



SMAQMD BACT CLEARINGHOUSE

This clearinghouse is updated monthly to reflect the latest BACT determinations in effect within the jurisdiction of the Sacramento Metropolitan Air Quality Management District. This list serves as guidance and reflects the minimum emission rate/control technology that will be required as BACT.

NOTE: BACT DETERMINATIONS MAY CHANGE AT ANY TIME AND WITHOUT PREVIOUS NOTICE.

This list was last updated on: 02-05-2021

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

BOILER/HEATER < 5 MMBTU

BACT Category: SMALL EMITTER (PTE < 10 LBS/DAY)

BACT Determination Number: 218	BACT Determination Date 7/30/2019	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: BOILER
Unit Size/Rating/Capacity: >= 75,000 Btu/hr and < 2.0 MMBtu/hr fired on NG
Equipment Location:

BACT Determination Information

District Contact: Joe Carle Phone No.: (916) 874 - 4838 email: jcarle@airquality.org

ROCs	Standard:	
	Technology Description:	Good combustion practices
	Basis:	Achieved in Practice
NOx	Standard:	20 ppmvd (except pool/spa heaters <0.4 mmbtu/hr)
	Technology Description:	Low-NOx burner
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	Good combustion practices
	Basis:	Achieved in Practice
PM10	Standard:	
	Technology Description:	Good combustion practices
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Good combustion practices
	Basis:	Achieved in Practice
CO	Standard:	400 ppmvd
	Technology Description:	
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: All ppmvd are at 3% oxygen. The NOx BACT standard for pool/spa heaters < 0.4 MMBTU/hr is 55 ppmvd at 3% oxygen.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

BOILER/HEATER < 5 MMBTU

BACT Category: SMALL EMITTER (PTE < 10 LBS/DAY)

BACT Determination Number: 219	BACT Determination Date 7/30/2019	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: BOILER
Unit Size/Rating/Capacity: >= 75,000 Btu/hr and < 2.0 MMBTU/hr fired on LPG
Equipment Location:

BACT Determination Information

District Contact: Joe Carle Phone No.: (916) 874 - 4838 email: jcarle@airquality.org

ROCs	Standard:	
	Technology Description:	Good combustion practices
	Basis:	Achieved in Practice
NOx	Standard:	30 ppmvd (except units < 0.4 MMBTU/hr)
	Technology Description:	Low-NOx burner
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	Good combustion practices
	Basis:	Achieved in Practice
PM10	Standard:	
	Technology Description:	Good combustion practices
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Good combustion practices
	Basis:	Achieved in Practice
CO	Standard:	400 ppmvd (except units < 0.4 MMBTU/hr)
	Technology Description:	
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: All ppmvd standards are at 3% oxygen. Units < 0.4 MMBTU/hr must meet a BACT standard of 77 ppmvd at 3% oxygen for NOx and must implement good combustion practices for CO.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

BOILER/HEATER < 5 MMBTU

BACT Category: SMALL EMITTER (PTE < 10 LBS/DAY)

BACT Determination Number: 239	BACT Determination Date 4/14/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: BOILER
Unit Size/Rating/Capacity: Natural gas fired ≥2 MMBtu/hr & <5 MMBtu/hr
Equipment Location:

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	Good combustion practice
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	Non-atmospheric units: 9 ppmvd at 3% O ₂ , Atmospheric units/thermal fluid heaters: 12 ppmvd at 3% O ₂
	Basis:	Achieved in Practice
SOx	Standard:	Good combustion practice
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	Good combustion practice
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	Good combustion practice
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	Firetube Boilers: 50 ppmvd at 3% O ₂ , Watertube Boilers: 100 ppmvd at 3% O ₂
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: This is a generic BACT determination based on BACT determinations made and published by other air agencies in California and/or other states.

This BACT Determination is for units classified as small emitters (less than 10 lbs/day of VOC, NOx, SOx, PM10, or PM2.5 and less than 550 lbs/day CO) and are located at non-major stationary sources.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

BOILER/HEATER < 5 MMBTU

BACT Category: SMALL EMITTER (PTE < 10 LBS/DAY)

BACT Determination Number: 240	BACT Determination Date 4/14/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: BOILER
Unit Size/Rating/Capacity: LPG fired ≥2 & <5 MMBTU/HR
Equipment Location:

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	Good combustion practice, Use of LPG
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	12 ppmvd @ 3% O2
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	Good combustion practice, Use of LPG
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	Good combustion practice, Use of LPG
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	Good combustion practice, Use of LPG
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	Firetube: 50 ppmvd @ 3% O2, Watertube: 100 ppmvd @3% O2
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: This is a generic BACT determination based on BACT determinations made and published by other air agencies in California and/or other states.

This BACT Determination is for units classified as small emitters (less than 10 lbs/day of VOC, NOx, SOx, PM10, or PM2.5 and less than 550 lbs/day CO) and are located at non-major stationary sources.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

BOILER/HEATER - EVAPORATOR

BACT Category: SMALL EMITTER (PTE < 10 LBS/DAY)

BACT Determination Number: 248	BACT Determination Date 1/2/2020	ACTIVE
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Equipment Information

Permit Number: 26248
Equipment Description: WATER EVAPORATOR
Unit Size/Rating/Capacity: >= 1 MMBt/hr and < 2 MMBtu/hr
Equipment Location: ADESA CALIFORNIA, LLC D/B/A ADESA BRASHER'S
 6233 BLACKTOP RD RIO LINDA, CA

BACT Determination Information

District Contact: Felix Trujillo Phone No.: (916) 874 - 7357 email: ftrujillo@airquality.org

ROCs	Standard:	No Standard
	Technology Description:	
	Basis:	
NOx	Standard:	No Standard
	Technology Description:	
	Basis:	
SOx	Standard:	No Standard
	Technology Description:	
	Basis:	
PM10	Standard:	No Standard
	Technology Description:	
	Basis:	
PM2.5	Standard:	No Standard
	Technology Description:	
	Basis:	
CO	Standard:	No Standard
	Technology Description:	
	Basis:	
LEAD	Standard:	No Standard
	Technology Description:	
	Basis:	

Comments: This BACT is for natural gas or LPG fueled car wash waste water evaporators that are direct fired (where the products of combustion come into direct contact with the material to be heated).

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - ADHESIVES

BACT Category: MINOR SOURCE

BACT Determination Number: 226	BACT Determination Date 5/24/2019	ACTIVE
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Equipment Information

Permit Number: 26136
Equipment Description: Adhesive Application
Unit Size/Rating/Capacity: <1,170 lbsVOC/month and <=4,019 lbs VOC/year
Equipment Location: SUNERGY CALIFORNIA LLC
 4741 URBANI AVE MCCLELLAN, CA

BACT Determination Information

District Contact: Brian Krebs Phone No.: 916-874-4856 email: bkrebs@airquality.org

ROCs	Standard:	
	Technology Description:	See BACT determination Evaluation
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	
	Technology Description:	Spray booth with dry filters or waterwash
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Spray booth with dry filters or waterwash
	Basis:	
CO	Standard:	
	Technology Description:	
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: VOC BACT determination consists of 9 tables that are included in the BACT determination evaluation

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - ADHESIVES

BACT Category: MINOR SOURCE

BACT Determination Number: 227	BACT Determination Date 5/24/2019	ACTIVE
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Equipment Information

Permit Number: 26136
Equipment Description: Adhesive Application Operation
Unit Size/Rating/Capacity: >=1,170 lb/month or >4,019 lb/yr
Equipment Location: SUNERGY CALIFORNIA LLC
 4741 URBANI AVE MCCLELLAN, CA

BACT Determination Information

District Contact: Brian Krebs Phone No.: (916) 874 - 4856 email: bkrebs@airquality.org

ROCs	Standard:	
	Technology Description:	Compliance with adhesive BACT VOC limits (see comment)
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	
	Technology Description:	Spray booth with dry filters or waterwash
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Spray booth with dry filters or waterwash
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: Compliance with adhesive BACT VOC limits (see Tables 1-9 in BACT determination evaluation) and VOC control system with ≥90% collection efficiency and ≥ 95% destruction efficiency.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - METAL

BACT Category: MINOR SOURCE

BACT Determination Number: 234	BACT Determination Date 12/8/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PAINT SPRAY BOOTH
Unit Size/Rating/Capacity: <5,475 lbs VOC/year
Equipment Location:

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	< 5,475 lb VOC/year
	Technology Description:	HVLP spray or equivalent application equipment, enclosed spray gun cleaning system, see comments for VOC content limits.
	Basis:	Achieved in Practice
NOx	Standard:	30 ppmvd @ 3% O2 or 0.036 lb/MMBtu
	Technology Description:	For heaters: low NOx burner, 30 ppmvd @ 3% O2 or 0.036 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	No standard
	Basis:	
PM10	Standard:	
	Technology Description:	Enclosed spray booth with properly maintained dry filters or waterwash. HVLP spray or equivalent application equipment.
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Enclosed spray booth with properly maintained dry filters or waterwash. HVLP spray or equivalent application equipment.
	Basis:	Achieved in Practice
CO	Standard:	400 ppmvd @ 3% O2 or 0.30 lb/MMBtu
	Technology Description:	For heaters: 400 ppmvd @ 3% O2 or 0.30 lb/MMBtu
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: BACT for VOC:
 Compliance with SMAQMD Rule 451 coating, solvent, and stripper VOC limits except for 2 coating categories (For General - One Component use SCAQMD Regulation XI, Rule 1107 standard and for Etching Filler use SJVAPCD Rule 4603 Standard). Compliance with SMAQMD Rule 451 includes use of exemptions of this rule. If the operation qualifies for exemption of VOC content limits the BACT VOC content limits are exempt as well.
 T-BACT: See BACT evaluation #234 for T-BACT

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - METAL

BACT Category: MINOR SOURCE

BACT Determination Number: 235	BACT Determination Date 12/8/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PAINT SPRAY BOOTH
Unit Size/Rating/Capacity: ≥ 5,475 lb VOC/year
Equipment Location:

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	≥ 5,475 lb VOC/year
	Technology Description:	See Comments for VOC Standards
	Basis:	Cost Effective
NOx	Standard:	30 ppmvd @ 3% O2 or 0.036 lb/MMBtu
	Technology Description:	For heaters: low NOx burner, 30 ppmvd @ 3% O2 or 0.036 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	No standard
	Basis:	
PM10	Standard:	
	Technology Description:	Enclosed spray booth with properly maintained dry filters or waterwash. 2.HVLP spray or equivalent application equipment.
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Enclosed spray booth with properly maintained dry filters or waterwash. 2.HVLP spray or equivalent application equipment.
	Basis:	Achieved in Practice
CO	Standard:	400 ppmvd @ 3% O2 or 0.30 lb/MMBtu
	Technology Description:	For heaters: 400 ppmvd @ 3% O2 or 0.30 lb/MMBtu
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: BACT for VOC: 1. Compliance with SMAQMD Rule 451 coating, solvent, and stripping VOC limits except for 2 coating categories (For General - One Component use SCAQMD Regulation XI, Rule 1107 standard and for Etching Filler use SJVAPCD Rule 4603 Standard), and VOC control system with overall capture/destruction efficiency ≥ 90%; OR
 2. Use of Super Clean Materials (< 5% VOC by weight); OR
 3. Use of low-VOC materials resulting in an equivalent emission reductions as option #1 and option #2.
 See BACT evaluation #235 for T-BACT.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - RAILCAR

BACT Category: MINOR SOURCE

BACT Determination Number: 230	BACT Determination Date 4/23/2020	ACTIVE
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Equipment Information

Permit Number: 25959
Equipment Description: PAINT SPRAY BOOTH
Unit Size/Rating/Capacity: < 20 tons VOC/year
Equipment Location: SIEMENS INDUSTRY, INC.
 7464 FRENCH RD SACRAMENTO, CA

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	HVLP Spray or equivalent application equipment, enclosed gun cleaning system. For heaters, use of NG or LPG fired burner. See Comments for VOC Standards.
	Basis:	Achieved in Practice
NOx	Standard:	30 ppmvd @ 3% O2 or 0.036 lb/MMBtu
	Technology Description:	For heaters: low NOx burner, 30 ppmvd @ 3% O2 or 0.036 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	For heaters, natural gas or LPG fired burner
	Basis:	Achieved in Practice
PM10	Standard:	
	Technology Description:	1. Enclosed spray booth with dry filters or waterwash, properly maintained, 98% PM control efficiency, 0.0015 gr/dcsf 2. HVLP spray or equivalent application equipment
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	1. Enclosed spray booth with dry filters or waterwash, properly maintained, 98% PM control efficiency, 0.0015 gr/dcsf 2. HVLP spray or equivalent application equipment
	Basis:	Achieved in Practice
CO	Standard:	400 ppmvd @ 3% O2 or 0.30 lb/MMBtu
	Technology Description:	For heaters: 400 ppmvd @ 3% O2 or 0.30 lb/MMBtu
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: BACT for VOC:
 For OEM Booths (Misc. metal parts and products): Compliance with SMAQMD Rule 451, Compliance with BACT #230 coating, solvent, and stripper VOC limits (See BACT #230 evaluation for VOC limit tables.
 For OEM Booths (Plastic parts and products): Compliance with SMAQMD Rule 468 except where noted in evaluation footnotes (See BACT evaluation for notes).
 For refinishing booths: Compliance with SMAQMD Rule 459.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - WOOD

BACT Category: MINOR SOURCE

BACT Determination Number: 254	BACT Determination Date 6/9/2020	ACTIVE
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Equipment Information

Permit Number: 26395
Equipment Description: COATING OPERATION
Unit Size/Rating/Capacity: ≤ 16,560 lbs VOC/year
Equipment Location: CAYUCO CORP DBA CLAYSTONE CABINET CO.
 8409 ROVANA CIRCLE SACRAMENTO, CA

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	1. HVLP spray or equivalent equipment. 2. Compliance with Rule 463 and BACT VOC limits (see Tables 1-3 in BACT evaluation).
	Basis:	Achieved in Practice
NOx	Standard:	30 ppmvd @ 3% O2 or 0.036 lb/MMBtu
	Technology Description:	For heaters, low NOx burner
	Basis:	Achieved in Practice
SOx	Standard:	No Standard
	Technology Description:	
	Basis:	
PM10	Standard:	
	Technology Description:	1. Enclosed spray booth with properly maintained dry filter or waterwash. 2. HVLP spray or equivalent equipment
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Enclosed spray booth with properly maintained dry filter or waterwash
	Basis:	Achieved in Practice
CO	Standard:	No Standard
	Technology Description:	
	Basis:	
LEAD	Standard:	No Standard
	Technology Description:	
	Basis:	

Comments: T-BACT is the following:
 1. HVLP spray or equivalent application equipment
 2. Compliance with SMAQMD Rule 463 and SMAQMD BACT coating, solvent cleaning, and stripping VOC limits (see Tables 1-3). For major sources, emission limits of Tables 1 & 2 to Subpart QQQQ of Part 63 and emission limits of Table 3 to Subpart JJ of Part 63, whichever is more stringent.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COFFEE ROASTER

BACT Category: MINOR SOURCE

BACT Determination Number: 141	BACT Determination Date 9/4/2019	ACTIVE
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Equipment Information

Permit Number: 25127
Equipment Description: COFFEE ROASTER
Unit Size/Rating/Capacity: < 110,000 Btu/hr
Equipment Location: VINTAGE PRODUCTION CALIFORNIA LLC
 8301 DEMETRE AVE SACRAMENTO, CA

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	≥ 90% control efficiency
	Technology Description:	Afterburner (0.3 second retention time at 1200 °F) or equivalent technology
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	Natural gas fuel
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	Natural gas fuel
	Basis:	Achieved in Practice
PM10	Standard:	
	Technology Description:	Natural gas fuel with cyclone and afterburner (0.3 second retention time at 1200 °F) or equivalent technology
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Cyclone and natural gas fuel
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	Natural gas fuel and good combustion practices
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments:

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COFFEE ROASTER

BACT Category: MINOR SOURCE

BACT Determination Number: 184	BACT Determination Date 9/4/2019	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: COFFEE ROASTER
Unit Size/Rating/Capacity: 110,000 Btu/hr to 3.5 MMBtu/hr
Equipment Location:

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	≥ 90% control efficiency
	Technology Description:	afterburner (0.3 second retention time at ≥1400 °F) or equivalent technology
	Basis:	Achieved in Practice
NOx	Standard:	40 or 60 ppm NOx at 3% O2, see comments
	Technology Description:	For units ≥ 325,000 BTU/hr: Low NOx burner, see comments for details
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	Natural gas fuel
	Basis:	Achieved in Practice
PM10	Standard:	
	Technology Description:	Natural gas with cyclone and afterburner (0.3 second retention time at 1400 °F) or equivalent technology
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Cyclone and natural gas fuel
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	Natural gas fuel and good combustion practices
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: BACT for NOx:
 1.40 ppm NOx at 3% O2 or 0.049 lb/MMBtu for roaster burners < 500 °F, 60 ppm NOx at 3% O2 or 0.073 lb/MMBtu for roaster burners ≥ 500 °F
 2.60 ppm NOx at 3% O2 or 0.073 lb/MMBtu for afterburners, thermal oxidizers, catalytic oxidizers, and vapor incinerators

 T-BACT:

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

DRY CLEANING UNIT

BACT Category: MINOR SOURCE

BACT Determination Number: 236	BACT Determination Date 3/24/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PETROLEUM AND NON-HALOGENATED SOLVENTS
Unit Size/Rating/Capacity: ≤3,500 lbs VOC/year
Equipment Location:

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	Closed-loop, Dry-to-Dry machine with internal refrigerated condenser achieving outlet vapor temperature ≤45°F, and drying sensor/controller. See BACT evaluation Attachment E for operational standards.
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	No Standard
	Basis:	
SOx	Standard:	
	Technology Description:	No Standard
	Basis:	
PM10	Standard:	
	Technology Description:	No Standard
	Basis:	
PM2.5	Standard:	
	Technology Description:	No Standard
	Basis:	
CO	Standard:	
	Technology Description:	No Standard
	Basis:	
LEAD	Standard:	
	Technology Description:	No Standard
	Basis:	

Comments: See BACT Determination #236 Attachment E for operational standards.
T-BACT is the following:
1. Carbon adsorber with 95% control efficiency or equivalent technology
2. Ventless dry-to-dry system with internal refrigerated condenser, internal carbon adsorption unit, and drying sensor/controlle achieving solvent concentration in drum ≤300ppmv.
3. See Attachment F for operational standards.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

DRY CLEANING UNIT

BACT Category: MINOR SOURCE

BACT Determination Number: 244	BACT Determination Date 3/24/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PETROLEUM AND NON-HALOGENATED SOLVENTS
Unit Size/Rating/Capacity: >3,500 LBS VOC/YEAR
Equipment Location:

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: 916-874-4863 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	Carbon Adsorber w/ 95% control efficiency or equivalent, Closed-loop, Dry-to-Dry machine with internal refrigerated condenser achieving outlet vapor temp ≤45°F, and drying sensor/controller. See BACT evaluation Attachment E for operational standards.
	Basis:	Cost Effective
NOx	Standard:	No Standard
	Technology Description:	
	Basis:	
SOx	Standard:	No Standard
	Technology Description:	
	Basis:	
PM10	Standard:	No Standard
	Technology Description:	
	Basis:	
PM2.5	Standard:	No Standard
	Technology Description:	
	Basis:	
CO	Standard:	No Standard
	Technology Description:	
	Basis:	
LEAD	Standard:	No Standard
	Technology Description:	
	Basis:	

Comments: See BACT Determination #244 Attachment E for operational standards. T-BACT is equivalent to BACT for VOC.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

DRY CLEANING UNIT

BACT Category: MINOR SOURCE

BACT Determination Number: 237	BACT Determination Date 3/24/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: SYNTHETIC/HALOGENATED SOLVENDS EXCLUDING PERC
Unit Size/Rating/Capacity: ≤3,500 lbs VOC/year
Equipment Location:

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	Ventless dry-to-dry system with internal refrigerated condenser, internal carbon adsorption unit, and drying sensor/controlle achieving solvent concentration in drum ≤300ppmv. See BACT evaluation AttachmentF for operational standards.
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	No Standard
	Basis:	
SOx	Standard:	
	Technology Description:	No Standard
	Basis:	
PM10	Standard:	
	Technology Description:	No Standard
	Basis:	
PM2.5	Standard:	
	Technology Description:	No Standard
	Basis:	
CO	Standard:	
	Technology Description:	No Standard
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: See BACT Determination #237 Attachment F for operational standards.
T-BACT is the following:
1. Carbon adsorber with 95% control efficiency or equivalent technology
2. Ventless dry-to-dry system with internal refrigerated condenser, internal carbon adsorption unit, and drying sensor/controlle achieving solvent concentration in drum ≤300ppmv.
3. See Attachment F for operational standards.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

DRY CLEANING UNIT

BACT Category: MINOR SOURCE

BACT Determination Number: 245	BACT Determination Date 3/24/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: SYNTHETIC/HALOGENATED SOLVENDS EXCLUDING PERC
Unit Size/Rating/Capacity: >3,500 LBS VOC/YEAR
Equipment Location:

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: 916-874-4863 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	Carbon Adsorber w/ 95% control efficiency or equivalent, Closed-loop, Dry-to-Dry machine with internal refrigerated condenser achieving outlet vapor temp ≤45°F, and drying sensor/controller. See BACT evaluation Attachment F for operational standards.
	Basis:	Cost Effective
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	
	Technology Description:	
	Basis:	
PM2.5	Standard:	
	Technology Description:	
	Basis:	
CO	Standard:	
	Technology Description:	
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: See BACT Determination #245 Attachment F for operational standards. T-BACT is equivalent to BACT

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

DRYER (NON PROCESS HTR)

BACT Category: SMALL EMITTER (PTE < 10 LBS/DAY)

BACT Determination Number: 249	BACT Determination Date 3/19/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: Laundry Dryer - Commercial
Unit Size/Rating/Capacity: Commercial Laundry Dryer, Natural Gas < 5 MMBtu/hr
Equipment Location:

BACT Determination Information

District Contact: Michelle Joe Phone No.: (916) 874 - 4853 email: mjoe@airquality.org

ROCs	Standard:	Natural gas fueled
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	30ppmvd @ 3% O2
	Technology Description:	Low-NOx burner
	Basis:	Achieved in Practice
SOx	Standard:	Natural gas fueled
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	75% control
	Technology Description:	Lint collector and natural gas fuel, or equal
	Basis:	Achieved in Practice
PM2.5	Standard:	75% control
	Technology Description:	Lint collector and natural gas fuel, or equal
	Basis:	Achieved in Practice
CO	Standard:	No standard
	Technology Description:	
	Basis:	
LEAD	Standard:	No standard
	Technology Description:	
	Basis:	

Comments: This is a generic BACT determination based on BACT determinations made, and published, by other air agencies in California and/or other States.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

FIBERGLASS OPERATION

BACT Category: Cured-In-Place Pipe Process < 6,480 lbs

BACT Determination Number: 266	BACT Determination Date 6/16/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: FIBERGLASS MFG PROCESS
Unit Size/Rating/Capacity: < 6,480 lbs VOC/year
Equipment Location:

BACT Determination Information

District Contact: Jeff Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	Open molding using compliant resins and gel coats (See comments), and the use of vapor suppressed Tub/Shower resins; or Closed Molding; or capture and control system with 90% overall efficiency, and Compliance with Rule 465 Cleaning Material Requirements
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	No standard
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	No standard
	Basis:	
PM10	Standard:	
	Technology Description:	Application equipment as specified in applicable District Rule
	Basis:	
PM2.5	Standard:	
	Technology Description:	Application equipment as specified in applicable District Rule
	Basis:	
CO	Standard:	
	Technology Description:	No standard
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: Maximum monomer content percent by weight: clear marble resin gel coats = 40%; All other clear gel coats = 44%; White and off-white gel coats = 30%; non-white gel coats = 37%; primer pigmented gel coats = 28%; specialty gel coats = 48%; tooling gel coat = 40%; Marble resins = 10% with fillers or 32% without; solid surface resins = 17%; Tub/Shower resins = 24% with fillers or 35% without; lamination resins = 31% with fillers or 35% without; fire retardant resins = 38%; corrosion resistant resins = 48%; high strength resins = 40%; atomized tooling resins = 39%; non-atomized tooling resins = 30%; all other resins = 35%

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

FIBERGLASS OPERATION

BACT Category: Cured-In-Place Pipe Process >= 6,480 lb

BACT Determination Number: 267	BACT Determination Date 6/16/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: FIBERGLASS MFG PROCESS
Unit Size/Rating/Capacity: ≥ 6,480 lbs VOC/year
Equipment Location:

BACT Determination Information

District Contact:

ROCs	Standard:	
	Technology Description:	Compliance with Rule 465, and VOC Capture and Control System with ≥ 90% total control efficiency
	Basis:	Cost Effective
NOx	Standard:	
	Technology Description:	No Standard
	Basis:	
SOx	Standard:	
	Technology Description:	No Standard
	Basis:	
PM10	Standard:	
	Technology Description:	Application equipment as specified in applicable District Rule
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Application equipment as specified in applicable District Rule
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	No Standard
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: This is a generic BACT determination based on BACT determinations made, and published, by other air agencies in California and/or other States.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

GASOLINE DISPENSING FACILITY

BACT Category: ALL

BACT Determination Number: 243	BACT Determination Date 1/15/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: Phase I Vapor Recovery System Gasoline E85 storage
Unit Size/Rating/Capacity: Storage Container ≥250 gal. Mobile fueler ≥120 gal
Equipment Location:

BACT Determination Information

District Contact: Venk Reddy Phone No.: 916-874-4861 email: vreddy@airquality

ROCs	Standard:	98% Control Efficiency
	Technology Description:	CARB certified Phase I System or any system or component being evaluated for certification purposes.
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	
	Technology Description:	
	Basis:	
PM2.5	Standard:	
	Technology Description:	
	Basis:	
CO	Standard:	
	Technology Description:	
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: This is a generic BACT determination based on BACT determinations made, and published, by other air agencies in California and/or other States.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

GASOLINE DISPENSING FACILITY

BACT Category: MINOR SOURCE

BACT Determination Number: 247	BACT Determination Date 1/15/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: Phase II Vapor Recovery
Unit Size/Rating/Capacity: Phase II Vapor Recovery System
Equipment Location:

BACT Determination Information

District Contact: Venk Reddy Phone No.: 916-874-4861 email: vreddy@airquality

ROCs	Standard:	95% Control Efficiency
	Technology Description:	CARB Certified Phase II Vapor Recovery System. See comment for other equivalent achieved in practice technologies that will satisfy BACT
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	
	Technology Description:	
	Basis:	
PM2.5	Standard:	
	Technology Description:	
	Basis:	
CO	Standard:	
	Technology Description:	
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: The following technologies have been determined to be equivalent to the cARB certified Phase II system:
 1) The fueling of vehicles at non-retail facilities where 100 percent of the vehicles being fueled are equipped with ORVR, or
 2) The use of E85 dispensers to dispense E85 fuel into flexible fuel vehicles, or
 3) The use fo any system or component being evaluated for certification purposes and operating under current and valid CARB authorization.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

GRINDER

BACT Category: MINOR SOURCE

BACT Determination Number: 258	BACT Determination Date 3/31/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PORTABLE WOODWASTE/GREENWASTE GRINDER
Unit Size/Rating/Capacity: ALL
Equipment Location:

BACT Determination Information

District Contact: Felix Trujillo, Jr. Phone No.: (916) 874-7357 email: ftrujillo@airquality.org

ROCs	Standard:	
	Technology Description:	Green waste with a moisture content of 30% or more must not remain at the site for longer than 48 hours after is has been ground
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	VEE < or equal to 5% Opacity
	Technology Description:	Water spray or adequate moisture content of process materials
	Basis:	Achieved in Practice
PM2.5	Standard:	VEE < or equal to 5% Opacity
	Technology Description:	Water spray or adequate moisture content of process materials
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: This is a generic BACT determination based on BACT determinations made, and published, by other air agencies in California and/or other States.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

GROUNDWATER REMEDIATION

BACT Category: Groundwater Remediation System with V

BACT Determination Number: 152	BACT Determination Date 6/4/2019	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: AIR STRIPPING SYSTEM
Unit Size/Rating/Capacity: Small Emitter BACT (PTE < 10 lb/day)
Equipment Location:

BACT Determination Information

District Contact: Michelle Joe Phone No.: (916) 874 - 4853 email: mjoe@airquality.org

ROCs	Standard:	9.9 lb/day and % control based on influent
	Technology Description:	IC Engines, Thermal Oxidizers, Catalytic Oxidizers, or Carbon Adsorption that achieve the control efficiency requirements stated below.
	Basis:	Achieved in Practice
NOx	Standard:	(see additional BACT for technology below)
	Technology Description:	IC Engines, Thermal Oxidizers, or Catalytic Oxidizers that meet the APC-specific requirements in the BACT determination evaluation.
	Basis:	Achieved in Practice
SOx	Standard:	(see additional BACT for technology below)
	Technology Description:	IC Engines, Thermal Oxidizers, or Catalytic Oxidizers that meet the APC-specific requirements in the BACT determination evaluation.
	Basis:	Achieved in Practice
PM10	Standard:	(see additional BACT for technology below)
	Technology Description:	IC Engines, Thermal Oxidizers, or Catalytic Oxidizers that meet the APC-specific requirements in the BACT determination evaluation.
	Basis:	Achieved in Practice
PM2.5	Standard:	(see additional BACT for technology below)
	Technology Description:	IC Engines, Thermal Oxidizers, or Catalytic Oxidizers that meet the APC-specific requirements in the BACT determination evaluation.
	Basis:	Achieved in Practice
CO	Standard:	(see additional BACT for technology below)
	Technology Description:	IC Engines, Thermal Oxidizers, or Catalytic Oxidizers that meet the APC-specific requirements in the BACT determination evaluation.
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: For Effluent VOC Concentrations <= 10 ppmv, no required % control efficiency.
 For Influent VOC Concentrations >= 2,000 ppmv, at least 98.5% control efficiency required.
 For Influent VOC Concentrations >= 200 ppmv and < 2,000 ppmv, at least 97% control efficiency required.
 For Influent VOC Concentrations < 200 ppmv at least 90% control efficiency required.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

IC ENGINE COMP. - NON-ROAD

BACT Category: MINOR SOURCE

BACT Determination Number: 257	BACT Determination Date 3/31/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: COMPRESSION IGNITED PRIME POWER
Unit Size/Rating/Capacity: All Horsepower: Nonroad Self-Propelled IC Engine
Equipment Location:

BACT Determination Information

District Contact: Felix Trujillo, Jr. Phone No.: (916) 874-7357 email: ftrujillo@airquality.org

ROCs	Standard:	See Comments Below
	Technology Description:	<25 hp: Comply with EPA nonroad regulations & use CARB diesel fuel; >= 25 hp: Comply with the Regulation for In-Use Off-Road Diesel-Fueled Fleets
	Basis:	Achieved in Practice
NOx	Standard:	See Comments Below
	Technology Description:	<25 hp: Comply with EPA nonroad regulations & use CARB diesel fuel; >= 25 hp: Comply with the Regulation for In-Use Off-Road Diesel-Fueled Fleets
	Basis:	Achieved in Practice
SOx	Standard:	See Comments Below
	Technology Description:	<25 hp: Comply with EPA nonroad regulations & use CARB diesel fuel; >= 25 hp: Comply with the Regulation for In-Use Off-Road Diesel-Fueled Fleets
	Basis:	Achieved in Practice
PM10	Standard:	See Comments Below
	Technology Description:	<25 hp: Comply with EPA nonroad regulations & use CARB diesel fuel; >= 25 hp: Comply with the Regulation for In-Use Off-Road Diesel-Fueled Fleets
	Basis:	Achieved in Practice
PM2.5	Standard:	See Comments Below
	Technology Description:	<25 hp: Comply with EPA nonroad regulations & use CARB diesel fuel; >= 25 hp: Comply with the Regulation for In-Use Off-Road Diesel-Fueled Fleets
	Basis:	Achieved in Practice
CO	Standard:	See Comments Below
	Technology Description:	<25 hp: Comply with EPA nonroad regulations & use CARB diesel fuel; >= 25 hp: Comply with the Regulation for In-Use Off-Road Diesel-Fueled Fleets
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: For all criteria pollutants: < 25 hp: Comply w/EPA nonroad regulations & use CARB diesel fuel; >= 50 hp: Comply with the Regulation for In-Use Off-Road Diesel-Fueled Fleets. This BACT applies to self-propelled diesel fueled IC engines not subject to the portable ATCM. TBACT is equivalent to BACT.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

IC ENGINE COMP. - NON-ROAD

BACT Category: MINOR SOURCE

BACT Determination Number: 238	BACT Determination Date 10/18/2019	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: IC ENGINE NON-ROAD/PORTABLE
Unit Size/Rating/Capacity: ALL SIZES
Equipment Location:

BACT Determination Information

District Contact: Joe Carle Phone No.: (916) 874 - 4838 email: jcarle@airquality.org

ROCs	Standard:	See Comment Below
	Technology Description:	< 50 hp: Comply w/ EPA nonroad regulations & use CARB diesel fuel, >= 50 hp: Comply with the ATCM for portable CI engines
	Basis:	Achieved in Practice
NOx	Standard:	See Comment Below
	Technology Description:	< 50 hp: Comply w/ EPA nonroad regulations & use CARB diesel fuel, >= 50 hp: Comply with the ATCM for portable CI engines
	Basis:	Achieved in Practice
SOx	Standard:	See Comment Below
	Technology Description:	< 50 hp: Comply w/ EPA nonroad regulations & use CARB diesel fuel, >= 50 hp: Comply with the ATCM for portable CI engines
	Basis:	Achieved in Practice
PM10	Standard:	See Comment Below
	Technology Description:	< 50 hp: Comply w/ EPA nonroad regulations & use CARB diesel fuel, >= 50 hp: Comply with the ATCM for portable CI engines
	Basis:	Achieved in Practice
PM2.5	Standard:	See Comment Below
	Technology Description:	< 50 hp: Comply w/ EPA nonroad regulations & use CARB diesel fuel, >= 50 hp: Comply with the ATCM for portable CI engines
	Basis:	Achieved in Practice
CO	Standard:	See Comment Below
	Technology Description:	< 50 hp: Comply w/ EPA nonroad regulations & use CARB diesel fuel, >= 50 hp: Comply with the ATCM for portable CI engines
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: For all criteria pollutants : < 50 hp: Comply w/ EPA nonroad regulations & use CARB diesel fuel, >= 50 hp: Comply with the ATCM for portable CI engines

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

IC ENGINE SPARK-PRIME

BACT Category: MAJOR & MINOR SOURCE

BACT Determination Number: 241	BACT Determination Date 6/3/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: IC ENGINE NON-ROAD/PORTABLE - GASOLINE
Unit Size/Rating/Capacity: > 50 hp and 1 liter displacement
Equipment Location:

BACT Determination Information

District Contact: Jeff Weiss Phone No.: (916) 874 - 4862 email: jweiss@airquality.org

ROCs	Standard:	
	Technology Description:	HC+NOx ≤ 0.6 g/hp-hr and CO ≤ 15.4 g/hp-hr except for severe duty engines which must emit HC+NOx ≤ 2.0 g/hp-hr and CO ≤ 96.9 g/hp-hr.
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	HC+NOx ≤ 0.6 g/hp-hr and CO ≤ 15.4 g/hp-hr except for severe duty engines which must emit HC+NOx ≤ 2.0 g/hp-hr and CO ≤ 96.9 g/hp-hr.
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	Use California Reformulated Gasoline or equivalent.
	Basis:	Achieved in Practice
PM10	Standard:	
	Technology Description:	No crankcase emissions released to atmosphere.
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	No crankcase emissions released to atmosphere.
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	CO ≤ 2.0 g/hp-hr or 176 ppmvd at 15% oxygen as methane; NOx ≤ 1.5 g/hp-hr or 80 ppmvd at 15% oxygen; and VOC ≤ 1.5 g/hp-hr or 240 ppmvd as methane at 15% oxygen if neither BACT for VOC or NOx is triggered.
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: BACT for VOC also requires that fuel lines be metallic or SAE J2260 Category 1 products. No crankcase emissions may be released into the atmosphere.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

IC ENGINE SPARK - PRIME

BACT Category: MINOR SOURCE

BACT Determination Number: 223	BACT Determination Date 4/2/2019	ACTIVE
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Equipment Information

Permit Number: 26066
Equipment Description: IC ENGINE PRIME POWER
Unit Size/Rating/Capacity: 778 BHP
Equipment Location: GENERATE GALT DIGESTER, LLC DBA MAAS ENERGY WORKS
 9547 NEW HOPE RD GALT, CA

Expires - 4/1/2021

BACT Determination Information

District Contact: Felix Trujillo Phone No.: (916) 874 - 7357 email: ftrujillo@airquality.org

ROCs	Standard:	See comment window
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	11 ppmvd @ 15% O2
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	40 ppmv as H2S in the fuel stream
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	40 ppmv as H2S in the fuel stream
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	40 ppmv as H2S in the fuel stream
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	1.8 g/bhp-hr or 250 ppmvd @ 15% O2
	Technology Description:	
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: This BACT is for Bio gas fired engines only.
 VOC: 0.1 g/bhp-hr for lean burn engine or 30 ppmvd @ 3% O2 for rich burn or lean burn engines.
 T-BACT: Formaldehyde: Use of an oxidation catalyst.
 Ammonia Slip: 10 ppmvd @ 15% O2.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

INCINERATOR/CREMATORY

BACT Category: MINOR SOURCE

BACT Determination Number: 232	BACT Determination Date 8/11/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: CREMATORY - ANIMAL
Unit Size/Rating/Capacity: 4.5 MMBtu/hr
Equipment Location:

BACT Determination Information

District Contact: Felix Trujillo Phone No.: (916) 874 - 7357 email: ftrujillo@airquality.org

ROCs	Standard:	No Standard
	Technology Description:	Natural gas fired and secondary combustion chamber (afterburner)=> 1600 F
	Basis:	Achieved in Practice
NOx	Standard:	60 ppm at 30% O2 or 0.073 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	No Standard
	Technology Description:	Natural gas fired
	Basis:	Achieved in Practice
PM10	Standard:	No Standard
	Technology Description:	Natural gas fired with secondary chamber operating at => 1600 F
	Basis:	Achieved in Practice
PM2.5	Standard:	No Standard
	Technology Description:	Natural gas fired with secondary chamber operating at => 1600 F
	Basis:	Achieved in Practice
CO	Standard:	No Standard
	Technology Description:	Secondary chamber => 1500 F
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: NOx standard is based on emissions from natural gas combustion only (not with the charge). BACT was based on a total burner rating of 4.5 MMBtu/hr operating at 4,380 hours/year (19,710 MMBtu/year) for natural gas combustion and a charge rate of 677 ton/year for the combustion of the animals. TBACT was determined to be equivalent to BACT.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

INCINERATOR/CREMATORY

BACT Category: MINOR SOURCE

BACT Determination Number: 212	BACT Determination Date 1/3/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: CREMATORY - HUMAN
Unit Size/Rating/Capacity: ALL
Equipment Location:

BACT Determination Information

District Contact: Venk Reddy Phone No.: 916-874-4861 email: vreddy@airquality

ROCs	Standard:	None
	Technology Description:	Use of natural gas and a secondary combustion Chanber (afterburner) => 1600F
	Basis:	
NOx	Standard:	60 PPM @ 3% O2
	Technology Description:	or 0.73 lb/MMBTU
	Basis:	
SOx	Standard:	None
	Technology Description:	Natural gas fired
	Basis:	
PM10	Standard:	None
	Technology Description:	Use of natural gas and a secondary combustion Chanber (afterburner) => 1600F
	Basis:	
PM2.5	Standard:	None
	Technology Description:	
	Basis:	
CO	Standard:	None
	Technology Description:	Use of natural gas and a secondary combustion Chanber (afterburner) => 1500F
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: None

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

MATERIAL PROCESSING

BACT Category: MINOR SOURCE

BACT Determination Number: 220	BACT Determination Date 5/24/2019	ACTIVE
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Equipment Information

Permit Number: 25938		
Equipment Description:	Volumetric Truck Based Concrete/Gunite Plants	
Unit Size/Rating/Capacity:	ALL	
Equipment Location:	Triple-G-Gunite, Inc. 9200 ELDER CREEK RD SACRAMENTO, CA	

BACT Determination Information

District Contact: Felix Trujillo Phone No.: (916) 874 - 7357 email: ftrujillo@airquality.org

ROCs	Standard:	
	Technology Description:	
	Basis:	
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	
	Technology Description:	Reference comment section.
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Reference comment section.
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: T-BACT is considered to be equivalent to BACT.

PM10/PM2.5 Requirements: 1. Storage Piles adequately wetted to prevent visible emissions > 5%. 2. Enclosed silo vented to a control device with 99% efficiency (baghouse, bin vent or equivalent). 3. Loadout screw/auger served by a flexible chute that extends into the cement compartment.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

METAL CUTTING

BACT Category: MINOR SOURCE

BACT Determination Number: 233	BACT Determination Date 12/20/2019	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: Plasma Arc Metal Cutting Torch
Unit Size/Rating/Capacity: ALL
Equipment Location:

BACT Determination Information

District Contact: Felix Trujillo Phone No.: (916) 874 - 7357 email: ftrujillo@airquality.org

ROCs	Standard:	
	Technology Description:	
	Basis:	
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	99.9% Control Efficiency
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	
	Basis:	
CO	Standard:	
	Technology Description:	
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: T-BACT was determined to be equivalent to BACT.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

MISELLANEOUS

BACT Category: MINOR SOURCE BACT

BACT Determination Number: 275	BACT Determination Date 10/20/2020	ACTIVE
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Equipment Information

Permit Number: 26688
Equipment Description: NUT SEASONING OPERATION
Unit Size/Rating/Capacity: 7500 CFM
Equipment Location: 1802 C ST SACRAMENTO, CA

BACT Determination Information

District Contact: Jeff Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	No Standard
	Technology Description:	
	Basis:	
NOx	Standard:	No Standard
	Technology Description:	
	Basis:	
SOx	Standard:	No Standard
	Technology Description:	
	Basis:	
PM10	Standard:	99% Control
	Technology Description:	Fabric filter, baghouse, or equivalent
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Compliance with PM10 BACT Standard
	Basis:	Achieved in Practice
CO	Standard:	No Standard
	Technology Description:	
	Basis:	
LEAD	Standard:	No Standard
	Technology Description:	
	Basis:	

Comments:

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

OVEN/KILN

BACT Category: Minor Source BACT

BACT Determination Number: 265	BACT Determination Date 8/25/2020	ACTIVE
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Equipment Information

Permit Number: 26573
Equipment Description: DRYING OVEN
Unit Size/Rating/Capacity: 14 MMBtu/hr, direct & natural gas-fired
Equipment Location: HUHTAMAKI, INC
 8450 GERBER RD SACRAMENTO, CA

BACT Determination Information

District Contact: Michelle Joe Phone No.: (916) 874 - 4853 email: mjoe@airquality.org

ROCs	Standard:	No standard
	Technology Description:	
	Basis:	
NOx	Standard:	20 ppm @ 3% O2
	Technology Description:	Ultra-Low Nox Burner
	Basis:	Achieved in Practice
SOx	Standard:	Natural gas fueled
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	Natural gas fueled
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	Natural gas fueled
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	395.6 ppmvd @ 3% O2
	Technology Description:	
	Basis:	Achieved in Practice
LEAD	Standard:	N/A
	Technology Description:	
	Basis:	

Comments: Updates previous BACT #168 (expired 10/31/19).

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

PRINTING PROCESS

BACT Category: MINOR SOURCE

BACT Determination Number: 250	BACT Determination Date 3/24/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PRINTING PRESS
Unit Size/Rating/Capacity: Lithographic Offset Heatset
Equipment Location:

BACT Determination Information

District Contact: Joe Carle Phone No.: (916) 874 - 4838 email: jcarle@airquality.org

ROCs	Standard:	98% control efficiency
	Technology Description:	Dryer waste gas vented to a control device with 98% control efficiency or an outlet VOC concentration of 10 ppmv and compliance with the material limits in SMAQMD Rule 450 Sections 301 and 302.
	Basis:	Achieved in Practice
NOx	Standard:	30 ppmvd @ 3% O2
	Technology Description:	Dryer combustion emissions no more than 30 ppmvd @ 3% O2
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	No standard
	Basis:	
PM10	Standard:	VOC Control Device
	Technology Description:	Vent dryer waste gas to a VOC control device
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	No standard
	Basis:	
CO	Standard:	Natural Gas Fueled Dryer
	Technology Description:	Natural gas fuel used in drying oven
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	No standard
	Basis:	

Comments: This is a generic BACT determination based on BACT determinations made, and published, by other air agencies in California and/or other States.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

PRINTING PROCESS

BACT Category: MINOR SOURCE

BACT Determination Number: 251	BACT Determination Date 3/24/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PRINTING PRESS
Unit Size/Rating/Capacity: Lithographic Offset Non-Heatset
Equipment Location:

BACT Determination Information

District Contact: Joe Carle Phone No.: (916) 874 - 4838 email: jcarle@airquality.org

ROCs	Standard:	Low VOC Materials
	Technology Description:	Compliance with the material limits in SMAQMD Rule 450 Sections 301 and 302. If the total uncontrolled VOC emissions from the unit are $\geq 6,480$ lbs per year then a VOC control system must be installed with at least 98.5% overall system efficiency (capture and destruction).
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	No standard
	Basis:	
SOx	Standard:	
	Technology Description:	No standard
	Basis:	
PM10	Standard:	
	Technology Description:	No standard
	Basis:	
PM2.5	Standard:	
	Technology Description:	No standard
	Basis:	
CO	Standard:	
	Technology Description:	No standard
	Basis:	
LEAD	Standard:	
	Technology Description:	No standard
	Basis:	

Comments: This is a generic BACT determination based on BACT determinations made, and published, by other air agencies in California and/or other States.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

PRINTING PROCESS

BACT Category: Digital Printer

BACT Determination Number: 263	BACT Determination Date 9/22/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PRINTING PRESS
Unit Size/Rating/Capacity: < 12,667 lbs uncontrolled VOC
Equipment Location:

BACT Determination Information

District Contact: Jeff Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	1.Integral air pollution control system, consisting of an oil/water separator and refrigerated condenser, with an assumed control efficiency of 80%(A) or equivalent system. 2.Use of materials compliant with SMAQMD Rule 466 – Solvent Cleaning.
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	No Standard
	Basis:	
SOx	Standard:	
	Technology Description:	No Standard
	Basis:	
PM10	Standard:	
	Technology Description:	No Standard
	Basis:	
PM2.5	Standard:	
	Technology Description:	No Standard
	Basis:	
CO	Standard:	
	Technology Description:	No Standard
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: T-BACT:
 1.A VOC control device that has an overall system efficiency (collection and destruction) of at least 98.5% for VOC.
 2.Use of materials compliant with SMAQMD Rule 466 – Solvent Cleaning.
 3.Comply with VOC emission standards of SMAQMD Rule 441 – Organic Solvents.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

PRINTING PROCESS

BACT Category: Digital Printer

BACT Determination Number: 264	BACT Determination Date 9/22/2020	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PRINTING PRESS
Unit Size/Rating/Capacity: ≥ 12,667 LBS UNCONTROLLED VOC PER YEAR
Equipment Location:

BACT Determination Information

District Contact: Jeff Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	1.A VOC control device that has an overall system efficiency (collection and destruction) of at least 98.5% for VOC. 2.Use of materials compliant with SMAQMD Rule 466 – Solvent Cleaning.
	Basis:	Cost Effective
NOx	Standard:	
	Technology Description:	No Standard
	Basis:	
SOx	Standard:	
	Technology Description:	No Standard
	Basis:	
PM10	Standard:	
	Technology Description:	No Standard
	Basis:	
PM2.5	Standard:	
	Technology Description:	No Standard
	Basis:	
CO	Standard:	
	Technology Description:	No Standard
	Basis:	
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: T-BACT is equivalent to BACT

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

SOIL REMEDIATION

BACT Category: SMALL EMITTER (PTE < 10 LBS/DAY)

BACT Determination Number: 224	BACT Determination Date 6/4/2019	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: SOIL VAPOR EXTRACTION (SVE)
Unit Size/Rating/Capacity: Soil Vapor Extraction with VOC < 10 lb/day
Equipment Location:

BACT Determination Information

District Contact: Michelle Joe Phone No.: (916) 874 - 4853 email: mjoe@airquality.org

ROCs	Standard:	9.9 lb/day and % control based on influent
	Technology Description:	IC Engines, Thermal Oxidizers, Catalytic Oxidizers, or Carbon Adsorption that achieve the control efficiency requirements stated below.
	Basis:	Achieved in Practice
NOx	Standard:	(see additional BACT for technology below)
	Technology Description:	IC Engines, Thermal Oxidizers, or Catalytic Oxidizers that meet the APC-specific requirements in the BACT determination evaluation.
	Basis:	Achieved in Practice
SOx	Standard:	(see additional BACT for technology below)
	Technology Description:	IC Engines, Thermal Oxidizers, or Catalytic Oxidizers that meet the APC-specific requirements in the BACT determination evaluation.
	Basis:	Achieved in Practice
PM10	Standard:	(see additional BACT for technology below)
	Technology Description:	IC Engines, Thermal Oxidizers, or Catalytic Oxidizers that meet the APC-specific requirements in the BACT determination evaluation.
	Basis:	Achieved in Practice
PM2.5	Standard:	(see additional BACT for technology below)
	Technology Description:	IC Engines, Thermal Oxidizers, or Catalytic Oxidizers that meet the APC-specific requirements in the BACT determination evaluation.
	Basis:	Achieved in Practice
CO	Standard:	(see additional BACT for technology below)
	Technology Description:	IC Engines, Thermal Oxidizers, or Catalytic Oxidizers that meet the APC-specific requirements in the BACT determination evaluation.
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: For Effluent VOC Concentrations <= 10 ppmv, no required % control efficiency.
 For Influent VOC Concentrations >= 2,000 ppmv, at least 98.5% control efficiency required.
 For Influent VOC Concentrations >= 200 ppmv and < 2,000 ppmv, at least 97% control efficiency required.
 For Influent VOC Concentrations < 200 ppmv at least 90% control efficiency required.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

SULFUR BURNER

BACT Category: MINOR SOURCE

BACT Determination Number: 221	BACT Determination Date 8/15/2019	ACTIVE
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Equipment Information

Permit Number: 25908
Equipment Description: SULFUR BURNER
Unit Size/Rating/Capacity: < 1200°F and < 69 MMBtu/hr
Equipment Location: THATCHER COMPANY OF CALIFORNIA
 8625 UNSWORTH AVE SACRAMENTO, CA

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	Natural gas fuel or equivalent, Good combustion practices, Scrubber (using soda ash) with demister
	Basis:	Achieved in Practice
NOx	Standard:	30 ppmvd @ 3% O2 <1200°F
	Technology Description:	During Startup/Shutdown (NG Combustion), For units ≥ 325,000 BTU/hr: 30 ppmvd @ 3% O2 <1200°F, Normal Operation (Sulfur Combustion): 15 ppmvd @ 3% O2
	Basis:	Achieved in Practice
SOx	Standard:	300 ppmvd @ 3% O2
	Technology Description:	Natural gas fuel or equivalent, Good combustion practices, Scrubber (using soda ash) with demister
	Basis:	Achieved in Practice
PM10	Standard:	
	Technology Description:	Natural gas fuel or equivalent, Good combustion practices, Scrubber (using soda ash) with demister
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Natural gas fuel or equivalent, Good combustion practices, Scrubber (using soda ash) with demister
	Basis:	Achieved in Practice
CO	Standard:	1.400 ppmvd @ 3% O2 or 0.3 lb/MMBtu
	Technology Description:	Natural gas fuel or equivalent, Good combustion practices
	Basis:	Achieved in Practice
LEAD	Standard:	
	Technology Description:	
	Basis:	

Comments: T-BACT is natural gas fuel or equivalent, good combustion practices, scrubber (using soda ash) with demister

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

SULFUR PROCESS UNIT

BACT Category: MINOR SOURCE

BACT Determination Number: 222	BACT Determination Date 8/15/2019	ACTIVE
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Equipment Information

Permit Number: 25277
Equipment Description: Sulfur Absorbtion Train System
Unit Size/Rating/Capacity: ALL
Equipment Location: THATCHER COMPANY OF CALIFORNIA
 8625 UNSWORTH AVE SACRAMENTO, CA

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (916) 874-4863 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	No Standard
	Basis:	
NOx	Standard:	15 ppmvd @ 3% O2
	Technology Description:	15 ppmvd @ 3% O2 (excluding start up and shutdown)
	Basis:	Achieved in Practice
SOx	Standard:	18 ppm SOx as SO2 @ 3% O2
	Technology Description:	Scrubber (using soda ash) with demister – 18 ppm SOx as SO2 @ 3% O2
	Basis:	Achieved in Practice
PM10	Standard:	0.20 grams/dscm @ 12% CO2
	Technology Description:	Scrubber (using soda ash) with demister – 0.20 grams/dscm @ 12% carbon dioxide at standard conditions (0.0874 grains/dscf)
	Basis:	Achieved in Practice
PM2.5	Standard:	0.20 grams/dscm @ 12% CO2
	Technology Description:	Scrubber (using soda ash) with demister – 0.20 grams/dscm @ 12% carbon dioxide at standard conditions (0.0874 grains/dscf)
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	No Standard
	Basis:	
LEAD	Standard:	
	Technology Description:	No Standard
	Basis:	

Comments: T-BACT is Scrubber (using soda ash) with demister