



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connect To	RECLAIM Source	Emissions and Requirements	Conditions
<b>PROCESS 17: ELECTRIC GENERATION</b>					
<b>SYSTEM 1: COGENERATION A TRAIN</b>					
GAS TURBINE, NO. 1, BUTANE, NATURAL GAS, PROPANE, PENTANE, GENERAL ELECTRIC MODEL NO. PG6531B (FRAME 6), WITH STEAM OR WATER INJECTION, 560 MMBTU/HR (HHV):  GENERATOR, ELECTRIC, 46 MW A/N: 474709	D2198	C2210 C2211	NO <sub>x</sub> : MAJOR SOURCE; SOX: MAJOR SOURCE	CO: 2,000 PPMV (5) [RULE 407]; CO: 10 PPMV (4) [RULE 1303 BACT]; NO <sub>x</sub> : 9 PPMV (4) [RULE 2005; 4-20-2001]; PM: 0.1 GR/SCF (5) [RULE 409]; PM: 0.01 GR/SCF (5A) [RULE 475]; PM: 11 LBS/HR (5B) [RULE 475]	A63.10, A63.11, A63.31, A99.4, A99.5, A195.23, A195.24, A327.1, B61.6, B61.7, C1.82, C1.149, D12.6, D28.13, D29.5, D82.2, D82.3, D90.20, D90.23, E54.7, E73.1, E73.2, H23.27, H23.28, K40.5, K67.2
BURNER, DUCT NO. 1, NATURAL GAS, REFINERY GAS, COEN, LOW NOX TYPE, 119.7 MMBTU/HR (LHV)  A/N: 474709	D2199	C2210 C2211	NO <sub>x</sub> : MAJOR SOURCE; SOX: MAJOR SOURCE	CO: 2,000 PPMV (5) [RULE 407]; NO <sub>x</sub> : 0.2 LBS/MMBTU (8A) [40CFR 60 SUBPART Db, 10-01-2001]; PM: 0.1 GR/SCF (5) [RULE 409]; PM: 0.01 GR/SCF (5A) [RULE 476]; PM: 11 LBS/HR (5B) [RULE 476]	A327.2, B61.6, C1.149, D28.13, D29.5, D90.20, H23.26, K67.2
COMPRESSOR, FUEL BOOSTER, K-3100, NATURAL GAS, COMMON TO COGENS A & B A/N: 474709	D2200				
COMPRESSOR, FUEL BOOSTER, K-3110, NATURAL GAS, COMMON TO COGENS A & B A/N: 474709	D2201				

* (1) Denotes RECLAIM emission factor	(2) 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
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAP, 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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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connect To	RECLAIM Source	Emissions and Requirements	Conditions
BOILER, WASTE HEAT RECOVERY, NO. 1, STRUTHER WELLS, UNFIRED TUBE TYPE, 264,000 LB PER HOUR, 850 PSIA, 720 DEG F STEAM A/N: 474709	D2206				
KNOCK OUT POT, LPG RELIEF SYSTEM, V-3670, COMMON TO COGEN TRAINS A & B, LENGTH: 16 FT; DIAMETER: 8 FT A/N: 474709	D3479				
DRUM, LPG RECIRCULATION SURGE, V-3990, COMMON TO COGEN TRAINS A & B, LENGTH: 8 FT; DIAMETER: 4 FT A/N: 474709	D3480				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 474709	D3671				H23.3
DRUM, LPG KNOCKOUT, V-3140, COMMON TO COGEN TRAINS A & B, LENGTH: 10 FT; DIAMETER: 4 FT A/N: 474709	D3730				
HEAT EXCHANGER, E-3140, PENTANE VAPORIZER, STEAM HEATED, PENTANE, 6.95 MMBTU/HR DUTY, COMMON TO COGEN TRAINS A & B A/N: 474709	D3801				

* (1) Denotes RECLAIM emission factor	(2) 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
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, etc.)
(9) See App B for Emission Limits	(10) See Section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connect To	RECLAIM Source	Emissions and Requirements	Conditions
<b>PROCESS 17: ELECTRIC GENERATION</b>					
<b>SYSTEM 2: COGENERATION TRAIN B</b>					
GAS TURBINE, NO. 2, BUTANE, NATURAL GAS, PROPANE, PENTANE, GENERAL ELECTRIC MODEL NO. PG6531B (FRAME 6), WITH STEAM OR WATER INJECTION, 560 MMBTU/HR (HHV):  GENERATOR, ELECTRIC, 46 MW A/N: 474711	D2207	C2213 C2214	NO <sub>x</sub> : MAJOR SOURCE; SOX: MAJOR SOURCE	CO: 2,000 PPMV (5) [RULE 407]; CO: 10 PPMV (4) [RULE 1303 BACT]; NO <sub>x</sub> : 9 PPMV (4) [RULE 2005; 4-20-2001] PM: 0.1 GR/SCF (5) [RULE 409]; PM: 0.01 GR/SCF (5A) [RULE 475]; PM: 11 LBS/HR (5B) [RULE 475]	A63.10, A63.12, A63.31, A99.4, A99.5, A195.23, A195.24, A327.1, B61.6, B61.7, C1.82, C1.149, D12.6, D28.13, D29.5, D82.2, D82.3, D90.20, D90.23, E54.8, E73.1, E73.2, H23.27, H23.28, K40.5, K67.2
BURNER, DUCT NO. 2, NATURAL GAS, REFINERY GAS, COEN, LOW NOX TYPE, 119.7 MMBTU/HR (LHV)  A/N: 474711	D2208	C2213 C2214	NO <sub>x</sub> : MAJOR SOURCE; SOX: MAJOR SOURCE	CO: 2,000 PPMV (5) [RULE 407]; NO <sub>x</sub> : 0.2 LBS/MMBTU (8A) [40CFR 60 SUBPART Db, 10-01-2001]; PM: 0.1 GR/SCF (5) [RULE 409]; PM: 0.01 GR/SCF (5A) [RULE 476]; PM: 11 LBS/HR (5B) [RULE 476]	A327.2, B61.6, C1.149, D28.13, D29.5, D90.20, H23.26, K67.2
COMPRESSOR, FUEL BOOSTER, K-3100, NATURAL GAS, COMMON TO COGENS A & B A/N: 474709	D2200				
COMPRESSOR, FUEL BOOSTER, K-3110, NATURAL GAS, COMMON TO COGENS A & B A/N: 474709	D2201				

\* (1) Denotes RECLAIM emission factor (2) 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  
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAP, 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 CHEVRON PRODUCTS COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connect To	RECLAIM Source	Emissions and Requirements	Conditions
KNOCK OUT POT, LPG RELIEF SYSTEM, V-3670, COMMON TO COGEN TRAINS A & B, LENGTH: 16 FT; DIAMETER: 8 FT A/N: 474709	D3479				
DRUM, LPG RECIRCULATION SURGE, V-3990, COMMON TO COGEN TRAINS A & B, LENGTH: 8 FT; DIAMETER: 4 FT A/N: 474709	D3480				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 474711	D3672				H23.3
DRUM, LPG KNOCKOUT, V-3140, COMMON TO COGEN TRAINS A & B, LENGTH: 10 FT; DIAMETER: 4 FT A/N: 474709	D3730				
HEAT EXCHANGER, E-3140, PENTANE VAPORIZER, STEAM HEATED, PENTANE, 6.95 MMBTU/HR DUTY, COMMON TO COGEN TRAINS A & B A/N: 474709	D3801				

* (1) Denotes RECLAIM emission factor	(2) 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
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, etc.)
(9) See App B for Emission Limits	(10) See Section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connect To	RECLAIM Source	Emissions and Requirements	Conditions
<b>PROCESS 17: ELECTRIC GENERATION</b>					
<b>SYSTEM 3: AIR POLLUTION CONTROL COGEN TRAIN A</b>					
SELECTIVE CATALYTIC REDUCTION, REACTOR NO. R-3300, CORMETECH, CERAMIC HONEYCOMB TYPE OR APPROVED EQUIVALENT CATALYST, 667 CU. FT.; DEPTH 6 FT 11 IN, HEIGHT: 30 FT 11 IN; WIDTH: 13 FT 11 IN WITH AMMONIA INJECTION, V-3350, AQUEOUS AMMONIA <b>A/ N: 512926</b>	C2210	D2198 D2199		<b>NH3: 20 PPMV (4) [RULE : 1303(a)(1)-BACT, 5-10-1996]</b>	A99.3, A195.25, D12.2, D12.3, D12.11, D29.4, E193.5, K40.5,
CO OXIDATION CATALYST, NO. R-3350, DEPTH: 12 FT, 117. 6 CU FT CATALYST, WIDTH: 13 FT; HEIGHT: 28 FT 9 IN <b>A/ N: 512926</b>	C2211	D2198 D2199			D12.4, D12.13
BLOWER, DILUTION (2), K-3310, WITH MOTOR DRIVE, ONE UNIT STANDBY <b>A/ N: 512926</b>	D3481				
BLOWER, DILUTION (2), K-3320, WITH MOTOR DRIVE, ONE UNIT STANDBY <b>A/ N: 512926</b>	D3482				

* (1) Denotes RECLAIM emission factor	(2) 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
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, etc.)
(9) See App B for Emission Limits	(10) See Section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connect To	RECLAIM Source	Emissions and Requirements	Conditions
<b>PROCESS 17: ELECTRIC GENERATION</b>					
<b>SYSTEM 4: AIR POLLUTION CONTROL COGEN TRAIN B</b>					
SELECTIVE CATALYTIC REDUCTION, REACTOR NO. R-3400, CORMETECH, CERAMIC HONEYCOMB TYPE OR APPROVED EQUIVALENT CATALYST, 667 CU. FT.; DEPTH 6 FT 11 IN, HEIGHT: 30 FT 11 IN; WIDTH: 13 FT 11 IN WITH AMMONIA INJECTION, V-3450, AQUEOUS AMMONIA A/ N: 512927	C2213	D2207 D2208		NH3: 20 PPMV (4) [RULE : 1303(a)(1)-BACT, 5-10-1996]	A99.3, A195.25, D12.2, D12.3, D12. 11, D29.4, E193.5, K40.5
CO OXIDATION CATALYST, NO. R-3450, DEPTH: 12 FT, 117. 6 CU FT CATALYST, WIDTH: 13 FT; HEIGHT: 28 FT 9 IN A/ N: 512927	C2214	D2207 D2208			D12.4, D12.13
BLOWER, DILUTION (2), K-3410, WITH MOTOR DRIVE, ONE UNIT STANDBY A/ N: 512927	D3483				
BLOWER, DILUTION (2), K-3420, WITH MOTOR DRIVE, ONE UNIT STANDBY A/ N: 512927	D3484				

* (1) Denotes RECLAIM emission factor	(2) 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
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, etc.)
(9) See App B for Emission Limits	(10) See Section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connect To	RECLAIM Source	Emissions and Requirements	Conditions
<b>PROCESS 17: ELECTRIC GENERATION</b>					
<b>SYSTEM 5: COGENERATION TRAIN C</b>					
GAS TURBINE, NO. 3, TPG-3600, NATURAL GAS, GENERAL ELECTRIC MODEL NO. PG-6541B (FRAME 6), WITH 600-H. P. STARTUP MTR, WITH STEAM OR WATER INJECTION, 506 MMBTU/ HR (HHV) WITH GENERATOR, ELECTRIC, 46 MW A/ N: <b>410837</b>	D3053	C3058 C3059	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	<b>CO:</b> 2000 PPMV (5) [RULE 407, 4-2-1982] ; <b>CO:</b> 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996] ; <b>NOX:</b> 9 PPMV (4) [RULE 2005, 4-20-2001] <b>PM:</b> 0. 1 GRAINS/ SCF (5) [RULE 409, 8-7-1981] ; <b>PM:</b> 0. 01 GRAINS/ SCF (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978] <b>PM:</b> 11 LBS/ HR (5B) [RULE 475, 10-8-1976;RULE 475, 8-7-1978]	A63.10, A99.4, A99.5, A195.23, A195.24, A327.1, B61.7, C1.82, D12.6, D28.11, D82.2, D82.3, D90.23, E54.1, E73.1, E73.2, H23.27, K40.5, K67.2
BURNER, DUCT, NO. 3, NATURAL GAS, REFINERY GAS, COEN, LO NOX TYPE, 120 MMBTU/ HR (LHV) A/ N: <b>410837</b>	D3054	C3058 C3059	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	<b>CO:</b> 2000 PPMV (5) [RULE 407, 4-2-1982] ; <b>NOX:</b> 0. 2 LBS/ MMBTU (8) [40CFR 60 Subpart Db, 10-1-2001] ; <b>PM:</b> 0. 01 GRAINS/ SCF (5A) [RULE 476, 10-8-1976] <b>PM:</b> 11 LBS/ HR (5B) [RULE 476, 10-8-1976] ; <b>PM:</b> 0. 1 GRAINS/ SCF (5) [RULE 409, 8-7-1981]	A327.2, B61.2, B61.6, D28.11, D90.20, H23.26
GENERATOR, STEAM HEAT RECOVERY, E-3600, DELTAK, UNFIRED, TUBE TYPE A/ N: <b>410837</b>	D3055				
KNOCK OUT POT, V-4560, FUEL GAS, HEIGHT: 9 FT; DIAMETER: 4 FT 6 IN A/ N: <b>410837</b>	D3056				
VESSEL, SEPARATOR, V-3987 A/ N: <b>410837</b>	D3057				

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(5)(5A)(5B)Denotes command and control emission limit	(6) Denotes air toxic control rule
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, etc.)
(9) See App B for Emission Limits	(10) See Section J for NESHAP/MACT requirements

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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.	Connect To	RECLAIM Source	Emissions and Requirements	Conditions
FUGITIVE EMISSIONS, MISCELLANEOUS A/ N: 410837	D3673				H23. 3

Equipment	ID No.	Connect To	RECLAIM Source	Emissions and Requirements	Conditions
<b>PROCESS 17: ELECTRIC GENERATION</b>					
<b>SYSTEM 6: AIR POLLUTION CONTROL COGEN TRAIN C</b>					
SELECTIVE CATALYTIC REDUCTION, R-3600, DEPTH: 2 FT, CERAMIC HONEYCOMB TYPE OR APPROVED EQUIVALENT CATALYST, 950 CU. FT. ; HEIGHT: 50 FT; WIDTH: 14 FT 7 IN WITH AMMONIA INJECTION, V-3610, AQUEOUS AMMONIA A/ N: 405276	C3058	D3053 D3054 S3068		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	A99.3, A195.25, D12.2, D12.3, D12.11, D29.4, E193.5, K40.5
REACTOR, CARBON MONOXIDE CATALYTIC CONVERTER, R-3650, 74 CU FT, DEPTH: 3 IN, WIDTH: 10 FT 1 IN; HEIGHT: 53 FT 8 IN A/ N: 405276	C3059	D3053 D3054			D12.4, D12.13
STACK A/ N: 405276	S3068	C3058			

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 (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  
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, etc.)  
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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connect To	RECLAIM Source	Emissions and Requirements	Conditions
<b>PROCESS 18: STEAM GENERATION</b>					
<b>SYSTEM 1: AUXILIARY BOILER</b>					
BOILER, E-3500, AUXILIARY BOILER NATURAL GAS, REFINERY GAS, COMBUSTION ENG, MODEL 12F-40-A16, 342 MMBTU/HR WITH BURNER, NATURAL GAS, REFINERY GAS, COEN, MODEL CPF-37-1/2, 2 GAS BURNERS, LOW NOX BURNER, A/N: 474712	D2216	C2217	NOx: MAJOR SOURCE; SOX: MAJOR SOURCE	CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 0.2 LBS/MMBTU (8) [40CFR 60 Subpart Db,11-16-2006] ; PM: 0.01 GRAINS/SCF (5A) [RULE 476,10-8-1976] PM: 11 LBS/HR (5B) [RULE 476,10-8-1976] ; PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981]	A63.25, A63.31, A327.2, B61.6, D28.13, D29.5, D82.4, D90.20, H23.26, K40.5
<b>SYSTEM 2: AUXILIARY BOILER APC</b>					
SELECTIVE CATALYTIC REDUCTION, R-3500, MITSUBISHI HEAVY INDUSTRIES OR APPROVED EQUIVALENT CATALYST WITH AMMONIA INJECTION, V-3550, AQUEOUS AMMONIA A/N: 321806	C2217	D2216 S3476		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT,5-10-1996]	A195.26, D29.4, D94.1, E71.1, E193.5, K40.5
STACK A/N: 321806	S3476	C2217			

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(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
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, etc.)
(9) See App B for Emission Limits	(10) See Section J for NESHAP/MACT requirements

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

### Device Conditions

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

Contaminant	Emissions Limit
VOC	Less than or equal to 86 lbs in any one day
CO	Less than or equal to 160 lbs in any one day
PM10	Less than or equal to 174 lbs in any one day

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from equipment (gas turbine and its duct burner).

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

[Devices subject to this condition: **D2198, D2207, D3053**]

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

Contaminant	Emissions Limit
NOx	Less than or equal to 46.42 tons in any one year
SOx	Less than or equal to 10.75 tons in any one year

For the purpose of demonstrating the exemption from PSD requirements, the operator shall calculate the annual NOx and SOx emissions by using daily emission data reported to the AQMD pursuant to Reg. XX.

[**RULE 1703 - PSD Analysis, 10-7-1988; 40CFR 52. 21 - PSD, 6-19-1978**]

[Devices subject to this condition: **D2198**]

**A63.12** The operator shall limit emissions from this equipment as follows:

Contaminant	Emissions Limit
NOx	Less than or equal to 48.44 tons in any one year
SOx	Less than or equal to 10.87 tons in any one year

For the purpose of demonstrating the exemption from PSD requirements, the operator shall calculate the annual NOx and SOx emissions by using daily emission data reported to the AQMD pursuant to Reg. XX.

* (1) Denotes RECLAIM emission factor	(2) 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
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, etc.)
(9) See App B for Emission Limits	(10) See Section J for NESHAP/MACT requirements

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**FACILITY PERMIT TO OPERATE  
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

**[RULE 1703 - PSD Analysis, 10-7-1988; 40CFR 52. 21 - PSD, 6-19-1978]**

[Devices subject to this condition: **D2207**]

**A63.25** The operator shall limit emissions from this equipment as follows:

Contaminant	Emissions Limit
VOC	Less than or equal to 95 lbs in any one day
CO	Less than or equal to 690 lbs in any one day
PM10	Less than or equal to 230 lbs in any one day

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

[Devices subject to this condition: **D2216**]

**A63.31** The operator shall limit emissions from this equipment as follows:

Contaminant	Emissions Limit
PM10	Less than or equal to 577 lbs in any one day

For the purpose of this condition, the limit shall be based on the combined total emissions from the Cogeneration A Train (D2198 and D2199 in Process 17, System 1), Cogeneration B Train (D2207 and D2208 in Process 17, System 2), Cogeneration D Train (D4354 and D4355 in Process 17, System 5) and the Auxiliary Boiler (D2216 in Process 18, System 1).

The operator shall initially calculate the daily PM10 emissions using the daily fuel use data for each combustion unit (D2198, D2199, D2207, D2208, D2216, D4354 and D4355), the high heating value of the fuel burned in each combustion unit, and the following emissions factors: Cogeneration Train A – 0.0098 lb/MMBtu (HHV), Cogeneration Train B – 0.0083 lb/MMBtu (HHV), Cogeneration Train D - 0.0071 lb/MMBtu (HHV); Auxiliary Boiler (D2216) – 0.0086 lb/MMBtu (HHV).

The PM10 emission factor for the Cogen Trains A and B and the Auxiliary Boiler shall be revised annually based on results of individual PM10 source tests performed as specified in permit condition D29.5. The PM10 emission factor shall be calculated as the average emission rate in lb/MMBtu for all valid source test runs during the annual source test.

\* (1) Denotes RECLAIM emission factor (2) 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  
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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 CHEVRON PRODUCTS COMPANY

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

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

The PM10 emission factor for the Cogen Train D shall be revised initially and annually, thereafter, based on results of PM10 source tests performed as specified in permit condition D29.12. The PM10 emission factor shall be calculated as the average emission rate in lb/MMBtu for all valid source test runs during each individual source test.

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

[Devices subject to this condition: **D2198, D2207, D2216**]

**A99.3** The 20 PPM NH3 emission limit(s) shall not apply during startup and shutdown.

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

[Devices subject to this condition: **C2210, C2213, C3058**]

**A99.4** The 10 PPM CO emission limit(s) shall not apply during startup and shutdown.

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

[Devices subject to this condition: **D2198, D2207, D3053**]

**A99.5** The 9 PPM NOX emission limit(s) shall not apply during startup and shutdown.

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

[Devices subject to this condition: **D2198, D2207, D3053**]

**A195.23** The 10 PPMV CO emission limit(s) is averaged over 1 hour, 15 percent oxygen, dry basis.

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

[Devices subject to this condition: **D2198, D2207, D3053**]

**A195.24** The 9 PPMV NOx emission limit(s) is averaged over 1 hour, 15 percent oxygen, dry basis.

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

[Devices subject to this condition: **D2198, D2207, D3053**]

\* (1) Denotes RECLAIM emission factor (2) 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  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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  
CHEVRON PRODUCTS COMPANY**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

**A195.25** The 20 PPMV NH3 emission limit(s) is averaged over 1 hour, 15 percent oxygen, dry basis.

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

[Devices subject to this condition: **C2210, C2213, C3058**]

**A195.26** The 20 PPMV NH3 emission limit(s) is averaged over 1 hour, 15 percent oxygen, dry basis. The operator shall calculate and continuously record the NH3 slip concentration using the following:

$$\text{NH}_3 \text{ (ppmv)} = [a - b * c / 1\text{EE}+06] * 1\text{EE}+06 / b$$

- where,
- a = NH3 injection rate (lbs/hr)/17(lb/lb-mol)
- b = dry exhaust gas flow rate (scf/hr)/385.3 scf/lb-mol)
- c = change in measured NOx across the SCR (ppmvd at 15% O2)

The operator shall install and maintain a NOx analyzer to measure the SCR inlet NOx ppmv accurate to plus or minus 5 percent calibrated at least once every twelve months.

The NOx analyzer shall be installed and operated by October 31, 2011.

The operator shall use the above described method or another alternative method approved by the Executive Officer.

The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information without corroborative data using an approved reference method for the determination of ammonia.

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

[Devices subject to this condition: **C2217**]

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

**[RULE 475, 10-8-1976; RULE 475, 8-7-1978]**

[Devices subject to this condition: **D2198, D2207, D3053**]

\* (1) Denotes RECLAIM emission factor (2) 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  
 (7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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 CHEVRON PRODUCTS COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

**A327.2** For the purpose of determining compliance with District Rule 476, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

**[RULE 476, 10-8-1976]**

[Devices subject to this condition: **D2199, D2208, D2216, D3054**]

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

Compound	ppm by volume
Total Sulfur as H <sub>2</sub> S greater than	100

The 100 ppmv total sulfur limit shall be based on a rolling 1-hour averaging period.

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

[Devices subject to this condition: **D3054**]

**B61.6** The operator shall not use fuel gas, except uncombined natural gas, containing the following specified compounds:

Compound	ppm by volume
H <sub>2</sub> S greater than	160

The H<sub>2</sub>S concentration limit shall be based on a rolling 3-hour averaging period

**[40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition: **D2198, D2199, D2207, D2208, D2216, D3054**]

**B61.7** The operator shall not use any fuel containing the following specified compounds:

Compound	weight percent
Sulfur greater than	0.8

**[40CFR 60SubpartGG, 7-8-2004]**

[Devices subject to this condition: **D2198, D2207, D3053**]

\* (1) Denotes RECLAIM emission factor (2) 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  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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  
CHEVRON PRODUCTS COMPANY**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

**C1.82** The operator shall limit the duration of startup or shutdown to no more than 6 hour(s).  
[**RULE 2012, 1-7-2005**]  
[Devices subject to this condition: **D2198, D2207, D3053**]

**C1.149** The operator shall limit the firing rate to no more than 616 MM Btu per hour.  
For the purpose of this condition, firing rate shall be defined as the combined energy or heat input to the turbine and duct burner based on the higher heating value (HHV) of the fuel used.  
To comply with this condition, the operator shall install and maintain a(n) continuous monitoring system that includes a continuous fuel flow meter and continuous or semi-continuous HHV analyzer for the fuel(s) fed to the turbine and duct burner.  
The operator shall also install and maintain a device to continuously record the parameter being measured.  
This limit shall be based on a rolling 1-hr averaging period.  
[**RULE 1303(b)(2)-Offset, 5-10-1996, Rule 2005, 5-6-2005**]  
[Devices subject to this condition: **D2198, D2199, D2207, D2208**]

**D12.2** The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the ammonia injection rate of the ammonia injection system.  
The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every twelve months.  
The operator shall also install and maintain a device to continuously record the parameter being measured and to continuously record the ammonia to emitted NOx mole ratio.  
For the purpose of this condition, continuously record shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that hour.  
[**RULE 1303(a)(1)-BACT, 5-10-1996**]  
[Devices subject to this condition: **C2210, C2213, C3058**]

\* (1) Denotes RECLAIM emission factor (2) 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  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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 CHEVRON PRODUCTS COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

**D12.3** The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the SCR catalyst beds in inches water column.

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

The measuring device or gauge shall be accurate to within +/- 5 percent. It shall be calibrated once every twelve months.

For the purpose of this condition, continuously record shall be defined as recording at least once every week and shall be calculated based upon the average of the continuous monitoring for that week.

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

[Devices subject to this condition: C2210, C2213, C3058]

**D12.4** The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the CO catalyst beds.

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

The measuring device or gauge shall be accurate to within +/- 5 percent. It shall be calibrated once every 12 months

For the purpose of this condition, continuously record shall be defined as recording at least once every week and shall be calculated based upon the average of the continuous monitoring for that week.

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

[Devices subject to this condition: C2211, C2214, C3059]

**D12.6** The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the steam-to-fuel ratio in the equipment.

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

The measuring device or gauge shall be accurate to within plus or minus 5 ~~10~~ percent. It shall be calibrated once a every twelve months.

\* (1) Denotes RECLAIM emission factor (2) 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  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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 CHEVRON PRODUCTS COMPANY

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

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

For the purpose of this condition, continuously record shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that hour

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

[Devices subject to this condition: **D2198, D2207, D3053**]

**D12.11** The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the inlet to the SCR catalyst bed.

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

The measuring device or gauge shall be accurate to within +/- 5 percent. It shall be calibrated once every 12 months.

For the purpose of this condition, continuously record shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that hour

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

[Devices subject to this condition: **C2210, C2213, C3058**]

**D12.13** The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the inlet to the CO catalyst beds.

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

The measuring device or gauge shall be accurate to within +/- 5 percent. It shall be calibrated once every 12 months

For the purpose of this condition, continuously record shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that hour

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

[Devices subject to this condition: **C2211, C2214, C3059**]

\* (1) Denotes RECLAIM emission factor (2) 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  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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 CHEVRON PRODUCTS COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

**D28.11** The operator shall conduct source test(s) in accordance with the following specifications:

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

The test shall be conducted to determine the ROG and PM10 emissions at the outlet.

All fuel combusted in the duct burner(s) during the source test shall be refinery fuel gas.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition: **D3053, D3054**]

**D28.13** The operator shall conduct source test(s) in accordance with the following specifications:

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

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

The test shall be conducted when this equipment is operating at 80 percent or greater of their maximum design capacity. All of the fuel combusted in the Auxiliary Boiler and in the duct burner(s) of the cogeneration units during the source test shall be refinery fuel gas.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition: **D2198, D2199, D2207, D2208, D2216**]

**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
NH3 emissions	Approved District Method(s)	District-approved averaging time	Outlet

The test(s) shall be conducted at least annually.

The District shall be notified of the date and time of the test at least 7 days prior to the test.

\* (1) Denotes RECLAIM emission factor (2) 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  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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 CHEVRON PRODUCTS COMPANY

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

[Devices subject to this condition: **C2210, C2213, 2217, C3058**]

**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
PM10 emissions	Approved District Method	District-approved averaging time	Stack Outlet

The test shall be conducted when this equipment is operating at 80 percent or greater of the maximum design capacity. All of the fuel combusted in the Auxiliary Boiler and the duct burner(s) of the cogeneration units during the source test shall be refinery fuel gas.

At least three sample runs shall be conducted for each source test.

The test(s) shall be conducted at least annually.

The source test shall be performed within 7 days of the annual PM10 source test of the Cogeneration Train D. If the Auxiliary Boiler is not in operation at the time of the source test of the Cogeneration Trains A, B and D, a PM10 source shall be performed within 14 days of putting the Auxiliary Boiler back in operation.

The District shall be notified of the date and time of the test at least 7 days prior to the test.

Source test results shall include the following parameters: fuel gas usage of the gas turbine and duct burner, MW output, and amount of ammonia injected for NOx control.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition: **D2198, D2199, D2207, D2208, D2216**]

* (1) Denotes RECLAIM emission factor	(2) 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
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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  
CHEVRON PRODUCTS COMPANY**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

**D82.2** The operator shall install and maintain a CEMS to measure the following parameters:  
NOX concentration in ppmv  
O2 concentration in ppmv  
Concentrations shall be corrected to 15 percent oxygen on a dry basis.

[Rule 2005, 5-6-2005; RULE 2012, 5-6-2005]  
[Devices subject to this condition: **D2198, D2207, D3053**]

**D82.3** The operator shall install and maintain a CEMS to measure the following parameters:  
CO concentration in ppmv  
O2 concentration in ppmv  
Concentrations shall be corrected to 15 percent oxygen on a dry basis.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]  
[Devices subject to this condition: **D2198, D2207, D3053**]

**D82.4** The operator shall install and maintain a CEMS to measure the following parameters:  
CO concentration in ppmv  
Concentrations shall be corrected to 3 percent oxygen on a dry basis.  
Oxygen concentration in percent volume

The CEMS shall be installed to continuously record the actual stack concentration and the corrected stack concentration for CO along with the stack O2 concentration. The monitoring system shall comply with the requirements of District Rule 218.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]  
[Devices subject to this condition: **D2216**]

\* (1) Denotes RECLAIM emission factor (2) 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  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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 CHEVRON PRODUCTS COMPANY

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

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

**D90.20** The operator shall continuously monitor the H2S concentration in fuel gases before being burned in this device according to the following specifications:

The operator shall use Gas Chromatograph meeting the requirements of 40CFR60 Subpart J to monitor the parameter.

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

The operator may monitor the H2S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H2S in the fuel gas being burned in this device.

[40CFR 60 Subpart J, 6-24-2008]

[Devices subject to this condition: **D2198, D2199, D2207, D2208, D2216, D3054**]

**D90.23** The operator shall sample and analyze the total sulfur content of the natural gas burned in this turbine according to the following specifications:

The operator shall analyze once per calendar quarter.

[40CFR 60 Subpart GG, 2-24-2006]

[Devices subject to this condition: **D2198, D2207, D3053**]

**D94.1** The operator shall install, maintain and operate a sampling line in the exhaust duct. The sampling line shall be constructed and operated upon approval by the AQMD.

[Devices subject to this condition: **C2217**]

**E54.1** The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C3058 [SELECTIVE CATALYTIC REDUCTION, R-3600]

Requirement number 1: During startups and shutdowns

For the purpose of this condition, start-up and shutdown shall be defined as the time period during the startup and shutdown of the cogeneration unit when the temperature of the exhaust gas at the inlet to SCR is below 597 degree F.

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

[Devices subject to this condition: **D3053**]

\* (1) Denotes RECLAIM emission factor (2) 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  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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  
CHEVRON PRODUCTS COMPANY**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS  
The operator shall comply with the terms and conditions set forth below:

**E54.7** The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C2210 [SELECTIVE CATALYTIC REDUCTION, R-3300]

Requirement number 1: During startups and shutdowns

For the purpose of this condition, start-up and shutdown shall be defined as the time period during the startup and shutdown of the cogeneration unit when the temperature of the exhaust gas at the inlet to SCR is below 597 degree F.

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

[Devices subject to this condition: **D2198**]

**E54.8** The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C2213 [SELECTIVE CATALYTIC REDUCTION, R-3400]

Requirement number 1: During startups and shutdowns

For the purpose of this condition, start-up and shutdown shall be defined as the time period during the startup and shutdown of the cogeneration unit when the temperature of the exhaust gas at the inlet to SCR is below 597 degree F.

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

[Devices subject to this condition: **D2207**]

**E71.1** The operator shall not operate this equipment if the space velocity is greater than 10,800 reciprocal hours.

[Devices subject to this condition: **C2217**]

**E73.1** Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use or inject steam in the gas turbine if any of the following requirement(s) are met:

During startup and shutdown of the cogeneration trains.

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

[Devices subject to this condition: **D2198, D2207, D3053**]

\* (1) Denotes RECLAIM emission factor (2) 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  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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 CHEVRON PRODUCTS COMPANY

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

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

**E73.2** Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use or inject ammonia in the turbine SCR if any of the following requirement(s) are met:

During startup and shutdown of the cogeneration trains.

For the purpose of this condition, start-up and shutdown shall be defined as the time period during the startup and shutdown of the cogeneration unit when the temperature of the exhaust gas at the inlet to SCR is below 597 degree F.

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

[Devices subject to this condition: **D2198, D2207, D3053**]

**E193.5** The operator shall construct, operate, and maintain this equipment according to the following specifications:

To establish equivalency of a catalyst, the operator shall submit the following information for the catalyst to the District permitting engineer: manufacturer, description (type), configuration, dimensions (per block), number of blocks, total volume, space velocity, life, vendor performance guarantee, performance curve (versus temperature), minimum operating temperature, estimated SO<sub>2</sub> to SO<sub>3</sub> conversion, estimated NO to NO<sub>2</sub> conversion, and concentration of Rule 1401 TACs.

The operator shall not install and use an “equivalent” catalyst until approval is received in writing from the District.

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

[Devices subject to this condition: **C2210, C2213, C2217, C3058**]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173

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

[Devices subject to this condition : **D3671, D3672, D3673**]

\* (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate  
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(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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 CHEVRON PRODUCTS COMPANY

**SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**  
The operator shall comply with the terms and conditions set forth below:

**H23.26** This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, Subpart	J
NOx	40CFR60, Subpart	Db

**[40CFR 60 Subpart Db, 11-16-2006; 40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition: **D2199, D2208, D2216, D3054**]

**H23.27** This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
CO	District Rule	218

**[RULE 218, 8-7-1981; RULE 218, 5-14-1999]**

[Devices subject to this condition: **D2198, D2207, D3053**]

**H23.28** This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, Subpart	J
NOx	40CFR60, Subpart	GG

**[40CFR 60 Subpart GG, 2-24-2006; 40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition: **D2198, D2207**]

**K40.5** 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.

- \* (1) Denotes RECLAIM emission factor
- (2) 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
- (7) Denotes NSR applicability limit
- (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAP, 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 CHEVRON PRODUCTS COMPANY

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

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

Emission data shall be expressed in terms of concentration (ppmv) corrected to 15 percent oxygen (dry basis), mass rate (lb/hr), and lb/MMSCF. In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains/DSCF.

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.

Source test results shall also include the oxygen levels in the exhaust, fuel flow rate (CFH), heating content of the fuel, the flue gas temperature, and the generator power output (MW) under which the test was conducted.

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

[Devices subject to this condition: D2198, D2207, C2210, C2213, D2216, C2217, D3053, C3058]

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

Daily NOx emissions at the stack in PPMV at 15 percent oxygen on a dry basis and in pounds per day

Daily fuel gas usage

Daily ammonia usage

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 5-6-2005]

[Devices subject to this condition: D2198, D2199, D2207, D2208, D3053]

\* (1) Denotes RECLAIM emission factor (2) 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  
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAP, 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 CHEVRON PRODUCTS COMPANY

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

### Section H: Permit to Construct and Temporary Permit to Operate

Equipment	ID No.	Connect To	RECLAIM Source	Emissions and Requirements	Conditions
<b>PROCESS 17: ELECTRIC GENERATION</b>					
<b>SYSTEM 7: COGENERATION TRAIN D</b>					
					S7.4, S31.20
GAS TURBINE, No. 4, NATURAL GAS, GENERAL ELECTRIC MODEL NO. PG6581 (FRAME 6B), 508.7 MMBTU/HR (HHV)  DRY LOW NOX COMBUSTOR  GENERATOR, ELECTRIC, GE MODEL PG-3700, 43.75 MW  A/N: 470782	D4354	C4360 C4361	NOx: MAJOR SOURCE; SOX: MAJOR SOURCE	CO: 2,000 PPMV (5) [RULE 407]; CO: 2 PPMV (4) [RULE 1303(a)(1)- BACT, 5-10-1996] [RULE 1703(a)(2) – PSD - BACT]; NOx: 2 PPMV (4) [RULE 2005; 4-20-2001]; NOx: 25 PPMV (8) [40CFR 60 SUBPART KKKK, 7-06- 2006]; PM: 0.1 GR/SCF (5) [RULE 409]; PM: 0.01 GR/SCF (5A) [RULE 475]; PM: 11 LBS/HR (5B) [RULE 475]; SO2: 0.06 LBS/MMBTU (8A) [40CFR 60 SUBPART KKKK, 7-06- 2006]; VOC: 2 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	A63.30, A63.31, A63.32, A99.11, A99.12, A99.13, A99.14, A99.15, A195.19, A195.20, A195.21, A327.1, C1.147, D29.12, D82.13, D82.14, E73.2, H23.27, H23.48, I296.1, K40.5, K67.74
BURNER, DUCT BURNER NO. 4, NATURAL GAS, REFINERY GAS, COEN, LOW NOX TYPE, 132 MMBTU/HR (HHV) A/N: 470782	D4355	C4360 C4361	NOx: MAJOR SOURCE; SOX: MAJOR SOURCE	CO: 2,000 PPMV (5) [RULE 407]; NOx: 25 PPMV (8) [40CFR 60 SUBPART KKKK, 7-06- 2006]; PM: 0.1 GR/SCF (5) [RULE 409]; PM: 0.01 GR/SCF (5A) [RULE 476]; PM: 11 LBS/HR (5B) [RULE 476]; SO2: 0.06 LBS/MMBTU (8) [40CFR 60 SUBPART KKKK, 7-06- 2006];	A99.14, A99.15, A327.2, B61.12, B61.13, C1.148, D29.12, D90.40, D90.41, H23.48, H 23.49, I296.1, K67.74
COMPRESSOR, FUEL BOOSTER, K-3120, NATURAL GAS, A/N: 470782	D4356				
TURBINE, STEAM, TPG-3750 GENERATOR, ELECTRIC, PG-3750, 4.0 MW A/N: 470782	D4357				
BOILER, HEAT RECOVERY STEAM GENERATOR, E-3700, UNFIRED TUBE TYPE A/N: 470782	D4358				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 470782	D4359				H23.3



**FACILITY PERMIT TO OPERATE  
CHEVRON PRODUCTS COMPANY**

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

Equipment	ID No.	Connect To	RECLAIM Source	Emissions and Requirements	Conditions
<b>PROCESS 17: ELECTRIC GENERATION</b>					
<b>SYSTEM 8: AIR POLLUTION CONTROL COGEN TRAIN D</b>					S7.4
REACTOR, CARBON MONOXIDE OXIDATION CATALYST SYSTEM, R-3750, BASF OR APPROVED EQUIVALENT SYSTEM, 100 CU FT; DEPTH: 2.6 IN; WIDTH: 11 FT; HEIGHT: 56 FT A/ N: 470783	C4360	D4354 D4355			D12.4, D12.13, E193.5
SELECTIVE CATALYTIC REDUCTION, R-3700, CORMETECH OR APPROVED EQUIVALENT SYSTEM, 300 CU. FT. DEPTH: 13.4 IN; WIDTH: 11 FT; HEIGHT: 56 FT; WITH AMMONIA INJECTION GRID A/ N: 470783	C4361	D4354 D4355		NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	A99.16, A195.22, D12.3, D12.11, D29.13, E193.5, K40.5
AQUEOUS AMMONIA VAPORIZER, V-3710/V-3720 (ONE SPARE) A/ N: 470783	D4362				

**System Conditions**

**S7.4** The following conditions shall apply to all refinery operation and related devices from this system:

The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the AQMD Certified Final Environmental Impact Report dated 09-May-2008 for this facility.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the applicable measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document.

[CA PRC CEQA, 11-23-1970]

[Systems subject to this condition: Process 3, System 1; Process 7, System 4; **Process 17, System 7, 8**; Process 20, System 4, 31]



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

**S31.20** The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 466149, 466876, 467141, 467544, 470739, and 470782:

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

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

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

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

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

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

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

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

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

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

The operator shall provide to the District, prior to initial startup, a list of all non-leakless type valves that were installed. The list shall include the tag numbers for the valves and



**FACILITY PERMIT TO OPERATE  
CHEVRON PRODUCTS COMPANY**

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

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

reasons why leakless valves were not used. The operator shall not startup the equipment prior to the Districts approval for the use of all non-leakless valves

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

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

[Systems subject to this condition: Process 12, System 28; Process 13, System 11; Process 16, System 10; **Process 17, System 7**; Process 20, System 37]

**Device Conditions**

**A63.30** The operator shall limit emissions from this equipment as follows:

Contaminant	Emissions Limit
VOC	Less than or equal to 42.2 lbs in any one day

The operator shall calculate the emission limit(s) by using monthly fuel use data and the following emission factors: 2.73 lbs/MMscf for normal operation; 5.7 lb/start-up and 26.9 lb/shutdown.

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

[Devices subject to this condition: **D4354**]

**A63.31** The operator shall limit emissions from this equipment as follows:

Contaminant	Emissions Limit
PM10	Less than or equal to 577 lbs in any one day

For the purpose of this condition, the limit shall be based on the combined total emissions from the Cogeneration A Train (D2198 and D2199 in Process 17, System 1), Cogeneration B Train (D2207 and D2208 in Process 17, System 2), Cogeneration D Train (D4354 and D4355 in Process 17, System 5) and the Auxiliary Boiler (D2216 in Process 18, System 1).

The operator shall initially calculate the daily PM10 emissions using the daily fuel use data for each combustion unit (D2198, D2199, D2207, D2208, D2216, D4354 and D4355), the high heating value of the fuel burned in each combustion unit, and the following emissions factors: Cogeneration Train A – 0.0098 lb/MMBtu (HHV), Cogeneration Train B – 0.0083 lb/MMBtu (HHV), Cogeneration Train D - 0.0071 lb/MMBtu (HHV); Auxiliary Boiler (D2216) – 0.0086 lb/MMBtu (HHV).



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

The PM10 emission factor for the Cogen Trains A and B and the Auxiliary Boiler shall be revised annually based on results of individual PM10 source tests performed as specified in permit condition D29.5. The PM10 emission factor shall be calculated as the average emission rate in lb/MMBtu for all valid source test runs during the annual source test.

The PM10 emission factor for the Cogen Train D shall be revised initially and annually, thereafter, based on results of PM10 source tests performed as specified in permit condition D29.12. The PM10 emission factor shall be calculated as the average emission rate in lb/MMBtu for all valid source test runs during each individual source test.

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

[Devices subject to this condition: **D4354**]

**A63.32** The operator shall limit emissions from this equipment as follows:

Contaminant	Emissions Limit
PM10	Less than or equal to 113 lbs in any one day

The operator shall calculate the daily PM10 emissions using the daily fuel use data for the turbine (D4354) and duct burner (D4355), the high heating value of the fuel burned in each combustion unit, and an emission factor of 0.0071 lb/MMBtu.

The PM10 emission factor for the Cogen Train D shall be revised initially and annually, thereafter, based on results of PM10 source tests performed as specified in permit condition D29.12. The PM10 emission factor shall be calculated as the average emission rate in lb/MMBtu for all valid source test runs during each individual source test.

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

[Devices subject to this condition: **D4354**]

**A99.11** The 2.0 PPM CO emission limit shall not apply during turbine commissioning, start-up, and shutdown periods. The commissioning period shall not exceed 166 hours. Start-up time shall not exceed 2 hours for each start-up. Shutdown periods shall not exceed 2 hours for each shutdown. The turbine shall be limited to a maximum of 12 start-ups per year with a maximum of 4 start-ups per month. Written records of commissioning, start-ups and shutdowns shall be maintained and made available upon request from the Executive Officer.

For the purpose of this condition, start-up and shutdown shall be defined as the time period during the startup and shutdown of the cogeneration unit when the temperature of the exhaust gas at the inlet to CO Catalyst is below 851 degree F.

[RULE 1303(a)(1)-BACT, 5-10-1996][RULE 1703(a)(2) - PSD-BACT, 10-7-1988]

[Devices subject to this condition: **D4354**]



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

**A99.12** The 2 PPM NOX emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The commissioning period shall not exceed 166 hours. Start-up time shall not exceed 2 hours for each start-up. Shutdown periods shall not exceed 2 hours for each shutdown. The turbine shall be limited to a maximum of 12 start-ups per year with a maximum of 4 start-ups per month. Written records of commissioning, start-ups and shutdowns shall be maintained and made available upon request from the Executive Officer.

For the purpose of this condition, start-up and shutdown shall be defined as the time period during the startup and shutdown of the cogeneration unit when the temperature of the exhaust gas at the inlet to SCR is below 597 degree F.

NOx emissions shall not exceed 32.1 lb/startup and 29.5 lb/shutdown.

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

[Devices subject to this condition: **D4354**]

**A99.13** The 2 PPM VOC emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The commissioning period shall not exceed 166 hours. Start-up time shall not exceed 2 hours for each start-up. Shutdown periods shall not exceed 2 hours for each shutdown. The turbine shall be limited to a maximum of 12 start-ups per year with a maximum of 4 start-ups per month. Written records of commissioning, start-ups and shutdowns shall be maintained and made available upon request from the Executive Officer.

For the purpose of this condition, start-up and shutdown shall be defined as the time period during the startup and shutdown of the cogeneration unit when the temperature of the exhaust gas at the inlet to CO Catalyst is below 851 degree F.

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

[Devices subject to this condition: **D4354**]

**A99.14** The 65.5 LB/MMSCF NOx emission factor(s) shall only apply during initial combustion gas turbine and duct burner commissioning to report RECLAIM emissions.

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

[Devices subject to this condition: **D4354, D4355**]

**A99.15** The 8.03 LB/MMSCF NOx emission factor(s) shall only apply during the interim reporting period after initial combustion gas turbine and duct burner commissioning to report RECLAIM emission. The interim reporting shall not exceed 12 months from entry into RECLAIM.

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

[Devices subject to this condition: **D4354, D4355**]



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

**A99.16** The 5 PPM NH<sub>3</sub> emission limit(s) shall not apply during turbine commissioning, start-up, and shutdown periods. The commissioning period shall not exceed 166 hours. Start-up time shall not exceed 2 hours for each start-up. Shutdown periods shall not exceed 2 hours for each shutdown. The turbine shall be limited to a maximum of 12 start-ups per year with a maximum of 4 start-ups per month. Written records of commissioning, start-ups and shutdowns shall be maintained and made available upon request from the Executive Officer.

For the purpose of this condition, start-up and shutdown shall be defined as the time period during the startup and shutdown of the cogeneration unit when the temperature of the exhaust gas at the inlet to SCR is below 597 degree F.

With the exception of the commissioning period, the ammonia injection system shall be in full operation at all times that the exhaust gas temperature at the inlet to the SCR is greater than 597°F.

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

[Devices subject to this condition: **C4361**]

**A195.19** The 2 PPMV NO<sub>x</sub> emission limit(s) is averaged over 1 hour, 15 percent oxygen, dry basis.

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

[Devices subject to this condition: **D4354**]

**A195.20** The 2 PPMV CO emission limit(s) is averaged over 1 hour, 15 percent oxygen, dry basis.

**[RULE 1703(a)(2) - PSD-BACT, 10-7-1988; RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition: **D4354**]

**A195.21** The 2 PPMV VOC emission limit(s) is averaged over 1 hour, 15 percent oxygen, dry basis.

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

[Devices subject to this condition: **D4354**]

**A195.22** The 5 PPMV NH<sub>3</sub> emission limit(s) is averaged over 1 hour, 15 percent oxygen, dry basis. The operator shall calculate and continuously record the NH<sub>3</sub> slip concentration using the following:

$$\text{NH}_3 \text{ (ppmv)} = [a - b * c / 1\text{EE}+06] * 1\text{EE}+06 / b$$

where,

a = NH<sub>3</sub> injection rate (lbs/hr)/17(lb/lb-mol)

b = dry exhaust gas flow rate (scf/hr)/385.3 scf/lb-mol)

c = change in measured NO<sub>x</sub> across the SCR (ppmvd at 15% O<sub>2</sub>)



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

The operator shall install and maintain a NOx analyzer to measure the SCR inlet NOx ppmv accurate to plus or minus 5 percent calibrated at least once every twelve months.

The NOx analyzer shall be installed and operated within 90 days of initial start-up.

The operator shall use the above described method or another alternative method approved by the Executive Officer.

The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information without corroborative data using an approved reference method for the determination of ammonia.

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

[Devices subject to this condition: **C4361**]

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

**[RULE 475, 10-8-1976; RULE 475, 8-7-1978]**

[Devices subject to this condition: **D4354**]

**A327.2** For the purpose of determining compliance with District Rule 476, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

**[RULE 476, 10-8-1976]**

[Devices subject to this condition: **D4355**]

**B61.12** The operator shall not use fuel gas containing the following specified compounds:

Compound	ppm by volume
Total Reduced Sulfur (calculated as H <sub>2</sub> S) greater than	40
Total Reduced Sulfur (calculated as H <sub>2</sub> S) greater than	30

The 40 ppm limit shall be based on a rolling 1-hour averaging period

The 30 ppm limit shall be based on a rolling 24-hour averaging period

For all but 72 hours per year, the total reduced sulfur concentration of the refinery fuel gas shall be measured before blending with natural gas. The total reduced sulfur of the refinery fuel gas may be measured after blending with natural gas for a maximum of 72 hours per year.



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

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

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

[Devices subject to this condition: **D4355**]

**B61.13** The operator shall not use fuel gas containing the following specified compounds:

Compound	ppm by volume
H2S greater than	162
H2S greater than	60

The 162 ppm limit shall be based on a rolling 3-hour averaging period

The 60 ppm limit shall be based on a rolling 365 successive calendar day rolling average

**[40CFR 60 Subpart Ja, 6-24-2008]**

[Devices subject to this condition : **D4355**]

**C1.147** The operator shall limit the firing rate to no more than 508.7 MM Btu per hour.

For the purpose of this condition, firing rate shall be defined as energy or heat input of natural gas to the equipment combustion chamber based on the higher heating value (HHV) of the natural gas used.

To comply with this condition, the operator shall install and maintain a(n) continuous monitoring system that includes a continuous fuel flow meter and continuous or semi-continuous HHV analyzer for the natural gas fed to the turbine.

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

This limit shall be based on a rolling 1-hr averaging period.

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

[Devices subject to this condition : **D4354**]

**C1.148** The operator shall limit the firing rate to no more than 132 MM Btu per hour.

For the purpose of this condition, firing rate shall be defined as energy or heat input of natural gas and/or refinery fuel gas to the equipment based on the higher heating value (HHV) of the natural gas and/or refinery fuel gas used.

To comply with this condition, the operator shall install and maintain a(n) continuous monitoring system that includes a continuous fuel flow meter and continuous or semi-continuous HHV analyzer for both the natural gas and refinery gas streams fed to the duct burner(s).



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

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

This limit shall be based on a rolling 1-hr averaging period.

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

[Devices subject to this condition : **D4355**]

**D12.3** The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the SCR catalyst beds in inches water column.

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

The measuring device or gauge shall be accurate to within +/- 5 percent. It shall be calibrated once every twelve months.

For the purpose of this condition, continuously record shall be defined as recording at least once every week and shall be calculated based upon the average of the continuous monitoring for that week.

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

[Devices subject to this condition: **C4361**]

**D12.4** The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the CO catalyst beds.

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

The measuring device or gauge shall be accurate to within +/- 5 percent. It shall be calibrated once every 12 months

For the purpose of this condition, continuously record shall be defined as recording at least once every week and shall be calculated based upon the average of the continuous monitoring for that week.

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

[Devices subject to this condition: **C4360**]

**D12.11** The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the inlet to the SCR catalyst bed.

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

The measuring device or gauge shall be accurate to within +/- 5 percent. It shall be calibrated once every 12 months.



**FACILITY PERMIT TO OPERATE  
CHEVRON PRODUCTS COMPANY**

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

For the purpose of this condition, continuously record shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that hour

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

[Devices subject to this condition: **C4361**]

**D12.13** The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the inlet to the CO catalyst beds.

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

The measuring device or gauge shall be accurate to within +/- 5 percent. It shall be calibrated once every 12 months

For the purpose of this condition, continuously record shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that hour

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

[Devices subject to this condition: **C4360**]

**D29.12** The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test	Averaging Time	Test Location
NOx emissions	District Method 100.1	1 hour	Stack Outlet
SOx emissions	District Method 100.1 or 6.1	1 hour	Stack Outlet
CO emissions	District Method 100.1 or 10.1	1 hour	Stack Outlet
ROG emissions	District Method 25.1 or 25.3	1 hour	Stack Outlet
PM emissions	District Method 5.2	District-approved averaging time	Stack Outlet
PM10 emissions	EPA Method 201A	District-approved averaging time	Stack Outlet
Acetaldehyde and Formaldehyde	CARB method 430	District-approved averaging time	Stack Outlet
Benzene, Toluene, Ethyl benzene, and Xylene	CARB Method 410A or 410B	District-approved averaging time	Stack Outlet



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

The test shall be conducted when turbine and its duct burner are each operating at 80 percent or greater of their maximum design capacity. All of the fuel combusted in the duct burner(s) during the source test shall be refinery fuel gas.

The test(s) shall be conducted within 90 days after achieving maximum production rate, but no later than 180 cumulative days of operation after initial start-up.

The test shall be conducted to determine the concentration and report the mass emission rate in pounds per hour for NO<sub>x</sub>, SO<sub>x</sub>, ROG, CO, Total PM, PM<sub>10</sub> and the following compounds: Acetaldehyde, Benzene, Formaldehyde, Toluene, Ethyl Benzene, Xylene.

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 concentration. In addition, the tests shall measure the fuel flow rate (CFH), the flue gas flow rate, and the electricity generation of the turbines in MW.

The test(s) shall be conducted at least annually after the initial source test for PM<sub>10</sub>, total PM, NO<sub>x</sub>, SO<sub>x</sub>, CO, and O<sub>2</sub>.

The test(s) shall be conducted at least every three years after the initial source test for ROG and O<sub>2</sub>.

The test shall be conducted for NO<sub>x</sub>, SO<sub>x</sub> and CO (for initial and subsequent testing) until their CEMS are Rule 218 or RECLAIM certified. Once certified, source test data may be substituted with CEMS data.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1401, 3-5-2005; RULE 2005, 4-20-2001; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982**]

[Devices subject to this condition : **D4354, D4355**]

**D29.13** 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
NH <sub>3</sub> emissions	District Method 207.1	District-approved averaging time	Outlet

The test shall be conducted at least quarterly during the first twelve months of operation and at least annually thereafter.

The test shall be conducted when the gas turbine and its duct burner are operating at 80 percent or greater of their maximum design capacity.

The NO<sub>x</sub> concentration at the SCR inlet and at the stack, as determined by the CEMS, shall be continuously recorded during the source test. If the NO<sub>x</sub> CEMS are inoperable, a test shall be conducted to determine the NO<sub>x</sub> emissions using District Method 100.1.



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

The ammonia injection rate and the ammonia slip concentration, which is calculated per the procedure specified in condition A195.22, shall be continuously recorded during the source test.

The test shall be conducted after District approval of a source test protocol submitted in accordance with Section E- Administrative condition.

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

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

[Devices subject to this condition : **C4361**]

**D82.13** The operator shall install and maintain a CEMS to measure the following parameters:

NO<sub>x</sub> concentration in ppmv

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

The CEMS shall be installed and operating no later than 90 days after initial start up of the turbine and shall comply with the requirements of Rule 2012. 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). Within two weeks of turbine start-up date, the operator shall provide written notification to the District of the exact date of start-up

The CEMS shall be installed and operating (for BACT purposes only) no later than 90 days after initial start up of the turbine.

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

[Devices subject to this condition: **D4354**]

**D82.14** The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv at the outlet of the SCR serving the equipment

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

The CEMS shall be installed and operated no later than 90 days after initial start up of the turbine and in accordance with an approved AQMD Rule 218 CEMS plan application. The operator shall not install the CEMS prior to receiving initial approval. Within two weeks of the turbine start-up, the operator shall provide written notification to the AQMD of the exact date of start-up

**[RULE 1303(a)(1)-BACT, 5-10-1996][RULE 1703(a)(2) - PSD-BACT, 10-7-1988]**

[Devices subject to this condition: **D4354**]



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

**D90.40** The operator shall continuously monitor the total reduced sulfur compounds calculated as H<sub>2</sub>S concentration in the fuel gases before being burned in this device and before blending with natural gas according to the following specifications:

The CEMS shall be approved by the District before the initial start-up

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

The operator may monitor the total sulfur compounds calculated as H<sub>2</sub>S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of total sulfur compounds calculated as H<sub>2</sub>S in the fuel gas being burned in this device.

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

[Devices subject to this condition: **D4355**]

**D90.41** The operator shall continuously monitor the H<sub>2</sub>S concentration in the fuel gases before being burned in this device according to the following specifications:

The operator shall use Gas Chromatograph meeting the requirements of 40CFR60 Subpart Ja to monitor the parameter.

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

The operator may monitor the H<sub>2</sub>S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H<sub>2</sub>S in the fuel gas being burned in this device.

[**40CFR 60 Subpart Ja, 6-24-2008**]

[Devices subject to this condition: **D4355**]

**E73.2** Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use or inject ammonia in the SCR if any of the following requirement(s) are met:

During startup and shutdown of the cogeneration trains.

For the purpose of this condition, start-up and shutdown shall be defined as the time period during the startup and shutdown of the cogeneration unit when the temperature of the exhaust gas at the inlet to SCR is below 597 degree F.

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

[Devices subject to this condition: **D4354**]

**E193.5** The operator shall construct, operate, and maintain this equipment according to the following specifications:

To establish equivalency of a catalyst, the operator shall submit the following information for the catalyst to the District permitting engineer: manufacturer, description



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

(type), configuration, dimensions (per block), number of blocks, total volume, space velocity, life, vendor performance guarantee, performance curve (versus temperature), minimum operating temperature, estimated SO<sub>2</sub> to SO<sub>3</sub> conversion, estimated NO to NO<sub>2</sub> conversion, and concentration of Rule 1401 TACs.

The operator shall not install and use an “equivalent” catalyst until approval is received in writing from the District.

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

[Devices subject to this condition: **C4360, C4361**]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173

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

[Devices subject to this condition : **D4359**]

**H23.27** This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
CO	District Rule	218

**[RULE 218, 8-7-1981; RULE 218, 5-14-1999]**

[Devices subject to this condition: **D4354**]

**H23.48** This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
NOx	40CFR60, Subpart	KKKK
SO <sub>2</sub>	40CFR60, Subpart	KKKK

**[40CFR 60 Subpart KKKK, 7-6-2006]**

[Devices subject to this condition: **D4354, D4355**]



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

**H23.49** This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, Subpart	Ja

**[40CFR 60 Subpart Ja, 6-24-2008]**

**[Devices subject to this condition: D4355]**

**I296.1** This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the prorated annual emissions increase for the first compliance year of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

To comply with this condition, the operator shall prior to the first compliance year hold a minimum 43,644 lbs/yr of NO<sub>x</sub> RTCs and 7,791 lbs/yr of SO<sub>x</sub> RTCs. This condition shall apply to the first year of operation, commencing with the initial operation of the turbine/duct burner.

To comply with this condition, the operator shall, prior to the beginning of all years subsequent to the first compliance year, hold a minimum 41,290 lbs/yr of NO<sub>x</sub> RTCs and 8,435 lbs/yr of SO<sub>x</sub> RTCs for operation of the turbine/duct burner. In accordance with Rule 2005(f), unused RTCs may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the first year.

For the purpose of this condition, unused RTCs is the difference between (1) the amount of NO<sub>x</sub> RTCs required to be held at the beginning of a compliance year as specified in this condition and the amount of NO<sub>x</sub> emissions during each applicable compliance year and (2) the amount of SO<sub>x</sub> RTCs required to be held at the beginning of a compliance year as specified in this condition and amount of SO<sub>x</sub> emissions during each applicable compliance year

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

**[Devices subject to this condition: D4354, D4355]**

**K40.5** 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), mass rate (lb/hr), and lb/MMSCF. In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains/DSCF.



## FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS COMPANY

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

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

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.

Source test results shall also include the oxygen levels in the exhaust, fuel flow rate (CFH), heating content of the fuel, the flue gas temperature, and the generator power output (MW) under which the test was conducted.

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

[Devices subject to this condition: D4354, C4361]

**K67.74** The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Fuel use during the commissioning period

Fuel use after the commissioning period and prior to CEMS certification

Fuel use after CEMS certification

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

[Devices subject to this condition: D4354, D4355]