



# South Coast Air Quality Management District

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

August 17, 2012

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

**Subject:** Southern California Gas Company (ID 800128) – Title V Permit Revision

Dear Mr. Rios:

Southern California Gas Company has proposed to revise their Title V permit under application no. 539305 by the replacement of the existing air/fuel ratio controller for device C182 with a new air/fuel ratio controller. Southern California Gas Company is a public utility serving Southern California. The proposed permit revision is considered as a “minor permit revision” to their Title V permit. Attached for your review is the evaluation and Section D of the Facility Permit for the proposed revision. With the receipt of the proposed Title V permit revision today, we will note that the EPA 45-day review period begins on August 17, 2012.

If you have any questions or need additional information regarding the proposed permit revision, please call Mr. Kenneth L. Coats (909) 396-2527.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Brian L. Yeh', is written over a horizontal line.

Brian L. Yeh  
Senior Manager  
Mechanical, Chemical, and Public Services  
Engineering and Compliance

cc: John Clarke, Southern California Gas Company

BLY:AYL:JTY:klc  
Attachments



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

### 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: INTERNAL COMBUSTION</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, G-2, NATURAL GAS, WAUKESHA, MODEL L-7042-G, ID NO. 233200, DRIVING 500 KW GENERATOR, 818 HP WITH A/N: 367656	D1	C181	NOX: LARGE SOURCE**	CO: 150 PPMV NATURAL GAS (5A) [RULE 1303(b)(2) -Offset, 5-10-1996]; CO: 250 PPMV NATURAL GAS (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]; NOX: 20 PPMV NATURAL GAS (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV NATURAL GAS (5A) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]; VOC: 200 PPMV NATURAL GAS (5) [RULE 1303(b)(2)-Offset, 5-10-1996]	C10.1, D12.5, E115.1, H23.13, H23.14, K67.8
NON-SELECTIVE CATALYTIC REDUCTION, JOHNSON MATHEY, THREE-WAY CATALYST, MODEL BX90, WITH AIR TO FUEL RATIO CONTROLLER, WOODWARD GECO	C181	D1			

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



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<b>Process 1: INTERNAL COMBUSTION</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, G-4. NATURAL GAS, WAUKESHA, MODEL L-7042-G, ID NO. 252991, DRIVING 500 KW GENERATOR, 818 HP WITH A/N: 367657	D2	C182	NOX: LARGE SOURCE**	CH2O: 2.7 PPMV NATURAL GAS (8) [40CFR 63 Subpart ZZZZ, 1-18-2008]; CO: 150 PPMV NATURAL GAS (5A) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]; CO: 250 PPMV NATURAL GAS (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]; NOX: 20 PPMV NATURAL GAS (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV NATURAL GAS (5A) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]; VOC: 200 PPMV NATURAL GAS (5) [RULE 1303(b)(2)-Offset, 5-10-1996]	C10.1, D12.5, D12.7, D12.8, E115.1, E448.2, H23.13, H23.14, K67.8
NON-SELECTIVE CATALYTIC REDUCTION, JOHNSON MATTHEY, THREE-WAY CATALYST, MODEL BX90, AIR TO FUEL RATIO CONTROLLER, WOODWARD E3 RICH BURN	C182	D2			

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (3) Denotes RECLAIM concentration limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (4) Denotes BACT emission limit  
 (6) Denotes air toxic control rule limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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<b>Process 1: INTERNAL COMBUSTION</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, G-I, NATURAL GAS, WAUKESHA, MODEL L-7042-G, ID NO. 233201. DRIVING 500 KW GENERATOR, 818 HP WITH A/N: 367658	D3	C183	NOX: LARGE SOURCE**	CO: 250 PPMV NATURAL GAS (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]; NOX 20 PPMV NATURAL GAS (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV (5A) [RULE 1110.2, 6-3-2005, RULE 1110.2, 2-1-2008]; VOC: 200 PPMV NATURAL GAS (5A) [RULE 1110.2, 6-3-2005, RULE 1303(b)(2)-Offset, 5-10-1996]	C10.1, D12.5, E115.1, H23.13, H23.14, K67.8
NON-SELECTIVE CATALYTIC REDUCTION, JOHNSON MATTHEY, THREE WAY CATALYST, MODEL BX90. WITH AIR TO FUEL RATIO CONTROLLER, WOODWARD GECO	C183	D3			

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 1: INTERNAL COMBUSTION</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, G-3, NATURAL GAS, WAUKESHA, MODEL L-7042-G, ID NO. 233199, DRIVING 500 KW GENERATOR, 818 HP WITH A/N: 367659	D4	C184	NOX: LARGE SOURCE**	CO: 150 PPMV NATURAL GAS (5A) [RULE 1303(b)(2)-Offset, 5-10-1996]; CO: 250 PPMV NATURAL GAS (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]; NOX: 20 PPMV NATURAL GAS (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV NATURAL GAS (5A) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]; VOC: 200 PPMV (5) [RULE 1303(b)(2)-Offset, 5-10-1996]	C10.1, D12.5, E115.1, H23.13, H23.14, K67.8
NON-SELECTIVE CATALYTIC REDUCTION, JOHNSON MATTHEY, THREE WAY CATALYST, MODEL BX90, WITH AIR TO FUEL RATIO CONTROLLER, WOODWARD GECO, 500 KW	C184	D4			
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, K-2, NATURAL GAS, INGERSOLL-RAND, MODEL 412 KVS, WITH STAGED COMBUSTION, 2000 HP A/N: 153507	D6		NOX: MAJOR SOURCE**	CO: 250 PPMV NATURAL GAS (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]	D82.1

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
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 (5) (5A) (5B) Denotes command and control emission limit  
 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (4) Denotes BACT emission limit  
 (6) Denotes air toxic control rule limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 1: INTERNAL COMBUSTION</b>					
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, K-5, NATURAL GAS, INGERSOLL-RAND, MODEL 412 KVS, WITH STAGED COMBUSTION, 2000 HP A/N: 159101	D7		NOX: MAJOR SOURCE**	CO: 250 PPMV NATURAL GAS (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]	D82.1
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, K-1, NATURAL GAS, INGERSOLL-RAND, MODEL 412 KVS, WITH STAGED COMBUSTION, 2000 HP A/N: 159102	D8		NOX: MAJOR SOURCE**	CO: 250 PPMV NATURAL GAS (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]	D82.1
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, K-3, NATURAL GAS, INGERSOLL-RAND, MODEL 412 KVS, WITH STAGED COMBUSTION, 2000 HP A/N: 159103	D9		NOX: MAJOR SOURCE**	CO: 250 PPMV NATURAL GAS (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]	D82.1
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, K-4, NATURAL GAS, INGERSOLL-RAND, MODEL 412 KVS, WITH STAGED COMBUSTION, 2000 HP A/N: 159104	D10		NOX: MAJOR SOURCE**	CO: 250 PPMV NATURAL GAS (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]; PM: (9) [RULE 404, 2-7-1986]; VOC: 30 PPMV (5) [RULE 1110.2, 6-3-2005; RULE 1110.2, 2-1-2008]	D82.1
GAS TURBINE, NO. K-25, NATURAL GAS, GENERAL ELECTRIC, MODEL LM1500, 15,200 HP, 150 MMBTU/HR WITH A/N: 399080	D14		NOX: MAJOR SOURCE**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 50 LBS/HR NATURAL GAS (7) [RULE 2005, 4-20-2001]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	E193.1, H23.4
COMPRESSOR, CLARK MODEL 272B					

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

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<b>Process 1: INTERNAL COMBUSTION</b>					
GAS TURBINE, NO.K-26, NATURAL GAS, GENERAL ELECTRIC, MODEL LM1500, 15,200 HP, 150 MMBTU/HR WITH A/N: 399081	D15		NOX: MAJOR SOURCE**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 50 LBS/HR NATURAL GAS (7) [RULE 2005, 4-20-2001]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	E193.1, H23.4
COMPRESSOR, CLARK MODEL 272B					
GAS TURBINE, NO.K-27, NATURAL GAS, GENERAL ELECTRIC, MODEL LM1500, 15,200 HP, 150 MMBTU/HR WITH A/N: 399082	D16		NOX: MAJOR SOURCE**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 50 LBS/HR NATURAL GAS (7) [RULE 2005, 4-20-2001]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	E193.1, H23.4
COMPRESSOR, CLARK MODEL 272B					

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

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<b>Process 1: INTERNAL COMBUSTION</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, RICH BURN, NATURAL GAS, GENERAC, MODEL 6.8GNGD-100, NATURALLY ASPIRATED, 10 CYLINDERS, DRIVING AN EMERGENCY GENERATOR, 147 BHP WITH A/N: 525332	D215		NOX: PROCESS UNIT**	CO: 2 GRAM/BHP-HR NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; NOX: 1.5 GRAM/BHP-HR NATURAL GAS (4) [RULE 1703(a)(2) - PSD-BACT, 10-7-1988]; NOX: 394.86 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; VOC: 1.5 GRAM/BHP-HR NATURAL GAS (4) [RULE 1303(a)(1) -BACT, 12-6-2002]	C1.8, D12.6, E115.2, E175.2, H23.17, I296.1, K67.9, K67.10
NON-SELECTIVE CATALYTIC REDUCTION, GENERAC, MODEL NO. 0D5027A, WITH AIR FUEL RATIO CONTROLLER, MODEL NO. 0H2957B					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, RICH BURN, NATURAL GAS, GENERAC, MODEL 6.8GNGD-100, NATURALLY ASPIRATED, 10 CYLINDERS, DRIVING AN EMERGENCY GENERATOR, 147 BHP WITH A/N: 525332	D217		NOX: PROCESS UNIT**	CO: 2 GRAM/BHP-HR NATURAL GAS (4); NOX: 1.5 GRAM/BHP-HR NATURAL GAS (4); NOX: 394.86 LBS/MMSCF NATURAL GAS (1); VOC: 1.5 GRAM/BHP-HR NATURAL GAS (4)	C1.8, D12.6, E115.2, E175.2, H23.17, I296.1, K67.9, K67.10
NON-SELECTIVE CATALYTIC REDUCTION, GENERAC, MODEL NO. 0D5027A, WITH AIR FUEL RATIO CONTROLLER, MODEL NO. 0H2957B					

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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<b>Process 1: INTERNAL COMBUSTION</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, RICH BURN, NATURAL GAS. GENERAC. MODEL 6.8GNGD-130, NATURALLY ASPIRATED, 10 CYLINDERS, DRIVING AN EMERGENCY GENERATOR. 189 BHP WITH A/N: 525332  NON-SELECTIVE CATALYTIC REDUCTION, GENERAC, MODEL NO. 0D5027A, WITH AIR FUEL RATIO CONTROLLER, MODEL NO. 0H2957B	D218		NOX: PROCESS UNIT**	CO: 2 GRAM/BHP-HR NATURAL GAS (4); NOX: 1.5 GRAM/BHP-HR NATURAL GAS (4); NOX: 349.64 LBS/MMSCF NATURAL GAS (1); VOC: 1.5 GRAM/BHP-HR NATURAL GAS (4)	C1.8, D12.6, E115.2, E175.2, H23.17, I296.2, K67.9, K67.10
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, RICH BURN, NATURAL GAS. GENERAC, MODEL 13.3GTA-250, NATURALLY ASPIRATED, 10 CYLINDERS, DRIVING AN EMERGENCY GENERATOR. 385 BHP WITH A/N: 525332  NON-SELECTIVE CATALYTIC REDUCTION, GENERAC, MODEL NO. 0D5027A, WITH AIR FUEL RATIO CONTROLLER, MODEL NO. 0H2957B	D219		NOX: PROCESS UNIT**	CO: 2 GRAM/BHP-HR NATURAL GAS (4); NOX: 1.5 GRAM/BHP-HR NATURAL GAS (4); NOX: 369.13 LBS/MMSCF NATURAL GAS (1); VOC: 1.5 GRAM/BHP-HR NATURAL GAS (4)	C1.8, D12.6, E115.2, E175.2, H23.17, I296.3, K67.9, K67.10
<b>Process 2: PETROLEUM STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. T-10, WASTE WATER, CRUDE OIL, 4200 GALS; DIAMETER: 8 FT; HEIGHT: 8 FT A/N: 256062	D22				

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
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- (9) See App B for Emission Limits
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- (4) Denotes BACT emission limit
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<b>Process 2: PETROLEUM STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. T-11, WASTE WATER/CRUDE OIL, 4200 GALS; DIAMETER: 8 FT ; HEIGHT: 8 FT A/N: 256063	D23				
STORAGE TANK, FIXED ROOF, NO. T-67, SURGE, VENTED TO VAPOR RECOVERY SYSTEM, 1000 BBL; DIAMETER: 22 FT ; HEIGHT: 16 FT A/N: 259719	D25	C152 C163			E57.1, E127.1, H23.1
STORAGE TANK, FIXED ROOF, NO. T-9, VENTED TO VAPOR RECOVERY SYSTEM, 4000 BBL; DIAMETER: 35 FT ; HEIGHT: 24 FT A/N: C08883	D27	C152 C163			E57.1, H23.1
STORAGE TANK, FIXED ROOF, NO. T-99, VENTED TO VAPOR RECOVERY SYSTEM, 2000 BBL; DIAMETER: 29 FT ; HEIGHT: 16 FT A/N: C08887	D29	C152 C163			E57.1, H23.1
STORAGE TANK, FIXED ROOF, NO. T-15, SURGE, VENTED TO VAPOR RECOVERY SYSTEM, 3000 BBL; DIAMETER: 25 FT ; HEIGHT: 24 FT A/N: C08890	D31	C189 C190			E57.1, H23.1
STORAGE TANK, FIXED ROOF, NO. T-2, VENTED TO VAPOR RECOVERY SYSTEM, 1500 BBL; DIAMETER: 25 FT ; HEIGHT: 20 FT A/N: C08892	D32	C189 C190			E57.1, H23.1

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
  - (3) Denotes RECLAIM concentration limit
  - (5) (5A) (5B) Denotes command and control emission limit
  - (7) Denotes NSR applicability limit
  - (9) See App B for Emission Limits
  - (2) (2A) (2B) Denotes RECLAIM emission rate
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  - (6) Denotes air toxic control rule limit
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<b>Process 2: PETROLEUM STORAGE TANKS</b>					P13.1
STORAGE TANK, FIXED ROOF, NO. T-1, VENTED TO VAPOR RECOVERY SYSTEM, 1500 BBL; DIAMETER: 25 FT; HEIGHT 18 FT A/N: C08893	D33	C189 C190			E57.1, H23.1
STORAGE TANK, FIXED ROOF, NO. T-31, VENTED TO VAPOR RECOVERY SYSTEM, 10000 BBL; DIAMETER: 47 FT 6 IN; HEIGHT: 32 FT A/N: C13140	D35	C164 C192			E57.1, H23.1
STORAGE TANK, FIXED ROOF, NO. T-32, VENTED TO VAPOR RECOVERY SYSTEM, 10000 BBL; DIAMETER: 47 FT 6 IN; HEIGHT: 32 FT A/N: C13141	D36	C164 C192			E57.1, H23.1
TANK, FIXED ROOF, SURGE, NO. 29101, VENTED TO VAPOR RECOVERY SYSTEM, 2000 BBL; DIAMETER: 29 FT 9 IN; HEIGHT: 16 FT 1 IN A/N: 298461	D139	C151			E57.1, H23.1
TANK, FIXED ROOF, SURGE, NO. 29102, VENTED TO VAPOR RECOVERY SYSTEM, 2000 BBL; DIAMETER: 29 FT 9 IN; HEIGHT: 16 FT 1 IN A/N: 298461	D140	C151			E57.1, H23.1
TANK, FIXED ROOF, WASH. NO. 1M91X, 1000 BBL; DIAMETER: 21 FT 6 IN; HEIGHT: 16 FT A/N: 298461	D141	C152 C163			E57.1, H23.1

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

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



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions And Requirements	Conditions
<b>Process 2: PETROLEUM STORAGE TANKS</b>					P13.1
TANK, FIXED ROOF, WASH. IM91Y, VENTED TO VAPOR RECOVERY SYSTEM. 1000 BBL; DIAMETER: 21 FT 6 IN; HEIGHT: 16 FT A/N: 298461	D142	C152 C163			E57.1, H23.1
TANK, 03M02C, CRUDE OIL, VENTED TO VAPOR RECOVERY, 3000 BBL, DIAMETER: 29 FT 8 IN; HEIGHT: 24 FT A/N: 372095	D134	C189 C190			E57.1, H23.1
TANK, NO. T2964, CRUDE OIL, FIXED ROOF, VENTED TO VAPOR RECOVERY. 5000 BBL; DIAMETER: 38 FT ; HEIGHT: 24 FT A/N: 372095	D136	C189 C190			E57.1, H23.1
<b>Process 4: NATURAL GAS DISTRIBUTION PROCESS</b>					
<b>System 2: GAS ODORIZATION - PORTER</b>					
STORAGE TANK, PRESSURIZED, ODORANT, PRESSURIZED. 1000 GALS; DIAMETER: 3 FT 6 IN; HEIGHT: 15 FT A/N: 482615	D196	C199			E175.1, E179.1
CARBON FILTER A/N: 482615	C60			<b>H2S: 4 PPMV (5) [RULE 3004(a) (4)-Periodic Monitoring, 12-12-1997]</b>	D90.1, K67.3
STORAGE TANK, PRESSURIZED, ODORANT. 90 GALS; DIAMETER: 1 FT 8 IN; LENGTH: 5 FT A/N: 136334	D61				E175.1, E179.1
CARBON FILTER A/N: 482615	C199	D196		<b>H2S: 16 PPMV (5) [RULE 431.1, 6-12-1998]</b>	D90.1, E153.1, K67.3

- (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 SO CAL GAS CO (EIS USE)

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4: NATURAL GAS DISTRIBUTION PROCESS</b>					
ODORANT DISPENSING EQUIPMENT A/N: 482622	D202				
<b>System 3: GAS ODORIZATION - DEHY 1</b>					
STORAGE TANK, FIXED ROOF, ODORANT, PRESSURIZED, 3000 GALS; DIAMETER: 6 FT ; LENGTH: 15 FT A/N: 482622	D63				E175.1, E179.1
CARBON FILTER A/N: 482622	C65			H2S: 4 PPMV (5) [RULE 3004(a) (4)-Periodic Monitoring, 12-12-1997]	D90.1, K67.3
STORAGE TANK, PRESSURIZED, ODORANT, PRESSURIZED, 3000 GALS, DIAMETER: 6 FT ; HEIGHT 15 FT A/N: 482622	D197	C200			E175.1, E179.1
CARBON FILTER A/N: 482622	C200	D197		H2S: 16 PPMV (5) [RULE 431.1, 6-12-1998]	D90.1, E153.1, K67.3
ODORANT DISPENSING EQUIPMENT A/N: 482615	D203				
<b>System 4: GAS ODORIZATION - DEHY 2</b>					
STORAGE TANK, FIXED ROOF, ODORANT, PRESSURIZED, 2000 GALS; DIAMETER: 4 FT ; LENGTH: 15 FT A/N: 482623	D67				E175.1, E179.1
CARBON FILTER A/N:	C69			H2S: 4 PPMV (5) [RULE 3004(a) (4)-Periodic Monitoring, 12-12-1997]	D90.1, K67.3

- \* (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 SO CAL GAS CO (EIS USE)

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4: NATURAL GAS DISTRIBUTION PROCESS</b>					
STORAGE TANK, PRESSURIZED, ODORANT, PRESSURIZED, 2000 GALS, DIAMETER: 4 FT ; HEIGHT: 15 FT A/N: 482623	D198	C201			E175.1, E179.1
ODORANT DISPENSING EQUIPMENT A/N: 482623	D204				
CARBON FILTER A/N: 482623	C201	D198		H2S: 16 PPMV (5) [RULE 431.1, 6-12-1998]	D90.1, E153.1, K67.3
<b>Process 5: OIL/GAS/WATER SEPARATION PROCESS</b>					
<b>System 1: DEHYDRATION PLANT 1</b>					
FLARE, ELEVATED WITHOUT STEAM, FS-1, ACTING AS AN AFTERBURNER, NATURAL GAS, 16000 SCFH CAPACITY, HEIGHT: 33 FT 6 IN; DIAMETER: 4 FT 5.5 IN. 16.8 MMBTU/HR A/N: 442030	C93	D106 D168	NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C1.6, D12.3, K67.2
KNOCK OUT POT, V-7, VENT GAS, HEIGHT: 12 FT ; DIAMETER: 1 FT .75 IN A/N: 442030	D97	D106 D116			
SUMP, DRAINAGE, COVERED. WIDTH: 5 FT . DEPTH: 10 FT . LENGTH: 10 FT A/N: 442030	D99	C100			
CARBON ADSORBER, 150 LBS A/N: 442030	C100	D99		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	D90.2, K67.4

- \* (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 SO CAL GAS CO (EIS USE)

### 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 5: OIL/GAS/WATER SEPARATION PROCESS</b>					
DRUM, V-102X, FLASH GAS KNOCKOUT DRUM, LENGTH: 6 FT ; DIAMETER 2 FT A/N 442030	D106	C93 D97			
VESSEL, C-3, RECTIFIER COLUMN, HEIGHT: 69 FT 2 IN; DIAMETER: 3 FT A/N: 442030	D115	D116			
KNOCK OUT POT, V-5, RECTIFIER OVERHEAD AND LEAN STRIPPER GAS, HEIGHT: 8 FT ; DIAMETER: 2 FT A/N: 442030	D116	D97 D115			
<b>System 2: DEHYDRATION PLANT 2</b>					
FLARE, ELEVATED WITHOUT STEAM, FS-2, ACTING AS AN AFTERBURNER, NATURAL GAS, 16000 SCFH CAPACITY, HEIGHT: 33 FT 6 IN, DIAMETER: 4 FT 5.5 IN; 16.8 MMBTU/HR A/N: 244294	C98	D76	NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982], NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C1.6, D12.3, K67.2
KNOCK OUT POT, V-62, VENT GAS, HEIGHT: 8 FT ; DIAMETER: 1 FT 3 IN A/N: 244294	D76	C98			
SUMP, DRAINAGE, 3-COMPARTMENT, COVERED, WIDTH: 5 FT ; HEIGHT: 14 FT ; LENGTH 10 FT A/N: 244294	D77	C78			
CARBON ADSORBER, 150 LBS A/N: 244294	C78	D77		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	D90.2, K67.4

- \* (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 SO CAL GAS CO (EIS USE)

### 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 5: OIL/GAS/WATER SEPARATION PROCESS</b>					
DRUM, V-46, PRIMARY FLASH DRUM, HEIGHT: 12 FT ; DIAMETER: 4 FT A/N: 244294	D108				
<b>System 3: WATER CLARIFICATION</b>					
TANK, NO. 03M02A, WASTE WATER, FIXED ROOF, 3000 BBL. DIAMETER: 29 FT 9 IN, HEIGHT: 24 FT A/N: 287367	D137	C189 C190			E57.1, H23.1
TANK, WASH, NO. 03M02B, FIXED ROOF, 3000 BBL; DIAMETER: 29 FT 9 IN; HEIGHT: 24 FT A/N: 287367	D138	C189 C190			E57.1, H23.1
<b>Process 6: EXTERNAL COMBUSTION BOILER</b>					
HEATER, H-6, NATURAL GAS, CE NATCO, MODEL VFH, 5 MMBTU/HR A/N: 229756	D83		NOX: PROCESS UNIT**	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 47.75 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D332.1
HEATER, H-20, NATURAL GAS, CE NATCO, MODEL VFH, 3 MMBTU/HR A/N: 229757	D84		NOX: PROCESS UNIT**	CO: 400 PPMV (5A) [RULE 1146.1, 5-13-1994]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]. NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D332.2

- \* (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 SO CAL GAS CO (EIS USE)

### 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 6: EXTERNAL COMBUSTION BOILER</b>					
HEATER, LIQUID HEATER NO.1, NATURAL GAS. AMERICAN HEATER COMPANY, MODEL AHE-650, WITH LOW NOX BURNER, 6.5 MMBTU/HR WITH A/N: 347641	D175		NOX: PROCESS UNIT**	CO: 50 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]; CO: 400 PPMV NATURAL GAS (5A) [RULE 1146, 11-17-2000]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 20 PPMV NATURAL GAS (4) [RULE 2005, 4-20-2001]; NOX: 47.75 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D12.2, D28.2, E80.1
BURNER, NATURAL GAS, POWER FLAME, MODEL C5-G-30, WITH LOW NOX BURNER, 6.5 MMBTU/HR					

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

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



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

### 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 6: EXTERNAL COMBUSTION BOILER</b>					
HEATER, LIQUID HEATER NO. 2, NATURAL GAS, AMERICAN HEATER COMPANY, MODEL AHE-650, WITH LOW NOX BURNER, 6.5 MMBTU/HR WITH A/N: 347643	D176		NOX: PROCESS UNIT**	CO: 50 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]; CO: 400 PPMV NATURAL GAS (5A) [RULE 1146, 11-17-2000]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 20 PPMV NATURAL GAS (4) [RULE 2005, 4-20-2001]; NOX: 47.75 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D12.2, D28.2, E80.2
BURNER, NATURAL GAS, POWER FLAME, MODEL CS-G-30, WITH LOW NOX BURNER, 6.5 MMBTU/HR					

- \* (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 SO CAL GAS CO (EIS USE)

### 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 <sup>*</sup> And Requirements	Conditions
<b>Process 6: EXTERNAL COMBUSTION BOILER</b>					
HEATER, LIQUID HEATER NO. 3, NATURAL GAS. AMERICAN HEATER COMPANY, MODEL AHE-650, 6.5 MMBTU/HR WITH A/N: 347644	D177		NOX: PROCESS UNIT**	CO: 50 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1) -BACT, 12-6-2002]; CO: 400 PPMV NATURAL GAS (5A) [RULE 1146, 11-17-2000]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 20 PPMV NATURAL GAS (4) [RULE 2005, 4-20-2001]; NOX: 47.75 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D12.2, D28.2
BURNER, NATURAL GAS, POWER FLAME, MODEL C5-G-30, WITH LOW NOX BURNER, 6.5 MMBTU/HR					
<b>Process 9: CONSUMER FLEET REFUELING</b>					
STORAGE TANK, ABOVEGROUND, FIREGUARD (G-70-162-A), 5000 GALS; WIDTH: 7 FT 4 IN; HEIGHT: 3 FT 4 IN; LENGTH: 27 FT 4 IN A/N: 465761	D91				D330.1, E448.1, J109.1
FUEL DISPENSING NOZZLE, BALANCE TYPE PHASE II CONTROL, GASOLINE A/N: 465761	D92				D330.1, E448.1, J110.1, J373.5
<b>Process 11: FUGITIVE EMISSIONS</b>					
FUGITIVE EMISSIONS, DRAINS A/N: 298461	D174				

- \* (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 SO CAL GAS CO (EIS USE)

### 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 12: VAPOR RECOVERY SYSTEMS</b>					
<b>System 2: VAPOR RECOVERY SYSTEM 2 (SHALLOW ZONE)</b>					
COMPRESSOR, VAPOR RECOVERY, ELECTRICALLY DRIVEN A/N: 298458	C151	D139 D140			
<b>System 3: VAPOR RECOVERY SYSTEM 3 (SESNON STORAGE)</b>					
COMPRESSOR, VAPOR RECOVERY, SESNON STORAGE, ELECTRICALLY DRIVEN A/N: 298458	C163	D25 D27 D29 D141 D142			
COMPRESSOR, VAPOR RECOVERY, ELECTRICALLY DRIVEN A/N: 298458	C152	D25 D27 D29 D141 D142			
<b>System 4: VAPOR RECOVERY SYSTEM 4 (LIMEKILN)</b>					
COMPRESSOR, VAPOR RECOVERY, LIMEKILN, ELECTRICALLY DRIVEN A/N: 420855	C164	D35 D36 C192			
COMPRESSOR, VAPOR RECOVERY, LIMEKILN, ELECTRICALLY DRIVEN A/N: 420855	C192	D35 D36 C164			
<b>System 5: VAPOR RECOVERY SYSTEM 5 (PORTER GATHERING PLANT &amp; WATER PLANT)</b>					
COMPRESSOR, VAPOR RECOVERY, ELECTRICALLY DRIVEN A/N: 372096	C189	D31 D32 D33 D134 D136 D137 D138			
COMPRESSOR, VAPOR RECOVERY, ELECTRICALLY DRIVEN A/N: 372096	C190	D31 D32 D33 D134 D136 D137 D138			
<b>System 6: VAPOR RECOVERY SYSTEM PORTABLE (INTRA-FACILITY)</b>					

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



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

### 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 12: VAPOR RECOVERY SYSTEMS</b>					
CARBON ADSORBER, WESTATES, MODEL 400, PORTABLE (INTRA-FACILITY), 400 LBS A/N: 482614	C195			H2S: 16 PPMV NATURAL GAS (5) [RULE 431.1, 6-12-1998]	D90.1, E153.1, H23.15, K67.3
CARBON ADSORBER, WESTATES, MODEL 400, PORTABLE (INTRA-FACILITY), 400 LBS A/N: 482614	C205			H2S: 16 PPMV NATURAL GAS (5) [RULE 431.1, 6-12-1998]	D90.1, E153.1, H23.15, K67.3
CARBON ADSORBER, WESTATES, MODEL 400, PORTABLE (INTRA-FACILITY), 400 LBS A/N: 499345	C206			H2S: 16 PPMV NATURAL GAS (5) [RULE 431.1, 5-6-1983]	D90.1, E153.1, H23.15, K67.3
CARBON ADSORBER, WESTATES, MODEL 400, PORTABLE (INTRA-FACILITY), 400 LBS A/N: 499345	C207			H2S: 16 PPMV NATURAL GAS (5) [RULE 431.1, 6-12-1998]	D90.1, E153.1, H23.15, K67.3
CARBON ADSORBER, WESTATES, MODEL 400, PORTABLE (INTRA-FACILITY), 400 LBS A/N: 499346	C208			H2S: 16 PPMV NATURAL GAS (5) [RULE 431.1, 6-12-1998]	D90.1, E153.1, H23.15, K67.3
CARBON ADSORBER, WESTATES, MODEL 400, PORTABLE (INTRA-FACILITY), 400 LBS A/N: 499346	C209			H2S: 16 PPMV NATURAL GAS (5) [RULE 431.1, 6-12-1998]	D90.1, E153.1, H23.15, K67.3
<b>Process 13: BULK OIL LOADING FACILITY</b>					
LOADING ARM, TANK TRUCK, CRUDE OIL, CONNECTED TO FLARE (FS-1), WITH SUBMERGED FILLING, 1 TOTAL; DIAMETER: 6 IN A/N: 441423	D168	C93			C1.5, E178.1
<b>Process 14: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES</b>					

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

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



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

### 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 14: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES</b>					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E169			VOC: (9) [RULE 1113, 11-8-1996; RULE 1113, 12-5-2003; RULE 1171, 8-2-2002; RULE 1171, 11-7-2003]	K67.7
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E171			VOC: (9) [RULE 1171, 8-2-2002; RULE 1171, 11-7-2003]	H23.5
RULE 219 EXEMPT EQUIPMENT, WELL HEADS AND PUMPS, OIL AND GAS	E172				
RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS	E173				H23.2
<b>Process 15: ARCHITECTURAL COATINGS</b>					
SPRAY COATING OPERATION A/N: 171905	D193				C1.7, H23.12, K67.7

- \* (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  
SO CAL GAS CO (EIS USE)**

**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 SO CAL GAS CO (EIS USE)

### SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1	1	1	0
D2	2	1	0
D3	3	1	0
D4	4	1	0
D6	4	1	0
D7	5	1	0
D8	5	1	0
D9	5	1	0
D10	5	1	0
D14	5	1	0
D15	6	1	0
D16	6	1	0
D22	8	2	0
D23	9	2	0
D25	9	2	0
D27	9	2	0
D29	9	2	0
D31	9	2	0
D32	9	2	0
D33	10	2	0
D35	10	2	0
D36	10	2	0
C60	11	4	2
D61	11	4	2
D63	12	4	3
C65	12	4	3
D67	12	4	4
C69	12	4	4
D76	14	5	2
D77	14	5	2
C78	14	5	2
D83	15	6	0
D84	15	6	0
D91	18	9	0
D92	18	9	0





## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

### SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
C93	13	5	1
D97	13	5	1
C98	14	5	2
D99	13	5	1
C100	13	5	1
D106	14	5	1
D108	15	5	2
D115	14	5	1
D116	14	5	1
D134	11	2	0
D136	11	2	0
D137	15	5	3
D138	15	5	3
D139	10	2	0
D140	10	2	0
D141	10	2	0
D142	11	2	0
C151	19	12	2
C152	19	12	3
C163	19	12	3
C164	19	12	4
D168	20	13	0
E169	21	14	0
E171	21	14	0
E172	21	14	0
E173	21	14	0
D174	18	11	0
D175	16	6	0
D176	17	6	0
D177	18	6	0
C181	1	1	0
C182	2	1	0
C183	3	1	0
C184	4	1	0
C189	19	12	5



**FACILITY PERMIT TO OPERATE  
SO CAL GAS CO (EIS USE)**

**SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
C190	19	12	5
C192	19	12	4
D193	21	15	0
C195	20	12	6
D196	11	4	2
D197	12	4	3
D198	13	4	4
C199	11	4	2
C200	12	4	3
C201	13	4	4
D202	12	4	2
D203	12	4	3
D204	13	4	4
C205	20	12	6
C206	20	12	6
C207	20	12	6
C208	20	12	6
C209	20	12	6
D215	7	1	0
D217	7	1	0
D218	8	1	0
D219	8	1	0



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

#### FACILITY CONDITIONS

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

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

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

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

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, 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
VOC	District Rule	1149



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

[RULE 1149, 7-14-1995]

[Processes subject to this condition : 2]

#### DEVICE CONDITIONS

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

C1.5 The operator shall limit the loading rate to no more than 2.10 MM gallons per month.

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

[Devices subject to this condition : D168]

C1.6 The operator shall limit the fuel usage to no more than 23000 MM Btu in any one year.

The purpose(s) of this condition is to ensure that this equipment qualifies as a process unit.

[RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

[Devices subject to this condition : C93, C98]

C1.7 The operator shall limit the coating and solvent usage to no more than 6.5 gallon(s) per day.

[RULE 1113, 11-8-1996; RULE 1113, 6-9-2006]

[Devices subject to this condition : D193]



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

C1.8 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

For the purpose of this condition, this limit shall include no more than 50 hours in any one year for maintenance and testing and no more than 4.2 hours in any one month for maintenance and testing.

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

[Devices subject to this condition : D215, D217, D218, D219]

C10.1 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is maintained between 750 and 1250 Deg F.

The operator shall monitor the temperature at the inlet of the non-selective catalytic reduction (NSCR) system. The temperature shall be measured based on a 4-hour rolling average.

[RULE 1110.2, 11-14-1997; 40CFR 63 Subpart ZZZZ, 4-20-2006]

[Devices subject to this condition : D1, D2, D3, D4]

#### D. Monitoring/Testing Requirements

D12.2 The operator shall install and maintain a(n) non-resettable totalizing fuel flow meter to accurately indicate the fuel usage of the equipment.

[RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]

[Devices subject to this condition : D175, D176, D177]

D12.3 The operator shall install and maintain a(n) thermocouple to accurately indicate the presence of a flame at the pilot light.



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

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

[Devices subject to this condition : C93, C98]

- D12.5 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature at the inlet to the NSCR.

**[RULE 1110.2, 6-3-2005; 40CFR 63 Subpart ZZZZ, 4-20-2006]**

[Devices subject to this condition : D1, D2, D3, D4]

- D12.6 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

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

[Devices subject to this condition : D215, D217, D218, D219]

- D12.7 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the catalyst.

The operator shall maintain the catalyst such that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test.

**[40CFR 63 Subpart ZZZZ, 1-18-2008]**

[Devices subject to this condition : D2]

- D12.8 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature at the inlet of the catalyst.



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

The exhaust temperature shall be maintained such that the catalyst inlet temperature is greater than or equal to 750 degrees Fahrenheit and less than or equal to 1,250 degrees Fahrenheit

[40CFR 63 Subpart ZZZZ, 1-18-2008]

[Devices subject to this condition : D2]

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

The test shall be conducted to demonstrate compliance with Rule 1303 concentration limit.

The test shall be conducted to determine compliance with the CO emissions by either: (a) conducting a source test using District method 100.1 measured over a 30 minute averaging time, or (b) using a portable analyzer and a District-approved test method.

The test shall be conducted at least annually.

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

The test shall be conducted when the equipment is operating under normal conditions. No test shall be required in any one year for which the equipment is not in operation.

[RULE 1146, 5-13-1994; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D175, D176, D177]

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



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

NOX concentration in ppmv

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

**[RULE 2012, 12-7-1995]**

[Devices subject to this condition : D6, D7, D8, D9, D10]

D90.1 The operator shall periodically monitor the H<sub>2</sub>S concentration at the outlet according to the following specifications:

The operator shall monitor once during each odorant transfer.

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

[Devices subject to this condition : C60, C65, C69, C195, C199, C200, C201, C205, C206, C207, C208, C209]

D90.2 The operator shall periodically monitor the VOC concentration at the outlet of the activated carbon adsorber according to the following specifications:

The operator shall monitor once every month.

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

[Devices subject to this condition : C78, C100]





## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

D330.1 The operator shall have a person that has been trained in accordance with Rule 461 conduct a semi-annual inspection of the gasoline transfer and dispensing equipment. The first inspection shall be in accordance with Rule 461, Attachment B, the second inspection shall be in accordance with Rule 461, Attachment C, and the subsequent inspections shall alternate protocols. The operator shall keep records of the inspection and the repairs in accordance to Rule 461 and Section K of this Permit.

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

[Devices subject to this condition : D91, D92]

D332.1 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD-approved test method or, if not available, a non-AQMD approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 1146 concentration limit. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

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

[Devices subject to this condition : D83]

D332.2 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD-approved test method or, if not available, a non-AQMD approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 1146.1 concentration limit. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

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



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

### 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 : D84]

#### E. Equipment Operation/Construction Requirements

E57.1 The operator shall vent this equipment to an alternative, permitted air pollution control device whenever the equipment is disconnected from the primary vapor recovery control system.

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

[Devices subject to this condition : D25, D27, D29, D31, D32, D33, D35, D36, D134, D136, D137, D138, D139, D140, D141, D142]

E80.1 The operator shall not use this equipment when any of the following equipment are operating:

Device ID: D176 [Boiler, Liquid Heater No. 2, Natural gas, 6.5 MMBTU/HR]

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

[Devices subject to this condition : D175]

E80.2 The operator shall not use this equipment when any of the following equipment are operating:

Device ID: D175 [BOILER, LIQUID HEATER NO. 1, NATURAL GAS, 6.5 MMBTU/HR]

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

[Devices subject to this condition : D176]



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

E115.1 The operator shall maintain an automatic air-to-fuel ratio controller so as to regulate the air-to-fuel ratio within tolerance limits as recommended by the catalyst supplier or manufacturer.

[RULE 1110.2, 6-3-2005; RULE 2012, 12-7-1995]

[Devices subject to this condition : D1, D2, D3, D4]

E115.2 The operator shall maintain an automatic air-to-fuel ratio controller so as to regulate the air-to-fuel ratio within tolerance limits as recommended by the catalyst supplier or manufacturer.

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

[Devices subject to this condition : D215, D217, D218, D219]

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

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

[Devices subject to this condition : D25]

E153.1 The operator shall change over the carbon in the adsorber whenever saturation occurs.

SPENT CARBON REMOVED FROM THE SYSTEM SHALL BE STORED IN  
CLOSED CONTAINERS PRIOR TO REMOVAL FROM SITE

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



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

### 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 : C195, C199, C200, C201, C205, C206, C207, C208, C209]

E175.1 The operator shall not use this equipment unless all exhaust air passes through the following:

an activated carbon filter

**[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 : D61, D63, D67, D196, D197, D198]

E175.2 The operator shall not use this equipment unless all exhaust air passes through the following:

A three way catalyst which is in full operation and which is in good operating condition at all times

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

[Devices subject to this condition : D215, D217, D218, D219]

E178.1 The operator shall load crude oil into tank trucks using bottom loading.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 462, 5-14-1999]**

[Devices subject to this condition : D168]



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

E179.1 For the purpose of the following condition number(s), exhaust gases shall be defined as gases displaced during all phases of odorant transfer and during depressurization of the injection system.

Condition Number E 175- 1

[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 : D61, D63, D67, D196, D197, D198]

E193.1 The operator shall restrict the operation of this equipment as follows:



**FACILITY PERMIT TO OPERATE  
SO CAL GAS CO (EIS USE)**

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

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

NOx emissions from this equipment shall not exceed a maximum hour emissions limit for this equipment of 50 pounds per hour as measured and reported pursuant to Rule 2012. The purpose of this condition is to ensure compliance with Rule 2005 (d) where post-modification emissions must not exceed pre-modification maximum hourly potential to emit.

This condition is to reiterate ongoing AQMD's practice that equipment specified in the equipment description section represents maximum hourly rate. For this equipment, 150 mm btu/hr represents the maximum heat input rate for this turbine.

For the purposes of identification, an identification plate will be permanently affixed to each turbine displaying information that clearly identifies each turbine as follows:

Device No. D14, Turbine ID K-25, General Electric Identification No. 7LM1500-GB101

Device No. D15, Turbine ID K-26, General Electric Identification No. 7LM1500-GB102

Device NO. D16, Turbine ID K-27, General Electric Identification No. 7LM1500-GB101

**[RULE 2005, 4-20-2001; RULE 2005, 5-6-2005; RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]**

**[Devices subject to this condition : D14, D15, D16]**

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



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

a. ALL PERMIT CONDITIONS APPLICABLE TO THE EQUIPMENT DESCRIBED IN THE PREVIOUS PERMIT TO OPERATE N19349 (A/N 416051) SHALL REMAIN IN EFFECT UNTIL THE NEW OR MODIFIED EQUIPMENT IS CONSTRUCTED AND OPERATED AS DESCRIBED IN THIS NEW PERMIT. THIS PERMIT TO CONSTRUCT/OPERATE SHALL BECOME INVALID IF THE MODIFICATION AS DESCRIBED IN THE EQUIPMENT DESCRIPTION HAS NOT BEEN COMPLETED WITHIN ONE YEAR FROM THE ISSUE DATE.

b. IF THE MODIFICATION HAS NOT BEEN COMPLETED WITHIN ONE YEAR FROM THE ISSUE DATE OF THE PERMIT, A WRITTEN REQUEST SHALL BE SUBMITTED TO THE AQMD (ATTENTION: HEMANG DESAI) TO REINSTATE THE PREVIOUSLY INACTIVATED PERMIT TO OPERATE. A NEW APPLICATION SHALL BE FILED IF THERE ARE PLANS TO CONTINUE WITH THE MODIFICATION. FURTHERMORE, THIS CONDITION DOES NOT ALLOW ANY TIME EXTENSIONS TO ANY MODIFICATIONS REQUIRED BY THE CALIFORNIA AIR RESOURCES BOARD OR AQMD.

[RULE 461, 4-21-2000]

[Devices subject to this condition : D91, D92]

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

Performance testing for formaldehyde shall be completed as required in 40 CFR 63 subpart ZZZZ

In lieu of complying with the 2.7 ppmvd formaldehyde emission limit, the operator may comply with the requirement to reduce formaldehyde emissions by 76% or more across the catalyst

[40CFR 63 Subpart ZZZZ, 1-18-2008]

[Devices subject to this condition : D2]



**FACILITY PERMIT TO OPERATE  
SO CAL GAS CO (EIS USE)**

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

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

**H. Applicable Rules**

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463

[RULE 463, 3-11-1994]

[Devices subject to this condition : D25, D27, D29, D31, D32, D33, D35, D36, D134, D136, D137, D138, D139, D140, D141, D142]

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

Contaminant	Rule	Rule/Subpart
Refrigerants	District Rule	1415
Refrigerants	40CFR82, SUBPART	F

[RULE 1415, 10-14-1994; 40CFR 82 Subpart F, 5-14-1993]

[Devices subject to this condition : E173]

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

Contaminant	Rule	Rule/Subpart
CO	District Rule	1134





**FACILITY PERMIT TO OPERATE  
SO CAL GAS CO (EIS USE)**

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

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

[RULE 1134, 8-8-1997]

[Devices subject to this condition : D14, D15, D16]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122

[RULE 1122, 7-11-1997; RULE 1122, 12-6-2002]

[Devices subject to this condition : E171]

H23.12 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1113

[RULE 1113, 11-8-1996; RULE 1113, 6-9-2006]

[Devices subject to this condition : D193]

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

Contaminant	Rule	Rule/Subpart
Formaldehyde	40CFR63, SUBPART	ZZZZ



**FACILITY PERMIT TO OPERATE  
SO CAL GAS CO (EIS USE)**

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

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

**[40CFR 63 Subpart ZZZZ, 6-15-2004]**

[Devices subject to this condition : D1, D2, D3, D4]

H23.14 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
CO	District Rule	1110.2
ROG	District Rule	1110.2

**[RULE 1110.2, 6-3-2005]**

[Devices subject to this condition : D1, D2, D3, D4]

H23.15 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1149
VOC	District Rule	1176

When applicable, the VOC monitoring and testing frequency shall be in accordance with above mentioned rules. Records shall also be kept, in an approved format, to demonstrate compliance with above mentioned rules.

**[RULE 1149, 7-14-1995; RULE 1176, 5-13-1994]**

[Devices subject to this condition : C195, C205, C206, C207, C208, C209]

H23.17 This equipment is subject to the applicable requirements of the following rules or regulations:



**FACILITY PERMIT TO OPERATE  
SO CAL GAS CO (EIS USE)**

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

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

Contaminant	Rule	Rule/Subpart
H2S	District Rule	431.1

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

[Devices subject to this condition : D215, D217, D218, D219]

**I. Administrative**

1296.1 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the annual emissions increase for the first 12 months of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

For the purposes of this condition, the annual emission increase is 97 lbs. of NOx

RTC's held for the purpose of demonstrating compliance with this condition either at the commencement of initial operation or of a compliance year may be sold only after 12 months of start of initial operation or after the fourth quarter of the applicable compliance year, respectively.

**RTC'S HELD FOR THE PURPOSE OF DEMONSTRATING COMPLIANCE WITH THIS CONDITION, EITHER AT COMMENCEMENT OF INITIAL OPERATION OR OF A COMPLIANCE YEAR MAY BE SOLD ONLY AFTER 12 MONTHS OF START OF INITIAL OPERATION OR AFTER THE FOURTH QUARTER OF THE APPLICABLE COMPLIANCE YEAR, RESPECTIVELY**

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



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

### 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 : D215, D217]

- 1296.2 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the annual emissions increase for the first 12 months of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

For the purposes of this condition, the annual emission increase is 125 lbs. of NOx

RTCs held for the purpose of demonstrating compliance with this condition either at the commencement of initial operation or of a compliance year may be sold only after 12 months of start of initial operation or after the fourth quarter of the applicable compliance year, respectively.

RTCs HELD FOR THE PURPOSE OF DEMONSTRATING COMPLIANCE WITH THIS CONDITION, EITHER AT COMMENCEMENT OF INITIAL OPERATION OR OF A COMPLIANCE YEAR MAY BE SOLD ONLY AFTER 12 MONTHS OF START OF INITIAL OPERATION OR AFTER THE FOURTH QUARTER OF THE APPLICABLE COMPLIANCE YEAR, RESPECTIVELY

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D218]

- 1296.3 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the annual emissions increase for the first 12 months of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

For the purposes of this condition, the annual emission increase is 254 lbs. of NO<sub>x</sub>

RTCs held for the purpose of demonstrating compliance with this condition either at the commencement of initial operation or of a compliance year may be sold only after 12 months of start of initial operation or after the fourth quarter of the applicable compliance year, respectively.

RTCs HELD FOR THE PURPOSE OF DEMONSTRATING COMPLIANCE WITH THIS CONDITION, EITHER AT COMMENCEMENT OF INITIAL OPERATION OR OF A COMPLIANCE YEAR MAY BE SOLD ONLY AFTER 12 MONTHS OF START OF INITIAL OPERATION OR AFTER THE FOURTH QUARTER OF THE APPLICABLE COMPLIANCE YEAR, RESPECTIVELY

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D219]

#### **J. Rule 461**

J109.1 The operator shall use, except for diesel transfer, the phase I vapor recovery system in full operation whenever this equipment is in use. This system shall be installed, operated and maintained to meet all CARB certification requirements.

[RULE 461, 4-21-2000; RULE 461, 1-9-2004]

[Devices subject to this condition : D91]

J110.1 The operator shall use, except for diesel transfer, the phase II vapor recovery system in full operation whenever gasoline from this equipment is dispensed to motor vehicles as defined in Rule 461. This system shall be installed, operated and maintained to meet all CARB certification requirements.



**FACILITY PERMIT TO OPERATE  
SO CAL GAS CO (EIS USE)**

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

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

**[RULE 461, 4-21-2000; RULE 461, 1-9-2004]**

[Devices subject to this condition : D92]

J373.5 The operator shall comply with the following gasoline transfer and dispensing requirements:



**FACILITY PERMIT TO OPERATE  
SO CAL GAS CO (EIS USE)**

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

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

a). The Phase II vapor recovery systems shall be installed, operated, and maintained such that the maximum allowable pressure through the system including nozzle, vapor hose, swivels, and underground piping does not exceed the dynamic back pressures described by the California Air Resources Board (CARB) Executive Order by which the system was certified:

Nitrogen Flowrates (CFH)      Dynamic Back Pressure (Inches of Water)

60                                      0.35

80                                      0.62

As required by AQMD Rule 461 or CARB Executive Order, dynamic back pressure tests shall be conducted to determine the Phase II system vapor recovery back pressures. The tests shall be conducted in accordance with CARB Test Procedure Method TP-201.4. Results shall be submitted to the AQMD, Engineering and Compliance, within seventy-two (72) hours of the test.

The AQMD shall be notified by e-mail at [R461testing@aqmd.gov](mailto:R461testing@aqmd.gov) or by facsimile at telephone number (909) 396-3606 at least seventy two (72) hours prior to testing. Such notification shall include the name of the owner or operator; the name of the contractors; the location of the facility; and the scheduled start and completion dates of the dynamic back pressure test.

The test shall be conducted as frequently as that required by the most recent amendment to Rule 461 or CARB Executive Order requirements, whichever is more stringent.

b). As required by AQMD Rule 461 or CARB Executive Order, a static pressure leak decay test shall be conducted to demonstrate that the storage tanks, the remote and/or nozzle vapor recovery check valves, associated vapor return piping and fittings are free from vapor leaks. The test shall be conducted in accordance with CARB Test Procedure Method TP-201.3. Results shall be submitted to the AQMD, Engineering and Compliance, within seventy-two (72) hours of the test.

The AQMD shall be notified by e-mail at [R461testing@aqmd.gov](mailto:R461testing@aqmd.gov) or by facsimile at



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

telephone number (909) 396-3606 at least seventy-two (72) hours prior to testing. Such notification shall include the name of the owner or operator; the name of the contractors; the location of the facility; and the scheduled start and completion dates of the static pressure leak decay test.

c). If the CARB Executive Order requires the installation of a liquid removal device, a liquid removal rate test shall be conducted to demonstrate the removal of gasoline from the vapor passage of the coaxial hose. The test shall be conducted within thirty days of initial installation and in accordance with CARB test procedure Method TP-201.6. Results shall be submitted to the AQMD, Engineering and Compliance, within seventy-two (72) hours of the test.

The AQMD shall be notified by e-mail at [r461testing@aqmd.gov](mailto:r461testing@aqmd.gov) or by facsimile at telephone number (909) 396-3606 at least seventy-two (72) hours prior to testing. Such notification shall include the name of the owner or operator; the name of the contractors; the location of the facility; and the scheduled start and completion dates of the liquid removal rate test.

The testing frequency for the above mentioned tests shall be conducted in accordance with the most recent AQMD Rule 461 amendment or CARB Executive Order requirements, whichever is more stringent.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 461, 9-8-1995; RULE 461, 6-15-2001]

[Devices subject to this condition : D92]

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

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

Weekly records of temperature to verify flare pilot light operation





## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

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

[Devices subject to this condition : C93, C98]

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

H2S concentration at the outlet, once per odorant transfer

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

[Devices subject to this condition : C60, C65, C69, C195, C199, C200, C201, C205, C206, C207, C208, C209]

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

VOC concentration at the outlet, on a monthly basis

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

[Devices subject to this condition : C78, C100]

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



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

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]**

[Devices subject to this condition : E169, D193]

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

Temperature at the inlet of catalyst

Differential pressure drop across the catalyst

**[RULE 3004(a)(1), 12-12-1997; 40CFR 63 Subpart ZZZZ, 4-20-2006]**

[Devices subject to this condition : D1, D2, D3, D4]

K67.9 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

AN ENGINE OPERATING LOG SHALL BE KEPT AND SHALL DOCUMENT THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS A) EMERGENCY USE, B) MAINTENANCE AND TESTING, AND C) OTHER (DESCRIBE REASON FOR OPERATION)

IN ADDITION, EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TIME METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION..

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

[Devices subject to this condition : D215, D217, D218, D219]

K67.10 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):



## **FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)**

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

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

THE GAS OPERATION POWER SHUTOFF (GOPS) WEATHER PARAMETERS SHALL BE REVIEWED ONCE ANNUALLY BY THE ALISO CANYON STORAGE FACILITY STAFF AND SOCALGAS' ENGINEERING DEPARTMENT TO DETERMINE IF SUCH PARAMETERS NEED REVISION OR DELETION, OR IF NEW PARAMETERS SHOULD BE INCLUDED. AN AMENDED PERMIT TO CONSTRUCT/OPERATE SHALL BE SUBMITTED TO AQMD IF REVISIONS ARE INCORPORATED INTO THE EXISTING GOPS HAZARDOUS WEATHER PARAMETERS

AT THE TIME OF GOPS DECLARATION, THE GAS CONTROL DEPARTMENT SUPERVISOR WILL RECORD THE DATE AND TIME OF SUCH EVENT AND WILL NOTIFY THE ON DUTY SUPERVISOR FOR ALISO CANYON STORAGE FACILITY OF THE OCCURRENCE OF SUCH EVENT. WRITTEN RECORDS OF DATE, TIME, AND SUPERVISORY NOTIFICATIONS SHALL BE MAINTAINED AND KEPT ON FILE FOR A PERIOD OF 5 YEARS AND SHALL BE MADE AVAILABLE TO AQMD STAFF UPON REQUEST

AT THE TIME OF GOPS DECLARATION, THE GAS CONTROL DEPARTMENT SUPERVISOR WILL NOTIFY SOCALGAS SENIOR MANAGEMENT OF THE OCCURRENCE OF THE GOPS EVENT. WRITTEN RECORDS OF SUPERVISORY NOTIFICATIONS SHALL BE MAINTAINED AND KEPT ON FILE FOR A PERIOD OF 5 YEARS AND SHALL BE MADE AVAILABLE TO AQMD STAFF UPON REQUEST

UPON START-UP OF EACH EMERGENCY ELECTRICAL GENERATOR, THE ALISO CANYON FACILITY OPERATIONS PERSONNEL SHALL KEEP WRITTEN RECORDS OF THE DATE AND TIME OF THE INITIAL START-UP AS WELL AS THE TOTAL OPERATIONAL TIME OF EACH GENERATOR. SOCALGAS SHALL MAINTAIN THESE RECORDS FOR A PERIOD OF 5 YEARS AND MAKE SUCH RECORDS AVAILABLE TO AQMD STAFF UPON REQUEST

GAS CONTROL DEPARTMENT SHALL MONITOR WIND SPEED AND SHALL NOTIFY THE ALISO CANYON SUPERVISOR WHEN THE FIRST OBSERVATION IS MADE THAT THE WIND SPEED IS LESS THAN 21 MPH, AND SHALL MAKE A WRITTEN RECORD OF SUCH OBSERVATION



## FACILITY PERMIT TO OPERATE SO CAL GAS CO (EIS USE)

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

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

GAS CONTROL DEPARTMENT WILL CONTINUE TO MONITOR WIND SPEED FOR A PERIOD OF TWO CONSECUTIVE HOURS AFTER THE INITIAL WIND SPEED READING OF 21 MPH OR LESS. AFTER THE SECOND WIND SPEED READING OF 21 MPH OR LESS IS RECORDED, THE GAS CONTROL DEPARTMENT WILL NOTIFY THE ON-DUTY SUPERVISOR THAT THE GOPS EVENT IS OVER

UPON TERMINATION OF THE GOPS EVENT AND WHEN IT IS SUBSEQUENTLY DEEMED SAFE, SOCALGAS SHALL CONDUCT A COMPLETE VISUAL INSPECTION OF THE OVERHEAD LINES AND POWER POLES USING QUALIFIED PERSONNEL TO ENSURE THAT THERE IS NO DAMAGE TO THE GRID, POWER POLES, OR ANY UNSAFE CONDITIONS. THE VISUAL INSPECTION PERIOD SHALL NOT EXCEED 8 HOURS. THE ON DUTY SUPERVISOR SHALL KEEP WRITTEN RECORDS OF THE DATE, TIME, ELAPSED TIME, AND NATURE OF THE REPAIRS MADE.

THE RECORDS SHALL BE MAINTAINED FOR A PERIOD OF 5 YEARS AND SHALL BE MADE AVAILABLE TO AQMD STAFF UPON REQUEST

THE ON-DUTY SUPERVISOR SHALL NOTIFY THE GAS CONTROL DEPARTMENT OF THE DATE AND TIME OF THE RE-ENERGIZING OF THE ELECTRICAL GRID AND THE SHUTDOWN OF EACH EMERGENCY ELECTRICAL GENERATOR

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

[Devices subject to this condition : D215, D217, D218, D219]

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**PERMIT TO OPERATE**

**COMPANY NAME AND ADDRESS**

Contact: John P. Clarke, (818) 700-3812

Southern California Gas Company  
 12801 Tampa Avenue  
 Northridge, CA 91326  
 SCAQMD ID #800128

**EQUIPMENT LOCATION**

Same As Above

**EQUIPMENT DESCRIPTION**

Section D of the facility permit:

<b>Process 1: INTERNAL COMBUSTION</b>					
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions And Requirements	Conditions
INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, G-4, NATURAL GAS WAUKESHA, MODEL L-7042-G, ID NO. 252991, DRIVING A 500 KW GENERATOR, 818 BHP, WITH A/N: 525332	D2	C182	NOx: LARGE SOURCE	<b>CH2O: 2.7 PPMV NATURAL GAS (8) [40 CFR 63 SUBPART ZZZZ]</b> <b>CO: 150 PPMV NATURAL GAS (5A) [RULE 1110.2];</b> <b>CO: 2000 PPMV NATURAL GAS (5) [RULE 1110.2]</b>	C10.1, D12.5, D12.7, D12.8, E115.1, H23.13, H23.14, K67.8, E448.2
NON-SELECTIVE CATALYTIC REDUCTION, JOHNSON MATTHEY, THREE-WAY CATALYST, MODEL BX90, WITH AIR TO FUEL RATIO CONTROLLER, <del>WOODWARD GECO</del> , WOODWARD E3 RICH BURN	C182	D2		<b>NOX: 20 PPMV NATURAL GAS (3) [RULE 2012]</b>  <b>PM: (9) [RULE 404]</b>  <b>VOC: 200 PPMV NATURAL GAS (5) [RULE 1303(b)(2)-Offset; VOC: 250 PPMV NATURAL GAS (5A) [RULE 1110.2]</b>	

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## **FACILITY BACKGROUND**

Southern California Gas Company's (SoCalGas) Aliso Canyon Storage Facility is a RECLAIM and Title V facility and is an underground natural gas storage and production site located in a remote area of the Santa Susanna Mountains in the northwest portion of the San Fernando Valley. The facility covers approximately 3,600 acres and is located in both the city and county of Los Angeles. The southern portion of the facility borders the neighborhood of Porter Ranch. The Aliso Canyon Storage Facility currently operates four identical natural gas fired non-emergency internal combustion engines which are being used to generate electricity needed to operate the compressor plant. Each engine is rated at 818 bhp and equipped with a Johnson Matthey non-selective catalytic reduction (NSCR) system. In addition, each engine is equipped with a Woodward Geco model air/fuel ratio controller.

## **COMPLIANCE RECORD**

A review of the PAATS Compliance database indicates that there are no Notices of Violation (NOVs) or Notices to Comply (NCs) on file for this facility dating back to 8/1/2010.

## **NEW APPLICATIONS**

SoCalGas filed A/Ns 539304 on June 27, 2012 for a modification to one of the existing non-emergency ic engines described above (and described by A/N 367657). A/N 539305 was also filed on June 27, 2012 for a Minor Revision to their existing Title V Permit. Table 1 below shows the application details:

Table 1: New Application Details

A/N	Previous A/N	Equipment	Deemed Complete	Processing Fee	XPP Fee
539304	367657	IC Engine, N-EM, > 500 bhp	7/10/2012	\$3,359.43	\$5,039.15
539305	N/A	Title V Minor Revision	7/10/2012	\$1,747.19	\$1,747.19
Total Processing Fees					\$6,786.34

Due to reliability issues with the existing air/fuel ratio controller, SoCalGas proposes to modify the existing ic engine described by A/N 367657 and Device D2 on the RECLAIM/Title V Permit by the removal of the existing Woodward Geco air/fuel ratio controller and the installation of a new Woodward E<sup>3</sup> Rich Burn air/fuel ratio controller. The E<sup>3</sup> Rich Burn system is a fully integrated engine control system which can be used as a stand-alone air/fuel ratio controller as well as a complete engine emission control system.

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The Woodward E<sup>3</sup> can individually monitor and control fuel and air per intake manifold resulting in equally balanced engine load per cylinder bank and precise and accurate air/fuel ratios. SoCalGas will use the Woodward E<sup>3</sup> strictly as an air/fuel ratio controller since the engine is presently equipped with an NSCR system to control emissions.

### **EMISSIONS**

The removal of the existing air/fuel ratio controller and subsequent replacement with the new air fuel ratio controller will not result in an emission increase from the existing ic engine.

### **RULE EVALUATION**

#### Rule 212 – Standards For Approving Permits

This equipment is not located within 1,000 feet of a school, the maximum MICR is not expected to increase as a result of the replacement air/fuel ratio controller, and there is no increase in criteria pollutant emissions. Therefore, no public notice is required.

#### Rule 401 – Visible Emissions

Visible emissions are not expected under normal operation of this equipment.

#### Rule 402 – Nuisance

Nuisance problems are not expected under normal operation of this equipment.

#### Rule 407–Liquid and Gaseous Air Contaminants

CO and NOx emission limits will be in compliance with the use of natural gas.

#### Rule 431.1 – Sulfur Content of Gaseous Fuels

Pipeline quality natural gas will be used in the ic engines which will comply with rule requirements

#### Rule 1110.2 – Emissions From Gaseous And Liquid Fueled Engines

Rule 1110.2 requires the ic engine to comply with the VOC and CO emission limits of 30 ppmv and 250 ppmv, respectively, each measured at 15% O<sub>2</sub> (NOx emission limits are not applicable since this facility is in RECLAIM). A recent Rule 1110.2 Compliance Test shows that the VOC and CO emissions from this engine are 1.76 ppmv and 163 ppmv, each measured at 15% O<sub>2</sub>. Therefore, the engine is in compliance with the Rule 1110.2 emission limits.

#### New Source Review (NSR)

The proposed modification will not result in an emissions increase. Therefore, NSR is not triggered.



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Rule 1401– New Source Review For Toxic Air Contaminants

The proposed modification is a functionally identical replacement which is exempt under Rule 1401(g)(1)(c).

Rule 2005 – NSR for RECLAIM

The proposed modification will not result in an increase in NOx emissions. Therefore, NSR for RECLAIM is not applicable.

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

The facility is a major source for NOx and is required to comply with the monitoring, reporting and recordkeeping requirements for large sources. Compliance is expected.

Regulation XXX – Title V

The facility is currently subject to the Title V requirements. Since the proposed change of conditions is a minor modification, the facility is subject to a 45-day EPA review.

NSPS

Title 40 Part 60 Subpart JJJJ

Owners/operators of non-emergency (prime) engines constructed (ordered) after June 12, 2006 and whose maximum rating is greater than 500 bhp manufactured on or after July 1, 2007 are subject to the requirements of this rule. This engine was constructed prior to June 12, 2006 and the replacement of the existing air/fuel ratio controller with a new air/fuel ratio controller is not considered a reconstruction of this engine. Therefore, 40CFR60 Subpart JJJJ is not applicable.

NESHAPS

Title 40 Part 63, Subpart ZZZZ

This engine is a non-emergency (prime) engine 4-stroke, rich burn unit rated at >500 bhp that may operate for greater than 24 hours per year. Therefore, this engine is subject to the requirements of this rule. Per the requirements 40 CFR 63 Subpart ZZZZ for an engine of these specifications, the emissions of formaldehyde in the engine exhaust must not exceed 2.7 ppmvd measured at 15% O2. The engine will be conditioned to comply with the 2.7 ppmvd formaldehyde emission limit. Compliance will be verified through the required performance testing.

**CONCLUSION:**

Therefore, upon satisfactory completion of the EPA 45-day review period, issue a Permit to Operate for the equipment subject to the following additional conditions:

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D12.7 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the catalyst.

The operator shall maintain the catalyst such that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test.

[40 CFR 63 Subpart ZZZZ]

D12.8 The operator shall maintain a temperature gauge to accurately indicate the temperature at the inlet of the catalyst.

The exhaust temperature shall be maintained such that the catalyst inlet temperature is greater than or equal to 750 degrees Fahrenheit and less than or equal to 1,250 degrees Fahrenheit

[40 CFR 63 Subpart ZZZZ]

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

Performance testing for formaldehyde shall be completed as required in 40 CFR 63 Subpart ZZZZ

In lieu of complying with the 2.7 ppmvd formaldehyde emission limit, the operator may comply with the requirement to reduce formaldehyde emissions by 76% or more across the catalyst

[40 CFR 63 Subpart ZZZZ]