semi-annually, or more frequently if specified in the Order and Decision. The progress reports shall contain dates for achieving activities, milestones or compliance required in the schedule of compliance and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not, or will not be met, and any preventative or corrective measures adopted.

~~\_\_\_\_\_~~ [RULE 3004(a)(10)(C), 12-12-1997]

~~\_\_\_\_\_~~ [Devices subject to this condition: C201]

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

K40.2 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.

Emission data shall be expressed in terms of lbs/MMBtu and lbs/hr.

Source test results shall include fuel flow rate under which the test was conducted.

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

[**RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996, RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2012, 5-6-2005**]

[Devices subject to this condition: ~~C201~~, **C202**]

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**Summary of Facility Permit Modifications:**

Item	Action/s Completed
<b>Device Nos.</b>	
D22	Updated A/N to 531398.
D23	Changed tank description from "Wash" to "Stock, T-100"; updated A/N to 531398.
D24	Added tank no. "T-200"; updated A/N to 531398.
D25	Changed tank description from "Shipping, Crude Oil" to "Clarifier, T-300"; updated A/N to 531398.
D26	Changed tank description from "Wash (Standby), Wastewater" to "Reject, T-400"; updated A/N to 531398.
D27	Added tank no. "T-500"; updated A/N to 531398.
D127	Deleted; removed from service.
D198	Changed tank no. from V-5A to V100.
D199	Changed tank no. from V-5B to V110.
D203, D204, D205	Added; existing equipment that were omitted when the Facility Permit (FP) was issued.
D86	Removed the designation as "RECLAIM NOx Process Unit". Eqpt. exempt from permit requirements per Rule 219 (n)(4) and not subject to RECLAIM. Revised fuel description to "field gas" from "process gas".
C202	Moved from Section H to Section D. Permit to Operate issued.
C201	Inactivated; flare taken out of service.
D206, D207	Added to the FP.
<b>Cond. Nos.</b>	
D29.4, E 179.2, II.1, II.2	Removed from FP; not required or redundant.
D12.5	Delete reference to C201.
D12.6	Changed upper temperature limit from 2300 to 2500.
D29.6	Deleted requirements to test for NOx and PM; incorporated requirement to test for CO.
H23.7, H23.8	Added to FP
K40.2	Delete reference to C201.

**BACKGROUND/PROCESS DESCRIPTION**

Linn Operating, Incorporated (Linn) is a subsidiary of Linn Energy, LLC, an oil and gas development and acquisition company with headquarters in Houston, Texas. Linn Energy, LLC was founded in 2003 and became a publicly traded company in January, 2006. It is one of the top 25 largest independent producers of oil and gas in the United States with diversified operations in Mid-Continent, California and Appalachia. Linn operates the Brea-Olinda oilfield located in Brea, California. Brea-Olinda is California's 16<sup>th</sup> largest oilfield and is the LA Basin's oldest large oilfield. This Linn Energy, LLC Western US Operations account for 12% of the company's total reserves and comprise 89% crude oil. As of 2009, Linn is the principal operator at the Brea-Olinda Oilfield with 361 active wells. Other operators at this site include Breitburn, Cooper and Brain, and Thompson Energy Resources, LLC.

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Linn operates the Stearns Gas Plant, Tonner Stearns Tank Farm and Stearns/Brea-Olinda Oil Fields. The gas plant treats field gas from oil production wells from several neighboring oil and gas leases that are now owned and operated by Linn. Linn also operates two simple-cycle gas turbines which burn processed field gas to generate electricity. The electricity is used at the facility with the excess sold to Southern California Edison. An emergency flare and new process flare dispose of the gas which is not used by the gas turbines and small process heaters. Linn produces approximately 3000 gross barrels of oil per day and 16,000 barrels of water per day from five tank farms at the site.

Linn filed the referenced permit applications on January 3, 2012 to modify the Facility Permit. When Blacksand Energy (ID 136516) operated the Stearns/Brea-Olinda Oilfield, a section of the field was sold to Shea Homes, a residential housing developer. As a result, the facilities and equipment that were located within the residential housing areas were relocated, abandoned or demolished. This included the east Naranjal Tank Farm. The production fluids that flowed into the east Naranjal Tank Farm were rerouted into the Tonner Stearns Tank Farm located on the west side of the field. New equipment and facilities required to transfer the fluids and expand the oil/water processing capacity at the Tonner Stearns Facility were proposed under permit application 415517 submitted by Blacksand Energy.

While the project was being constructed, further discrepancies were identified in the FP. Another application, 458727, was filed by Blacksand Energy. Before the two applications could be processed, Blacksand Energy was sold to Linn Operating. It is AQMD policy that open applications are non-transferable due to a change of ownership; hence, the modifications requested in A/N's 415517 and 458727 were never incorporated in Linn's FP. The permit applications referenced in this permit evaluation seek to correct these non-inclusions.

Based on the inspector's findings, there are six Linn facilities in this area that are connected. These facilities are the following :

*or operator*  
*but they are separate facilities.*  
*AQA/KAS*

Facility Name	AQMD ID No.	Location
Stearns	151532 (RECLAIM/Title V)	500 N. Kraemer Blvd. Brea 92821
Brea Canyon Home	152054 (RECLAIM)	1531 Brea Canyon Rd. Brea 92821
Brea Canyon Tonner	152055	15000 Tonner Canyon Rd. Brea 92821
Aera Yorba Linda	151394 (RECLAIM)	4024 Valley View Ave. Yorba Linda 92886
Facility Name	AQMD ID No.	Location
Aera Brea	151415 (RECLAIM)	2000 Site Dr. Brea 92821
West Naranjal	151695	Site Dr./Central Ave. Brea 92821

The referenced permit applications were filed on Jan. 3, 2012. The company paid the following processing fees:

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Eqpt. Description	Appl. No.	B-Cat/C-Cat No.	Processing Fees Paid
Facility Permit Amendment, RECLAIM/Title V	531400	555009	\$1,747.19
Crude Oil/Gas/Water Separation, ≥ 400 bpd	531398	231809	\$5,330.66 (under R301.1 amnesty program)

### COMPLIANCE REVIEW

Most recent RECLAIM/Title V compliance inspection - Sept. 30, 2014

Most recent regular variance - Case No. 5711-8 issued June 27, 2012 to Linn (compliance achieved Feb. 14, 2013).

Violation Notices Issued – NOV P55644 (issued 3/12/2014); NC E29407 (issued 9/30/2014)

*↳ unpermitted  
IC engine*

*↳ info request*

*[Handwritten initials]*

### EMISSION CALCULATIONS

Based on the emissions calculations submitted by Linn's consultant, the modification project lowers the VOC emissions by 3 lbs/day. The calculated post-modification emissions amounted to 5.99 lbs/day (0.25 lb/hr) of VOC. Emissions decreased because the east Naranjal Tank Farm was removed from service due to the sale of a portion of the oilfield to a private residential company. Some equipment were abandoned or demolished. The calculations were reviewed and found to be reasonably accurate. Operating hours for the equipment are 24 hrs/day, 7 days/wk, 52 wks/yr. Detailed calculations are in the evaluation files.

### 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 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.

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The modification results in emission decrease. The application does not require any public notice per subsections (c)(1), (c)(2) and (c)(3).

**RULE 401 - VISIBLE EMISSIONS**

This rule limits visible emissions to opacity of less than 20 percent (Ringlemann No.1), as published by the United States Bureau of Mines. Compliance with this rule is expected from all combustion equipment at the facility.

**RULE 402 - NUISANCE**

This rule requires that a person not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which cause, or have a natural tendency to cause injury or damage to business or property. The facility is expected to continue to operate in compliance.

**RULE 409 – COMBUSTION CONTAMINANTS**

This rule restricts the discharge of contaminants from the combustion of fuel to 0.1 grain per cubic foot of gas, calculated to 12% CO<sub>2</sub>, averaged over 15 minutes. The modification does not involve combustion equipment. A detailed analysis of Rule 409 is not required.

**RULE 431.1-SULFUR CONTENT OF GASEOUS FUELS**

The purpose of this rule is to reduce sulfur oxides (SO<sub>x</sub>) emissions from the burning of gaseous fuels in stationary equipment requiring a permit to operate by the South Coast Air Quality Management District (District). The rule limits the H<sub>2</sub>S content of gaseous fuel to be less than 40 ppmv. Section (g)(8) provides an exemption to “any facility which emits less than 5 pounds per day total sulfur compounds, calculated as H<sub>2</sub>S, from the burning of gaseous fuels other than natural gas”. Facility Condition F2.1 addresses this issue. Compliance is expected from the facility.

**RULE 462 – ORGANIC LIQUID LOADING**

This rule is intended to control emissions of volatile organic compounds from facilities that load organic liquids with a vapor pressure of 1.5 psia or greater under actual loading conditions into any tank truck, trailer, or railroad tank car. Linn operates bulk loading equipment under device id nos. D85 and D146. The bulk loading is for liquefied petroleum gas (lpg) and propane only. These fuels do not qualify as organic liquids per the definition of Rule 462(b)(11). Rule 462 is, therefore, not applicable to the facility.

**RULE 463 – ORGANIC LIQUID STORAGE**

This rule imposes tank roof requirements on oil production sites that produce more than 30 bpd and have storage tanks with a capacity of 472 barrels or greater.

Rule 463(c)(3) - The tanks at the facility that are 472 barrels or greater in capacity are fixed roof and equipped with the required vapor control device. Linn Operating, Inc. operates a vapor recovery unit to comply with the requirements of this subsection. The tank covers are vapor tight and closed at all times except during gauging or sampling. The facility is expected to operate in compliance.

**RULE 466 – PUMPS AND COMPRESSORS**

This rule is applicable to pumps and compressors that handle reactive organic compounds. The facility is subject to Rule 1173 and is exempt from the requirements of this rule per Rule 1173(l)(3).

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**RULE 466.1 – VALVES AND FLANGES**

This rule is applicable to valves and flanges in reactive organic compound service. The facility is subject to Rule 1173 and is exempt from the requirements of this rule per Rule 1173(l)(3).

**RULE 467 – PRESSURE RELIEF DEVICES**

This rule is applicable to pressure relief devices that handle reactive organic compounds. The facility is subject to Rule 1173 and is exempt from the requirements of this rule per Rule 1173(l)(3).

**RULE 1148.1 – OIL AND GAS PRODUCTION WELLS**

The purpose of this rule is to reduce emissions of volatile organic compounds from the wellheads, the well cellars and the handling of produced gas at oil and gas production facilities.

Rule 1148.1(d)(6) - Effective January 1, 2006, the operator of an oil and gas production facility shall not allow natural gas or produced gas to be vented into the atmosphere. The emissions of produced gas shall be collected and controlled using one of the following:

- (A) A system handling gas for fuel, sale, or underground injection; or
- (B) A device, approved by the Executive Officer, with a VOC vapor removal efficiency demonstrated to be at least 95% by weight per test method of paragraph (g)(2) or by demonstrating an outlet VOC concentration of 50 ppm according to the test method in paragraph (g)(1). If the control device uses supplemental natural gas to control VOC, it shall be equipped with a device that automatically shuts off the flow of natural gas in the event of a flame-out or pilot failure.

Linn sends the processed field gas to their two simple-cycle gas turbines for combusting to generate electricity. The electricity is used at the facility with the excess sold to Southern California Edison. An emergency flare and new process flare dispose of the gas which is not used by the gas turbines and small process heaters. Therefore, the facility complies with the requirements of section (d)(6). In addition, the facility is expected to maintain clean well cellars in accordance with this rule. Compliance is expected.

**RULE 1173 – CONTROL OF VOLATILE ORGANIC COMPOUND LEAKS AND RELEASES AT PETROLEUM FACILITIES AND CHEMICAL PLANTS**

This rule is applicable to components at refineries, chemical plants, oil and gas production fields, natural gas processing plants, and pipeline transfer stations. The requirements of this rule apply to this facility. Linn maintains a Rule 1173 Inspection and Monitoring Plan to meet all requirements of this rule. Continued compliance with the inspection and maintenance requirements of sections (e) to (g) is expected from the facility.

**RULE 1176 – VOC EMISSIONS FROM WASTEWATER SYSTEMS**

This rule applies to wastewater systems and associated control equipment at oil production fields. Requirements include covers on wastewater separators and quarterly monitoring of separators, closed vent systems and drain system components. Linn currently complies with the requirements of this rule. There are no changes to Linn’s wastewater system that are proposed with the project. Continued compliance is expected with this rule.

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### **REGULATION XIII – NEW SOURCE REVIEW**

#### **RULE 1303 - REQUIREMENTS**

This rule allows the Executive Officer to deny a Permit to Construct for any new, modified or relocated source which results in an emission increase of any nonattainment air contaminant, any ozone depleting compound, or ammonia, unless Best Available Control Technology (BACT) is used. The rule also requires modeling and offset (among other requirements) if there is a net increase in any nonattainment air contaminants for any new or modified source.

There are no emission increases that are associated with this permit application. This proposal is exempt from the requirements of the following sections of the rule :

1. (a) – BACT
2. (b)(1) – modeling and,
3. (b)(2) – offsets

#### **RULE 1401 – NEW SOURCE REVIEW OF TOXIC AIR CONTAMINANTS**

This rule is applicable to applications deemed complete on or after June 1, 1990 and it imposes specific limits for maximum individual cancer risk (MICR), cancer burden, and non-cancer acute and chronic hazard indices from new permit units, relocations, or modifications to existing permit units which emit toxic air contaminants (TAC) listed in Table I of Rule 1401. The rule establishes allowable risks for permit units requiring new permit pursuant to Rules 201 or 203. This modification project is not expected to result in an increase of the TAC emissions from the facility. A detailed analysis of the Rule 1401 compliance for this project is not required.

#### **RULE 1401.1 – REQUIREMENT FOR NEW AND RELOCATED FACILITIES NEAR SCHOOLS**

The purpose of this rule is to provide additional health protection to children at schools or schools under construction from new or relocated facilities emitting toxic air contaminants. Linn does not qualify as a new facility since it has equipment that were put in operation at this location prior to Nov. 4, 2005. The requirements of this rule do not apply.

#### **REGULATION XVII – PREVENTION OF SIGNIFICANT DETERIORATION (PSD)**

Per Rule 1701(b) applicability guidelines, PSD is applicable to attainment air contaminants of CO, NO<sub>2</sub> and SO<sub>2</sub>. There are no substantial increases of any of the referenced air contaminants expected from this modification project; a detailed PSD analysis is not required.

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

Linn is operating under the Regional Clean Air Incentives Market (RECLAIM) program and is complying with all applicable NO<sub>x</sub> RECLAIM rules. Linn is a RECLAIM Cycle 2 facility. It is subject to Reg XX.

This modification project does not impact NO<sub>x</sub> emissions. A detailed Reg XX rules evaluation is not required.

#### **Rule 2005(c) – Requirements for Existing RECLAIM facilities**

This subdivision requires BACT, modeling and proof of sufficient RECLAIM Trading Credits (RTC) for an application for a Facility Permit amendment that results in any increase in NO<sub>x</sub> and SO<sub>x</sub> emissions. According to 2005(d), “An increase in emissions occurs if a source’s maximum hourly

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potential to emit immediately prior to the proposed modification is less than the source's post-modification maximum hourly potential to emit. There will be no significant increase in the maximum hourly potential to emit NOx or SOx emissions. This subdivision does not apply.

**Rule 2005(g) – Additional Federal Requirements for Major Stationary Sources**

This subdivision lists additional requirements for application for a Facility Permit or an Amendment to a Facility Permit for a new, relocated or modified major stationary source, as defined in the Clean Air Act, 42, U.S.C. Section 7511a(e). Section 7511a(e)(2) defines modification as any change at a major stationary source which results in any increase in emissions. The modification project does not significantly increase NOx or SOx emissions; therefore this subdivision does not apply.

**Rule 2012 - Requirements for Monitoring, Reporting, and Recordkeeping for Oxides of Nitrogen (NOx) Emissions**

This modification project does not result in an increase in the NOx emissions. This subdivision does not apply.

**REGULATION XXX – TITLE V PERMITS**

Linn is also operating under the federal Title V program. The requirements of this regulation apply to the facility. Linn was issued its Title V permit renewal on Sept. 2, 2011 which is valid through Sept. 2, 2016. The modification project requires Linn to file for a Title V permit revision per Rule 3002(a). Per Rule 3000 (b)(15), this project is classified as a minor revision to the Title V facility permit because there are no significant increases in emissions of any contaminants. Public participation is not required as provided under the exemptions of Rule 3006(b). 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 Linn after completion of the required EPA review and any necessary follow-up.

**RECOMMENDATIONS**

Following the conclusion of the 45-day EPA review period and subject to any comments received during this period, it is recommended that the RECLAIM/Title V facility permit modification be issued to the facility with the permit conditions set forth above. This application is expected to comply with all applicable District Rules and Regulations.

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**ENGINEERING AND COMPLIANCE**

**MEMORANDUM**

**Date:** March 17, 2015  
**To:** Application File  
**From:** Maria Vibal  
**Subject:** Removal of Designation as NOx Process Unit for Device ID No. D86 (Heater)  
Linn Operating Inc. FID 151532; A/N 531400 – Minor Revision to FP

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The Broach H-640 heater fired on field gas was originally designated as a NOx process unit subject to the NOx RECLAIM testing, monitoring, reporting and recordkeeping requirements.

Further research on the heater shows that the unit is actually exempt from permit requirements per Rule 219(n)(4). The exemption is under the following equipment criterion :

- (4) Equipment used exclusively as water boilers, water or hydrocarbon heaters, and closed heat transfer systems (does not include steam generators used for oilfield steam injection) that have:
  - (A) a maximum heat input rate of 2,000,000 Btu per hour or less, and
  - (B) been equipped to be fired exclusively with purchased quality natural gas, liquefied petroleum gas, produced gas which contains less than 10 ppm hydrogen sulfide, or any combination thereof.

The heater is fired exclusively on produced gas containing less than 10 ppmv of H<sub>2</sub>S. Linn Operating provided gas analyses data which show that their produced gas contains less than 10 ppmv of H<sub>2</sub>S. These gas analyses data are in the evaluation file.

The heater therefore, does not meet the definition in Rule 2012(e)(1)(A) of a process unit as being liquid- or gaseous-fueled equipment with maximum rated capacity less than or equal to 2 million BTU per hour if the equipment is subject to permit requirements.

Since the heater does not meet the definition of a RECLAIM NOx process unit, this designation and the required emission limit requirements are removed from the Facility Permit. ✓