



South Coast Air Quality Management District

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

October 3, 2013

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

Dear Mr. Rios:

Subject: Berry Petroleum Company (ID 119907) - Title V Permit Revision

Berry Petroleum Company is an oil and gas production facility located in Santa Clarita, CA. They are proposing to revise their Title V permit under Application No. 549027 by the following actions :

Appl. No.	Device Nos.	Section No.	Proposed action
549026	D80	H	New installation.
555136	D9	D	Change of condition.
555135	D10	D	Change of condition.
555137	D11	D	Change of condition.

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

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

Sincerely,



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

WCT:GLT:RGC:MV

Enclosures

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: BERRY PETROLEUM COMPANY

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 25121 N SIERRA HWY
SANTA CLARITA, CA 91321-2007

MAILING ADDRESS: 5201 TRUXTUN AVE, SUITE 300 ATTN: ACCTS
PAYABLE
BAKERSFIELD, CA 93309-0640

RESPONSIBLE OFFICIAL: TIM CRAWFORD

TITLE: SR. VICE-PRESIDENT OF CALIFORNIA

TELEPHONE NUMBER: (661) 616-3900

CONTACT PERSON: ROBERT E. BOSTON

TITLE: CALIFORNIA EH&S MANAGER

TELEPHONE NUMBER: (661) 616-3900

INITIAL TITLE V PERMIT ISSUED: June 01, 2008

TITLE V PERMIT EXPIRATION DATE: May 31, 2013

TITLE V	RECLAIM
YES	NOx: YES
	SOx: NO
	CYCLE: 1
	ZONE: COASTAL

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

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
Process 1: INTERNAL COMBUSTION					
System 1: COGENERATION SYSTEM #1					

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

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Process 1: INTERNAL COMBUSTION					
TURBINE, #1, NATURAL GAS, GENERAL ELECTRIC, MODEL LM2500, WITH STEAM OR WATER INJECTION, 220.6 MMBTU/HR WITH A/N: 416619	D1	C4	NOX: MAJOR SOURCE**	CO: 5.2 LBS/HR (5A) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; CO: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 9 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 109 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG, 3-6-1981]; PM: 0.01 GRAINS/SCF (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 1 LBS/HR (5A) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; PM: 11 LBS/HR (5C) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: 0.3 LBS/HR (5) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; VOC: 1.2 LBS/HR (5A) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)	A63.1, A63.2, A99.1, A99.2, A327.1, D12.1, D28.1, D82.3, D328.2, E73.1, E73.2, E226.1, E226.2, H23.2, K40.1, K67.1

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Process 1: INTERNAL COMBUSTION					
BOILER, UNFIRED HEAT RECOVERY STEAM GENERATOR GENERATOR, ELECTRICAL, 21760 KW				-Offset, 12-6-2002}	
SELECTIVE CATALYTIC REDUCTION, NOBLE METAL CATALYST, WIDTH: 26 FT 11 IN; HEIGHT: 10 FT 10 IN; LENGTH: 8 FT 3 IN WITH A/N: 356817 AMMONIA INJECTION	C2	C4 S65			
OXIDIZER, CO CATALYST A/N: 356817	C4	D1 C2			
STACK A/N: 356817	S65	C2			
System 2: COGENERATION SYSTEM #2					

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 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
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Process 1: INTERNAL COMBUSTION					
TURBINE, #2, NATURAL GAS, GENERAL ELECTRIC, MODEL LM2500, WITH STEAM OR WATER INJECTION, 220.6 MMBTU/HR WITH A/N: 416620	D5	C8	NOX: MAJOR SOURCE**	CO: 5.2 LBS/HR (5A) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; CO: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 9 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 109 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG, 3-6-1981]; PM: 0.01 GRAINS/SCF (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: 1 LBS/HR (5A) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; PM: 11 LBS/HR (5C) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: 0.3 LBS/HR (5) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; SOX: 150 PPMV (8) [40CFR 60 Subpart GG, 3-6-1981]; VOC: 1.2 LBS/HR (5A) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)	A63.1, A63.2, A99.1, A99.2, A327.1, D12.1, D28.1, D82.3, D328.2, E73.1, E73.2, E226.1, E226.2, H23.2, K40.1, K67.1

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BOILER, UNFIRED HEAT RECOVERY STEAM GENERATOR GENERATOR, ELECTRICAL, 21760 KW				-Offset, 12-6-2002]	
SELECTIVE CATALYTIC REDUCTION, NOBLE METAL CATALYST, WIDTH: 26 FT 11 IN; HEIGHT: 10 FT 10 IN; LENGTH: 8 FT 3 IN WITH A/N: 356823 AMMONIA INJECTION	C6	C8 S66			
OXIDIZER, CO_CATALYST A/N: 356823	C8	D5 C6			
STACK A/N: 356823	S66	C6			
Process 2: EXTERNAL COMBUSTION					
BOILER, TOC-28, NATURAL GAS, PROCESS GAS, STRUTHERS THERMOFLOOD, WITH FLUE GAS RECIRCULATION, OXYGEN CONTENT CONTROL, 25.2 MMBTU/HR A/N:	D9	E68	NOX: LARGE SOURCE**	CO: 400 PPMV (5) [RULE 1146, 11-17-2000]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 40 PPMV NATURAL GAS (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; NOX: 40 PPMV PROCESS GAS (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; VOC: 4.5 LBS/DAY PER CONNECTED WELL (5) [RULE 1148, 11-5-1982]	A63.7, B61.1, D12.2, D328.1, E17.1, E168.1

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Process 2: EXTERNAL COMBUSTION					
BOILER, TOC-20, NATURAL GAS, PROCESS GAS, STRUTHER THERMOFLOOD, WITH FLUE GAS RECIRCULATION, OXYGEN CONTENT CONTROL, 27.2 MMBTU/HR A/N:	D10	E68	NOX: LARGE SOURCE**	CO: 400 PPMV (5) [RULE 1146, 11-17-2000]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 40 PPMV NATURAL GAS (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; NOX: 40 PPMV PROCESS GAS (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; VOC: 4.5 LBS/DAY PER CONNECTED WELL (5) [RULE 1148, 11-5-1982]	A63.7, B61.1, D12.2, D328.1, E17.1, E168.1
BOILER, TOC-47, NATURAL GAS, PROCESS GAS, STRUTHER THERMOFLOOD, WITH FLUE GAS RECIRCULATION, OXYGEN CONTENT CONTROL, 20.9 MMBTU/HR A/N:	D11	E68	NOX: LARGE SOURCE**	CO: 400 PPMV (5) [RULE 1146, 11-17-2000]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 40 PPMV NATURAL GAS (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; NOX: 40 PPMV PROCESS GAS (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; VOC: 4.5 LBS/DAY PER CONNECTED WELL (5) [RULE 1148, 11-5-1982]	A63.7, B61.1, D12.2, D328.1, E17.1, E168.1
BOILER, TOC-50, NATURAL GAS, PROCESS GAS, STRUTHERS THERMOFLOOD, MODEL OH-50-NG-25 X AM/88, WITH FLUE GAS RECIRCULATION, OXYGEN CONTENT CONTROL, 57 MMBTU/HR A/N: 356806	D63	S67 E68	NOX: MAJOR SOURCE**	CO: 400 PPMV (5) [RULE 1146, 11-17-2000]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; VOC: 4.5 LBS/DAY PER CONNECTED WELL (5) [RULE 1148, 11-5-1982]	B61.1, D328.1

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Process 3: CRUDE OIL/GAS PRODUCTION					
KNOCK OUT POT, V-400, VENTED TO THE VAPOR RECOVERY SYSTEM., 1200 BBL; DIAMETER: 12 FT ; LENGTH: 60 FT A/N: 362854	D12				B22.1, B163.1, E179.1
KNOCK OUT POT, V-300, FREE WATER, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 1200 BBL; DIAMETER: 12 FT ; LENGTH: 60 FT A/N: 362854	D13				B22.1, B163.1, E179.1
KNOCK OUT POT, V-200, FREE WATER, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 1200 BBL; DIAMETER: 12 FT ; LENGTH: 60 FT A/N: 362854	D14				B22.1, B163.1, E179.1
VESSEL, V-600, FREE WATER KO, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 750 BBL; DIAMETER: 10 FT ; LENGTH: 50 FT A/N: 362854	D20				B22.1, B163.1, E127.1, E179.1
VESSEL, V-500, FREE WATER KO, STANDBY, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 135 BBL; DIAMETER: 8 FT ; LENGTH: 30 FT A/N: 362854	D21				B22.1, B163.1, E127.1, E179.1
TANK, WASH, TK-2A, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 5000 BBL; DIAMETER: 38 FT 6 IN; HEIGHT: 24 FT A/N: 362854	D15				B22.1, B163.1, E127.1, E179.1, H23.1

- | | |
|---|---|
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Process 3: CRUDE OIL/GAS PRODUCTION					
TANK, WASH, TK-2B, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 5000 BBL; DIAMETER: 38 FT 6 IN; HEIGHT: 24 FT A/N: 362854	D76				B22.1, B163.1, E127.1, E179.1, H23.1
PROCESS TANK, TK-5A, SKIMMED OIL, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 1000 BBL; DIAMETER: 21 FT 6 IN; HEIGHT: 16 FT A/N: 362854	D17				B22.1, B163.1, E127.1, E179.1, H23.1
TANK, WASH, TK-7, OIL/WATER, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 5000 BBL; DIAMETER: 38 FT 6 IN; HEIGHT: 24 FT A/N: 362854	D22				B22.1, B163.1, E127.1, E179.1, H23.1
TANK, WASH, TK-8, OIL/WATER, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 5000 BBL; DIAMETER: 38 FT 6 IN; HEIGHT: 24 FT A/N: 362854	D23				B22.1, B163.1, E127.1, E179.1, H23.1
PROCESS TANK, TK-9, SKIMMED OIL, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM, 1000 BBL; DIAMETER: 21 FT 6 IN; HEIGHT: 16 FT A/N: 362854	D24				B22.1, B163.1, E127.1, E179.1, H23.1
System 2: WASTE WATER TREATMENT					S13.1

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Process 3: CRUDE OIL/GAS PRODUCTION					
PROCESS TANK, TK-10, DRAIN, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 3333 BBL; DIAMETER: 55 FT ; HEIGHT: 8 FT A/N: 362852	D25				B22.1, B163.1, C1.2, E127.1, E179.1, H23.1
PROCESS TANK, TK-11, PRODUCE WATER, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 10000 BBL; DIAMETER: 55 FT ; HEIGHT: 24 FT A/N: 362852	D75				B22.1, B163.1, C1.2, E127.1, E179.1, H23.1
PROCESS TANK, TK-40, FROTH OIL, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 3000 BBL; DIAMETER: 30 FT ; HEIGHT: 24 FT A/N: 362852	D26				B22.1, B163.1, C1.2, E127.1, E179.1, H23.1
PROCESS TANK, TK-35B, SOFT WATER, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 5000 BBL; DIAMETER: 41 FT ; HEIGHT: 24 FT A/N: 362852	D27				B22.1, B163.1, C1.2, E127.1, E179.1, H23.1
PROCESS TANK, TK-35A, SOFT WATER, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 5000 BBL; DIAMETER: 41 FT ; HEIGHT: 24 FT A/N: 362852	D28				B22.1, B163.1, C1.2, E127.1, E179.1, H23.1

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Process 3: CRUDE OIL/GAS PRODUCTION					
PROCESS TANK, TK-34, FILTERED WATER, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 2000 BBL; DIAMETER: 24 FT ; HEIGHT: 25 FT A/N: 362852	D29				B22.1, B163.1, C1.2, E127.1, E179.1, H23.1
PROCESS TANK, TK-30, WATER DISTRIBUTION, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 6666 BBL; DIAMETER: 55 FT ; HEIGHT: 16 FT A/N: 362852	D30				B22.1, B163.1, C1.2, E127.1, E179.1, H23.1
FLOATATION UNIT, CONNECTED TO THE VAPOR RECOVERY SYSTEM A/N: 362852	D31				B22.1, B163.1, C1.2, E127.1, E179.1
FLOATATION UNIT, WF-2, CONNECTED TO THE VAPOR RECOVERY SYSTEM. A/N: 362852	D32				B22.1, B163.1, C1.2, E127.1, E179.1
PROCESS TANK, TK-33, FILTER BACKWASH, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 3333 BBL; DIAMETER: 55 FT ; HEIGHT: 8 FT A/N: 362852	D33				B22.1, B163.1, C1.2, E127.1, E179.1, H23.1
System 3: CRUDE OIL LOADING RACK					
LOADING ARM, CRUDE OIL, 4" BOTTOM LOADING, CONNECTED TO THE VAPOR RECOVERY SYSTEM. A/N: 356803	D34			VOC: 0.08 LBS/1000 GAL (5) [RULE 462, 5-14-1999]	B22.2, B163.1, C1.1, E179.1

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 (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 BERRY PETROLEUM COMPANY

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
Process 3: CRUDE OIL/GAS PRODUCTION					
LOADING ARM, CRUDE OIL, 4" BOTTOM LOADING, CONNECTED TO THE VAPOR RECOVERY SYSTEM. A/N: 356803	D35			VOC: 0.08 LBS/1000 GAL (5) [RULE 462, 5-14-1999]	B22.2, B163.1, CI.1, E179.1
System 4: CRUDE OIL STORAGE					
PROCESS TANK, TK-3, REJECT OIL, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 5000 BBL; DIAMETER: 41 FT ; HEIGHT: 24 FT A/N: 362854	D19				B22.1, B163.1, E127.1, E179.1, H23.1
PROCESS TANK, TK-1A, LACT TANK, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 5000 BBL; DIAMETER: 24 FT ; HEIGHT: 41 FT A/N: 362854	D36				B22.1, B163.1, E127.1, E179.1, H23.1
PROCESS TANK, TK-1B, LACT TANK, FIXED ROOF, CONNECTED TO THE VAPOR RECOVERY SYSTEM., 5000 BBL; DIAMETER: 41 FT ; HEIGHT: 24 FT A/N: 362854	D37				B22.1, B163.1, E127.1, E179.1, H23.1
System 5: FUGITIVE EMISSIONS					
FUGITIVE EMISSIONS, PUMPS A/N: 362854	D38				H23.3
FUGITIVE EMISSIONS, PRV A/N: 362854	D39				H23.3
FUGITIVE EMISSIONS, COMPRESSORS A/N: 356828	D40				H23.3

- | | |
|--|--|
| <ul style="list-style-type: none"> * (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 | <ul style="list-style-type: none"> (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 BERRY PETROLEUM COMPANY

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
Process 3: CRUDE OIL/GAS PRODUCTION					
FUGITIVE EMISSIONS, VALVES A/N: 362854	D41				H23.3
FUGITIVE EMISSIONS, FLANGES A/N: 362854	D42				H23.3
FUGITIVE EMISSIONS, DRAINS A/N: 362854	D58				H23.7
System 6: CASING VAPOR RECOVERY & TREATMENT					S13.2
GAS SEPARATOR, V-03, CASING GAS SEPARATOR, LENGTH: 10 FT ; DIAMETER: 3 FT A/N: 356804	D46	D44			E175.1
GAS SEPARATOR, V-04, CASING GAS SEPARATOR (CVRS), LENGTH: 10 FT ; DIAMETER: 3 FT A/N: 356804	D47	D44			E175.1
GAS SEPARATOR, V-05, CASING GAS SEPARATOR (CVRS), LENGTH: 10 FT ; DIAMETER: 3 FT A/N: 356804	D48	D44			E175.1
GAS SEPARATOR, V-06, CASING GAS SEPARATOR, LENGTH: 10 FT ; DIAMETER: 3 FT A/N: 356804	D49	D44			E175.1
GAS SEPARATOR, V-07, CASING GAS SEPARATOR (CVRS), LENGTH: 10 FT ; DIAMETER: 3 FT A/N: 356804	D50	D44			E175.1
GAS SEPARATOR, V-08, CASING GAS SEPARATOR (CVRS), LENGTH: 10 FT ; DIAMETER: 3 FT A/N: 356804	D51	D44			E175.1

- * (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 BERRY PETROLEUM COMPANY

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
Process 3: CRUDE OIL/GAS PRODUCTION					
GAS SEPARATOR, V-09, CASING GAS SEPARATOR, LENGTH: 10 FT ; DIAMETER: 3 FT A/N: 356804	D52	D44			E175.1
GAS SEPARATOR, V-901, GAS/LIQUID SEPARATOR (CVRS), HEIGHT: 10 FT 6 IN; DIAMETER: 3 FT 6 IN A/N: 356804	D44	D45 D46 D47 D48 D49 D50 D51 D52 C53 C57			E175.1
SCRUBBER, V-902, SULFA-TREAT VESSEL (H2S REMOVAL), LENGTH: 36 FT ; DIAMETER: 10 FT 10 IN A/N: 356804	C57	D44 D55			D90.1, E175.1
VESSEL, V-903, POST SULFA-TREAT K. O. POT, HEIGHT: 4 FT ; DIAMETER: 1 FT 6 IN A/N: 356804	D55	C53 C56 C57			E175.1
SCRUBBER, V-908, SULFA-TREAT VESSEL (H2S REMOVAL), LENGTH: 50 FT ; DIAMETER: 9 FT A/N: 356804	C53	D44 D54 D55			D90.1, E175.1
VESSEL, V-909, POST SULFA-TREAT K. O. POT, HEIGHT: 4 FT ; DIAMETER: 1 FT 6 IN A/N: 356804	D54	C53			E175.1
SCRUBBER, V-800, LIQUID SCRUBBER (CVRS), HEIGHT: 8 FT ; DIAMETER: 3 FT A/N: 356804	D45	D44 C56			E175.1
SCRUBBER, V-801, SULFA SCRUB VESSEL (H2S SCRUBBER), HEIGHT: 16 FT ; DIAMETER: 2 FT A/N: 356804	C56	D45 D55			D90.1, E175.1

- | | |
|---|---|
| <p>* (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</p> | <p>(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</p> |
|---|---|

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

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

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
Process 4: INORGANIC CHEMICAL STORAGE					
STORAGE TANK, PRESSURIZED, AMMONIA, 15000 GALS; DIAMETER: 8 FT ; LENGTH: 36 FT A/N: 356817	D64				
Process 5: RULE 219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, WELL HEADS AND PUMPS, OIL AND GAS	E68	D9 D10 D11 D63 D80		VOC: 4.5 LBS/DAY PER CONNECTED WELL (5) [RULE 1148, 11-5-1982]	H23.8
RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS	E71				H23.4
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E72			VOC: (9) [RULE 1171, 8-2-2002; RULE 1171, 11-7-2003]	H23.5
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E73			VOC: (9) [RULE 1113, 11-8-1996; RULE 1113, 12-5-2003; RULE 1171, 8-2-2002; RULE 1171, 11-7-2003]	K67.2
RULE 219 EXEMPT EQUIPMENT, OIL WATER SEPARATORS, GRAVITY-TYPE, < 45 FT2 AIR/LIQUID INTERFACIAL AREA	E74				H23.7

* (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 BERRY PETROLEUM COMPANY

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
 BERRY PETROLEUM COMPANY
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1	3	1	1
C2	3	1	1
C4	3	1	1
D5	5	1	2
C6	5	1	2
C8	5	1	2
D9	5	2	0
D10	6	2	0
D11	6	2	0
D12	8	3	1
D13	8	3	1
D14	8	3	1
D15	8	3	1
D17	9	3	1
D19	12	3	4
D20	8	3	1
D21	8	3	1
D22	9	3	1
D23	9	3	1
D24	9	3	1
D25	10	3	2
D26	10	3	2
D27	10	3	2
D28	10	3	2
D29	11	3	2
D30	11	3	2
D31	11	3	2
D32	11	3	2
D33	11	3	2
D34	11	3	3
D35	12	3	3
D36	12	3	4
D37	12	3	4
D38	12	3	5
D39	12	3	5

**FACILITY PERMIT TO OPERATE
 BERRY PETROLEUM COMPANY
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D40	12	3	5
D41	13	3	5
D42	13	3	5
D44	14	3	6
D45	14	3	6
D46	13	3	6
D47	13	3	6
D48	13	3	6
D49	13	3	6
D50	13	3	6
D51	13	3	6
D52	14	3	6
C53	14	3	6
D54	14	3	6
D55	14	3	6
C56	14	3	6
C57	14	3	6
D58	13	3	5
D63	6	2	0
D64	15	4	0
S65	3	1	1
S66	5	1	2
S67	7	2	0
E68	15	5	0
E71	15	5	0
E72	15	5	0
E73	15	5	0
E74	15	5	0
D75	10	3	2
D76	9	3	1
D77	7	2	0

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

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]

F24.1 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

[40CFR 68 - Accidental Release Prevention, 5-24-1996]

SYSTEM CONDITIONS

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

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176

[RULE 1176, 5-13-1994]

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

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

Contaminant	Rule	Rule/Subpart
SOX	District Rule	431.1

[RULE 431.1, 6-12-1998]

[Systems subject to this condition : Process 3, System 6]

DEVICE CONDITIONS

A. Emission Limits

A63.1 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than or equal to 35 LBS IN ANY ONE DAY
SOX	Less than or equal to 7 LBS IN ANY ONE DAY
CO	Less than or equal to 130 LBS IN ANY ONE DAY

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

PM | Less than or equal to 24 LBS IN ANY ONE DAY

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

[Devices subject to this condition : D1, D5]

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

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than or equal to 29 LBS PER DAY
SOX	Less than or equal to 7 LBS PER DAY
CO	Less than or equal to 126 LBS PER DAY
PM	Less than or equal to 24 LBS PER DAY

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

[Devices subject to this condition : D1, D5]

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

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 241 LBS IN ANY ONE MONTH
PM10	Less than or equal to 326 LBS IN ANY ONE MONTH
VOC	Less than or equal to 305 LBS IN ANY ONE MONTH
SOX	Less than or equal to 36 LBS IN ANY ONE MONTH

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall calculate the emission limit(s) using monthly fuel usage and the following emission factors: PM10 7.5 lb/mmcf; VOC 7 lb/mmcf and SOx 0.83 lb/mmcf.

The operator shall calculate the emission limit(s) for compliance with monthly CO emission limit through valid CEMS data. In the absence of valid CEMS data, the operator shall calculate the monthly CO emissions using monthly fuel usage and the following emission factor: CO 5.54 lb/mmcf.

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

[Devices subject to this condition : D77]

A63.7 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 5,820 LBS IN ANY ONE MONTH
PM10	Less than or equal to 599.1 LBS IN ANY ONE MONTH
VOC	Less than or equal to 581.4 LBS IN ANY ONE MONTH
SOX	Less than or equal to 65.7 LBS IN ANY ONE MONTH

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

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 limit(s) shall be based on the total combined emissions from any three of the following Boilers : TOC-28, TOC-20, TOC-47 and TOC-85.

The operator shall calculate the monthly emissions for the above contaminants using the equation below:

Monthly Emissions, lbs/mo. = Monthly fuel usage in mmscf/mo. X Emission Factor

The Emission Factors for Boilers TOC-28, TOC-20 and TOC-47 shall be as follows: CO, 33 lbs/mmscf; PM10, 7 lbs/mmscf; VOC, 6.5 lbs/mmscf; SOx, 0.77 lb/mmscf.

The Emission Factors for Boiler TOC-85 shall be as follows: CO, 75.10 lbs/mmscf; PM10, 5.5 lbs/mmscf; VOC, 5.5 lbs/mmscf, SOx, 0.6 lb/mmscf.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition and the records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D9, D10, D11]

A99.1 The 9 PPM NOX emission limit(s) shall not apply during start-ups and shutdowns. The duration of start-ups and shutdowns shall not exceed one hour each.

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

[Devices subject to this condition : D1, D5, D77]

A99.2 The 10 PPM CO emission limit(s) shall not apply during start-ups and shutdowns. The duration of start-ups and shutdowns shall not exceed one hour each.

FACILITY PERMIT TO OPERATE BERRY PETROLEUM 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 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D1, D5]

A99.3 The 7 PPM CO emission limit(s) shall not apply during start-ups and shutdowns. The duration of start-ups and shutdowns shall not exceed one hour each.

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

[Devices subject to this condition : D77]

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 : D1, D5]

B. Material/Fuel Type Limits

B22.1 The operator shall not use this equipment with materials having a(n) true vapor pressure of 1.5 psia or greater under actual operating conditions.

[**RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002; **RULE 463, 3-11-1994**]

[Devices subject to this condition : D12, D13, D14, D15, D17, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D36, D37, D75, D76]

B22.2 The operator shall not use this equipment with materials having a(n) true vapor pressure of 1.5 psia or greater under actual operating conditions.

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 462, 5-14-1999]

[Devices subject to this condition : D34, D35]

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

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

the 40 ppm limit shall be averaged over a 4 hours period

[RULE 431.1, 6-12-1998]

[Devices subject to this condition : D9, D10, D11, D63]

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

Compound	ppm by volume
Sulfur less than or equal to	40

the 40 ppm limit shall be averaged over a 4 hours period

[RULE 431.1, 6-12-1998]

[Devices subject to this condition : D77]

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

B163.1 The operator shall not use material containing the following:

Volatile organic compound (VOC) content greater than 10 percent by weight, at 150 degrees centigrade, as determined by ASTM Method D-86.

[**RULE 1173, 5-13-1994**]

[Devices subject to this condition : D12, D13, D14, D15, D17, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D75, D76]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the material processed to no more than 6000 barrels in any one day.

For the purpose of this condition, material processed shall be defined as the total volume of crude oil loaded at this facility.

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

[Devices subject to this condition : D34, D35]

C1.2 The operator shall limit the material processed to no more than 110000 barrel(s) in any one day.

For the purpose of this condition, material processed shall be defined as the total volume of fluid processed at this facility.

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

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

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 : D25, D26, D27, D28, D29, D30, D31, D32, D33, D75]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) gauge to accurately indicate the water-to-fuel ratio in the turbine.

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

[Devices subject to this condition : D1, D5]

D12.2 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage being supplied to the Boilers TOC-28, TOC-20, TOC-47 and TOC-85.

The operator shall also install and maintain a device to continuously record the parameter being measured in accordance with Rule 2012.

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

[Devices subject to this condition : D9, D10, D11]

D28.1 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 for NH₃.

The test shall be conducted at least quarterly.

The test shall be conducted to determine the NH₃ emissions at the outlet.

FACILITY PERMIT TO OPERATE BERRY PETROLEUM 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 1303(a)(1)-BACT, 12-6-2002**]

[Devices subject to this condition : D1, D5]

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

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

The test(s) shall be conducted at least annually after the initial source test(s).

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

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 4-20-2001**]

[Devices subject to this condition : D77]

D82.3 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

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

The CEMS will convert the actual CO concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed to measure the parameters from the exhaust stack

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 218, 5-14-1999; RULE 218.1, 5-14-1999]

[Devices subject to this condition : D1, D5]

D90.1 The operator shall periodically sample the H₂S concentration at the exhaust of the final sulfur recovery vessel according to the following specifications:

The operator shall use a drager tube to sample the parameter.

The operator shall sample once every 24 hours.

[RULE 431.1, 6-12-1998]

[Devices subject to this condition : C53, C56, C57]

D328.1 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 1146 emission limit. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

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

[Devices subject to this condition : D9, D10, D11, D63]

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D328.2 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 1303 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 : D1, D5]

E. Equipment Operation/Construction Requirements

E17.1 The operator shall not use more than 3 of the following items simultaneously:

Device ID: D9 [BOILER TOC-28]

Device ID: D10 [BOILER TOC-20]

Device ID: D11 [BOILER TOC-47]

Device ID: D80 [BOILER TOC-85]

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

[Devices subject to this condition : D9, D10, D11]

E73.1 Notwithstanding the requirements of Section E conditions, the operator shall not use water or steam injection if any of the following requirement(s) are met:

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

the gas turbine output is 5 MW or less

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

[Devices subject to this condition : D1, D5]

E73.2 Notwithstanding the requirements of Section E conditions, the operator shall not use command and control emission limits designated as (5A) if all of the following requirement(s) are met:

On days this unit is started up

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

[Devices subject to this condition : D1, D5]

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; RULE 463, 3-11-1994**]

[Devices subject to this condition : D15, D17, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D36, D37, D75, D76]

E168.1 The following condition number(s) applies during periods of start-ups, shutdowns and commissioning.

Condition Number E 17- 1

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D9, D10, D11]

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

The Wells and the Vent Casing Vapor Collection System (VCVCS) are vented to Steam Generator Nos. TOC-20, TOC-28, TOC-47, and/or TOC-50 which are in full use.

[RULE 1148, 11-5-1982]

[Devices subject to this condition : D44, D45, D46, D47, D48, D49, D50, D51, D52, C53, D54, D55, C56, C57]

E179.1 For the purpose of the following condition number(s), use of material shall be defined as the crude oil produced, transferred, or stored at this facility.

Condition Number 163-1

[RULE 1173, 5-13-1994]

[Devices subject to this condition : D12, D13, D14, D15, D17, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D75, D76]

E226.1 The following condition number(s) shall only apply if all of the requirement(s) stated below are met:

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Condition number 63-1

Requirement 1: During period of start-up and shut-down

Requirement 2: The duration of start-up or shut-down shall not exceed one hour in any day (one day shall be defined as starting at and ending at 12:00 midnight).

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

[Devices subject to this condition : D1, D5]

E226.2 The following condition number(s) shall only apply if all of the requirement(s) stated below are met:

Condition number 63-2

Requirement 1: During normal operation

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

[Devices subject to this condition : D1, D5]

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**]

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

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 : D15, D17, D19, D22, D23, D24, D25, D26, D27, D28, D29, D30, D33, D36, D37, D75, D76]

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

Contaminant	Rule	Rule/Subpart
CO	District Rule	1134

[RULE 1134, 8-8-1997]

[Devices subject to this condition : D1, D5]

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]

[Devices subject to this condition : D38, D39, D40, D41, D42]

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

Contaminant	Rule	Rule/Subpart
Refrigerants	District Rule	1415

[RULE 1415, 10-14-1994]

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

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 : E71]

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]

[Devices subject to this condition : E72]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176

[RULE 1176, 5-13-1994; RULE 1176, 9-13-1996]

[Devices subject to this condition : D58, E74]

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

Contaminant	Rule	Rule/Subpart
TOC	District Rule	1148.1

[RULE 1148.1, 3-5-2004]

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

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 : E68]

K. Record Keeping/Reporting

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

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

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

[Devices subject to this condition : D1, D5]

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

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

Emission data shall be expressed in terms of concentration (ppmv) corrected to 3 percent oxygen (dry basis), mass rate (lbs/hr), and lbs/MM Cubic Feet. In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains per 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 3 percent oxygen.

Source test results shall also include the operating conditions of the basic equipment under which the test was conducted.

FACILITY PERMIT TO OPERATE BERRY PETROLEUM 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 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 4-20-2001]

[Devices subject to this condition : D77]

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

SCR reduction efficiency

CO catalyst reduction efficiency

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

[Devices subject to this condition : D1, D5]

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

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

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

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

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

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 : E73]

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION H: DEVICE ID INDEX

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

**FACILITY PERMIT TO OPERATE
BERRY PETROLEUM COMPANY**

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D80	1	2	0

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

FACILITY CONDITIONS

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

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

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

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

F24.1 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

[40CFR 68 - Accidental Release Prevention, 5-24-1996]

SYSTEM CONDITIONS

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[RULE 1176, 5-13-1994]

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

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

Contaminant	Rule	Rule/Subpart
SOX	District Rule	431.1

[RULE 431.1, 6-12-1998]

[Systems subject to this condition : Process 3, System 6]

DEVICE CONDITIONS

A. Emission Limits

A63.7 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 5,820 LBS IN ANY ONE MONTH
PM10	Less than or equal to 599.1 LBS IN ANY ONE MONTH
VOC	Less than or equal to 581.4 LBS IN ANY ONE MONTH
SOX	Less than or equal to 65.7 LBS IN ANY ONE MONTH

FACILITY PERMIT TO OPERATE BERRY PETROLEUM 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 purposes of this condition, the limit(s) shall be based on the total combined emissions from any three of the following Boilers : TOC-28, TOC-20, TOC-47 and TOC-85.

The operator shall calculate the monthly emissions for the above contaminants using the equation below:

Monthly Emissions, lbs/mo. = Monthly fuel usage in mmscf/mo. X Emission Factor

The Emission Factors for Boilers TOC-28, TOC-20 and TOC-47 shall be as follows: CO, 33 lbs/mmscf; PM10, 7 lbs/mmscf; VOC, 6.5 lbs/mmscf; SOx, 0.77 lb/mmscf.

The Emission Factors for Boiler TOC-85 shall be as follows: CO, 75.10 lbs/mmscf; PM10, 5.5 lbs/mmscf; VOC, 5.5 lbs/mmscf, SOx, 0.6 lb/mmscf.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition and the records shall be made available to District personnel upon request.

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

[Devices subject to this condition : D80]

A99.4 The 7 PPM NOX emission limit(s) shall not apply during start-ups and shutdowns. The duration of start-ups and shutdowns shall not exceed one hour each.

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

[Devices subject to this condition : D80]

B. Material/Fuel Type Limits

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

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

the 40 ppm limit shall be averaged over a 4 hours period

[RULE 431.1, 6-12-1998]

[Devices subject to this condition : D80]

D. Monitoring/Testing Requirements

D12.2 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage being supplied to the Boilers TOC-28, TOC-20, TOC-47 and TOC-85.

The operator shall also install and maintain a device to continuously record the parameter being measured in accordance with Rule 2012.

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

[Devices subject to this condition : D80]

D29.3 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District method 100.1	1 hour	Outlet
CO emissions	District method 100.1	1 hour	Outlet
VOC emissions	Approved District method	1 hour	Outlet
PM10 emissions	Approved District method	1 hour	Outlet

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

oxygen concentration	District method 100.1	1 hour	Outlet
SOX emissions	Approved District method	District-approved averaging time	fuel sample

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

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

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

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 6-3-2011; RULE 2012, 5-6-2005]

[Devices subject to this condition : D80]

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

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

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

CO emissions	District method 100.1	1 hour	Outlet
oxygen concentration	District method 100.1	1 hour	Outlet

The test(s) shall be conducted at least annually after the initial source test(s).

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

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 6-3-2011; RULE 2012, 5-6-2005]

[Devices subject to this condition : D80]

D82.4 The operator shall install and maintain a CEMS to measure the following parameters:

NOX concentration in ppmv

Concentrations shall be corrected to 3 percent oxygen on a dry basis.

The CEMS shall be installed, operated and maintained along with all required monitoring and record keeping systems no later than 12 months after the initial start-up of the steam generator. During the interim period between the initial start-up of the steam generator and the provisional certification date of the CEMS, the operator shall comply with the monitoring requirements of Rule 2012 (h)(2) and 2012 (h)(3). The operator shall provide written notification to the District on the exact date of start-up of the boiler.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D80]

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D328.1 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 1146 emission limit. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

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

[Devices subject to this condition : D80]

E. Equipment Operation/Construction Requirements

E17.1 The operator shall not use more than 3 of the following items simultaneously:

Device ID: D9 [BOILER TOC-28]

Device ID: D10 [BOILER TOC-20]

Device ID: D11 [BOILER TOC-47]

Device ID: D80 [BOILER TOC-85]

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

[Devices subject to this condition : D80]

E168.1 The following condition number(s) applies during periods of start-ups, shutdowns and commissioning.

Condition Number E 17- 1

FACILITY PERMIT TO OPERATE BERRY PETROLEUM COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

[Devices subject to this condition : D80]

K. Record Keeping/Reporting

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

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

Emission data shall be expressed in terms of concentration (ppmv) corrected to 3 percent oxygen (dry basis), mass rate (lbs/hr), and lbs/MM Cubic Feet. In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains per 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 3 percent oxygen.

Source test results shall also include the operating conditions of the basic equipment under which the test was conducted.

[**RULE 1303(a)(1)-BACT, 5-10-1996**; **RULE 1303(a)(1)-BACT, 12-6-2002**; **RULE 1303(b)(2)-Offset, 5-10-1996**; **RULE 1303(b)(2)-Offset, 12-6-2002**; **RULE 2005, 4-20-2001**]

[Devices subject to this condition : D80]

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING & COMPLIANCE APPLICATION PROCESSING AND CALCULATIONS	PAGES 17	PAGE NO. 1
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**EVALUATION REPORT FOR PERMIT TO CONSTRUCT (P/C)
and PERMITS TO CONSTRUCT/OPERATE (PC/PO)**

New Installation and De Minimis Revision of RECLAIM /Title V Facility Permit

APPLICANT'S NAME: Berry Petroleum Company (Fac. ID 119907)

MAILING ADDRESS: 5201 Truxtun Ave. Ste. 100
Bakersfield, CA 93309-0422

EQUIPMENT LOCATION: 25121 North Sierra Highway
Santa Clarita, CA 91321-2007

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

EQUIPMENT DESCRIPTION

- A/N 549026** New Installation (P/C) of an Oilfield Steam Generator
- A/N 549027** De Minimis Revision of the RECLAIM/Title V Facility Permit
- A/N 555135** Change of Condition (PC/PO) on an Existing Oilfield Steam Generator (A/N 356825)
- A/N 555136** Change of Condition (PC/PO) on an Existing Oilfield Steam Generator (A/N 356824)
- A/N 555137** Change of Condition (PC/PO) on an Existing Oilfield Steam Generator (A/N 356826)

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

Equipment	ID No.	Connected to	Source Type	Emissions And Requirements	Conditions
PROCESS 2: EXTERNAL COMBUSTION					
Boiler, TOC-28, Natural Gas, Process Gas, Struthers Thermoflood, with Flue Gas Recirculation, Oxygen Content Control, 25.2 MMBtu/hr A/N: 356824-555136	D9	E68	NOx: Large Source**	CO: 400 ppmv (5) [RULE 1146, 11-17-2000]; CO: 2000 ppmv (5A) [RULE 407, 4-2-1982]; NOx: 40 ppmv Natural Gas (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; NOx: 40 ppmv Process Gas (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: 0.1 grains/scf (5) [RULE 409, 8-7-1981]; VOC: 4.5 lbs/day per connected well (5) [RULE 1148, 11-5-1982]	A63.3, A63.7, B61.1, D12.2, D328.1, E17.1, E168.1
Boiler, TOC-20, Natural Gas, Process Gas, Struthers Thermoflood, with Flue Gas Recirculation, Oxygen Content Control, 27.2 MMBtu/hr A/N: 356825-555135	D10	E68	NOx: Large Source**	CO: 400 ppmv (5) [RULE 1146, 11-17-2000]; CO: 2000 ppmv (5A) [RULE 407, 4-2-1982]; NOx: 40 ppmv Natural Gas (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; NOx: 40 ppmv Process Gas (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: 0.1 grains/scf (5) [RULE 409, 8-7-1981]; VOC: 4.5 lbs/day per connected well (5) [RULE 1148, 11-5-1982]	A63.4, A63.7, B61.1, D12.2, D328.1, E17.1, E168.1
Boiler, TOC-47, Natural Gas, Process Gas, Struthers Thermoflood, with Flue Gas Recirculation, Oxygen Content Control, 20.9 MMBtu/hr A/N: 356826-555137	D11	E68	NOx: Large Source**	CO: 400 ppmv (5) [RULE 1146, 11-17-2000]; CO: 2000 ppmv (5A) [RULE 407, 4-2-1982]; NOx: 40 ppmv Natural Gas (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; NOx: 40 ppmv Process Gas (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: 0.1 grains/scf (5) [RULE 409, 8-7-1981]; VOC: 4.5 lbs/day per connected well (5) [RULE 1148, 11-5-1982]	A63.5, A63.7, B61.1, D12.2, D328.1, E17.1, E168.1

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING & COMPLIANCE APPLICATION PROCESSING AND CALCULATIONS	PAGES 17	PAGE NO. 3
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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected to	Source Type	Emissions And Requirements	Conditions
PROCESS 2: EXTERNAL COMBUSTION					
Boiler, TOC-85, Process Gas, Natural Gas, PCL Industrial Services, with Low-NOx Burner, Flue Gas Recirculation, 85.0 MMBtu/hr with A/N 549026 Burner, Process Gas, Natural Gas, North American, Model Magna-Flame 4231-85 GLE, Low-NOx; 1 Total 85.0 MMBtu/hr	D80	E68	NOX: Major Source**	CO : 100 ppmv Natural Gas (4) [Rule 1303 (a)(1)-BACT, 5-10-1996; Rule 1303(a)(1)-BACT, 12-6-2002]; CO: 400 ppmv (5)[Rule 1146, 11-17-2000]; CO: 2000 ppmv (5)[Rule 407, 4-2-1982]; NOx: 7 ppmv Process Gas/Natural Gas (4) [Rule 2005, 6-3-2011]; NOx: 38.46 lbs/MMcf Process Gas/Natural Gas (1) [Rule 2012, 5-6-2005]; PM: 0.1 Grain/scf (5) [Rule 409, 8-7-1981]; VOC: 4.5 lbs/day per connected well (5) [Rule 1148, 11-5-1982].	A63.7, A63.8, A99.4, B61.1, D12.2, D29.3, D29.4, D82.4, D328.1, E17.1, E168.1, K40.2

- (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

- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

Note: Bold-faced items are to be added; crossed-over items are to be deleted.

The Facility Permit (FP) program cannot accommodate the description of the gas as Process Gas/Natural Gas due to inherent limitations of the program. "Natural Gas" will be referenced in the Equipment Description since it will have the stricter limitations.

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PERMIT CONDITIONS

A. Emission Limits

A 63.7 The operator shall limit emissions from this equipment as follows :

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 5,820 LBS IN ANY ONE MONTH
PM ₁₀	Less than or equal to 599.1 LBS IN ANY ONE MONTH
VOC	Less than or equal to 581.4 LBS IN ANY ONE MONTH
SO _x	Less than or equal to 65.7 LBS IN ANY ONE MONTH

For the purposes of this condition, the above emission limits shall be based on the combined emissions from any three of the following Boilers : TOC-28, TOC-20, TOC-47 and TOC- 85.

The operator shall calculate the monthly emissions for the above contaminants using the equation below :

Monthly Emissions, lb/mo. = Monthly fuel usage in mmscf/mo. x Emission Factor

The Emission Factors for Boilers TOC-28, TOC-20 and TOC-47 shall be as follows: CO, 33 lbs/mmscf; PM₁₀, 7 lbs/mmscf, VOC, 6.5 lbs/mmscf, SO_x, 0.77 lbs/mmscf.

The Emission Factors for Boiler TOC-85 shall be as follows: CO, 75.10 lbs/mmscf; PM₁₀, 5.5 lbs/mmscf, VOC, 5.5 lbs/mmscf, SO_x, 0.6 lbs/mmscf.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition and the records shall be made available to District personnel upon request.

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

[Devices subject to this condition: D9, D10, D11, D80]

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A 63.8 The operator shall limit emissions from this equipment as follows :

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 4,596 LBS IN ANY ONE MONTH
PM ₁₀	Less than or equal to 336.6 LBS IN ANY ONE MONTH
VOC	Less than or equal to 336.6 LBS IN ANY ONE MONTH
SO _x	Less than or equal to 36.6 LBS IN ANY ONE MONTH

The operator shall calculate the monthly emissions for the above contaminants using the equation below :

Monthly Emissions, lb/mo. = Monthly fuel usage in mmscf/mo. x Emission Factor

The Emission Factors for Boiler TOC-85 shall be as follows: CO, 75.10 lbs/mmscf; PM₁₀, 5.5 lbs/mmscf, VOC, 5.5 lbs/mmscf, SO_x, 0.6 lbs/mmscf.

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

[Devices subject to this condition: D80]

A99.4 The 7 PPM NO_x emission limit(s) shall not apply during start-ups and shutdowns. The duration of start-ups and shutdowns shall not exceed one hour each.

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

[Devices subject to this condition: D80]

B. Material/Fuel Type Limits

Add device ID no. D80 to existing condition B61.1

D. Monitoring/Testing Requirements

D12.2 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage being supplied to Boilers TOC-28, TOC-20 and TOC-47 and TOC-85.

The operator shall also install and maintain a device to continuously record the parameter being measured in accordance with Rule 2012.

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

[Devices subject to this condition: D9, D10, D11, D80]

D29.3 The operator shall conduct source test(s) for the pollutant(s) identified below:

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOx emissions	District Method 100.1	1 hour	Outlet
CO emissions	District Method 100.1	1 hour	Outlet
VOC emissions	Approved District method	1 hour	Outlet
PM ₁₀ emissions	Approved District method	1 hour	Outlet
Oxygen concentration	District method 100.1	1 hour	Outlet
SOx emissions	Approved District method	District-approved averaging time	Fuel sample

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

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

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

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

[RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996, RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 6-3-2011; RULE 2012, 5-6-2005]

[Devices subject to this condition: D80]

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

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

The test(s) shall be conducted at least annually after the initial source test(s).

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

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

[RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996, RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 6-3-2011; RULE 2012, 5-6-2005]

[Devices subject to this condition: DX1]

D82.4 The operator shall install and maintain a CEMS to measure the following parameters

NOx concentration in ppmv

Concentrations shall be corrected to 3 percent oxygen on a dry basis.

The CEMS shall be installed, operated and maintained along with all required monitoring and recordkeeping systems no later than 12 months after the initial start-up of the steam generator. During the interim period between the initial start-up of the steam generator and the provisional certification date of the CEMS, the operator shall comply with the monitoring requirements of Rule 2012(h)(2) and (h)(3). The operator shall provide written notification to the District on the exact date of start-up of the steam generator.

[RULE 2012, 5-6-2005]

[Devices subject to this condition: D80]

Add Device ID no. D80 to existing condition D328.1

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E. Equipment Operation/Construction Requirements

E17.1 The operator shall not use more than 3 of the following items simultaneously:

- Device ID : D9 [Boiler TOC-28]**
- Device ID : D10 [Boiler TOC-20]**
- Device ID : D11 [Boiler TOC-47]**
- Device ID : D80 [Boiler TOC-85]**

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

[Devices subject to this condition: D9, D10, D11, D80]

E168.1 The following condition number applies during periods of start-ups, shutdowns and commissioning.

Condition Number E17.1

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

[Devices subject to this condition: D9, D10, D11, D80]

K. Record Keeping/Reporting

Add Device ID no. D80 to existing condition K40.2

BACKGROUND/PROCESS DESCRIPTION

Berry Petroleum Company (Berry) operates the Placerita facility which it acquired from Aera Energy, LLC in 1998. It is part of Berry's South Midway-Sunset asset. Berry is an independent energy company engaged in oil and gas activities consisting of exploration, production and development of crude oil and natural gas properties. They own assets in California, Texas, Utah and Colorado. The Placerita facility produces approximately 2,600 barrels of heavy oil per day from 256 wells (115-120 active producers) utilizing thermally enhanced oil recovery (TEOR) techniques or steam injection. The crude oil is sold to Lunday-Thagard Refinery in Southgate. Aside from the oil and gas production operations, the facility also operates a 43.5-MW cogeneration facility that produces steam and electricity for use onsite. The remainder of the electricity that cannot be used onsite is sold to Southern California Edison. The produced field gas is used to fuel the large source boilers. The following processes comprise the current operation at the Placerita Canyon :

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- a. Internal combustion consisting of the cogeneration system
- b. External combustion consisting of the steam generators
- c. Crude oil/gas production consisting of the crude oil/gas/water separation, wastewater treatment, crude oil storage and transport

Berry Petroleum Company operates under both the RECLAIM (Regional Clean Air Incentives Market) and the federal Title V programs. Berry is a Cycle 1 NOx RECLAIM facility. The initial Title V facility permit was issued on June 1, 2008.

This Placerita Canyon oilfield produces “heavy oil” and Berry uses thermally enhanced oil recovery (TEOR) techniques in the form of steam injection. Berry has 56 continuous steam injectors. They currently operate three steam generators, Device ID Nos. D9, D10 and D11 (all classified as RECLAIM large sources), among others, at this site. Berry proposes to install a new 85 MMBtu/hr steam generator, D80, to expand their operations. The applicant proposes a limit on the facility permit where they will be allowed to operate only three of these four steam generators at any time and cap the non-RECLAIM pollutant emissions from this operation. Doing so will reduce the amount of offsets Berry will need to provide for this project. Berry will be required to install a NOx Continuous Emissions Monitoring System (CEMS) for the new steam generator since the unit is classified as a “major source”.

The referenced permit applications were filed on Mar. 26, 2013. Berry is requesting expedited processing on the applications. The company paid the following processing fees.

Eqpt. Description	Appl. No.	B-Cat/C-Cat No.	Processing Fees	Expedited Fees	Fees Paid
Facility Permit Amendment, RECLAIM/Title V	549027	555009	\$1,789.12	-	\$1,789.12
Oilfield Steam Generator, > 50 MMBtu/hr. NG/PG	549026	051015 (sched. E)	\$5,458.60	\$2,729.30	\$8,187.90

In addition to the above, Berry also filed the following expedited applications for changes of conditions of the existing steam generators:

Eqpt. Description	Appl. No.	Previous App. No.	FP Device ID No.	B-Cat/C-Cat No.	Fees Paid (+ XPP)
Oilfield Steam Generator, > 20-50 MMBtu/hr. NG/PG	555136	356824	D9 (TOC -28)	051014 (sched. D)	\$4,879.31
Oilfield Steam Generator, > 20-50 MMBtu/hr. NG/PG	555135	356825	D10 (TOC-20)	051014 (sched. D)	\$4,879.31
Oilfield Steam Generator, > 20-50 MMBtu/hr. NG/PG	555137	356826	D11 (TOC-47)	051014 (sched. D)	\$4,879.31

Note : The previous applications for FP Device ID Nos. D9, D10 and D11 were given incorrect B-Cat numbers and assessed Fee Schedule “C” only. The B-Cat numbers will be corrected with this permit application and the correct B-Cat number applied. The fee schedule for each steam generator will be “D”.

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COMPLIANCE REVIEW

Compliance personnel last inspected Berry on Mar. 29, 2012. Staff issued Notice of Violation P37223 for failure to transmit electronic reports of daily total emissions and status codes for two major sources. The inspector report is in the evaluation file. Said violation notice was cancelled by staff because of a failure on the AQMD electronic reporting transmittal system. There are no other violation notices that were issued to Berry within the last two years.

EMISSION CALCULATIONS

Berry's consultant completed the emission calculations for the proposed steam generator. This permitting engineer reviewed the calculations and found them to be fairly accurate. Operating hours for the proposed steam generator are 24 hrs/day, 7 days/wk, 52 wks/yr. Berry Petroleum proposes that a bubble cap be imposed as permit condition. This will enable Berry to minimize the emission offsets that they need to provide for VOCs, PM₁₀ and SO_x. Only three of the four steam generators (D9, D10, D11, D80) will be in operation at any time. A summary of the emissions calculations is presented below :

Summary – Emissions for the Existing Steam Generators

Device	Max. Rating (MMBtu/hr)	Max. Daily Emissions (lbs/day)				
		NO _x	VOC	PM ₁₀	SO _x	CO
TOC-28 (D9)	25.2	29.39	3.95	4.23	0.47	19.73
TOC-20 (D10)	27.2	31.73	4.21	4.52	0.50	21.07
TOC-47 (D11)	20.9	24.38	3.31	3.55	0.39	16.56
TOTAL		85.50	11.47	12.3	1.36	57.36

For the new steam generator, the emissions are as follows:

Device	Max. Rating (MMBtu/hr)	Max. Daily Emissions (lbs/day)				
		NO _x	VOC	PM ₁₀	SO _x	CO
TOC-85 (D80)	85.0	17.34	11.22	11.22	1.22	153.20

Based on information provided by Berry, the maximum PTE (highest taken with 3 SGs operating at 100%) will be as follows:

	Max. Daily Emissions (lbs/day)				
	NO _x	VOC	PM ₁₀	SO _x	CO
Maximum PTE	85.50	19.38	19.97	2.19	194.00
Net Change (New – Old) PTE	-	7.91	7.67	0.83	136.64
Offsets Req'd (Net PTE X 1.2)	-	9.49	9.20	0.996	NA
Offsets Required	NA	9	9	1	NA

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NOx is a RECLAIM pollutant. A permit condition is imposed if the RECLAIM facility will have an increase in the NOx emissions for their project to ensure that they own enough NOx RECLAIM Trading Credits (RTC). Since Berry is requesting an emission bubble cap and a condition that will limit the operation of the four steam generators, the project does not cause an increase in the NOx emissions. From the above table/s, if the three existing steam generators (highest NOx emissions) are operating at any time, there is no net increase in the NOx facility emissions. At the worst case scenario where TOC-28, TOC-20 and TOC-85 are all operating, the NOx facility emissions actually decrease (78.46 – 85.5 = -7.04). NOx RTCs will not be required for this project. CO is in attainment in the South Coast Air Basin. The CO emission increases do not need to be offset.

The applicant calculated the facility's existing PTE with the emissions for the three smaller steam generators using FP permit conditions A63.3, A63.4 and A63.5. These emissions, however, differ from the information in the NSR database for each application. After presenting the facility's proposal to Team "O" management staff on July 25, 2013, Sr. Manager William Thompson and Air Quality Analysis Compliance Supervisor Gary Turner issued the permitting guidance to complete an NSR update on A/N's 356824, 356825 and 356826 to reflect the PTE emissions based on FP conditions A63.3, A63.4 and A63.5. The facility's proposal, including the projected emission offsets will apply to the modification project. According to Berry, they have already purchased the required Emission Reduction Credits (ERC) and the certificates are ready for use. A detailed discussion of completing the emissions database entry in NSR is included with this report.

Berry also provided the emission factors (EF) that currently apply to the three existing steam generators (D9, D10 and D11). The EFs were verified and found to be reasonably accurate. The average of the EFs for the three existing steam generators will be calculated and these will be used in the FP conditions.

The emission factors that apply to the steam generators and that will be used in the permit conditions are presented in the following table. Berry will be required to install a fuel flowmeter to enable them to calculate the emissions from the operation of the steam boilers.

Device	Emission Factors, lbs/mmcf			
	VOC	PM ₁₀	SO _x	CO
D9, D10, D11	6.5	7	0.77	33
D80	5.5	5.5	0.6	75.1

RULES EVALUATION

RULE 212-STANDARDS FOR APPROVING PERMITS AND ISSUING PUBLIC NOTICES

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

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

FACILITY / EQUIPMENT AND SCHOOL LOCATIONS

The facility is not located within 1,000 feet of a K-12 school; a public notice is not required for section (c)(1).

DAILY EMISSIONS

The daily emissions from this project do not exceed the daily thresholds of Rule 212(g) for any of the pollutants; therefore, a public notice is not required for section (c)(2).

Rule 212 (g) Analysis

Pollutant	CO	NOx	PM ₁₀	VOC	SOx
30-day Avg. Emission Increases, lbs/day	136.64	NA	7.67	7.91	0.83
Rule 212(g) Threshold, lbs/day	220	40	30	30	60
Triggers Public Notice?	No	No	No	No	No

MAXIMUM INDIVIDUAL CANCER RISK (MICR)

The applicant completed Rule 1401 tier 2 risk calculations for the project and the results are provided in the evaluation. The screening thresholds (please refer to the discussion under Rule 1401) are not exceeded; therefore, public notice is not required for section (c)(3).

RULE 401 - VISIBLE EMISSIONS

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

RULE 402 - NUISANCE

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

RULE 407 – LIQUID AND GASEOUS AIR CONTAMINANTS

This rule limits CO emissions to 2,000 ppmvd and SO₂ emissions to 500 ppmvd, averaged over 15 minutes. The CO concentrations are expected to be less than the limit of this rule, with a permit limit of 100 ppmvd. The SOx concentration in the exhaust is expected to be 0.35 ppmvd. Both concentrations are measured at 3% O₂. Source testing will be required to verify compliance. For SO₂, equipment which complies with Rule 431.1 is exempt from the SO₂ limit in Rule 407. The applicant is required to comply with Rule 431.1 gaseous fuel sulfur content limit via FP condition B61.1 and, thus the SO₂ limit in Rule 407 will not apply.

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RULE 409 – COMBUSTION CONTAMINANTS

This rule restricts the discharge of contaminants from the combustion of fuel to 0.1 grain per cubic foot of gas, calculated to 12% CO₂, averaged over 15 minutes. The equipment is expected to meet this limit since a similar PCL-North American SG85 unit installed in Berry’s Pan Fee Lease in Bakersfield and operating on a similar gas tested for PM emissions more than an order of magnitude less than the Rule 409 limit. Source test result provided by Berry shows the mean PM emission readings to be 0.00274 grain per standard cubic foot. Compliance is expected.

RULE 431.1-SULFUR CONTENT OF GASEOUS FUELS

The purpose of this rule is to reduce sulfur oxides (SO_x) emissions from the burning of gaseous fuels in stationary equipment requiring a permit to operate by the South Coast Air Quality Management District (District). The rule limits the H₂S content of gaseous fuel to be less than 40 ppmv. FP condition B61.1 limits the H₂S content of gaseous fuel to less than 40 ppmv for the steam generators. Continued compliance is expected from Berry.

RULE 463 – STORAGE OF ORGANIC LIQUIDS

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

RULE 466 – PUMPS AND COMPRESSORS

This rule is applicable to pumps and compressors that handle reactive organic compounds. The facility is subject to Rule 1173 and is exempt from the requirements of this rule per Rule 1173(1)(3).

RULE 466.1 – VALVES AND FLANGES

This rule is applicable to valves and flanges in reactive organic compound service. The facility is subject to Rule 1173 and is exempt from the requirements of this rule per Rule 1173(1)(3).

RULE 467 – PRESSURE RELIEF DEVICES

This rule is applicable to pressure relief devices that handle reactive organic compounds. The facility is subject to Rule 1173 and is exempt from the requirements of this rule per Rule 1173(1)(3).

RULE 1146 - EMISSIONS OF OXIDES OF NITROGEN FROM INDUSTRIAL, INSTITUTIONAL, AND COMMERCIAL BOILERS, STEAM GENERATORS, AND PROCESS HEATERS

This rule applies to boilers, steam generators, and process heaters of equal to or greater than 5 million Btu per hour rated heat input capacity used in all industrial, institutional, and commercial operations with some exceptions

1146(c)(1) & (c)(4) – The steam generators are exempt from the requirement on the NO_x emission limit since Berry is a RECLAIM facility. The steam generators are required to meet 400 ppm for CO measured by volume on a dry basis at 3% O₂. The steam generators are required to be source-tested to prove compliance with the rule limits. Compliance is expected with this subsection.

RULE 1148 – THERMALLY ENHANCED OIL RECOVERY WELLS

This rule provides requirements for steam drive wells. ROG emissions from such wells are limited to a maximum of 4.5 lbs/day. Compliance is expected from the facility.

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RULE 1148.1 – OIL AND GAS PRODUCTION WELLS

The purpose of this rule is to reduce emissions of volatile organic compounds from the wellheads, the well cellars and the handling of produced gas at oil and gas production facilities. Berry uses the produced field gas from the oilfield operation as fuel for the large source boilers. Berry also operates a cogeneration plant with two major source turbines producing electricity. Most of the electricity is used to power the oilfield operation; the remainder is sold to a local utility. Therefore, the facility complies with the requirements of section (d)(6). In addition, the facility is expected to maintain clean well cellars in accordance with this rule. Compliance is expected.

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

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

RULE 1176 – VOC EMISSIONS FROM WASTEWATER SYSTEMS

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

REGULATION XIII – NEW SOURCE REVIEW

RULE 1303(a) – BACT

The Executive Officer shall deny the Permit to Construct for any new source which results in an emission increase of any non-attainment air contaminant, any ozone depleting compound, or ammonia unless the applicant can demonstrate that BACT is employed for the new source. BACT for this application is compliance with the most stringent limits that have been achieved in practice (AIP). The San Joaquin Valley Air Pollution Control District (SJVAPCD) has permitted a number of oilfield steam generators of this size and category. Based on communication with SJVAPCD engineers, current BACT/AIP limit is 7 ppmvd NOx @ 3% O₂. Refer to the e-mail in the file dated Nov. 14, 2012 for particulars. The proposed steam generator will meet the limit through the use of a North American ultra-low NOx burner (ULNB) and flue gas recirculation (FGR). BACT limit for CO is 100 ppmvd @ 3% O₂. A source test will be required to demonstrate compliance with the emission limits.

RULE 1303(b)(1) – MODELING

Modeling is not required for SOx and VOC emissions. There is no increase in the NOx emissions from the project. The calculated emissions for the rest of the pollutants are below the limits in Appendix A, Table 1 as shown:

Modeling Analysis			
Pollutant	NOx	CO	PM ₁₀
TOC-85 Calculated emissions, lbs/hr.	0.72	6.38	0.47
Allowable emissions, lbs/hr	1.31	72.1	7.9
Compliance?	Yes	Yes	Yes

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The allowable emissions are for a combustion source with a heat input capacity of 40 MMBTUs/hr. Even at the rating of 85 MMBTUs/hr, the allowable emissions are not expected to be exceeded. No further analysis is required.

RULE 1303(b)(2) – OFFSETS

1303(b)(2) – Emission Offsets. As discussed above under emission calculations, Berry must provide offsets for the emission increases resulting from the installation of the new TOC-85 steam generator for VOC, PM₁₀ and SOx. The following table itemizes the ERC certificates that Berry will apply to offset the emission increases from the proposed project.

ERC Certificates Available for Emission Offsets

Pollutant	Req'd Offsets, lbs/day	ERC Certificate No.	Amount, lbs/day
VOC	9	AQ012932	3
		AQ004610	6
PM ₁₀	9	AQ004608	1
		AQ013125	8
SOx	1	AQ004612	1

Compliance is expected with the requirements of this subsection.

RULE 1401 – NEW SOURCE REVIEW OF TOXIC AIR CONTAMINANTS

This rule is applicable to applications deemed complete on or after June 1, 1990 and it imposes specific limits for maximum individual cancer risk (MICR), cancer burden, and non-cancer acute and chronic hazard indices from new permit units, relocations, or modifications to existing permit units which emit toxic air contaminants (TAC) listed in Table I of Rule 1401. The rule establishes allowable risks for permit units requiring new permit pursuant to Rules 201 or 203. Berry conducted a Tier 2 Health Risk Assessment (HRA) for this project installation with the results provided below:

HRA Calculations Summary

Item	Calculated Value	Compliance
Total MICR, Residential	1.12 x 10 ⁻⁷	< 1 x 10 ⁻⁶ , complies
Total MICR, Commercial	1.16 x 10 ⁻⁸	< 1 x 10 ⁻⁶ , complies
HIA	1.24 x 10 ⁻³	< 1, complies
HIC	7.88 x 10 ⁻⁴	< 1, complies

Compliance with Rule 1401 is expected from the proposed installation project.

RULE 1401.1 – REQUIREMENT FOR NEW AND RELOCATED FACILITIES NEAR SCHOOLS

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

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REGULATION XVII – PREVENTION OF SIGNIFICANT DETERIORATION (PSD)

Per Rule 1701(b) applicability guidelines, PSD is applicable to attainment air contaminants of CO, NO₂ and SO₂. This facility however, is not an existing major stationary source or a new or modified existing source where the increase is at least 250 tons of attainment air contaminants per year. A detailed PSD analysis is not required for this project.

REGULATION XX – REGIONAL CLEAN AIR INCENTIVES MARKET (RECLAIM)

Berry is operating under the Regional Clean Air Incentives Market (RECLAIM) program and is complying with all applicable NOx RECLAIM rules. Berry is a NOx RECLAIM Cycle 1 facility. It is subject to Reg XX.

Rule 2005(c) – Requirements for Existing RECLAIM facilities

This subdivision requires BACT, modeling and proof of sufficient RECLAIM Trading Credits (RTC) for an application for a Facility Permit amendment that results in any increase in NOx and SOx emissions. According to 2005(d), “An increase in emissions occurs if a source’s maximum hourly potential to emit immediately prior to the proposed modification is less than the source’s post-modification maximum hourly potential to emit. Berry is a NOx RECLAIM facility and the installation of the new steam generator will not result in an increase in the maximum hourly potential to emit NOx since Berry requests an emission bubble cap and will be required to operate only three of the four referenced steam generators at any time. Using a worst case scenario where the TOC-85 steam generator will operate, the net NOx emissions will actually go down. No RECLAIM Trading Credits (RTCs) are necessary to offset the NOx emission increase.

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

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

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

This rule establishes the monitoring, reporting and recordkeeping (MRR) requirements for NOx emissions under the RECLAIM program. Existing steam generators TOC-28, TOC-20 and TOC-47 are classified as “Large Sources”. The new steam generator TOC-85 will be classified as a “Major NOx Source” and subject to the MRR requirements of this rule. The mass NOx emissions for the proposed steam generator will be monitored with a NOx Continuous Emissions Monitoring System (CEMS) including fuel flow meters. Berry is expected to comply with the MRR requirements of this regulation.

REGULATION XXX – TITLE V PERMITS

The initial Title V permit for the facility was issued on June 1, 2008. In accordance with Rule 3000, this title V revision qualifies as a “de minimis” revision because the cumulative increases of non-RECLAIM pollutants or HAPs due to these permit revisions during the term of the permit do not exceed the threshold levels specified under Rule 3000(b)(7). Therefore, this permit revision will be subject to a 45-day EPA review and 30-day public notice in accordance with Rule 3006. The revised Title V permit will be issued to Berry after completion of the required EPA review and any necessary follow-up.

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FEDERAL REGULATIONS

40 CFR60 Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 MW (100 MMBtu/hr). None of these four steam generators are rated at greater than 100 MMBtu/hr. This federal regulation does not apply to the steam generators.

RECOMMENDATIONS

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

Documentation of the Emission Bubble Cap on A/N's 549026, 555135, 555136 and 555137

Based on the scenario provided by Berry Petroleum Company, only three of any of the following steam generators will operate at any time.

Table 1. List of steam generators included in the bubble cap condition

Device ID No.	Mmbtu/hr rating	Current Appl. No.	New Appl. No.
D9	25.2	356824	555136
D10	27.2	356825	555135
D11	20.9	356826	555137
D80	85	N/A	549026

The following table provides emissions information for the steam generators.

Table 2. Emissions information

	PTE, lbs/day				
	NOx	VOC	PM ₁₀	SOx	CO
NSR (facility)	498	145	90	28	317
FP cond. (total)	85.5	11.47	12.3	1.36	57.36
Bubble		19.38	19.97	2.19	194
Delta		7.91	7.67	0.83	136.64
ERC	N/A	9	9	1	N/A

The FP (Facility Permit) cond. (total) emissions result from adding up the emissions from the air contaminants as provided in the Facility Permit Conditions (A63.3, A63.4 and A63.5). NOx is a RECLAIM pollutant and not included in the emission bubble cap. See Table 3.

Table 3. Criteria Pollutant Emission Limits in the FP, lbs/day

FP Cond.No./Device ID No.	VOC	PM ₁₀	SOx	CO
A63.3/ D9	3.95	4.23	0.47	19.73
A63.4/D10	4.21	4.52	0.50	21.07
A63.5/D11	3.31	3.55	0.39	16.56
TOTAL	11.47	12.3	1.36	57.36

The current NSR program is not capable of accepting Bubble Cap Emissions. To get around this, Sr. Engr. Rob Castro and AQACS Gary Turner provided permitting guidance. The bubble emissions will be

distributed among the four steam generators and prorated based on the unit's mmbtu/hr rating (total rating = 158.3 mmbtu/hr). The results are shown below. Table 4 shows the NSR emissions in lbs/day, Table 5 the NSR emissions in lbs/hr. The emissions data in Tables 4 and 5 are from the Emissions Bubble Cap. The following operating schedule is used in the calculations : 24 hrs/day, 7 days/wk, 52 wks/yr.

Table 4. NSR emissions, lbs/day

Device ID No.	NSR Entry, lbs/day			
	VOC	PM ₁₀	SO _x	CO
D9	3.09	3.18	0.35	30.88
D10	3.33	3.43	0.38	33.33
D11	2.56	2.64	0.29	25.61
D80	10.41	10.72	1.18	104.17
Total	19.38	19.97	2.19	194

Table 5. NSR emissions, lbs/hr

Device ID No.	NSR Entry, lbs/hr.				
	NO _x *	VOC	PM ₁₀	SO _x	CO
D9	0.92	0.13	0.13	0.01	1.29
D10	0.91	0.14	0.14	0.02	1.39
D11	0.72	0.11	0.11	0.01	1.07
D80	0.72	0.43	0.45	0.05	4.34

- values from previous applications and actual calculations

Table 6 below shows the emissions data to be entered in the NSR database for the new steam generator, D80. These emissions are the offset emissions so the Bubble Cap Emissions are reflected in NSR.

Table 6. Offset Emissions

Device ID No.	NSR Entry, for D80				
	NO _x *	VOC	PM ₁₀	SO _x	CO
lbs/day	17.28	7.91	7.67	0.83	136.64
lbs/hr	0.72	0.33	0.32	0.03	5.69

- NO_x values are from actual calculations

Procedure to reflect the emission bubble cap in NSR:

1. Update NSR information for the existing generators with the emission limits from the FP conditions (see Table 3).
2. Enter emissions for the change of condition applications (555136-37) using information from Tables 4 and 5.
3. Enter **offset** emissions from Table 6 for the new steam generator application 549026.

NSR Entries

PTE, lbs/day					
	NOx	VOC	PM10	SOx	CO
NSR	498	145	90	28	317
FP cond. (total)	85.5	11.47	12.3	1.36	57.36
Bubble		19.38	19.97	2.19	194
Delta		7.91	7.67	0.83	136.64
ERC	N/A	9	9	1	N/A

Bubble Cap Emissions

		NSR Entry, lbs/day			
Device ID No.	mmbtu/hr. rating	VOC	PM10	SOx	CO
D9	25.2	3.09	3.18	0.35	30.88
D10	27.2	3.33	3.43	0.38	33.33
D11	20.9	2.56	2.64	0.29	25.61
D80	85	10.41	10.72	1.18	104.17
Total	158.3	19.38	19.97	2.19	194

Bubble Cap Emissions

		NSR Entry, lbs/hr.				
Device ID No.	A/N	NOx*	VOC	PM10	SOx	CO
D9	555136	0.92	0.13	0.13	0.01	1.29
D10	555135	0.91	0.14	0.14	0.02	1.39
D11	555137	0.72	0.11	0.11	0.01	1.07
D80	549026	0.72	0.43	0.45	0.05	4.34
Total		3.27	0.81	0.83	0.09	8.08

* values from previous apps. and actual calculations

For the new steam generators, D80, the emissions to be entered in the NSR database are the emissions to be offsetted so as to reflect the emission bubble cap.

Device ID No.	NOx*	NSR Entry, for D80			
		VOC	PM10	SOx	CO
lbs/day	17.28	7.91	7.67	0.83	136.64
lbs/hr	0.72	0.33	0.32	0.03	5.69

* NOx values are from actual calculations

Bubble Cap Emissions & Facility Permit Limits [Daily Emissions x 30]

Device ID No.	mmbtu/hr. rating	NSR Entry, lbs/month			
		VOC	PM10	SOx	CO
D9	25.2	92.55	95.37	10.46	926.49
D10	27.2	99.90	102.94	11.29	1000.03
D11	20.9	76.76	79.10	8.67	768.40
D80	85	312.19	321.69	35.28	3125.08
Total	158.3	581.40	599.10	65.70	5820

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING AND COMPLIANCE

M E M O R A N D U M

Date: September 30, 2013
To: Application File
From: Maria Vibal
Subject: Facility Permit Equipment Description and Conditions - A/N's 549026, 549027, 555135 through 555137
Berry Petroleum Company (Fac. ID 119907)

I forwarded the draft Facility Permit (FP) Equipment Description and Conditions to Sr. Engr. Rob Castro and Mike Shaffer, consultant for Berry Petroleum Company, for their review and comments.

After obtaining Mr. Shaffer's comments and upon consultation with Sr. Engr. Rob Castro and Sr. Enforcement Manager Billy Thompson, the following action items will be completed on the referenced FP [see DRAFT PERMIT (REV 1)] :

1. Delete conditions A63.3 up to A63.5 and A63.x2. *[This will be done since conditions A63.x1, E17.x1 and E168.x1 already impose the emission bubble limit for the four steam generators (D9, D10, D11, DX1) whenever any three of the four units operate. Said conditions will ensure compliance with Rule 1303(b)(2) – Offsets. Individual emission limits for the steam generators are not necessary.]*
2. Correct the RECLAIM emission factor for steam generator TOC-85 (Device ID No. DX1) from 38.46 to 8.5 lbs/MMscf for Process Gas/Natural Gas fuel blend. *[Incorrect emission factor was used in the original draft FP.]*
3. Keep the wording in FP condition D82.x1. *[During the interim period of the CEMS pre-certification, the NOx emission factor to be used by Berry Petroleum to report emissions will be decided internally by SCAQMD permitting staff.]*

Conclusions and Recommendations:

Issue a draft FP with the equipment description and permit conditions in the attached **DRAFT PERMIT (REV. 2)** incorporated.

**DRAFT PERMIT (REV. 2) FOR BERRY PETROLEUM COMPANY – INSTALLATION OF 85
MMBTU/HR STEAM GENERATOR AND REQUEST FOR EMISSION BUBBLE CAP**

EQUIPMENT DESCRIPTION

A/N 549026 New Installation (P/C) of an Oilfield Steam Generator
 A/N 549027 De Minimis Revision of the RECLAIM/Title V Facility Permit
 A/N 555135 Change of Condition (PC/PO) on an Existing Oilfield Steam Generator (A/N 356825)
 A/N 555136 Change of Condition (PC/PO) on an Existing Oilfield Steam Generator (A/N 35684)
 A/N 555137 Change of Condition (PC/PO) on an Existing Oilfield Steam Generator (A/N 356826)

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

Equipment	ID No.	Connected to	Source Type	Emissions And Requirements	Conditions
PROCESS 2: EXTERNAL COMBUSTION					
Boiler, TOC-28, Natural Gas, Process Gas, Struthers Thermoflood, with Flue Gas Recirculation, Oxygen Content Control, 25.2 MMBtu/hr A/N: 356824-555136	D9	E68	NOx: Large Source**	CO: 400 ppmv (5) [RULE 1146, 11-17-2000]; CO: 2000 ppmv (5A) [RULE 407, 4-2-1982]; NOx: 40 ppmv Natural Gas (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; NOx: 40 ppmv Process Gas (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: 0.1 grains/scf (5) [RULE 409, 8-7-1981]; VOC: 4.5 lbs/day per connected well (5) [RULE 1148, 11-5-1982]	A63.3 , A63.x1, B61.1, D12.x1, D328.1, E17.x1, E168.x1
Boiler, TOC-20, Natural Gas, Process Gas, Struthers Thermoflood, with Flue Gas Recirculation, Oxygen Content Control, 27.2 MMBtu/hr A/N: 356825-555135	D10	E68	NOx: Large Source**	CO: 400 ppmv (5) [RULE 1146, 11-17-2000]; CO: 2000 ppmv (5A) [RULE 407, 4-2-1982]; NOx: 40 ppmv Natural Gas (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; NOx: 40 ppmv Process Gas (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: 0.1 grains/scf (5) [RULE 409, 8-7-1981]; VOC: 4.5 lbs/day per connected well (5) [RULE 1148, 11-5-1982]	A63.4 , A63.x1, B61.1, D12.x1, D328.1, E17.x1, E168.x1
Boiler, TOC-47, Natural Gas, Process Gas, Struthers Thermoflood, with Flue Gas Recirculation, Oxygen Content Control, 20.9 MMBtu/hr A/N: 356826-555137	D11	E68	NOx: Large Source**	CO: 400 ppmv (5) [RULE 1146, 11-17-2000]; CO: 2000 ppmv (5A) [RULE 407, 4-2-1982]; NOx: 40 ppmv Natural Gas (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; NOx: 40 ppmv Process Gas (3) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: 0.1 grains/scf (5) [RULE 409, 8-7-1981]; VOC: 4.5 lbs/day per connected well (5) [RULE 1148, 11-5-1982]	A63.5 , A63.x1, B61.1, D12.x1, D328.1, E17.x1, E168.x1

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

Equipment	ID No.	Connected to	Source Type	Emissions And Requirements	Conditions
PROCESS 2: EXTERNAL COMBUSTION					
Boiler, TOC-85, Process Gas, Natural Gas, PCL Industrial Services, with Low-NOx burner, Flue Gas Recirculation, 85.0 MMBtu/hr with A/N 549026 Burner, Process Gas, Natural Gas, North American, Model Magna-Flame 4231-85 GLE, Low-NOx; 1 Total 85.0 MMBtu/hr	DX1	E68	NOX: Major Source**	CO : 100 ppmv Natural Gas (4) [Rule 1303 (a)(1)-BACT, 5-10-1996; Rule 1303(a)(1)-BACT, 12-6-2002]; CO: 400 ppmv (5)[Rule 1146, 11-17-2000]; CO: 2000 ppmv (5)[Rule 407, 4-2-1982]; NOx: 7 ppmv Process Gas/Natural Gas (4) [Rule 2005, 6-3-2011]; NOx: 38.46 8.5 lbs/MMscf Process Gas/Natural Gas (1) [Rule 2012, 5-6-2005]; PM: 0.1 Grain/scf (5) [Rule 409, 8-7-1981]; VOC: 4.5 lbs/day per connected well (5) [Rule 1148, 11-5-1982].	A63.x1, A63.x2 , A99.x1, B61.1, D12.x1, D29.x1, D29.x2, D82.x1, D328.1, E17.x1, E168.x1, K40.2

(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

(2) (2A) (2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

Note: Bold-faced items are to be added; crossed-over items are to be deleted.

PERMIT CONDITIONS**A. Emission Limits**

A 63.x1 The operator shall limit emissions from this equipment as follows :

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 5,820 LBS IN ANY ONE MONTH
PM ₁₀	Less than or equal to 599.1 LBS IN ANY ONE MONTH
VOC	Less than or equal to 581.4 LBS IN ANY ONE MONTH
Sox	Less than or equal to 65.7 LBS IN ANY ONE MONTH

For the purposes of this condition, the above emission limits shall be based on the total combined emissions from any three of the following Boilers : TOC-28, TOC-20, TOC-47 and TOC-85.

The operator shall calculate the monthly emissions for the above contaminants using the equation below :

Monthly Emissions, lb/mo. = Monthly fuel usage in mmscf/mo. x Emission Factor

The Emission Factors for Boilers TOC-28, TOC-20 and TOC-47 shall be as follows: CO, 33 lbs/mmscf; PM₁₀, 7 lbs/mmscf; VOC, 6.5 lbs/mmscf; SO_x, 0.77 lbs/mmscf.

The Emission Factors for Boiler TOC-85 shall be as follows: CO, 75.10 lbs/mmscf; PM₁₀, 5.5 lbs/mmscf; VOC, 5.5 lbs/mmscf; SO_x, 0.6 lbs/mmscf.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition and the records shall be made available to District personnel upon request.

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

[Devices subject to this condition: D9, D10, D11, DX1]

~~A.63.3 The operator shall limit emissions from this equipment as follows:~~

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 926.49 LBS IN ANY ONE MONTH
PM ₁₀	Less than or equal to 95.37 LBS IN ANY ONE MONTH
VOC	Less than or equal to 92.55 LBS IN ANY ONE MONTH
Sox	Less than or equal to 10.46 LBS IN ANY ONE MONTH

~~The operator shall calculate the monthly emissions for the above contaminants using the equation below:~~

~~Monthly Emissions, lb/mo. = Monthly fuel usage in mmscf/mo. x Emission Factor~~

~~The Emission Factors for Boiler TOC-28 shall be as follows: CO, 33 lbs/mmscf; PM₁₀, 7 lbs/mmscf; VOC, 6.5 lbs/mmscf; SO_x, 0.77 lbs/mmscf.~~

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

~~[Devices subject to this condition: D9]~~

~~A 63.4 The operator shall limit emissions from this equipment as follows:~~

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 1,000.03 LBS IN ANY ONE MONTH
PM ₁₀	Less than or equal to 102.94 LBS IN ANY ONE MONTH
VOC	Less than or equal to 99.9 LBS IN ANY ONE MONTH
SO _x	Less than or equal to 11.29 LBS IN ANY ONE MONTH

~~The operator shall calculate the monthly emissions for the above contaminants using the equation below:~~

~~Monthly Emissions, lb/mo. = Monthly fuel usage in mmsef/mo. x Emission Factor~~

~~The Emission Factors for Boiler TOC 20 shall be as follows: CO, 33 lbs/mmsef; PM₁₀, 7 lbs/mmsef; VOC, 6.5 lbs/mmsef; SO_x, 0.77 lbs/mmsef.~~

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

~~[Devices subject to this condition: D10]~~

~~A 63.5 The operator shall limit emissions from this equipment as follows:~~

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 768.4 LBS IN ANY ONE MONTH
PM ₁₀	Less than or equal to 79.1 LBS IN ANY ONE MONTH
VOC	Less than or equal to 76.76 LBS IN ANY ONE MONTH
SO _x	Less than or equal to 8.67 LBS IN ANY ONE MONTH

~~The operator shall calculate the monthly emissions for the above contaminants using the equation below:~~

~~Monthly Emissions, lb/mo. = Monthly fuel usage in mmsef/mo. x Emission Factor~~

~~The Emission Factors for Boiler TOC 47 shall be as follows: CO, 33 lbs/mmsef; PM₁₀, 7 lbs/mmsef; VOC, 6.5 lbs/mmsef; SO_x, 0.77 lbs/mmsef.~~

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

~~[Devices subject to this condition: D11]~~

~~A 63.x2 The operator shall limit emissions from this equipment as follows :~~

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 3,125.08 LBS IN ANY ONE MONTH
PM₁₀	Less than or equal to 321.69 LBS IN ANY ONE MONTH
VOC	Less than or equal to 312.19 LBS IN ANY ONE MONTH
SO_x	Less than or equal to 35.28 LBS IN ANY ONE MONTH

~~The operator shall calculate the monthly emissions for the above contaminants using the equation below :~~

~~Monthly Emissions, lb/mo. = Monthly fuel usage in mmsef/mo. x Emission Factor~~

~~The Emission Factors for Boiler TOC-85 shall be as follows: CO, 75.10 lbs/mmsef; PM₁₀, 5.5 lbs/mmsef; VOC, 5.5 lbs/mmsef; SO_x, 0.6 lbs/mmsef~~

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

~~[Devices subject to this condition: DX1]~~

A99.x1 The 7 PPM NO_x emission limit(s) shall not apply during start-ups and shutdowns. The duration of start-ups and shutdowns shall not exceed one hour each.

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

[Devices subject to this condition: DX1]

B. Material/Fuel Type Limits

Add device ID no. DX1 to existing condition B61.1

D. Monitoring/Testing Requirements

D12.x1 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage being supplied to Boilers TOC-28, TOC-20 and TOC-47 and TOC-85.

The operator shall also install and maintain a device to continuously record the parameter being measured in accordance with Rule 2012.

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

[Devices subject to this condition: D9, D10, D11, DX1]

D29.x1 The operator shall conduct source test(s) for the pollutant(s) identified below:

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOx emissions	District Method 100.1	1 hour	Outlet
CO emissions	District Method 100.1	1 hour	Outlet
VOC emissions	Approved District method	1 hour	Outlet
PM10 emissions	Approved District method	1 hour	Outlet
Oxygen concentration	District method 100.1	1 hour	Outlet
SOx emissions	Approved District method	District-approved averaging time	Fuel sample

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

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

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

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

[RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996, RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 6-3-2011, RULE 2012, 5-6-2005]

[Devices subject to this condition: DX1]

D29.x2 The operator shall conduct source test(s) for the pollutant(s) identified below:

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

The test(s) shall be conducted at least annually after the initial source test(s).

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

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

[RULE 1303(a)(1)-BACT, 5-10-1996, RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996, RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 6-3-2011; RULE 2012, 5-6-2005]

[Devices subject to this condition: DX1]

D82.x1 The operator shall install and maintain a CEMS to measure the following parameters

NOx concentration in ppmv

Concentrations shall be corrected to 3 percent oxygen on a dry basis.

The CEMS shall be installed, operated and maintained along with all required monitoring and recordkeeping systems no later than 12 months after the initial start-up of the steam generator. During the interim period between the initial start-up of the steam generator and the provisional certification date of the CEMS, the operator shall comply with the monitoring requirements of Rule 2012(h)(2) and (h)(3). The operator shall provide written notification to the District on the exact date of start-up of the steam generator.

[RULE 2012, 5-6-2005]

[Devices subject to this condition: DX1]

Add Device ID no. DX1 to existing condition D328.1

E. Equipment Operation/Construction Requirements

E17.x1 The operator shall not use more than 3 of the following items simultaneously :

**Device ID: D9 [BOILER TOC-28]
Device ID: D10 [BOILER TOC-20]
Device ID: D11 [BOILER TOC-47]
Device ID: DX1 [BOILER TOC-85]**

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

[Devices subject to this condition: D9, D10, D11, DX1]

E168.x1 The following condition number(s) applies during periods of start-ups, shutdowns and commissioning.

Condition Number E17.x1

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

[Devices subject to this condition: D9, D10, D11, DX1]

K. Record Keeping/Reporting

Add Device ID no. DX1 to existing condition K40.2

GHG NSR CALCULATOR



A/N:	549026
FAC. ID.:	119907
EQUIPMENT TYPE:	General Combustion
Max Heat Input:	85
Fuel Type:	Natural Gas
Engine HP:	

MMBTU/HR

General Combustion

GHG Emissions:	CO ₂	9,935.5	lb/hr
	CH ₄	0.17	lb/hr
	N ₂ O	0.02	lb/hr

Natural Gas Engine

GHG Emissions:	CO ₂	0.0	lb/hr
	CH ₄	0.00	lb/hr
	N ₂ O	0.00	lb/hr

Diesel Engine

GHG Emissions:	CO ₂	0.0	lb/hr
	CH ₄	0.00	lb/hr
	N ₂ O	0.00	lb/hr

Fuel Type	GHG	GHG Emission Factors				
		GENERAL COMBUSTION		INTERNAL COMBUSTION ENGINE		
		kg/MMBtu	lb/MMBtu	kg/MMBtu	lb/MMBtu	lb/HP-hr*
Natural Gas	CO ₂	53.02	116.89	53.02	116.89	0.818215
	CH ₄	0.0009	0.0020	0.0059	0.0130	0.000091
	N ₂ O	0.0001	0.0002	0.001	0.0022	0.000015
LPG	CO ₂	62.98	138.85			
	CH ₄	0.001	0.0022			
	N ₂ O	0.0001	0.0002			
Diesel	CO ₂	73.1	161.16	73.15	161.27	1.12886543
	CH ₄	0.003	0.0066	0.0014	0.0031	0.000022
	N ₂ O	0.0006	0.0013	0.001	0.0022	0.000015
Landfill Gas	CO ₂	52.03	114.71			
	CH ₄	0.0009	0.0020			
	N ₂ O	0.0001	0.0002			

* Average brake specific consumption of 7,000 Btu/hp-hr to convert from lb/MMBtu to lb/hp-hr
 (Source: Table 3.3-1 Emission Factors for Uncontrolled Gasoline & Diesel Industrial Engines, EPA)



South Coast Air Quality Management District

Form 400-A

Application Form for Permit or Plan Approval

List only one piece of equipment or process per form.

Mail To: SCAQMD, P.O. Box 4944, Diamond Bar, CA 91765-0944

Tel: (909) 396-3385 www.aqmd.gov

Section A - Operator Information

1. Facility Name (Business Name of Operator to Appear on the Permit): Berry Petroleum Company
2. Valid AQMD Facility ID (Available On Permit Or Invoice Issued By AQMD): 119907
3. Owner's Business Name (If different from Business Name of Operator): same

Section B - Equipment Location Address

4. Equipment Location Is: Fixed Location
25121 N. Sierra Highway
Santa Clarita, CA 91321-2007
John Ludwick, Sr. Reg. Compliance Spec
(661) 616-3807, (661) 616-3892
E-Mail: jjl@bry.com

Section C - Permit Mailing Address

5. Permit and Correspondence Information:
5201 Truxtun Avenue, Suite 100
Bakersfield, CA 93309-0640
John Ludwick, Sr. Reg. Compliance Spec
(661) 616-3807, (661) 616-3892
E-Mail: jjl@bry.com

Section D - Application Type

6. The Facility Is: In RECLAIM & Title V Programs

7. Reason for Submitting Application (Select only ONE):

7a. New Equipment or Process Application:
7b. Facility Permits: RECLAIM Facility Permit Amendment
7c. Equipment or Process with an Existing/Previous Application or Permit:
Existing or Previous Permit/Application
If you checked any of the items in 7c., you MUST provide an existing Permit or Application Number.

8a. Estimated Start Date of Construction (mm/dd/yyyy):
8b. Estimated End Date of Construction (mm/dd/yyyy):
8c. Estimated Start Date of Operation (mm/dd/yyyy):

9. Description of Equipment or Reason for Compliance Plan (list applicable rule): RECLAIM Facility Permit Amendment
10. For identical equipment, how many additional applications are being submitted with this application? 0
11. Are you a Small Business as per AQMD's Rule 102 definition? No
12. Has a Notice of Violation (NOV) or a Notice to Comply (NC) been issued for this equipment? No

Section E - Facility Business Information

13. What type of business is being conducted at this equipment location? Crude Oil & Gas Production
14. What is your business primary NAICS Code? 21111
15. Are there other facilities in the SCAQMD jurisdiction operated by the same operator? No
16. Are there any schools (K-12) within 1000 feet of the facility property line? No

Section F - Authorization/Signature

17. Signature of Responsible Official: [Signature]
18. Title of Responsible Official: Senior Vice President of CA
19. I wish to review the permit prior to issuance. No
20. Print Name: Tim Crawford
21. Date:
22. Do you claim confidentiality of data? (If Yes, see instructions.) No

23. Check List: [X] Authorized Signature/Date [X] Form 400-CEQA [X] Supplemental Form(s) [X] Fees Enclosed

Table with columns: AQMD USE ONLY, APPLICATION TRACKING #, CHECK #, AMOUNT RECEIVED, PAYMENT TRACKING #, VALIDATION, DATE, APP. DATE, APP. REL., CLASS, BASIC CONTROL, EQUIPMENT CATEGORY CODE, ITEM, ENGINEER, REASON/ACTION TAKEN

Rel. TV

[Handwritten signature]

13 MAR 26 P 2:36

ST. LOUIS
ENGINEERING



South Coast Air Quality Management District

Form 400-CEQA

California Environmental Quality Act (CEQA) Applicability

Mail To:
SCAQMD
P.O. Box 4944
Diamond Bar, CA 91765-0944

Tel: (909) 396-3385
www.aqmd.gov

The SCAQMD is required by state law, the California Environmental Quality Act (CEQA), to review discretionary permit project applications for potential air quality and other environmental impacts. This form is a screening tool to assist the SCAQMD in clarifying whether or not the project¹ has the potential to generate significant adverse environmental impacts that might require preparation of a CEQA document [CEQA Guidelines §15060(a)].² Refer to the attached instructions for guidance in completing this form.³ For each Form 400-A application, also complete and submit one Form 400-CEQA. If submitting multiple Form 400-A applications for the same project at the same time, only one 400-CEQA form is necessary for the entire project. If you need assistance completing this form, contact Permit Services at (909) 396-3385 or (909) 396-2668.

Section A - Facility Information	
1. Facility Name (Business Name of Operator To Appear On The Permit): <u>Berry Petroleum Company</u>	2. Valid AQMD Facility ID (Available On Permit Or Invoice Issued By AQMD): <u>119907</u>
3. Project Description: <u>Application for installation of new 85 MMBtu/hr steam generator.</u>	

Section B - Review For Exemption From Further CEQA Action		
Check "Yes" or "No" as applicable		
	Yes	No
Is this application for:	<input type="radio"/>	<input checked="" type="radio"/>
1. A CEQA and/or NEPA document previously or currently prepared that specifically evaluates this project? If yes, attach a copy of the signed Notice of Determination to this form.	<input type="radio"/>	<input checked="" type="radio"/>
2. A request for a change of permittee only (without equipment modifications)?	<input type="radio"/>	<input checked="" type="radio"/>
3. A functionally identical permit unit replacement with no increase in rating or emissions?	<input type="radio"/>	<input checked="" type="radio"/>
4. A change of daily VOC permit limit to a monthly VOC permit limit?	<input type="radio"/>	<input checked="" type="radio"/>
5. Equipment damaged as a result of a disaster during state of emergency?	<input type="radio"/>	<input checked="" type="radio"/>
6. A Title V (i.e., Regulation XXX) permit renewal (without equipment modifications)?	<input type="radio"/>	<input checked="" type="radio"/>
7. A Title V administrative permit revision?	<input type="radio"/>	<input checked="" type="radio"/>
8. The conversion of an existing permit into an initial Title V permit?	<input type="radio"/>	<input checked="" type="radio"/>

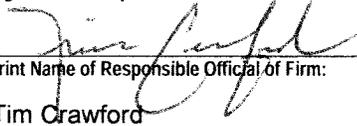
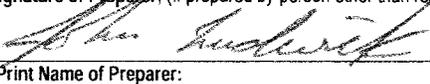
If "Yes" is checked for any question in Section B, your application does not require additional evaluation for CEQA applicability. Skip to Section D - Signatures on page 2 and sign and date this form.

Section C - Review of Impacts Which May Trigger CEQA		
Complete Parts I-VI by checking "Yes" or "No" as applicable. To avoid delays in processing your application(s), explain all "Yes" responses on a separate sheet and attach it to this form.		
	Yes	No
Part I - General	<input type="radio"/>	<input checked="" type="radio"/>
1. Has this project generated any known public controversy regarding potential adverse impacts that may be generated by the project? Controversy may be construed as concerns raised by local groups at public meetings; adverse media attention such as negative articles in newspapers or other periodical publications, local news programs, environmental justice issues, etc.	<input type="radio"/>	<input checked="" type="radio"/>
2. Is this project part of a larger project? If yes, attach a separate sheet to briefly describe the larger project.	<input type="radio"/>	<input checked="" type="radio"/>
Part II - Air Quality	<input type="radio"/>	<input checked="" type="radio"/>
3. Will there be any demolition, excavating, and/or grading construction activities that encompass an area exceeding 20,000 square feet?	<input type="radio"/>	<input checked="" type="radio"/>
4. Does this project include the open outdoor storage of dry bulk solid materials that could generate dust? If Yes, include a plot plan with the application package.	<input type="radio"/>	<input checked="" type="radio"/>

¹ A "project" means the whole of an action which has a potential for resulting in physical change to the environment, including construction activities, clearing or grading of land, improvements to existing structures, and activities or equipment involving the issuance of a permit. For example, a project might include installation of a new, or modification of an existing internal combustion engine, dry-cleaning facility, boiler, gas turbine, spray coating booth, solvent cleaning tank, etc.

² To download the CEQA guidelines, visit http://ceres.ca.gov/env_law/state.html.

³ To download this form and the instructions, visit <http://www.aqmd.gov/ceqa> or <http://www.aqmd.gov/permit>

Section C - Review of Impacts Which May Trigger CEQA (cont.)			
	Yes	No	Part II - Air Quality (cont.)
5.	<input type="radio"/>	<input checked="" type="radio"/>	Would this project result in noticeable off-site odors from activities that may not be subject to SCAQMD permit requirements? For example, compost materials or other types of greenwaste (i.e., lawn clippings, tree trimmings, etc.) have the potential to generate odor complaints subject to Rule 402 – Nuisance.
6.	<input type="radio"/>	<input checked="" type="radio"/>	Does this project cause an increase of emissions from marine vessels, trains and/or airplanes?
7.	<input type="radio"/>	<input checked="" type="radio"/>	Will the proposed project increase the QUANTITY of hazardous materials stored aboveground onsite or transported by mobile vehicle to or from the site by greater than or equal to the amounts associated with each compound on the attached Table 1? ⁴
Part III – Water Resources			
8.	<input type="radio"/>	<input checked="" type="radio"/>	Will the project increase demand for water at the facility by more than 5,000,000 gallons per day? The following examples identify some, but not all, types of projects that may result in a "yes" answer to this question: 1) projects that generate steam; 2) projects that use water as part of the air pollution control equipment; 3) projects that require water as part of the production process; 4) projects that require new or expansion of existing sewage treatment facilities; 5) projects where water demand exceeds the capacity of the local water purveyor to supply sufficient water for the project; and 6) projects that require new or expansion of existing water supply facilities.
9.	<input type="radio"/>	<input checked="" type="radio"/>	Will the project require construction of new water conveyance infrastructure? Examples of such projects are when water demands exceed the capacity of the local water purveyor to supply sufficient water for the project, or require new or modified sewage treatment facilities such that the project requires new water lines, sewage lines, sewage hook-ups, etc.
Part IV – Transportation/Circulation			
10.	Will the project result in (Check all that apply):		
	<input type="radio"/>	<input checked="" type="radio"/>	a. the need for more than 350 new employees?
	<input type="radio"/>	<input checked="" type="radio"/>	b. an increase in heavy-duty transport truck traffic to and/or from the facility by more than 350 truck round-trips per day?
	<input type="radio"/>	<input checked="" type="radio"/>	c. increase customer traffic by more than 700 visits per day?
Part V – Noise			
11.	<input type="radio"/>	<input checked="" type="radio"/>	Will the project include equipment that will generate noise GREATER THAN 90 decibels (dB) at the property line?
Part VI – Public Services			
12.	Will the project create a permanent need for new or additional public services in any of the following areas (Check all that apply):		
	<input type="radio"/>	<input checked="" type="radio"/>	a. Solid waste disposal? Check "No" if the projected potential amount of wastes generated by the project is less than five tons per day.
	<input type="radio"/>	<input checked="" type="radio"/>	b. Hazardous waste disposal? Check "No" if the projected potential amount of hazardous wastes generated by the project is less than 42 cubic yards per day (or equivalent in pounds).
REMINDER: For each "Yes" response in Section C, attach all pertinent information including but not limited to estimated quantities, volumes, weights, etc.			
Section D - Signatures			
I HEREBY CERTIFY THAT ALL INFORMATION CONTAINED HEREIN AND INFORMATION SUBMITTED WITH THIS APPLICATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I UNDERSTAND THAT THIS FORM IS A SCREENING TOOL AND THAT THE SCAQMD RESERVES THE RIGHT TO CONSIDER OTHER PERTINENT INFORMATION IN DETERMINING CEQA APPLICABILITY.			
1. Signature of Responsible Official of Firm: 		2. Title of Responsible Official of Firm: Senior Vice President of California	
3. Print Name of Responsible Official of Firm: Tim Crawford		4. Date Signed:	
5. Phone # of Responsible Official of Firm: (661) 616-3900	6. Fax # of Responsible Official of Firm: (661) 616-3892	7. Email of Responsible Official of Firm: gtc@bry.com	
8. Signature of Preparer, (if prepared by person other than responsible official of firm): 		9. Title of Preparer: Senior Regulatory Compliance Specialist	
10. Print Name of Preparer: John Ludwick		11. Date Signed: 3/20/2013	
12. Phone # of Preparer: (616) 616-3807	13. Fax # of Preparer: (661) 616-3892	14. Email of Preparer: jjl@bry.com	

THIS CONCLUDES FORM 400-CEQA. INCLUDE THIS FORM AND ANY ATTACHMENTS WITH FORM 400-A.

⁴ Table 1 – Regulated Substances List and Threshold Quantities for Accidental Release Prevention can be found in the Instructions for Form 400-CEQA.



Title V Compliance Status Report

To provide the compliance status of your facility with applicable federally enforceable requirements and identify other local-only requirements, complete this form; and attach it to a completed compliance certification Form 500-A2. As appropriate, all submittals of Form 500-C2 as appropriate should also be attached to this form.

Mail To: SCAQMD P.O. Box 4944 Diamond Bar, CA 91765-0944

Tel: (909) 396-3385 www.aqmd.gov

Section I - Operator Information

1. Facility Name (Business Name of Operator That Appears On Permit):

BERRY PETROLEUM COMPANY

2. Valid AQMD Facility ID (Available On Permit Or Invoice Issued By AQMD): 119907

PROCEDURES FOR DETERMINING COMPLIANCE STATUS

- 1. Equipment verification: Review the list of pending applications, and either the preliminary Title V facility permit or the list of current permits to operate that the AQMD provided you, to determine if they completely and accurately describe all equipment operating at the facility. Attach a statement to describe any discrepancies.
2. Identify applicable requirements*: Use the checklist in Section II to identify all applicable and federally-enforceable local, state, and federal rules and regulations, test methods, and monitoring, recordkeeping and reporting (MRR) requirements that apply to any equipment or process (including equipment exempt from a permit by Rule 219) at your facility.
3. Identify additional applicable requirements*: Use Section III to identify any additional requirements not found in Section II. Section II is not a complete list of all applicable requirements. It does not include recently adopted NESHAP regulations by EPA or recent amendments to AQMD rules. Do not add rules listed in Section V here.
4. Identify any requirements that do not apply to a specific piece of equipment or process: Also use Section III to identify any requirements that are listed in Section II but that do not apply to a specific piece of equipment or process. Fill out Section III of this form and attach a separate sheet to explain the reason(s) why the identified rules do not apply. Note: Listing any requirement that does not apply to a specific piece of equipment will not provide the facility with a permit shield unless one is specifically requested by completing Form 500-D and is approved by AQMD.
5. Identify SIP-approved rules that are not current AQMD rules: Use Section IV to identify older versions of current AQMD rules that are the EPA-approved versions in the State Implementation Plan (SIP), and that are still applicable requirements as defined by EPA. The facility is not required to certify compliance with the items checked in Section IV provided that the non-SIP approved rule in Section II is at least as stringent as the older SIP-approved version in Section IV.
6. Identify Local-Only Enforceable Regulatory Requirements: Use Section V to identify AQMD rules that are not SIP-approved and are not federally enforceable.
7. Determine compliance: Determine if all equipment and processes are complying with all requirements identified in Sections II and III. If each piece of equipment complies with all applicable requirements, complete and attach Form 500-A2 to certify the compliance status of the facility. If any piece of equipment is not in compliance with any of the applicable requirements, complete and attach Form 500-C2 in addition to Form 500-A2.

* The following AQMD rules and regulations are not required to be included in Section II and do not have to be added to Section III: Regulation I, List and Criteria in Regulation II, Rule 201, Rule 201.1, Rule 202, Rule 203, Rule 205, Rule 206, Rule 207, Rule 208, Rule 209, Rule 210, Rule 212, Rule 214, Rule 215, Rule 216, Rule 217, Rule 219, Rule 220, Rule 221, Regulation III, Regulation V, Regulation VIII, Regulation XII, Regulation XV, Regulation XVI, Regulation XIX, Regulation XXI, Regulation XXII, and Regulation XXX.

** Emission units adversely affected by the gap between current and SIP-approved versions of rules may initially be placed in a non-Title V portion of the permit

Section II - Applicable Requirements, Test Methods, & MRR Requirements			
Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> All Air Pollution Control Equipment Using Combustion (RECLAIM & non-RECLAIM sources)	<input type="checkbox"/> Rule 480 (10/07/77)	N/A	N/A
<input type="checkbox"/> All Coating Operations (12/15/00)	<input type="checkbox"/> Rule 442	<input type="checkbox"/> Rule 442(f)	<input type="checkbox"/> Rule 442(g)
<input type="checkbox"/> All Combustion Equipment, ≥ 555 Mmbtu/Hr (except for NOx RECLAIM sources)	<input type="checkbox"/> Rule 474 (12/04/81)	<input type="checkbox"/> AQMD TM 7.1 or 100.1	
<input checked="" type="checkbox"/> All Combustion Equipment Except Internal Combustion Engines (RECLAIM & non-RECLAIM sources)	<input checked="" type="checkbox"/> Rule 407 (04/02/82) <input checked="" type="checkbox"/> Rule 409 (08/07/81)	<input checked="" type="checkbox"/> AQMD TM 100.1 or 10.1, 307-91 <input checked="" type="checkbox"/> AQMD TM 5.1, 5.2, or 5.3	
<input checked="" type="checkbox"/> All Combustion Equipment Using Gaseous Fuel (except SOx RECLAIM sources)	<input checked="" type="checkbox"/> Rule 431.1 (06/12/98)	<input checked="" type="checkbox"/> Rule 431.1(f)	<input checked="" type="checkbox"/> Rule 431.1(d) & (e)
<input checked="" type="checkbox"/> All Combustion Equipment Using Liquid Fuel (except SOx RECLAIM sources)	<input checked="" type="checkbox"/> Rule 431.2 (09/15/00)	<input checked="" type="checkbox"/> Rule 431.2(g)	<input checked="" type="checkbox"/> Rule 431.2(f)
<input type="checkbox"/> All Combustion Equipment Using Fossil Fuel (except SOx RECLAIM sources)	<input type="checkbox"/> Rule 431.3 (05/07/76)		
<input checked="" type="checkbox"/> All Equipment	<input checked="" type="checkbox"/> Rule 401 (11/09/01) <input checked="" type="checkbox"/> Rule 405 (02/07/86) <input checked="" type="checkbox"/> Rule 408 (05/07/76) <input checked="" type="checkbox"/> Rule 430 (07/12/96) <input checked="" type="checkbox"/> Rule 701 (06/13/97) <input checked="" type="checkbox"/> New Source Review, BACT <input checked="" type="checkbox"/> Rule 1703 (10/07/88) <input checked="" type="checkbox"/> 40 CFR68 - Accidental Release Prevention	<input checked="" type="checkbox"/> California Air Resources Board Visible Emission Evaluation <input checked="" type="checkbox"/> AQMD TM 5.1, 5.2, or 5.3 N/A	<input checked="" type="checkbox"/> Rule 430(b)
<input type="checkbox"/> All Equipment Processing Solid Materials	<input type="checkbox"/> Rule 403 (06/03/05)	See Applicable Subpart	See Applicable Subpart
<input checked="" type="checkbox"/> All Equipment With Exhaust Stack (except cement kilns subject to Rule 112.1)	<input checked="" type="checkbox"/> Rule 404 (02/07/86)	<input checked="" type="checkbox"/> AQMD TM 5.1, 5.2, or 5.3	<input type="checkbox"/> Rule 403(f)
<input checked="" type="checkbox"/> All Facilities Using Solvents to Clean Various Items or Equipment	<input checked="" type="checkbox"/> Rule 109 (05/02/03) <input checked="" type="checkbox"/> Rule 1171 (05/01/09) <input type="checkbox"/> 40 CFR63 SUBPART T	<input checked="" type="checkbox"/> Rule 109(g) <input checked="" type="checkbox"/> Rule 1171(e) See Applicable Subpart	<input checked="" type="checkbox"/> Rule 109(c) <input checked="" type="checkbox"/> Rule 1171(c)(6) See Applicable Subpart
<input checked="" type="checkbox"/> All RECLAIM Equipment (NOx & SOx)	<input checked="" type="checkbox"/> Reg. XX - RECLAIM	<input type="checkbox"/> Rule 2011, App. A (05/06/05) <input checked="" type="checkbox"/> Rule 2012, App. A (05/06/05)	<input type="checkbox"/> Rule 2011, App. A (05/06/05) <input checked="" type="checkbox"/> Rule 2012, App. A (05/06/05)
<input type="checkbox"/> Abrasive Blasting	<input type="checkbox"/> Rule 1140 (08/02/85)	<input type="checkbox"/> Rule 1140(d) & (e), AQMD Visible Emission Method	

KEY ABBREVIATIONS: Reg. = AQMD Regulation
Rule = AQMD Rule

App. = Appendix
AQMD TM = AQMD Test Method

CFR = Code of Federal Regulations
CCR = California Code of Regulations

Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> Aggregate and Related Operations	<input type="checkbox"/> Rule 1157 (09/08/06)	<input type="checkbox"/> Rule 1157(f)	<input type="checkbox"/> Rule 1157(e)
<input checked="" type="checkbox"/> Appliances Containing Ozone Depleting Substances (except Motor Vehicle Air Conditioners): Manufacturing, Repair, Maintenance, Service, & Disposal	<input checked="" type="checkbox"/> 40 CFR82 SUBPART F	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Asphalt	See Manufacturing, Asphalt Processing & Asphalt Roofing		
<input type="checkbox"/> Asphalt Concrete/Batch Plants	<input type="checkbox"/> 40 CFR60 SUBPART I	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Benzene Emissions, Maleic Anhydride Plants, Ethylbenzene/Styrene Plants, Benzene Storage Vessels, Benzene Equipment Leaks, & Coke By-Product Recovery Plants	<input type="checkbox"/> Rule 1173 (02/06/09)	<input type="checkbox"/> Rule 1173(j)	<input type="checkbox"/> Rule 1173(i)
	<input type="checkbox"/> Rule 1176 (09/13/96)	<input type="checkbox"/> Rule 1176(h)	<input type="checkbox"/> Rule 1176(f) & (g)
	<input type="checkbox"/> 40 CFR61 SUBPART L	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR61 SUBPART Y	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART R	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Benzene Transfer Operations	<input type="checkbox"/> Rule 1142 (07/19/91)	<input type="checkbox"/> Rule 1142(e)	<input type="checkbox"/> Rule 1142(h)
<input type="checkbox"/> Benzene Waste Operations	<input type="checkbox"/> 40 CFR61 SUBPART BB	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART Y	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> Rule 1176 (09/13/96)	<input type="checkbox"/> Rule 1176(h)	<input type="checkbox"/> Rule 1176(f) & (g)
<input type="checkbox"/> Beryllium Emissions	<input type="checkbox"/> 40 CFR61 SUBPART C	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR61 SUBPART D	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Boiler, < 5 Mmbtu/Hr (non-RECLAIM sources)	<input type="checkbox"/> Rule 1146.1 (09/05/08)	<input type="checkbox"/> Rule 1146.1(d)	<input type="checkbox"/> Rule 1146.1(c)(2) & (c)(3)
	<input type="checkbox"/> Rule 1146.2 (05/05/06)	N/A	N/A
	<input type="checkbox"/> 40 CFR63 SUBPART DDDDD	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Boiler, < 5 Mmbtu/Hr (RECLAIM sources)	<input type="checkbox"/> Rule 1146.1 (09/05/08) - excluding NOx requirements	<input type="checkbox"/> Rule 1146.1(d)	<input type="checkbox"/> Rule 1146.1(c)(2) & (c)(3)
	<input type="checkbox"/> 40 CFR63 SUBPART DDDDD	See Applicable Subpart	See Applicable Subpart

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement	
<input type="checkbox"/> Boiler, ≥ 5 Mmbtu/Hr (non-RECLAIM sources)	<input type="checkbox"/> Rule 218 (05/14/99)	<input type="checkbox"/> AQMD TM 100.1	<input type="checkbox"/> Rule 218(e) & (f)	
	<input type="checkbox"/> Rule 429 (12/21/90)	N/A	<input type="checkbox"/> Rule 429(d)	
	<input type="checkbox"/> Rule 475 (08/07/78)	<input type="checkbox"/> AQMD TM 5.1, 5.2, or 5.3		
	<input type="checkbox"/> Rule 476 (10/08/76)	<input type="checkbox"/> AQMD TM 7.1, 100.1, 5.1, 5.2, or 5.3		
	<input type="checkbox"/> Rule 1146 (09/05/08)	<input type="checkbox"/> Rule 1146(d)	<input type="checkbox"/> Rule 1146(c)(6) & (c)(7)	
	<input type="checkbox"/> 40 CFR60 SUBPART D	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR60 SUBPART Da	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR60 SUBPART Dc	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR63 SUBPART DDDDD	See Applicable Subpart	See Applicable Subpart	
	<input checked="" type="checkbox"/> Boiler, ≥ 5 Mmbtu/Hr (RECLAIM sources)	<input type="checkbox"/> Rule 475 (08/07/78)	<input type="checkbox"/> AQMD TM 5.1, 5.2, or 5.3	
<input checked="" type="checkbox"/> Rule 476 (10/08/76) - excluding NOx requirements		<input checked="" type="checkbox"/> AQMD TM 7.1, 100.1, 5.1, 5.2, or 5.3	<input type="checkbox"/> Rule 1146(c)(6) & (c)(7)	
<input checked="" type="checkbox"/> Rule 1146 (09/05/08) - excluding NOx requirements		<input checked="" type="checkbox"/> Rule 1146(d)		
<input type="checkbox"/> Rule 2011 (05/06/05)		<input type="checkbox"/> Rule 2011, App. A (05/06/05)	<input type="checkbox"/> Rule 2011, App. A (05/06/05)	
<input type="checkbox"/> <u>or</u> Rule 2012 (05/06/05)		<input type="checkbox"/> <u>or</u> Rule 2012, App. A (05/06/05)	<input type="checkbox"/> <u>or</u> Rule 2012, App. A (05/06/05)	
<input type="checkbox"/> 40 CFR60 SUBPART D		See Applicable Subpart	See Applicable Subpart	
<input type="checkbox"/> 40 CFR60 SUBPART Da		See Applicable Subpart	See Applicable Subpart	
<input type="checkbox"/> 40 CFR60 SUBPART Dc		See Applicable Subpart	See Applicable Subpart	
<input type="checkbox"/> 40 CFR63 SUBPART DDDDD		See Applicable Subpart	See Applicable Subpart	
<input type="checkbox"/> Boiler, Petroleum Refining (non-RECLAIM sources)		<input type="checkbox"/> Rule 218 (05/14/99)	<input type="checkbox"/> AQMD TM 100.1	<input type="checkbox"/> Rule 218(e) & (f)
	<input type="checkbox"/> Rule 429 (12/21/90)	N/A	<input type="checkbox"/> Rule 429(d)	
	<input type="checkbox"/> Rule 431.1 (06/12/98)	<input type="checkbox"/> Rule 431.1(f)	<input type="checkbox"/> Rule 431.1(d) & (e)	
	<input type="checkbox"/> Rule 475 (08/07/78)	<input type="checkbox"/> AQMD TM 5.1, 5.2, or 5.3		
	<input type="checkbox"/> Rule 1146 (09/05/08)	<input type="checkbox"/> Rule 1146(d)	<input type="checkbox"/> Rule 1146(c)(6) & (c)(7)	
	<input type="checkbox"/> 40 CFR60 SUBPART J	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR63 SUBPART DDDDD	See Applicable Subpart	See Applicable Subpart	
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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> Boiler, Petroleum Refining (RECLAIM sources)	<input type="checkbox"/> Rule 1146 (09/05/08) - excluding NOx requirements <input type="checkbox"/> Rule 2011 (05/06/05) or <input type="checkbox"/> Rule 2012 (05/06/05) <input type="checkbox"/> 40 CFR60 SUBPART J <input type="checkbox"/> 40 CFR63 SUBPART DDDDD	<input type="checkbox"/> Rule 1146(d) <input type="checkbox"/> Rule 2011, App. A (05/06/05) or <input type="checkbox"/> Rule 2012, App. A (05/06/05) See Applicable Subpart See Applicable Subpart	<input type="checkbox"/> Rule 1146(c)(6) & (c)(7) <input type="checkbox"/> Rule 2011, App. A (05/06/05) or <input type="checkbox"/> Rule 2012, App. A (05/06/05) See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Boilers, Electric Utility (non-RECLAIM sources)	<input type="checkbox"/> Rule 218 (05/14/99) <input type="checkbox"/> Rule 429 (12/21/90) <input type="checkbox"/> Rule 1135 (07/19/91) <input type="checkbox"/> 40 CFR60 SUBPART Db <input type="checkbox"/> 40 CFR63 SUBPART DDDDD	<input type="checkbox"/> AQMD TM 100.1 N/A <input type="checkbox"/> Rule 1135(e) See Applicable Subpart See Applicable Subpart	<input type="checkbox"/> Rule 218(e) & (f) <input type="checkbox"/> Rule 429(d) <input type="checkbox"/> Rule 1135(e) See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Boilers, Electric Utility (RECLAIM sources)	<input type="checkbox"/> Rule 2012 (05/06/05) <input type="checkbox"/> 40 CFR60 SUBPART Db <input type="checkbox"/> 40 CFR63 SUBPART DDDDD	<input type="checkbox"/> Rule 2012, App. A (05/06/05) See Applicable Subpart See Applicable Subpart	<input type="checkbox"/> Rule 2012, App. A (05/06/05) See Applicable Subpart See Applicable Subpart
<input checked="" type="checkbox"/> Bulk Loading Of Organic Liquids	<input checked="" type="checkbox"/> Rule 462 (05/14/99) <input type="checkbox"/> 40 CFR60 SUBPART XX <input type="checkbox"/> 40 CFR63 SUBPART R <input type="checkbox"/> 40 CFR63 SUBPART BBBB <input type="checkbox"/> 40 CFR63 SUBPART EEEE	<input checked="" type="checkbox"/> Rule 462(f) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	<input checked="" type="checkbox"/> Rule 462(g) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Cadmium Electroplating Operation	<input type="checkbox"/> Rule 1426 (05/02/03) <input type="checkbox"/> 40 CFR60 SUBPART UUU	<input type="checkbox"/> See Applicable Subpart	<input type="checkbox"/> Rule 1426(e) See Applicable Subpart
<input type="checkbox"/> Calciner, Mineral Industries	<input type="checkbox"/> Rule 477 (04/03/81)	<input type="checkbox"/> AQMD Visible Emissions, AQMD TM 5.1, 5.2, or 5.3 <input type="checkbox"/> AQMD TM 6.1 or 100.1 See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Calciner, Petroleum Coke	<input type="checkbox"/> Rule 1119 (03/02/79) <input type="checkbox"/> 40 CFR63 SUBPART L	<input type="checkbox"/> AQMD Test Protocol <input type="checkbox"/> Rule 1138(g)	See Applicable Subpart
<input type="checkbox"/> Charbroilers	<input type="checkbox"/> Rule 1174 (10/05/90) <input type="checkbox"/> Rule 1138 (11/14/97)	<input type="checkbox"/> Rule 1138(d)	<input type="checkbox"/> Rule 1138(d)
<input type="checkbox"/> Chrome Plating & Chromic Acid Anodizing Operation	<input type="checkbox"/> Rule 1426 (05/02/03) <input type="checkbox"/> Rule 1469 (12/05/08)	<input type="checkbox"/> Rule 1469(e)	<input type="checkbox"/> Rule 1426(e) <input type="checkbox"/> Rule 1469(g), (j) & (k)

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> Coating Operation, Adhesive Application Operation	<input type="checkbox"/> Rule 109 (05/02/03)	<input type="checkbox"/> Rule 109(g)	<input type="checkbox"/> Rule 109(c)
	<input type="checkbox"/> Rule 481 (01/11/02)	<input type="checkbox"/> Rule 481(d)	<input type="checkbox"/> Rule 1132(g)
	<input type="checkbox"/> Rule 1132 (05/05/06)	<input type="checkbox"/> Rule 1132(f)	<input type="checkbox"/> Rule 1168(d)
	<input type="checkbox"/> Rule 1168 (01/07/05)	<input type="checkbox"/> Rule 1168(f) & (e)	<input type="checkbox"/> Rule 1171(c)(6)
	<input type="checkbox"/> Rule 1171 (05/01/09)	<input type="checkbox"/> Rule 1171(e)	See Applicable Subpart
	<input type="checkbox"/> 40 CFR60 SUBPART RR	See Applicable Subpart	
<input type="checkbox"/> Coating Operation, Aerospace Assembly & Component Manufacturing	<input type="checkbox"/> Rule 109 (05/02/03)	<input type="checkbox"/> Rule 109(g)	<input type="checkbox"/> Rule 109(c)
	<input type="checkbox"/> Rule 481 (01/11/02)	<input type="checkbox"/> Rule 481(d)	<input type="checkbox"/> Rule 1124(j) & (d)
	<input type="checkbox"/> Rule 1124 (09/21/01)	<input type="checkbox"/> Rule 1124(e) & (f)	<input type="checkbox"/> Rule 1132(g)
	<input type="checkbox"/> Rule 1132 (05/05/06)	<input type="checkbox"/> Rule 1132(f)	<input type="checkbox"/> Rule 1171(c)(6)
	<input type="checkbox"/> Rule 1171 (05/01/09)	<input type="checkbox"/> Rule 1171(e)	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART GG	See Applicable Subpart	
<input type="checkbox"/> Coating Operation, Graphic Arts (Gravure, Letter Press, Flexographic & Lithographic Printing Process, Etc.)	<input type="checkbox"/> Rule 109 (05/02/03)	<input type="checkbox"/> Rule 109(g)	<input type="checkbox"/> Rule 109(c)
	<input type="checkbox"/> Rule 481 (01/11/02)	<input type="checkbox"/> Rule 481(d)	<input type="checkbox"/> Rule 1130(e)
	<input type="checkbox"/> Rule 1130 (10/08/99)	<input type="checkbox"/> Rule 1130(h)	<input type="checkbox"/> Rule 1132(g)
	<input type="checkbox"/> Rule 1132 (05/05/06)	<input type="checkbox"/> Rule 1132(f)	<input type="checkbox"/> Rule 1171(c)(6)
	<input type="checkbox"/> Rule 1171 (05/01/09)	<input type="checkbox"/> Rule 1171(e)	See Applicable Subpart
	<input type="checkbox"/> 40 CFR60 SUBPART QQ	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR60 SUBPART RR	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR60 SUBPART FFF	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR60 SUBPART VVV	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART KK	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> 40 CFR63 SUBPART JJJJ	See Applicable Subpart	See Applicable Subpart	
<input type="checkbox"/> Coating Operation, Magnet Wire Coating	<input type="checkbox"/> Rule 109 (05/02/03)	<input type="checkbox"/> Rule 109(g)	<input type="checkbox"/> Rule 109(c)
	<input type="checkbox"/> Rule 481 (01/11/02)	<input type="checkbox"/> Rule 481(d)	<input type="checkbox"/> Rule 1126(c)(4)
	<input type="checkbox"/> Rule 1126 (01/13/95)	<input type="checkbox"/> Rule 1126(d)	<input type="checkbox"/> Rule 1132(g)
	<input type="checkbox"/> Rule 1132 (05/05/06)	<input type="checkbox"/> Rule 1132(f)	<input type="checkbox"/> Rule 1171(c)(6)
	<input type="checkbox"/> Rule 1171 (05/01/09)	<input type="checkbox"/> Rule 1171(e)	

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> Coating Operation, Marine Coating (Except for recreational equipment)	<input type="checkbox"/> Rule 109 (05/02/03)	<input type="checkbox"/> Rule 109(g)	<input type="checkbox"/> Rule 109(c)
	<input type="checkbox"/> Rule 481 (01/11/02)	<input type="checkbox"/> Rule 481(d)	
	<input type="checkbox"/> Rule 1106 (01/13/95)	<input type="checkbox"/> Rule 1106(e)	<input type="checkbox"/> Rule 1106(c)(5)
	<input type="checkbox"/> Rule 1132 (05/05/06)	<input type="checkbox"/> Rule 1132(f)	<input type="checkbox"/> Rule 1132(g)
	<input type="checkbox"/> Rule 1171 (05/01/09)	<input type="checkbox"/> Rule 1171(e)	<input type="checkbox"/> Rule 1171(c)(6)
	<input type="checkbox"/> 40 CFR63 SUBPART II	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> Rule 109 (05/02/03)	<input type="checkbox"/> Rule 109(g)	<input type="checkbox"/> Rule 109(c)
	<input type="checkbox"/> Rule 481 (01/11/02)	<input type="checkbox"/> Rule 481(d)	
	<input type="checkbox"/> Rule 1107 (01/06/06)	<input type="checkbox"/> Rule 1107(e)	<input type="checkbox"/> Rule 1107(j)
	<input type="checkbox"/> Rule 1132 (05/05/06)	<input type="checkbox"/> Rule 1132(f)	<input type="checkbox"/> Rule 1132(g)
<input type="checkbox"/> Coating Operation, Metal Coating	<input type="checkbox"/> Rule 1171 (05/01/09)	<input type="checkbox"/> Rule 1171(e)	<input type="checkbox"/> Rule 1171(c)(6)
	<input type="checkbox"/> 40 CFR60 SUBPART EE	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR60 SUBPART SS	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART NNNN	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART MMMM	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART RRRR	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> Rule 109 (05/02/03)	<input type="checkbox"/> Rule 109(g)	<input type="checkbox"/> Rule 109(c)
	<input type="checkbox"/> Rule 481 (01/11/02)	<input type="checkbox"/> Rule 481(d)	
	<input type="checkbox"/> Rule 1125 (03/07/08)	<input type="checkbox"/> Rule 1125(e)	<input type="checkbox"/> Rule 1125(c)(6)
	<input type="checkbox"/> Rule 1132 (05/05/06)	<input type="checkbox"/> Rule 1132(f)	<input type="checkbox"/> Rule 1132(g)
<input type="checkbox"/> Coating Operation, Metal Containers, Closure, & Coil Coating Operations	<input type="checkbox"/> Rule 1171 (05/01/09)	<input type="checkbox"/> Rule 1171(e)	<input type="checkbox"/> Rule 1171(c)(6)
	<input type="checkbox"/> 40 CFR60 SUBPART TT	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR60 SUBPART WW	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART KKKK	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART SSSS	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> Rule 109 (05/02/03)	<input type="checkbox"/> Rule 109(g)	<input type="checkbox"/> Rule 109(c)
	<input type="checkbox"/> Rule 481 (01/11/02)	<input type="checkbox"/> Rule 481(d)	
	<input type="checkbox"/> Rule 1132 (05/05/06)	<input type="checkbox"/> Rule 1132(f)	<input type="checkbox"/> Rule 1132(g)
	<input type="checkbox"/> Rule 1151 (12/02/05)	<input type="checkbox"/> Rule 1151(h)	<input type="checkbox"/> Rule 1151(f)
	<input type="checkbox"/> Rule 1171 (05/01/09)	<input type="checkbox"/> Rule 1171(e)	<input type="checkbox"/> Rule 1171(c)(6)
<input type="checkbox"/> Coating Operation, Motor Vehicle & Mobile Equipment Non-Assembly Line Coating Operation	<input type="checkbox"/> Rule 109 (05/02/03)	<input type="checkbox"/> Rule 109(g)	<input type="checkbox"/> Rule 109(c)
	<input type="checkbox"/> Rule 481 (01/11/02)	<input type="checkbox"/> Rule 481(d)	
	<input type="checkbox"/> Rule 1132 (05/05/06)	<input type="checkbox"/> Rule 1132(f)	<input type="checkbox"/> Rule 1132(g)
	<input type="checkbox"/> Rule 1151 (12/02/05)	<input type="checkbox"/> Rule 1151(h)	<input type="checkbox"/> Rule 1151(f)
	<input type="checkbox"/> Rule 1171 (05/01/09)	<input type="checkbox"/> Rule 1171(e)	<input type="checkbox"/> Rule 1171(c)(6)
	<input type="checkbox"/> Rule 1171 (05/01/09)	<input type="checkbox"/> Rule 1171(e)	<input type="checkbox"/> Rule 1171(c)(6)

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> Coating Operation, Motor Vehicle Assembly Line	<input type="checkbox"/> Rule 109 (05/02/03) <input type="checkbox"/> Rule 481 (01/11/02) <input type="checkbox"/> Rule 1115 (05/12/95) <input type="checkbox"/> Rule 1132 (05/05/06) <input type="checkbox"/> Rule 1171 (05/01/09) <input type="checkbox"/> 40 CFR60 SUBPART MM <input type="checkbox"/> 40 CFR63 SUBPART IIII	<input type="checkbox"/> Rule 109(g) <input type="checkbox"/> Rule 481(d) <input type="checkbox"/> Rule 1115(e) <input type="checkbox"/> Rule 1132(f) <input type="checkbox"/> Rule 1171(e) See Applicable Subpart See Applicable Subpart	<input type="checkbox"/> Rule 109(c) <input type="checkbox"/> Rule 1115(g) <input type="checkbox"/> Rule 1132(g) <input type="checkbox"/> Rule 1171(c)(6) See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Coating Operation, Paper, Fabric, & Film Coating Operations	<input type="checkbox"/> Rule 109 (05/02/03) <input type="checkbox"/> Rule 481 (01/11/02) <input type="checkbox"/> Rule 1128 (03/08/96) <input type="checkbox"/> Rule 1132 (05/05/06) <input type="checkbox"/> Rule 1171 (05/01/09) <input type="checkbox"/> 40 CFR60 SUBPART VVV <input type="checkbox"/> 40 CFR63 SUBPART OOOO	<input type="checkbox"/> Rule 109(g) <input type="checkbox"/> Rule 481(d) <input type="checkbox"/> Rule 1128(f) <input type="checkbox"/> Rule 1132(f) <input type="checkbox"/> Rule 1171(e) See Applicable Subpart See Applicable Subpart	<input type="checkbox"/> Rule 109(c) <input type="checkbox"/> Rule 1128(e) <input type="checkbox"/> Rule 1132(g) <input type="checkbox"/> Rule 1171(c)(6) See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Coating Operation, Plastic, Rubber, & Glass	<input type="checkbox"/> Rule 109 (05/02/03) <input type="checkbox"/> Rule 481 (01/11/02) <input type="checkbox"/> Rule 1145 (12/04/09) <input type="checkbox"/> Rule 1132 (05/05/06) <input type="checkbox"/> Rule 1171 (05/01/09) <input type="checkbox"/> 40 CFR60 SUBPART TTT <input type="checkbox"/> 40 CFR63 SUBPART NNNN <input type="checkbox"/> 40 CFR63 SUBPART PPPP	<input type="checkbox"/> Rule 109(g) <input type="checkbox"/> Rule 481(d) <input type="checkbox"/> Rule 1145(e) <input type="checkbox"/> Rule 1132(f) <input type="checkbox"/> Rule 1171(e) See Applicable Subpart See Applicable Subpart See Applicable Subpart	<input type="checkbox"/> Rule 109(c) <input type="checkbox"/> Rule 1145(d) <input type="checkbox"/> Rule 1132(g) <input type="checkbox"/> Rule 1171(c)(6) See Applicable Subpart See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Coating Operation, Pleasure Craft	<input type="checkbox"/> Rule 109 (05/02/03) <input type="checkbox"/> Rule 481 (01/11/02) <input type="checkbox"/> Rule 1106.1 (02/12/99) <input type="checkbox"/> Rule 1132 (05/05/06) <input type="checkbox"/> Rule 1171 (05/01/09) <input type="checkbox"/> 40 CFR63 SUBPART II	<input type="checkbox"/> Rule 109(g) <input type="checkbox"/> Rule 481(d) <input type="checkbox"/> Rule 1106.1(e) <input type="checkbox"/> Rule 1132(f) <input type="checkbox"/> Rule 1171(e) See Applicable Subpart	<input type="checkbox"/> Rule 109(c) <input type="checkbox"/> Rule 1106.1(d) <input type="checkbox"/> Rule 1132(g) <input type="checkbox"/> Rule 1171(c)(6) See Applicable Subpart

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> Coating Operation, Screen Printing	<input type="checkbox"/> Rule 109 (05/02/03) <input type="checkbox"/> Rule 1130.1 (12/13/96) <input type="checkbox"/> Rule 1132 (05/05/06) <input type="checkbox"/> Rule 1171 (05/01/09) <input type="checkbox"/> 40 CFR63 SUBPART KK	<input type="checkbox"/> Rule 109(g) <input type="checkbox"/> Rule 1130.1(g) <input type="checkbox"/> Rule 1132(f) <input type="checkbox"/> Rule 1171(e) See Applicable Subpart	<input type="checkbox"/> Rule 109(c) <input type="checkbox"/> Rule 1130.1(c)(5) <input type="checkbox"/> Rule 1132(g) <input type="checkbox"/> Rule 1171(c)(6) See Applicable Subpart
<input checked="" type="checkbox"/> Coating Operation, Use Of Architectural Coating (Stationary Structures)	<input checked="" type="checkbox"/> Rule 109 (05/02/03) <input type="checkbox"/> Rule 481 (01/11/02) <input checked="" type="checkbox"/> Rule 1113 (07/13/07) <input type="checkbox"/> Rule 1132 (05/05/06) <input checked="" type="checkbox"/> Rule 1171 (05/01/09)	<input checked="" type="checkbox"/> Rule 109(g) <input type="checkbox"/> Rule 481(d) <input checked="" type="checkbox"/> Rule 1113(e) <input type="checkbox"/> Rule 1132(f) <input checked="" type="checkbox"/> Rule 1171(e)	<input checked="" type="checkbox"/> Rule 109(c) <input type="checkbox"/> Rule 1132(g) <input checked="" type="checkbox"/> Rule 1171(c)(6) <input type="checkbox"/> Rule 109(c)
<input type="checkbox"/> Coating Operation, Wood Flat Stock	<input type="checkbox"/> Rule 109 (05/02/03) <input type="checkbox"/> Rule 481 (01/11/02) <input type="checkbox"/> Rule 1104 (08/13/99) <input type="checkbox"/> Rule 1132 (05/05/06) <input type="checkbox"/> Rule 1171 (05/01/09) <input type="checkbox"/> 40 CFR63 SUBPART II	<input type="checkbox"/> Rule 109(g) <input type="checkbox"/> Rule 481(d) <input type="checkbox"/> Rule 1104(e) <input type="checkbox"/> Rule 1132(f) <input type="checkbox"/> Rule 1171(e) See Applicable Subpart	<input type="checkbox"/> Rule 109(c) <input type="checkbox"/> Rule 1104(d) <input type="checkbox"/> Rule 1132(g) <input type="checkbox"/> Rule 1171(c)(6) See Applicable Subpart
<input type="checkbox"/> Coating Operation, Wood Products (Commercial Furniture, Cabinets, Shutters, Frames, Toys)	<input type="checkbox"/> Rule 109 (05/02/03) <input type="checkbox"/> Rule 481 (01/11/02) <input type="checkbox"/> Rule 1132 (05/05/06) <input type="checkbox"/> Rule 1136 (06/14/96) <input type="checkbox"/> Rule 1171 (05/01/09) <input type="checkbox"/> 40 CFR63 SUBPART JJ	<input type="checkbox"/> Rule 109(g) <input type="checkbox"/> Rule 481(d) <input type="checkbox"/> Rule 1132(f) <input type="checkbox"/> Rule 1136(f) <input type="checkbox"/> Rule 1171(e) See Applicable Subpart	<input type="checkbox"/> Rule 109(c) <input type="checkbox"/> Rule 1132(g) <input type="checkbox"/> Rule 1136(d) & (g) <input type="checkbox"/> Rule 1171(c)(6) See Applicable Subpart
<input type="checkbox"/> Coater	See Coating Operations	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Columns	See Petroleum Refineries, Fugitive Emissions		
<input type="checkbox"/> Composting Operation	<input type="checkbox"/> Rule 1133 (01/10/03) <input type="checkbox"/> Rule 1133.1 (01/10/03) <input type="checkbox"/> Rule 1133.2 (01/10/03)	<input type="checkbox"/> Rule 1133.1(e) <input type="checkbox"/> Rule 1133.2(g)	<input type="checkbox"/> Rule 1133.1(d) <input type="checkbox"/> Rule 1133.2(h)
<input checked="" type="checkbox"/> Compressors	See Fugitive Emissions or Petroleum Refineries, Fugitive Emissions		
<input type="checkbox"/> Concrete Batch Plants	See Nonmetallic Mineral Processing Plants		
<input type="checkbox"/> Consumer Product Manufacturing	See Manufacturing, Consumer Product		
<input type="checkbox"/> Cooling Tower, Hexavalent Chromium	<input type="checkbox"/> 40 CFR63 SUBPART Q	See Applicable Subpart	See Applicable Subpart

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> Copper Electroplating Operation	<input type="checkbox"/> Rule 1426 (05/02/03)		<input type="checkbox"/> Rule 1426(e)
<input checked="" type="checkbox"/> Crude Oil Production	See Oil Well Operations		
<input type="checkbox"/> Crusher	See Nonmetallic Mineral Processing Plants		
<input type="checkbox"/> Dairy Farms and Related Operations	<input type="checkbox"/> Rule 1127 (08/06/04)	<input type="checkbox"/> Rule 1127(h)	<input type="checkbox"/> Rule 1127(g)
<input type="checkbox"/> Degreasers	<input type="checkbox"/> Rule 109 (05/02/03) <input type="checkbox"/> Rule 1122 (05/01/09) <input type="checkbox"/> Rule 1171 (05/01/09) <input type="checkbox"/> 40 CFR63 SUBPART T	<input type="checkbox"/> Rule 109(g) <input type="checkbox"/> Rule 1122(h) <input type="checkbox"/> Rule 1171(e) See Applicable Subpart	<input type="checkbox"/> Rule 109(c) <input type="checkbox"/> Rule 1122(i) <input type="checkbox"/> Rule 1171(c)(6) See Applicable Subpart
<input type="checkbox"/> Dry Cleaning, Perchloroethylene	<input type="checkbox"/> Rule 1421 (12/06/02)	<input type="checkbox"/> Rule 1421(e) & (i)	<input type="checkbox"/> Rule 1421(g) & (h)
<input type="checkbox"/> Dry Cleaning, Petroleum Solvent	<input type="checkbox"/> Rule 109 (05/02/03) <input type="checkbox"/> Rule 1102 (11/17/00) <input type="checkbox"/> 40 CFR60 SUBPART JJJ	<input type="checkbox"/> Rule 109(g) <input type="checkbox"/> Rule 1102(g) See Applicable Subpart	<input type="checkbox"/> Rule 109(c) <input type="checkbox"/> Rule 1102(f) See Applicable Subpart
<input type="checkbox"/> Dryers, Mineral Industries	<input type="checkbox"/> 40 CFR60 SUBPART UUU	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Ethylene Oxide Sterilizer	See Sterilizer, Ethylene Oxide		
<input checked="" type="checkbox"/> Flanges	See Fugitive Emissions or Petroleum Refineries, Fugitive Emissions		
<input type="checkbox"/> Fluid Catalytic Cracking Unit	<input type="checkbox"/> Rule 218 (05/14/99) <input type="checkbox"/> Rule 1105 (09/01/84) <input type="checkbox"/> Rule 1105.1 (11/07/03)	<input type="checkbox"/> AQMD TM 100.1 <input type="checkbox"/> Rule 1105(c)(1) <input type="checkbox"/> Rule 1105.1(f)	<input type="checkbox"/> Rule 218(e) & (f) <input type="checkbox"/> Rule 1105(c)(2) <input type="checkbox"/> Rule 1105.1(e)
<input type="checkbox"/> Foundries, Iron and Steel	<input type="checkbox"/> 40 CFR63 SUBPART EEEEE	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Friction Materials Manufacturing	See Manufacturing, Friction Materials		
<input type="checkbox"/> Fugitive Emissions, Benzene	<input type="checkbox"/> Rule 1173 (12/06/02) <input type="checkbox"/> 40 CFR61 SUBPART L <input type="checkbox"/> 40 CFR61 SUBPART V <input type="checkbox"/> 40 CFR63 SUBPART R <input type="checkbox"/> 40 CFR63 SUBPART CC	<input type="checkbox"/> Rule 1173(j) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	<input type="checkbox"/> Rule 1173(i) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> Fugitive Emissions, Chemical Plant	<input type="checkbox"/> Rule 466 (10/07/83) <input type="checkbox"/> Rule 466.1 (03/16/84) <input type="checkbox"/> Rule 467 (03/05/82) <input type="checkbox"/> Rule 1173 (02/06/09) <input type="checkbox"/> 40 CFR60 SUBPART W <input type="checkbox"/> 40 CFR61 SUBPART V <input type="checkbox"/> 40 CFR63 SUBPART F <input type="checkbox"/> 40 CFR63 SUBPART G <input type="checkbox"/> 40 CFR63 SUBPART H <input type="checkbox"/> 40 CFR63 SUBPART I <input type="checkbox"/> 40 CFR63 SUBPART R <input type="checkbox"/> 40 CFR63 SUBPART CC	<input type="checkbox"/> Rule 466(f) <input type="checkbox"/> Rule 466.1(g) <input type="checkbox"/> Rule 467(f) <input type="checkbox"/> Rule 1173(j) See Applicable Subpart See Applicable Subpart	<input type="checkbox"/> Rule 466(e) <input type="checkbox"/> Rule 466.1(h) <input type="checkbox"/> Rule 467(e) <input type="checkbox"/> Rule 1173(i) See Applicable Subpart See Applicable Subpart
<input checked="" type="checkbox"/> Fugitive Emissions, Natural Gas Processing Plant	<input checked="" type="checkbox"/> Rule 466 (10/07/83) <input checked="" type="checkbox"/> Rule 466.1 (03/16/84) <input checked="" type="checkbox"/> Rule 467 (03/05/82) <input checked="" type="checkbox"/> Rule 1173 (02/06/09) <input checked="" type="checkbox"/> 40 CFR60 SUBPART KKK <input type="checkbox"/> 40 CFR61 SUBPART V <input type="checkbox"/> 40 CFR63 SUBPART F <input type="checkbox"/> 40 CFR63 SUBPART G <input type="checkbox"/> 40 CFR63 SUBPART H <input type="checkbox"/> 40 CFR63 SUBPART I <input type="checkbox"/> 40 CFR63 SUBPART R <input type="checkbox"/> 40 CFR63 SUBPART CC	<input checked="" type="checkbox"/> Rule 466(f) <input checked="" type="checkbox"/> Rule 466.1(g) <input checked="" type="checkbox"/> Rule 467(f) <input checked="" type="checkbox"/> Rule 1173(j) See Applicable Subpart See Applicable Subpart	<input checked="" type="checkbox"/> Rule 466(e) <input checked="" type="checkbox"/> Rule 466.1(h) <input checked="" type="checkbox"/> Rule 467(e) <input checked="" type="checkbox"/> Rule 1173(i) See Applicable Subpart See Applicable Subpart

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input checked="" type="checkbox"/> Fugitive Emissions, Oil & Gas Production Facility	<input checked="" type="checkbox"/> Rule 466 (10/07/83) <input checked="" type="checkbox"/> Rule 466.1 (03/16/84) <input checked="" type="checkbox"/> Rule 467 (03/05/82) <input checked="" type="checkbox"/> Rule 1173 (02/06/09)	<input checked="" type="checkbox"/> Rule 466(f) <input checked="" type="checkbox"/> Rule 466.1(g) <input checked="" type="checkbox"/> Rule 467(f) <input checked="" type="checkbox"/> Rule 1173(j) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	<input checked="" type="checkbox"/> Rule 466(e) <input checked="" type="checkbox"/> Rule 466.1(h) <input checked="" type="checkbox"/> Rule 467(e) <input checked="" type="checkbox"/> Rule 1173(i) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Fugitive Emissions, Pipeline Transfer Station	<input type="checkbox"/> Rule 466 (10/07/83) <input type="checkbox"/> Rule 466.1 (03/16/84) <input type="checkbox"/> Rule 467 (03/05/82) <input type="checkbox"/> Rule 1173 (02/06/09) <input type="checkbox"/> 40 CFR61 SUBPART V <input type="checkbox"/> 40 CFR63 SUBPART F <input type="checkbox"/> 40 CFR63 SUBPART G <input type="checkbox"/> 40 CFR63 SUBPART H <input type="checkbox"/> 40 CFR63 SUBPART I <input type="checkbox"/> 40 CFR63 SUBPART R <input type="checkbox"/> 40 CFR63 SUBPART CC	<input type="checkbox"/> Rule 466(f) <input type="checkbox"/> Rule 466.1(g) <input type="checkbox"/> Rule 467(f) <input type="checkbox"/> Rule 1173(j) See Applicable Subpart See Applicable Subpart	<input type="checkbox"/> Rule 466(e) <input type="checkbox"/> Rule 466.1(h) <input type="checkbox"/> Rule 467(e) <input type="checkbox"/> Rule 1173(i) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Furnace, Basic Oxygen Process	<input type="checkbox"/> 40 CFR60 SUBPART Na	<input type="checkbox"/> See Applicable Subpart	<input type="checkbox"/> See Applicable Subpart
<input type="checkbox"/> Furnace, Electric Arc, For Steel Plants: Constructed After August 17, 1983	<input type="checkbox"/> 40 CFR60 SUBPART AAa	<input type="checkbox"/> See Applicable Subpart	<input type="checkbox"/> See Applicable Subpart
<input type="checkbox"/> Furnace, Electric Arc, For Steel Plants: Constructed After Oct. 21, 1974, & On Or Before Aug. 17, 1983	<input type="checkbox"/> 40 CFR60 SUBPART AA	<input type="checkbox"/> See Applicable Subpart	<input type="checkbox"/> See Applicable Subpart
<input type="checkbox"/> Furnace, Glass Melting	<input type="checkbox"/> Rule 1117 (01/06/84)	<input type="checkbox"/> Rule 1117(c), AQMD TM 7.1 or 100.1 See Applicable Subpart	<input type="checkbox"/> See Applicable Subpart
<input type="checkbox"/> Furnace, Lead Melting, Automotive Batteries	<input type="checkbox"/> 40 CFR60 SUBPART CC <input type="checkbox"/> Rule 1101 (10/07/77) <input type="checkbox"/> 40 CFR63 SUBPART X	<input type="checkbox"/> See Applicable Subpart See Applicable Subpart See Applicable Subpart	<input type="checkbox"/> See Applicable Subpart See Applicable Subpart See Applicable Subpart

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> Gasoline Transfer & Dispensing Operation	<input type="checkbox"/> Rule 461 (06/03/05) See Manufacturing, Glass	<input type="checkbox"/> Rule 461(f)	<input type="checkbox"/> Rule 461(e)(6) & (e)(7)
<input type="checkbox"/> Glass Manufacturing			
<input type="checkbox"/> Grain Elevators	<input type="checkbox"/> 40 CFR60 SUBPART DD	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Halon-containing Equipment, Use for Technician Training, Testing, Maintenance, Service, Repair, or Disposal	<input type="checkbox"/> 40 CFR82 SUBPART H	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Hazardous Waste Combustors	<input type="checkbox"/> 40 CFR63 SUBPART EEE	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Heater, Asphalt Pavement	<input type="checkbox"/> Rule 1120 (08/04/78)	<input type="checkbox"/> AQMD Visible Emissions, AQMD TM 6.2	<input type="checkbox"/> Rule 1120(f)
<input type="checkbox"/> Heaters, Petroleum Refinery Process	<input type="checkbox"/> Rule 429 (12/21/90) <input type="checkbox"/> Rule 431.1 (06/12/98) <input type="checkbox"/> Rule 1146 (09/05/08) <input type="checkbox"/> 40 CFR60 SUBPART J <input type="checkbox"/> 40 CFR63 SUBPART DDDDD	N/A <input type="checkbox"/> Rule 431.1(f) <input type="checkbox"/> Rule 1146(d) See Applicable Subpart See Applicable Subpart	<input type="checkbox"/> Rule 429(d) <input type="checkbox"/> Rule 431.1(d) & (e) <input type="checkbox"/> Rule 1146(c)(6) & (c)(7) See Applicable Subpart See Applicable Subpart
<input checked="" type="checkbox"/> Heaters, Process	See Boilers		
<input type="checkbox"/> Incinerators	<input type="checkbox"/> 40 CFR60 SUBPART E <input type="checkbox"/> 40 CFR60 SUBPART CCCC	See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Inorganic Arsenic Emissions, Arsenic Trioxide & Metallic Arsenic Production Facilities	<input type="checkbox"/> 40 CFR61 SUBPART P	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Internal Combustion Engines, Reciprocating	<input type="checkbox"/> Rule 1110.2 (07/09/10) <input type="checkbox"/> 40 CFR60 SUBPART III and JJJJ <input type="checkbox"/> 40 CFR63 SUBPART ZZZZ	Rule 1110.2(g) See Applicable Subpart See Applicable Subpart	Rule 1110.2(f) See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Kiln, Cement Plant	<input type="checkbox"/> Rule 1112 (06/06/86) <input type="checkbox"/> Rule 1112.1 (12/04/09) <input type="checkbox"/> 40 CFR60 SUBPART F	N/A N/A See Applicable Subpart	N/A N/A See Applicable Subpart

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Section II - Applicable Requirements, Test Methods, & MRR Requirements			
Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> Landfills	<input type="checkbox"/> Rule 1150 (10/15/82) <input type="checkbox"/> Rule 1150.1 (03/17/00) <input type="checkbox"/> 40 CFR60 SUBPART WWW <input type="checkbox"/> 40 CFR63 SUBPART AAAA See Manufacturing, Lead Acid Battery	<input type="checkbox"/> Rule 1150.1(j) See Applicable Subpart See Applicable Subpart	<input type="checkbox"/> Rule 1150.1(e) & (f) See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Lead Acid Battery Manufacturing Plants	See Manufacturing, Lead Acid Battery		
<input type="checkbox"/> Lead Electroplating Operation	<input type="checkbox"/> Rule 1426 (05/02/03)		<input type="checkbox"/> Rule 1426(e)
<input type="checkbox"/> Manufacturing, Asphalt Processing & Asphalt Roofing	<input type="checkbox"/> Rule 470 (05/07/76) <input type="checkbox"/> Rule 1108 (02/01/85) <input type="checkbox"/> Rule 1108.1 (11/04/83) <input type="checkbox"/> 40 CFR60 SUBPART UU <input type="checkbox"/> 40 CFR63 SUBPART LLLLL	N/A <input type="checkbox"/> Rule 1108(b) <input type="checkbox"/> Rule 1108.1 (b) See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Manufacturing, Brick & Structural Clay Products	<input type="checkbox"/> 40 CFR63 SUBPART JJJJJ	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Manufacturing, Cement	<input type="checkbox"/> Rule 1156 (03/06/09)	<input type="checkbox"/> Rule 1156(g)	<input type="checkbox"/> Rule 1156(f)
<input type="checkbox"/> Manufacturing, Clay Ceramics	<input type="checkbox"/> 40 CFR63 SUBPART KKKKK	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Manufacturing, Coatings & Ink (SIC Code 2851)	<input type="checkbox"/> Rule 1141.1 (11/17/00) <input type="checkbox"/> 40 CFR63 SUBPART HHHHH	N/A See Applicable Subpart	<input type="checkbox"/> Rule 1141.1(c) See Applicable Subpart
<input type="checkbox"/> Manufacturing, Consumer Product	<input type="checkbox"/> Title 17 CCR 94500		
<input type="checkbox"/> Manufacturing, Food Product	<input type="checkbox"/> Rule 1131 (06/06/03)	<input type="checkbox"/> Rule 1131(e)	<input type="checkbox"/> Rule 1131(d)
<input type="checkbox"/> Manufacturing, Friction Materials	<input type="checkbox"/> 40 CFR63 SUBPART QQQQQ	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Manufacturing, Glass	<input type="checkbox"/> Rule 1117 (01/06/84)	<input type="checkbox"/> Rule 1117(c), AQMD TM 7.1 or 100.1	
<input type="checkbox"/> Manufacturing, Hydrochloric Acid	<input type="checkbox"/> 40 CFR60 SUBPART CC <input type="checkbox"/> 40 CFR61 SUBPART N	See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Manufacturing, Lead-Acid Battery	<input type="checkbox"/> 40 CFR63 SUBPART NNNNN	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Manufacturing, Lead-Acid Battery	<input type="checkbox"/> 40 CFR60 SUBPART KK	See Applicable Subpart	See Applicable Subpart

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> Manufacturing, Lime	<input type="checkbox"/> 40 CFR63 SUBPART AAAAA	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Manufacturing, Magnetic Tape Industry	<input type="checkbox"/> 40 CFR60 SUBPART SSS <input type="checkbox"/> 40 CFR63 SUBPART EE	See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Manufacturing, Miscellaneous Organic Chemical	<input type="checkbox"/> 40 CFR63 SUBPART FFFF	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Manufacturing, Nitric Acid	<input type="checkbox"/> Rule 218 (05/14/99) <input type="checkbox"/> Rule 1159 (12/06/85) <input type="checkbox"/> 40 CFR60 SUBPART G	<input type="checkbox"/> AQMD TM 100.1 <input type="checkbox"/> AQMD TM 7.1 or 100.1 See Applicable Subpart	<input type="checkbox"/> Rule 218(e) & (f) See Applicable Subpart
<input type="checkbox"/> Manufacturing, Plywood & Composite Wood Products	<input type="checkbox"/> Rule 1137 (02/01/02) <input type="checkbox"/> 40 CFR63 SUBPART DDDD	N/A See Applicable Subpart	<input type="checkbox"/> Rule 1137(e) See Applicable Subpart
<input type="checkbox"/> Manufacturing, Polymer Industry	<input type="checkbox"/> 40 CFR60 SUBPART DDD <input type="checkbox"/> 40 CFR63 SUBPART W <input type="checkbox"/> 40 CFR63 SUBPART J	See Applicable Subpart See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Manufacturing, Polymeric Cellular Foam	<input type="checkbox"/> Rule 1175 (09/07/07) <input type="checkbox"/> 40 CFR63 SUBPART UUUU	<input type="checkbox"/> Rule 1175(f) See Applicable Subpart	<input type="checkbox"/> Rule 1175(e) See Applicable Subpart
<input type="checkbox"/> Manufacturing, Products Containing Halon Blends	<input type="checkbox"/> 40 CFR82 SUBPART H	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Manufacturing, Products Containing Organic Solvents	<input type="checkbox"/> Rule 443.1 (12/05/86)	N/A	N/A
<input type="checkbox"/> Manufacturing, Products Containing Ozone Depleting Substances (ODS)	<input type="checkbox"/> 40 CFR82 SUBPART A <input type="checkbox"/> 40 CFR82 SUBPART E	See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Manufacturing, Reinforced Plastic Composites	<input type="checkbox"/> 40 CFR63 SUBPART WWWW	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Manufacturing, Refractory Products	<input type="checkbox"/> 40 CFR63 SUBPART SSSSS	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Manufacturing, Resin	<input type="checkbox"/> Rule 1141 (11/17/00) <input type="checkbox"/> 40 CFR63 SUBPART W	<input type="checkbox"/> Rule 1141(d) See Applicable Subpart	<input type="checkbox"/> Rule 1141(c) See Applicable Subpart
<input type="checkbox"/> Manufacturing, Rubber Tire	<input type="checkbox"/> 40 CFR63 SUBPART XXXX	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Manufacturing, Semiconductors	<input type="checkbox"/> Rule 109 (05/02/03) <input type="checkbox"/> Rule 1164 (01/13/95) <input type="checkbox"/> Rule 1171 (05/01/09) <input type="checkbox"/> 40 CFR63 SUBPART BBBB	<input type="checkbox"/> Rule 109(g) <input type="checkbox"/> Rule 1164(e) <input type="checkbox"/> Rule 1171(e) See Applicable Subpart	<input type="checkbox"/> Rule 109(c) <input type="checkbox"/> Rule 1164(c)(5) <input type="checkbox"/> Rule 1171(c)(6) See Applicable Subpart
<input type="checkbox"/> Manufacturing, Solvent	<input type="checkbox"/> Rule 443 (05/07/76)	N/A	N/A

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
Manufacturing, Sulfuric Acid	Rule 469 (02/13/81)	AQMD TM 6.1 or 6.2	See Applicable Subpart
	40 CFR60 SUBPART H	See Applicable Subpart	See Applicable Subpart
	40 CFR60 SUBPART Cd	See Applicable Subpart	
Manufacturing, Surfactant	Rule 1141.2 (01/11/02)	Rule 1141.2(e)	
		AQMD TM 25.1	
Manufacturing, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Air Oxidation Unit Processes	40 CFR60 SUBPART III	See Applicable Subpart	See Applicable Subpart
	40 CFR60 SUBPART NNN	See Applicable Subpart	See Applicable Subpart
Manufacturing, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes	40 CFR60 SUBPART RRR	See Applicable Subpart	See Applicable Subpart
Manufacturing, Vinyl Chloride	40 CFR61 SUBPART F	See Applicable Subpart	See Applicable Subpart
Manufacturing, Water Heaters	Rule 1121 (09/03/04)	N/A	N/A
Manufacturing, Wool Fiberglass Insulation	40 CFR60 SUBPART PPP	See Applicable Subpart	See Applicable Subpart
Manure Processing Operations	Rule 1127 (08/06/04)	Rule 1127(h)	Rule 1127(g)
Marine Tank Vessel Operations	Rule 1142 (07/19/91)	Rule 1142(e)	Rule 1142(h)
	Rule 1173 (02/06/09)	Rule 1173(j)	Rule 1173(i)
	40 CFR63 SUBPART Y	See Applicable Subpart	See Applicable Subpart
Mercury Emissions	40 CFR61 SUBPART E	See Applicable Subpart	See Applicable Subpart
	40 CFR63 SUBPART IIII	See Applicable Subpart	See Applicable Subpart
Motor Vehicle Air Conditioners with Ozone Depleting Substances (ODS): Repair, Service, Manufacturing, Maintenance, or Disposal	40 CFR82 SUBPART B	See Applicable Subpart	See Applicable Subpart
	40 CFR82 SUBPART F	See Applicable Subpart	See Applicable Subpart
Municipal Waste Combustors	40 CFR60 SUBPART Cb	See Applicable Subpart	See Applicable Subpart
	40 CFR60 SUBPART Ea	See Applicable Subpart	See Applicable Subpart
	40 CFR60 SUBPART Eb	See Applicable Subpart	See Applicable Subpart
Negative Air Machines/HEPA, Asbestos	40 CFR61 SUBPART M	See Applicable Subpart	See Applicable Subpart
Nickel Electroplating Operation	Rule 1426 (05/02/03)		Rule 1426(e)
Nonmetallic Mineral Processing Plants	Rule 404 (02/07/86)	AQMD TM 5.1, 5.2, or 5.3	
	Rule 405 (02/07/86)	AQMD TM 5.1, 5.2, or 5.3	See Applicable Subpart
	40 CFR60 SUBPART OOO	See Applicable Subpart	See Applicable Subpart
Off-site Waste and Recovery Operation	40 CFR63 SUBPART DD	See Applicable Subpart	See Applicable Subpart

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input checked="" type="checkbox"/> Oil and Gas Well Operation	<input type="checkbox"/> Rule 1148 (11/05/82) <input checked="" type="checkbox"/> Rule 1148.1 (03/05/04)	<input type="checkbox"/> AQMD TM 25.1 <input checked="" type="checkbox"/> Rule 1148.1 (g)	<input checked="" type="checkbox"/> Rule 1148.1 (f) See Applicable Subpart
<input checked="" type="checkbox"/> Onshore Natural Gas Processing, SO2 Emissions	<input type="checkbox"/> 40 CFR60 SUBPART LLL	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Open Fires	<input type="checkbox"/> Rule 444 (11/07/08)		
<input type="checkbox"/> Open Storage, Petroleum Coke	<input type="checkbox"/> Rule 403 (06/03/05) <input type="checkbox"/> Rule 403.1 (04/02/04) <input type="checkbox"/> Rule 1158 (06/11/99)	<input type="checkbox"/> Rule 403(d)(4) <input type="checkbox"/> Rule 1158(h) <input type="checkbox"/> Rule 403(d)(4)	<input type="checkbox"/> Rule 403(f) <input type="checkbox"/> Rule 403.1(h) <input type="checkbox"/> Rule 1158(j) <input type="checkbox"/> Rule 403(f) <input type="checkbox"/> Rule 403.1(h)
<input type="checkbox"/> Open Storage	<input type="checkbox"/> Rule 403 (06/03/05) <input type="checkbox"/> Rule 403.1 (04/02/04)	<input type="checkbox"/> Rule 403(d)(4)	<input type="checkbox"/> Rule 403(f) <input type="checkbox"/> Rule 403.1(h)
<input type="checkbox"/> Outer Continental Shelf Platform	<input type="checkbox"/> Rule 1183 (03/12/93) <input type="checkbox"/> 40 CFR55	<input type="checkbox"/> 40 CFR55 See Applicable Subpart	<input type="checkbox"/> 40 CFR55 See Applicable Subpart
<input type="checkbox"/> Oven, Commercial Bakery	<input type="checkbox"/> Rule 1153 (01/13/95)	<input type="checkbox"/> Rule 1153(h)	<input type="checkbox"/> Rule 1153(g)
<input type="checkbox"/> Oven, Petroleum Coke	<input type="checkbox"/> Rule 477 (04/03/81) <input type="checkbox"/> 40 CFR63 SUBPART L <input type="checkbox"/> 40 CFR63 SUBPART CCCCC	<input type="checkbox"/> AQMD Visible Emissions, AQMD TM 5.1, 5.2, or 5.3 See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Ozone Depleting Substances (ODS) or Alternative ODS, Use	<input type="checkbox"/> 40 CFR82 Subpart G	See Applicable Subpart	See Applicable Subpart

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process

Applicable Requirement

Test Method

MRR Requirement

<input type="checkbox"/> Petroleum Refineries	<input type="checkbox"/> Rule 218 (05/14/99)	<input type="checkbox"/> AQMD TM 100.1	<input type="checkbox"/> Rule 218(e) & (f)
	<input type="checkbox"/> Rule 465 (08/13/99)		
	<input type="checkbox"/> Rule 468 (10/08/76)	<input type="checkbox"/> AQMD TM 6.1 or 6.2	
	<input type="checkbox"/> Rule 469 (02/13/81)	<input type="checkbox"/> AQMD TM 6.1 or 6.2	<input type="checkbox"/> Rule 1118(f), (g), (h), & (i)
	<input type="checkbox"/> Rule 1118 (1/04/05)	<input type="checkbox"/> Rule 1118(j)	<input type="checkbox"/> Rule 1123(c)
	<input type="checkbox"/> Rule 1123 (12/07/90)	N/A	<input type="checkbox"/> Rule 1189(e)
	<input type="checkbox"/> Rule 1189 (01/21/00)	<input type="checkbox"/> Rule 1189(f)	See Applicable Subpart
	<input type="checkbox"/> 40 CFR60 SUBPART J	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART F	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART G	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART H	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART I	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART CC	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART EEEE	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> 40 CFR63 SUBPART GGGG	See Applicable Subpart	See Applicable Subpart
	<input type="checkbox"/> Title 13 CCR 2250		
	<input type="checkbox"/> Petroleum Refineries, Fugitive Emissions	<input type="checkbox"/> Rule 1173 (02/06/09)	<input type="checkbox"/> Rule 1173(j)
<input type="checkbox"/> Rule 466 (10/07/83)		<input type="checkbox"/> Rule 466(f)	<input type="checkbox"/> Rule 466(e)
<input type="checkbox"/> Rule 466.1 (03/16/84)		<input type="checkbox"/> Rule 466.1(g)	<input type="checkbox"/> Rule 466.1(h)
<input type="checkbox"/> Rule 467 (03/05/82)		<input type="checkbox"/> Rule 467(f)	<input type="checkbox"/> Rule 467(e)
<input type="checkbox"/> 40 CFR60 SUBPART GGG		See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> 40 CFR61 SUBPART V		See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> 40 CFR63 SUBPART F		See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> 40 CFR63 SUBPART G		See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> 40 CFR63 SUBPART H		See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> 40 CFR63 SUBPART I		See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> 40 CFR63 SUBPART R		See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> 40 CFR63 SUBPART CC		See Applicable Subpart	See Applicable Subpart

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement	
<input type="checkbox"/> Petroleum Refineries, Storage Tanks	<input type="checkbox"/> Rule 463 (05/06/05)	<input type="checkbox"/> Rule 463(g)	<input type="checkbox"/> Rule 463(e)(5)	
	<input type="checkbox"/> Rule 1178 (04/07/06)	<input type="checkbox"/> Rule 1178(i)	<input type="checkbox"/> Rule 1178(f) & (h)	
	<input type="checkbox"/> 40 CFR60 SUBPART K	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR60 SUBPART Ka	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR60 SUBPART Kb	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR63 SUBPART F	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR63 SUBPART G	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR63 SUBPART H	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR63 SUBPART I	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR63 SUBPART R	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR63 SUBPART CC	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR63 SUBPART EEEE	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> Petroleum Refineries, Wastewater Systems	<input type="checkbox"/> Rule 1176 (09/13/96)	<input type="checkbox"/> Rule 1176(h)	<input type="checkbox"/> Rule 1176(f) & (g)
		<input type="checkbox"/> Rule 464 (12/07/90)	N/A	
<input type="checkbox"/> Pharmaceuticals & Cosmetics Manufacturing	<input type="checkbox"/> 40 CFR60 SUBPART QQQ	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> 40 CFR63 SUBPART CC	See Applicable Subpart	See Applicable Subpart	
<input type="checkbox"/> Polyester Resin Operation	<input type="checkbox"/> Rule 1103 (03/12/99)	<input type="checkbox"/> Rule 1103(f)	<input type="checkbox"/> Rule 1103(e)	
	<input type="checkbox"/> 40 CFR63 SUBPART GGG	See Applicable Subpart	See Applicable Subpart	
	<input type="checkbox"/> Rule 109 (05/02/03)	<input type="checkbox"/> Rule 109(g)	<input type="checkbox"/> Rule 109(c)	
<input type="checkbox"/> Primary Magnesium Refining	<input type="checkbox"/> Rule 1162 (07/08/05)	<input type="checkbox"/> Rule 1162(f)	<input type="checkbox"/> Rule 1162(e)	
	<input type="checkbox"/> Rule 1171 (05/01/09)	<input type="checkbox"/> Rule 1171(e)	<input type="checkbox"/> Rule 1171(c)(6)	
<input type="checkbox"/> Printing Press	<input type="checkbox"/> 40 CFR63 SUBPART TTTT	See Applicable Subpart	See Applicable Subpart	
<input type="checkbox"/> Publicly Owned Treatment Works Operations	See Coating Operations			
	<input type="checkbox"/> Rule 1179 (03/06/92)	<input type="checkbox"/> Rule 1179(e)	<input type="checkbox"/> Rule 1179(c) & (d)	
<input checked="" type="checkbox"/> Pumps	<input type="checkbox"/> 40 CFR60 SUBPART O	See Applicable Subpart	See Applicable Subpart	
	See Fugitive Emissions or Petroleum Refineries, Fugitive Emissions			

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> Recycling & Recovery Equipment for Ozone Depleting Substances (ODS),	<input type="checkbox"/> 40 CFR82 SUBPART F	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Refrigerant Reclaimers for Ozone Depleting Substances (ODS)	<input type="checkbox"/> 40 CFR82 SUBPART F	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Rendering Plant	<input type="checkbox"/> Rule 472 (05/07/76)	N/A	<input type="checkbox"/> Rule 472(b)
<input type="checkbox"/> Rock Crushing	See Nonmetallic Mineral Processing Plants		
<input type="checkbox"/> Secondary Aluminum Production	<input type="checkbox"/> 40 CFR63 SUBPART LL	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Semiconductor Manufacturing	See Manufacturing, Semiconductors		
<input type="checkbox"/> Sewage Treatment Plants	See Publicly Owned Treatment Works Operation		
<input type="checkbox"/> Site Remediation	<input type="checkbox"/> 40 CFR63 SUBPART GGGGG	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Smelting, Primary Copper	<input type="checkbox"/> 40 CFR63 SUBPART QQQ	See Applicable Subpart	See Applicable Subpart
<input type="checkbox"/> Smelting, Secondary Lead	<input type="checkbox"/> 40 CFR60 SUBPART L <input type="checkbox"/> 40 CFR63 SUBPART X	See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
<input type="checkbox"/> Soil Decontamination / Excavation	<input type="checkbox"/> Rule 1166 (05/11/01) <input type="checkbox"/> 40 CFR63 SUBPART GGGGG	<input type="checkbox"/> Rule 1166(e) See Applicable Subpart	<input type="checkbox"/> Rule 1166(c)(1)(C) See Applicable Subpart
<input type="checkbox"/> Spray Booth	See Coating Operations		
<input type="checkbox"/> Sterilizer, Ethylene Oxide	<input type="checkbox"/> 40 CFR63 SUBPART O	See Applicable Subpart	See Applicable Subpart
<input checked="" type="checkbox"/> Storage Tank, Degassing Operation	<input checked="" type="checkbox"/> Rule 1149 (07/14/95) <input type="checkbox"/> 40 CFR63 SUBPART CC	See Applicable Subpart	See Applicable Subpart

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Section II - Applicable Requirements, Test Methods, & MRR Requirements

Equipment/Process	Applicable Requirement	Test Method	MRR Requirement
<input type="checkbox"/> Wastewater, Chemical Plant	<input type="checkbox"/> Rule 464 (12/07/90) <input type="checkbox"/> Rule 1176 (09/13/96) <input type="checkbox"/> 40 CFR63 SUBPART F <input type="checkbox"/> 40 CFR63 SUBPART G <input type="checkbox"/> 40 CFR63 SUBPART H <input type="checkbox"/> 40 CFR63 SUBPART I <input type="checkbox"/> 40 CFR63 SUBPART CC	N/A <input type="checkbox"/> Rule 1176(h) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	<input type="checkbox"/> Rule 1176(f) & (g) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
<input checked="" type="checkbox"/> Wastewater Treatment, Other	<input checked="" type="checkbox"/> Rule 464 (12/07/90) <input checked="" type="checkbox"/> Rule 1176 (09/13/96)	N/A <input checked="" type="checkbox"/> Rule 1176(h)	<input checked="" type="checkbox"/> Rule 1176(f) & (g)
<input type="checkbox"/> Woodworking Operations	<input type="checkbox"/> Rule 1137 (02/01/02)	N/A	<input type="checkbox"/> Rule 1137(e)

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Section IV - SIP-Approved Rules That Are Not The Most Current AQMD Rules					
Check off each SIP-Approved Rule as it applies to the facility. Use the blanks at the end of this form to fill-in new items.					
SIP - Approved Rule	Adoption/ Amendment Date	Check (✓) If Applies	SIP - Approved Rule	Adoption/ Amendment Date	Check (✓) If Applies
401	03/02/84	<input checked="" type="checkbox"/>			<input type="checkbox"/>
431.2	05/04/90	<input checked="" type="checkbox"/>			<input type="checkbox"/>
461	6/3/05	<input type="checkbox"/>			<input type="checkbox"/>
466.1	05/02/80	<input checked="" type="checkbox"/>			<input type="checkbox"/>
469	04/07/76	<input type="checkbox"/>			<input type="checkbox"/>
475	10/08/76	<input type="checkbox"/>			<input type="checkbox"/>
1112	01/06/84	<input type="checkbox"/>			<input type="checkbox"/>
1112.1	2/7/86	<input type="checkbox"/>			<input type="checkbox"/>
1113	11/08/96	<input checked="" type="checkbox"/>			<input type="checkbox"/>
1117	1/6/83	<input type="checkbox"/>			<input type="checkbox"/>
1122	07/11/97	<input checked="" type="checkbox"/>			<input type="checkbox"/>
1132	03/05/04	<input type="checkbox"/>			<input type="checkbox"/>
1140	02/01/80	<input type="checkbox"/>			<input type="checkbox"/>
1146	11/17/00	<input checked="" type="checkbox"/>			<input type="checkbox"/>
1146.1	5/13/94	<input type="checkbox"/>			<input type="checkbox"/>
1151	12/11/98	<input type="checkbox"/>			<input type="checkbox"/>
1158	6/11/99	<input type="checkbox"/>			<input type="checkbox"/>
1162	11/17/00	<input type="checkbox"/>			<input type="checkbox"/>
1166	07/14/95	<input checked="" type="checkbox"/>			<input type="checkbox"/>
1171	11/07/03	<input checked="" type="checkbox"/>			<input type="checkbox"/>
1175	05/13/94	<input type="checkbox"/>			<input type="checkbox"/>
1186	09/10/99	<input type="checkbox"/>			<input type="checkbox"/>

ADD

Section V - AQMD Rules That Are Not SIP-Approved (Continued on Following Page)

Check off each AQMD Rule as it applies to the facility. Use the blanks at the end of this form to fill-in new items.

Non SIP - Approved Rule	Adoption/ Amendment Date	Check (✓) If Applies	Non SIP - Approved Rule	Adoption/ Amendment Date	Check (✓) If Applies
53 Los Angeles Co.	N/A	<input checked="" type="checkbox"/>	1192	06/16/00	<input type="checkbox"/>
53 Orange Co.	N/A	<input type="checkbox"/>	1193	07/09/10	<input type="checkbox"/>
53 Riverside Co.	N/A	<input type="checkbox"/>	1194	10/20/00	<input type="checkbox"/>
53 San Bernardino Co.	N/A	<input type="checkbox"/>	1195	05/05/06	<input type="checkbox"/>
53A San Bernardino Co.	N/A	<input type="checkbox"/>	1196	06/06/08	<input type="checkbox"/>
402	05/07/76	<input checked="" type="checkbox"/>	1401	09/10/10	<input checked="" type="checkbox"/>
429	12/21/90	<input type="checkbox"/>	1401.1	11/04/05	<input type="checkbox"/>
430	07/12/96	<input checked="" type="checkbox"/>	1402	03/04/05	<input type="checkbox"/>
441	05/07/76	<input type="checkbox"/>	1403	10/05/07	<input checked="" type="checkbox"/>
473	05/07/76	<input type="checkbox"/>	1404	04/06/90	<input type="checkbox"/>
477	04/03/81	<input type="checkbox"/>	1405	01/04/91	<input type="checkbox"/>
480	10/07/77	<input type="checkbox"/>	1406	07/08/94	<input type="checkbox"/>
1109	08/05/88	<input type="checkbox"/>	1407	07/08/94	<input type="checkbox"/>
1110.2	07/09/10	<input type="checkbox"/>	1411	03/01/91	<input type="checkbox"/>
1116.1	10/20/78	<input type="checkbox"/>	1414	05/03/91	<input type="checkbox"/>
1127	08/06/04	<input type="checkbox"/>	1415	10/14/94	<input checked="" type="checkbox"/>
1143	07/09/10	<input type="checkbox"/>	1418	09/10/99	<input type="checkbox"/>
1147	12/05/08	<input type="checkbox"/>	1420	09/11/92	<input type="checkbox"/>
1148.1	03/05/04	<input checked="" type="checkbox"/>	1420.1	11/05/10	<input type="checkbox"/>
1150	10/15/82	<input type="checkbox"/>	1421	12/06/02	<input type="checkbox"/>
1155	12/04/09	<input type="checkbox"/>	1425	03/16/01	<input type="checkbox"/>
1156	03/06/09	<input type="checkbox"/>	1426	05/02/03	<input type="checkbox"/>
1157	09/08/06	<input type="checkbox"/>			<input type="checkbox"/>
1163	06/07/85	<input type="checkbox"/>			<input type="checkbox"/>
1170	05/06/88	<input type="checkbox"/>			<input type="checkbox"/>
1183	03/12/93	<input type="checkbox"/>			<input type="checkbox"/>
1186.1	01/09/09	<input type="checkbox"/>			<input type="checkbox"/>
1191	06/16/00	<input type="checkbox"/>			<input type="checkbox"/>

Section V - AQMD Rules That Are Not SIP-Approved (Continued on Following Page)

Check off each AQMD Rule as it applies to the facility. Use the blanks at the end of this form to fill-in new items.

Non SIP - Approved Rule	Adoption/ Amendment Date	Check (✓) If Applies	Non SIP - Approved Rule	Adoption/ Amendment Date	Check (✓) If Applies
1469	12/05/08	<input type="checkbox"/>	2009.1	05/11/01	<input checked="" type="checkbox"/>
1469.1	03/04/05	<input type="checkbox"/>	2501	05/09/97	<input type="checkbox"/>
1470	06/01/07	<input type="checkbox"/>	2506	12/10/99	<input type="checkbox"/>
1472	03/07/08	<input type="checkbox"/>			<input type="checkbox"/>
2009	01/07/05	<input type="checkbox"/>			<input type="checkbox"/>
		<input type="checkbox"/>			<input type="checkbox"/>
		<input type="checkbox"/>			<input type="checkbox"/>
		<input type="checkbox"/>			<input type="checkbox"/>
		<input type="checkbox"/>			<input type="checkbox"/>
		<input type="checkbox"/>			<input type="checkbox"/>

Acid Rain facilities must certify their compliance status of the devices subject to applicable requirements under Title IV by an individual who meets the definition of Designated (or Alternate) Representative in 40 CFR Part 72.

Section IV - Designated Representative Certification Statement	
<p><i>For Acid Rain Facilities Only.</i> I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.</p>	
1. Signature of Designated Representative or Alternate:	2. Title of Designated Representative or Alternate:
3. Print Name of Designated Representative or Alternate:	4. Date:
5. Phone #:	6. Fax #:
7. Address of Designated Representative or Alternate:	
<p style="text-align: right;">CA</p> <p>Street # _____ City _____ State _____ Zip _____</p>	



Form 500-B
Title V List of Exempt Equipment

Mail To:
SCAQMD
P.O. Box 4944
Diamond Bar, CA 91765-0944

Tel: (909) 396-3385
www.aqmd.gov

Use this form for all application submittals requesting an initial Title V permit or permit renewal. If you are applying for a permit revision, you may also use this form to have your exempt equipment listing updated prior to renewing your permit.

This form is designed to summarize all of the equipment at a facility that is exempt per SCAQMD Rule 219 from SCAQMD permit requirements (e.g., I.C. Engines ≤ 50 BHP, Boilers < 2 MM BTU/hr etc.). This equipment can be listed according to category. However, if there is a specific device that is vented to control equipment, then the equipment must be listed separately. Trivial activities listed on the back of this form or the Technical Guidance Document do not have to be listed on this form. Note: If your facility is in the RECLAIM program, it is not necessary to repeat any equipment currently listed in Appendix A of the RECLAIM permit.

Section I - Operator Information

1. **Facility Name** (Business Name of Operator That Appears On Permit): BERRY PETROLEUM COMPANY
2. **Valid AQMD Facility ID** (Available On Permit Or Invoice Issued By AQMD): 119907

3. Check box if facility is in RECLAIM program:

4. Provide Current Permit Issue Date: 06/01/2008 5. Permit Revision No.: 18 (01/01/2012)

Section II - Summary of Equipment Exempt from Permit Requirements (Including Portable)

Exempt Equipment Description [e.g., Small Boilers (75,000 BTU/hr-2,000,000 BTU/hr)]	Venting to Control (Device# or Application#)	Control Device Description	Basis for Exemption [e.g., Rule 219 (b)(2), 05/19/00]	Source Specific Rule [e.g., Rule 1146.2]
Well heads & well pumps (E68)	N/A	N/A	Rule 219(n)(1)	R1148, R1173
Vehicles/mobile equipment	N/A	N/A	Rule 219(a)(1)	
Refined lube oil storage	N/A	N/A	Rule 219(m)(7)	
Crankcase oil storage	N/A	N/A	Rule 219(m)(8)	
Welding equipment	N/A	N/A	Rule 219(e)(8)	
Machining equipment	N/A	N/A	Rule 219(g)(1)	
Wastewater reinject tanks	N/A	N/A	Rule 219(m)(18)	
Small portable ICEs <50 HP	N/A	N/A	Rule 219(b)(1)	
Laboratory equipment	N/A	N/A	Rule 219(c)(6)	
Small boilers/heaters <2 MMBTU	N/A	N/A	Rule 219(b)(2)	Rule 1146.2
Air conditioning units (E71)			Rule 219(d)(1)	
Small unheated clean equip (E72)			Rule 219(o)(1-4)	Rule 1171
Architectural coating equip (E73)			Rule 219(l)(9)	R1113, R1171
Small oil/water separators (E74)			Rule 219(n)(6)	
Small space heaters			Rule 219(d)(6)	
Rental equipment w/var loc permit			Rule 219(p)(17)	

Trivial Activities

<ul style="list-style-type: none"> • Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources • Air-conditioning units used for human comfort that do not have applicable requirements under Title VI of the Act • Ventilating units used for human comfort that do not exhaust air pollutants into the ambient air from any manufacturing/industrial or commercial process • Non-commercial food preparation • Consumer use of office equipment and products, not including printers or businesses primarily involved in photographic reproduction • Janitorial services and consumer use of janitorial products • Internal combustion engines used for landscaping purposes • Laundry activities, except for dry-cleaning and steam boilers • Bathroom/toilet vent emissions • Emergency (backup) electrical generators at residential locations • Tobacco smoking rooms and areas • Blacksmith forges • Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification¹ • Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification • Portable electrical generators that can be moved by hand from one location to another² • Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic • Brazing, soldering and welding equipment, and cutting torches related to manufacturing and construction activities that do not result in emission of HAP metals³ • Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents⁴ • Routine calibration and maintenance of laboratory equipment or other analytical instruments • Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis • Hydraulic and hydrostatic testing equipment • Environmental chambers not using hazardous air pollutant (HAP) gasses • Shock chambers • Humidity chambers • Solar simulators 	<ul style="list-style-type: none"> • Fugitive emission related to movement of passenger vehicles, provided any required fugitive dust control plan or its equivalent is submitted • Process water filtration systems and demineralizers • Demineralized water tanks and demineralizer vents Air compressors and pneumatically operated equipment, including hand tools • Batteries and battery charging stations, except at battery manufacturing plants • Storage tanks, vessels and containers holding or storing liquid substances that will not emit any VOC or HAP⁵ • Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized • Equipment used to mix and package soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized • Drop hammers or hydraulic presses for forging or metalworking • Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment • Vents from continuous emissions monitors and other analyzers • Natural gas pressure regulator vents, excluding venting at oil and gas production facilities • Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation • Equipment used for surface coating, painting, dipping or spraying operations, except those that will emit VOC or HAP • CO₂ lasers, used only on metals and other materials which do not emit HAP in the process • Consumer use of paper trimmers/binders • Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substance being processed in the ovens or autoclaves or the boilers delivering the steam • Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants • Laser trimmers using dust collection to prevent fugitive emissions • Boiler water treatment operations, not including cooling towers • Oxygen scavenging (de-aeration) of water • Ozone generators • Fire suppression systems • Emergency road flares • Steam vents and safety relief valves • Steam leaks • Steam cleaning operations • Steam sterilizers
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¹ Cleaning and painting activities qualify as trivial if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise required.

² "Moved by hand" means it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance or device.

³ Brazing, soldering and welding equipment, and cutting torches related to manufacturing and construction activities that emit HAP metals are more appropriate for treatment as unpermitted equipment. Brazing, soldering, welding and cutting torches directly related to plant maintenance and upkeep and repair or maintenance shop activities that emit HAP metals are treated as trivial and listed separately in this appendix.

⁴ Many lab fume hoods or vents might qualify for treatment as unpermitted equipment.

⁵ Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.

