

SACRAMENTO METROPOLITAN



AIR QUALITY
MANAGEMENT DISTRICT

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: 01-09-2023

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

APC - MISCELLANEOUS

BACT Category: SMALL EMITTER BACT (PTE < 10 LB/D)

BACT Determination Number: 322	BACT Determination Date 11/28/2022	ACTIVE
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Equipment Information

Permit Number: 27357
Equipment Description: WATER EVAPORATOR
Unit Size/Rating/Capacity: ≥ 1 to < 2 MMBTU/hr
Equipment Location: ADESA CALIFORNIA, LLC DBA ADESA SACRAMENTO
 8649 KIEFER BLVD SACRAMENTO, CA

BACT Determination Information

District Contact: Quintin Phan Phone No.: (279) 207-1143 email: qphan@airquality.org

ROCs	Standard:	No Standard
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	No Standard
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	No Standard
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	No Standard
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	No Standard
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	No Standard
	Technology Description:	
	Basis:	Achieved in Practice

Comments

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

APC - OXIDIZER

BACT Category: Small Emitter BACT (PTE < 10 lb/day)

BACT Determination Number: 298	BACT Determination Date 12/2/2021	ACTIVE
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Equipment Information

Permit Number: 27005
Equipment Description: APC THERMAL OXIDIZER
Unit Size/Rating/Capacity: Afterburner, Degassing Unit, Remediation Unit, Thermal Oxidizer, Catalytic Oxidizer or Vapor Inci
Equipment Location: AGILENT TECHNOLOGIES, INC - REGULATORY FEE #131814
 91 BLUE RAVINE ROAD FOLSOM, CA

BACT Determination Information

District Contact: Quintin Phan Phone No.: (279) 207-1143 email: qphan@airquality.org

ROCs	Standard:	
	Technology Description:	
	Basis:	
NOx	Standard:	30 ppm at 3% O2
	Technology Description:	Afterburner, Degassing Unit, Remediation Unit, Thermal Oxidizer, Catalytic Oxidizer or Vapor Incinerator
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	
	Technology Description:	
	Basis:	
PM2.5	Standard:	
	Technology Description:	
	Basis:	
CO	Standard:	
	Technology Description:	
	Basis:	

Comments Does not include tank degassing, soil vapor extraction, and vapor incinerators where vapors are directed into the burner or into a combustion chamber.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

ASPHALT PLANT

BACT Category: Minor Source

BACT Determination Number: 293	BACT Determination Date 6/22/2022	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: Material Handling, Storage, Stockpiles & Loadout
Unit Size/Rating/Capacity: All
Equipment Location:

BACT Determination Information

District Contact: Felix Trujillo, Jr. Phone No.: (279)207-1154 email: ftrujillo@airquality.org

ROCs	Standard:	
	Technology Description:	See BACT #293 evaluation for requirements.
	Basis:	Achieved in Practice
NOx	Standard:	33 ppmvd @ 3% O2
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	See BACT #293 evaluation for requirements.
	Basis:	Achieved in Practice
PM10	Standard:	
	Technology Description:	See BACT #293 evaluation for requirements.
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	See BACT #293 evaluation for requirements.
	Basis:	Achieved in Practice
CO	Standard:	400 ppmvd @ 3% O2
	Technology Description:	
	Basis:	Achieved in Practice

Comments T-BACT is equivalent to BACT. This BACT determination is for drum mix and batch mix asphalt plants.
 The use of an afterburner is technologically feasible. The cost effectiveness analysis shall be performed as part of the specific project.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

BOILER/HEATER < 5 MMBTU

BACT Category: Boilers 2-5 MMBtu/hr Natural Gas

BACT Determination Number: 309	BACT Determination Date 7/20/2022	ACTIVE
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Equipment Information

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

BACT Determination Information

District Contact: Jeff Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	Good combustion practice and use of natural gas
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	See Comments
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	Good combustion practice and use of natural gas
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	Good combustion practice and use of natural gas
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	Good combustion practice and use of natural gas
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	See Description Below
	Technology Description:	Firetube Boilers: 50 ppmvd at 3% O2 Watertube Boilers: 100 ppmvd at 3% O2
	Basis:	Achieved in Practice

Comments BACT for NOx:
 Any unit fired on natural gas, excluding fire-tube boilers, atmospheric units, and thermal fluid heaters: 9 ppmvd at 3% O2
 Any fire-tube boilers on natural gas: 7 ppmvd corrected to 3% O2
 Atmospheric units and thermal fluid heaters: 12 ppmvd at 3% O2

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

BOILER/HEATER < 5 MMBTU

BACT Category: Boiler 2-5 MMBtu/hr LPG

BACT Determination Number: 310	BACT Determination Date 7/20/2022	ACTIVE
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Equipment Information

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

BACT Determination Information

District Contact: Jeff Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	Good combustion practice and use of LPG
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	See Comments
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	Good combustion practice and use of LPG
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	Good combustion practice and use of LPG
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	Good combustion practice and use of LPG
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	See Description Below
	Technology Description:	Firetube Boilers: 50 ppmvd at 3% O2 Watertube Boilers: 100 ppmvd at 3% O2
	Basis:	Achieved in Practice

Comments BACT for NOx:
 Non-atmospheric units: 9 ppmvd at 3% O2
 Atmospheric units: 12 ppmvd at 3% O2

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

BOILER/HEATER < 5 MMBTU

BACT Category: Small Emitter BACT (PTE < 10 lb/day)

BACT Determination Number: 299	BACT Determination Date 2/3/2022	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: BOILER AND WATER HEATERS ONLY
Unit Size/Rating/Capacity: NG ≥ 75,000 Btu/hr & < 2.0 MMBtu/hr
Equipment Location:

BACT Determination Information

District Contact: Joe Carle Phone No.: (279) 207-1121 email: jcarle@airquality.org

ROCs	Standard:	See Technology Description
	Technology Description:	Use good combustion practices
	Basis:	Achieved in Practice
NOx	Standard:	See Technology Description
	Technology Description:	Units rated < 1.0 MMBtu/hr must meet 20 ppmvd @ 3% oxygen; Units rated ≥ 1.0 MMBtu/hr must meet 12 ppmvd @ 3% oxygen
	Basis:	Achieved in Practice
SOx	Standard:	See Technology Description
	Technology Description:	Use PUC quality natural gas or produced gas treated using a continuously operating sulfur removal system (≤ 80 ppmv total sulfur & ≤ 4 ppmv H2S)
	Basis:	Achieved in Practice
PM10	Standard:	See Technology Description
	Technology Description:	Use PUC quality natural gas or produced gas treated using a continuously operating sulfur removal system (≤ 80 ppmv total sulfur & ≤ 4 ppmv H2S)
	Basis:	Achieved in Practice
PM2.5	Standard:	See Technology Description
	Technology Description:	Use PUC quality natural gas or produced gas treated using a continuously operating sulfur removal system (≤ 80 ppmv total sulfur & ≤ 4 ppmv H2S)
	Basis:	Achieved in Practice
CO	Standard:	See Technology Description
	Technology Description:	Units rated < 0.4 MMBtu/hr must meet 50 ppmvd at 3% oxygen; Units rated ≥ 0.4 MMBtu/hr must meet 100 ppmvd at 3% oxygen
	Basis:	Achieved in Practice

Comments This determination does not apply to process heaters or make-up air heaters.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

BOILER/HEATER < 5 MMBTU

BACT Category: Small Emitter BACT (PTE < 10 lb/day)

BACT Determination Number: 300	BACT Determination Date 2/3/2022	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: BOILERS AND WATER HEATERS ONLY
Unit Size/Rating/Capacity: LPG ≥ 75,000 Btu/hr & < 2.0 MMBtu/hr
Equipment Location:

BACT Determination Information

District Contact: Joe Carle Phone No.: (279) 207-1121 email: jcarle@airquality.org

ROCs	Standard:	See Technology Description
	Technology Description:	Use of good combustion practices
	Basis:	Achieved in Practice
NOx	Standard:	See Technology Description
	Technology Description:	Units rated < 0.4 MMBtu/hr must meet 77 ppmvd @ 3% oxygen; Units rated ≥ 0.4 MMBtu/hr must meet 30 ppmvd @ 3% oxygen
	Basis:	Achieved in Practice
SOx	Standard:	See Technology Description
	Technology Description:	Use of good combustion practices
	Basis:	Achieved in Practice
PM10	Standard:	See Technology Description
	Technology Description:	Use of good combustion practices
	Basis:	Achieved in Practice
PM2.5	Standard:	See Technology Description
	Technology Description:	Use of good combustion practices
	Basis:	Achieved in Practice
CO	Standard:	See Technology Description
	Technology Description:	Units rated < 0.4 MMBTU/hr must use good combustion practices; Units rated ≥ 0.4 MMBTU/hr must meet 400 ppmvd @ 3% oxygen
	Basis:	Achieved in Practice

Comments This determination does not apply to process heaters or make-up air heaters.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

BOILER/HEATER > 5 MMBTU

BACT Category: Small Emitter BACT (PTE < 10 lb/day)

BACT Determination Number: 283	BACT Determination Date 9/7/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: BOILER
Unit Size/Rating/Capacity: ≥ 5 MMBtu/hr to ≤ 20 MMBtu/hr
Equipment Location:

BACT Determination Information

District Contact: Jeff Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	Good combustion practice and natural gas or LPG fuel
	Basis:	Achieved in Practice
NOx	Standard:	
	Technology Description:	For firetube boilers: 7 ppm at 3% O2 or 0.0085 lbs/106 Btu, Non-atmospheric units: 9 ppmvd at 3% O2 or 0.0085 lbs/106 Btu, Atmospheric units and thermal fluid heaters: 12 ppmvd at 3% O2 or 0.015 lbs/106 Btu
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	Good combustion practice and natural gas or LPG fuel
	Basis:	Achieved in Practice
PM10	Standard:	
	Technology Description:	Good combustion practice and natural gas or LPG fuel
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Good combustion practice and natural gas or LPG fuel
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	Firetube Boilers: 50 ppmvd at 3% O2, Watertube Boilers: 100 ppmvd at 3% O2
	Basis:	Achieved in Practice

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:

BOTTLE STERILIZER

BACT Category: MINOR SOURCE

BACT Determination Number: 274	BACT Determination Date 3/9/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: BOTTLE STERILIZER
Unit Size/Rating/Capacity: ≤ 150 ppmv VOC & ≤ 2,000 cfm
Equipment Location:

EXPIRES 3/8/2023

BACT Determination Information

District Contact: JEFF WEISS Phone No.: (279) 207-1155 email: jweiss@airquality.org

ROCs	Standard:	Refer to Comment Section (below)
	Technology Description:	Refer to Comment Section (below)
	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:	

Comments Sterilization of food containers ≤ 200 g/l VOC or vent to APC device of 90% collection and 95% control efficiency. Sterilization of production equipment ≤ 200 g/l VOC or vent to APC device of 90% collection and 95% control efficiency. Cleaning of production equipment ≤ 25 g/l (0.21 lb/gal) VOC, or vent to APC device of 90% collection and 95% control efficiency, or an output of less than 50 ppm VOC calculated as carbon with no dilution.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - ADHESIVES

BACT Category: MINOR SOURCE BACT

BACT Determination Number: 320	BACT Determination Date 11/16/2022	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: ADHESIVE APPLICATION
Unit Size/Rating/Capacity: ≤ 7,404 LBS VOC/YEAR
Equipment Location:

BACT Determination Information

District Contact: Jeff Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	See Technology Description
	Technology Description:	Compliance with SMAQMD Rule 460(A) and BACT #320/321 VOC limits (see Tables 1-9 in BACT evaluation)
	Basis:	Achieved in Practice
NOx	Standard:	See Technology Description
	Technology Description:	For heaters < 1,200°F: 20 ppm or 0.024 lb/MMBtu For heaters ≥ 1,200°F: 30 ppm or 0.036 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	No standard
	Technology Description:	
	Basis:	
PM10	Standard:	Spray booth with dry filters or waterwash
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	Spray booth with dry filters or waterwash
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	For heaters, low NOx burner, 400 ppmvd @ 3% O2
	Technology Description:	
	Basis:	Achieved in Practice

Comments T-BACT is compliance with SMAQMD Rule 460(A) BACT #320/321 VOC limits (see Tables 1-9 in BACT Evaluation) and emission limits of Table 3 to Subpart JJ of Part 63.

(A)Compliance with SMAQMD Rule 460 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.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - ADHESIVES

BACT Category: MINOR SOURCE BACT

BACT Determination Number: 321	BACT Determination Date 11/16/2022	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: ADHESIVE APPLICATION
Unit Size/Rating/Capacity: > 7,404 LBS VOC/YEAR
Equipment Location:

BACT Determination Information

District Contact: Jeff Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	See Technology Description
	Technology Description:	Compliance with SMAQMD Rule 460(A) and BACT 320/321 VOC limits (see Tables 1-9 in BACT Evaluation) and VOC control system with ≥90% collection efficiency and ≥95% destruction efficiency
	Basis:	Cost Effective
NOx	Standard:	See Technology Description
	Technology Description:	For heaters < 1,200°F: 20 ppm or 0.024 lb/MMBtu For heaters ≥ 1,200°F: 30 ppm or 0.036 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	No standard
	Technology Description:	
	Basis:	
PM10	Standard:	Spray booth with dry filters or waterwash
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	Spray booth with dry filters or waterwash
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	For heaters, low NOx burner, 400 ppmvd @ 3% O2
	Technology Description:	
	Basis:	Achieved in Practice

Comments T-BACT is compliance with SMAQMD Rule 460(A) BACT #320/321 VOC limits (see Tables 1-9 in BACT evaluation), emission limits of Table 3 to Subpart JJ of Part 63 and VOC control system with ≥90% collection efficiency and ≥ 95% destruction efficiency.

(A)Compliance with SMAQMD Rule 460 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.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - AEROSPACE

BACT Category: MINOR SOURCE BACT

BACT Determination Number: 318	BACT Determination Date 9/7/2022	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PAINT SPRAY BOOTH
Unit Size/Rating/Capacity: ≤ 7,404 LBS VOC/YEAR
Equipment Location:

BACT Determination Information

District Contact: Jeff Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	See Description Below
	Technology Description:	1.Compliance with SMAQMD Rule 456 and aerospace coatings BACT VOC limits (see Tables 1-3 in BACT evaluation) 2.Use of an enclosed gun cleaner
	Basis:	Achieved in Practice
NOx	Standard:	For heaters < 1200° F: 20 ppm or 0.024 lb/MMBtu, for heaters ≥ 1200 ° F: 30 ppm or 0.036 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	No Standard
	Technology Description:	
	Basis:	
PM10	Standard:	Enclosed paint booth with use of dry filters and use of HVLP, properly maintained
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	No Standard
	Technology Description:	
	Basis:	
CO	Standard:	For heaters: 400 ppm corrected to 3% O2
	Technology Description:	
	Basis:	Achieved in Practice

Comments For T-BACT see evaluation

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - AEROSPACE

BACT Category: MINOR SOURCE BACT

BACT Determination Number: 319	BACT Determination Date 9/7/2022	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PAINT SPRAY BOOTH
Unit Size/Rating/Capacity: > 7,404 LBS VOC PER YEAR
Equipment Location:

BACT Determination Information

District Contact: Jeff Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	See Description Below
	Technology Description:	1.Compliance with SMAQMD Rule 456 and aerospace coatings BACT VOC limits 2.Use of enclosed gun cleaner 3.VOC control system with overall capture efficiency ≥90% by weight
	Basis:	Achieved in Practice
NOx	Standard:	For heaters < 1200° F: 20 ppm or 0.024 lb/MMBtu, for heaters ≥ 1200 ° F: 30 ppm or 0.036 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	No standard
	Technology Description:	
	Basis:	
PM10	Standard:	Enclosed paint booth with use of dry filters and use of HVLP, properly maintained
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	No standard
	Technology Description:	
	Basis:	
CO	Standard:	For heaters: 400 ppm corrected to 3% O2
	Technology Description:	
	Basis:	Achieved in Practice

Comments For T-BACT see evaluation

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - AUTO BODY

BACT Category: MINOR SOURCE

BACT Determination Number: 252	BACT Determination Date 2/22/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination

Equipment Description: PAINT SPRAY BOOTH

EXPIRES 2/21/2023

Unit Size/Rating/Capacity: ≤ 7,405 lbs VOC/year

Equipment Location:

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	1.Compliance with SMAQMD Rule 459 2.For heaters, use of natural gas or LPG fired burner
	Basis:	Achieved in Practice
NOx	Standard:	30 ppmvd @ 3% O@ or 0.036 lb/MMBtu/hr
	Technology Description:	1.For heaters, low NOx burner, 30 ppmvd @ 3% O2 or 0.036 lb/MMBtu/hr 2.Natural gas or LPG fired burner
	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.Spray booth with dry filters or waterwash, properly maintained, 98% PM control efficiency, 0.0015 gr/dcsf 2.HVLP spray or equivalent application equipment 3.For heaters, natural gas or LPG fired burner
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	1.Spray booth with dry filters or waterwash, properly maintained, 98% PM control efficiency, 0.0015 gr/dcsf 2.HVLP spray or equivalent application equipment 3.For heaters, natural gas or LPG fired burner
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	For heaters, natural gas or LPG fired burner
	Basis:	Achieved in Practice

Comments T-BACT:

1. Spray booth with filter system, 98% PM control efficiency, HVLP spray equipment or equivalent technology
2. Coatings with VOC content compliant with BAAQMD Reg. 8, Rule 45 and transfer efficiency complying with Reg. 8, Rule 45
- 3.VOC emission controlled to overall capture/destruction efficiency ≥ 90% by weight

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - AUTO BODY

BACT Category: MINOR SOURCE

BACT Determination Number: 253	BACT Determination Date 2/22/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination

Equipment Description: PAINT SPRAY BOOTH

EXPIRES 2/21/2023

Unit Size/Rating/Capacity: > 7,405 lb VOC/year

Equipment Location:

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	1. Coatings with VOC content and transfer efficiency complying with Reg. 8, Rule 45, and emission controlled to overall capture/destruction efficiency ≥ 90% by weight 2. For heaters, use of natural gas or LPG fired burner
	Basis:	Cost Effective
NOx	Standard:	
	Technology Description:	1.For heaters, low NOx burner, 30 ppmvd @ 3% O2 or 0.036 lb/MMBtu/hr 2.Natural gas or LPG fired burner
	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.Spray booth with dry filters or waterwash, properly maintained, 98% PM control efficiency, 0.0015 gr/dcsf 2.HVLP spray or equivalent application equipment 3.For heaters, natural gas or LPG fired burner
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	1.Spray booth with dry filters or waterwash, properly maintained, 98% PM control efficiency, 0.0015 gr/dcsf 2.HVLP spray or equivalent application equipment 3.For heaters, natural gas or LPG fired burner
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	For heaters, natural gas or LPG fired burner
	Basis:	Achieved in Practice

Comments T-BACT:

1. Spray booth with filter system, 98% PM control efficiency, HVLP spray equipment or equivalent technology
2. Coatings with VOC content compliant with BAAQMD Reg. 8, Rule 45 and transfer efficiency complying with Reg. 8, Rule 45
3. VOC emission controlled to overall capture/destruction efficiency ≥ 90% by weight

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - PLASTIC

BACT Category: Minor Source

BACT Determination Number: 304	BACT Determination Date 7/28/2022	ACTIVE
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Equipment Information

Permit Number: 27221
Equipment Description: COATING LINE
Unit Size/Rating/Capacity: ≤ 7,404 lbs VOC/year – Excluding Pleasure Craft and Business Machine Coating Operations
Equipment Location:
 151 BLUE RAVINE RD FOLSOM, CA

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	Compliance with District Rule 468, except where noted in footnote (A)
	Technology Description:	See BACT Document for full details
	Basis:	Achieved in Practice
NOx	Standard:	For heaters, low NOx burner, 30 ppmvd @ 3% O2 or 0.036 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	No standard
	Technology Description:	
	Basis:	
PM10	Standard:	1. Enclosed paint booth with dry filters or water wash 2. HVLP spray guns or equivalent
	Technology Description:	See BACT Document for full details
	Basis:	Achieved in Practice
PM2.5	Standard:	1. Enclosed paint booth with dry filters or water wash 2. HVLP spray guns or equivalent
	Technology Description:	See BACT Document for full details
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	
	Basis:	

Comments (A)The following coating categories listed in Rule 468, Table 1, must meet the following standards listed in SCAQMD Rule 1145 (unless they meet an applicable exemption in the SMAQMD Rule 468): General One-Component Coatings – 120 g/L; General Multi-Component Coatings – 120 g/L; Electric Dissipating Coating and Shock Free Coatings – 360 g/L; Extreme Performance Coatings, One Component – 120 g/L; Optical Coatings – 50 g/L; All Other Coatings not specified in Rule 468, Section 301 – 120 g/L. SMAQMD Rule 468 exemptions also apply (including Small Source exemption, Section 111, for stationary sources with total actual emissions less than 2.7 tons of VOC per 12-month rolling period prior to an emission control system.)

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - PLASTIC

BACT Category: Minor Source

BACT Determination Number: 305	BACT Determination Date 7/28/2022	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: COATING LINE
Unit Size/Rating/Capacity: > 7,404 pounds per year – Excluding Pleasure Craft and Business Machine Coating Operations
Equipment Location:

BACT Determination Information

District Contact: Jeffrey Quok Phone No.: 279-207-1145 email: jquok@airquality.org

ROCs	Standard:	1.Compliance with District Rule 468, except where noted in footnote (A) and VOC control system with ≥ 90% overall efficiency, or
	Technology Description:	See BACT Document for full details
	Basis:	Cost Effective
NOx	Standard:	For heaters, low NOx burner, 30 ppmvd @ 3% O2 or 0.036 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	1.Enclosed paint booth with dry filters or water wash 2.HVLP spray guns or equivalent
	Technology Description:	See BACT Document for full details
	Basis:	Achieved in Practice
PM2.5	Standard:	1.Enclosed paint booth with dry filters or water wash 2.HVLP spray guns or equivalent
	Technology Description:	See BACT Document for full details
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	
	Basis:	

Comments (A)The following coating categories listed in Rule 468, Table 1, must meet the following standards listed in SCAQMD Rule 1145 (unless they meet an applicable exemption in the SMAQMD Rule 468): General One-Component Coatings – 120 g/L; General Multi-Component Coatings – 120 g/L; Electric Dissipating Coating and Shock Free Coatings – 360 g/L; Extreme Performance Coatings, One Component – 120 g/L; Optical Coatings – 50 g/L; All Other Coatings not specified in Rule 468, Section 301 – 120 g/L. SMAQMD Rule 468 exemptions also apply (including Small Source exemption, Section 111, for stationary sources with total actual emissions less than 2.7 tons of VOC per 12-month rolling period prior to an emission control system.)

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - POWDER

BACT Category: Small Emitter BACT (PTE < 10 lb/day)

BACT Determination Number: 290	BACT Determination Date 11/30/2021	ACTIVE
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Equipment Information

Permit Number: 26840
Equipment Description: SPRAY BOOTH
Unit Size/Rating/Capacity: ALL
Equipment Location: PACIFIC POWDER COATING 8637 23RD AVE SACRAMENTO, CA

BACT Determination Information

District Contact: Matt Baldwin Phone No.: (279) 207-1119 email: mbaldwin@airquality.org

ROCs	Standard:	1.5% VOC by wt.
	Technology Description:	Low-VOC Coating (< 1.5% VOC by weight) and Natural gas fired curing oven
	Basis:	Achieved in Practice
NOx	Standard:	30 ppmvd @ 3% O2
	Technology Description:	Low-NOx Burner for curing oven
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	Natural gas fired curing oven
	Basis:	Achieved in Practice
PM10	Standard:	99% Control
	Technology Description:	Powder Recovery System with a Cyclone Followed by a Baghouse or Cartridge Dust Collector or HEPA Filters (≥ 99% efficiency)
	Basis:	Achieved in Practice
PM2.5	Standard:	99% Control
	Technology Description:	Powder Recovery System with a Cyclone Followed by a Baghouse or Cartridge Dust Collector or HEPA Filters (≥ 99% efficiency)
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	Natural gas fired curing oven
	Basis:	Achieved in Practice

Comments

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - SOLVENT PREP

BACT Category: Minor Source BACT

BACT Determination Number: 280	BACT Determination Date 4/13/2021	ACTIVE
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Equipment Information

Permit Number: 26743

Equipment Description: WIPE CLEANING PROCESS EXPIRES 4/12/2023

Unit Size/Rating/Capacity: Using ≤ 160 fluid ounces/day aerosol solvents and/or only removing cured adhesives.

Equipment Location: APPLE COMPUTER
2911 LAGUNA BLVD ELK GROVE, CA

BACT Determination Information

District Contact: Permitting Section Phone No.: (279) 207-1122 email: Permitting@airquality.org

ROCs	Standard:	7.9 lb/hour and 39.7 lb/day
	Technology Description:	
	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:	

Comments

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - WOOD

BACT Category: Minor Source BACT

BACT Determination Number: 278	BACT Determination Date 11/19/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PAINT SPRAY BOOTH - WOOD COATING
Unit Size/Rating/Capacity: > 7,404 lb VOC/year
Equipment Location:

BACT Determination Information

District Contact: Jeff Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	
	Technology Description:	1. Compliance with SMAQMD Rule 463(A) and SMAQMD BACT coating, solvent cleaning, and stripping VOC limits (see Tables 1-3 in BACT Document) and VOC control system with ≥ 90% collection efficiency and ≥ 95% destruction efficiency; OR
	Basis:	Achieved in Practice
NOx	Standard:	
	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:	1. 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:	1. Enclosed spray booth with properly maintained dry filters or waterwash.
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	No Standard
	Basis:	

Comments T-BACT is the following:

1. Compliance with SMAQMD Rule 463(A) and SMAQMD BACT coating, solvent cleaning, and stripping VOC limits (see Tables 1-3 below). 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.
2. VOC control system with ≥ 90% collection efficiency and ≥ 95% destruction efficiency; OR
3. Use of Super Clean Materials (<5% VOC by weight); OR
4. Use of low-VOC materials resulting in an equivalent emission reduction

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COOLING TOWER

BACT Category: Major Source

BACT Determination Number: 296	BACT Determination Date 10/18/2021	ACTIVE
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Equipment Information

Permit Number: 26874
Equipment Description: COOLING TOWER
Unit Size/Rating/Capacity: Cooling tower with high VOC water
Equipment Location: SACRAMENTO POWER AUTHORITY
 3215 47TH AVENUE SACRAMENTO, CA

BACT Determination Information

District Contact: Venk Reddy Phone No.: (279) 207-1146 email: vreddy@airquality.org

ROCs	Standard:	
	Technology Description:	No standard
	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:	

Comments

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

CONCRETE BATCH PLANT

BACT Category:

BACT Determination Number: 306	BACT Determination Date 6/29/2022	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: CONCRETE BATCH PLANT LESS THAN 5 CUBIC YARDS PER BATCH
Unit Size/Rating/Capacity: Small Emitter BACT (PTE < 10 lb/day)
Equipment Location:

BACT Determination Information

District Contact: Felix Trujillo, Jr. Phone No.: (279) 207-1154 email: ftrujillo@airquality.org

ROCs	Standard:	
	Technology Description:	
	Basis:	
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	
	Technology Description:	See Page 7 of BACT 306
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	
	Basis:	
CO	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:

CONCRETE BATCH PLANT

BACT Category: MINOR SOURCE

BACT Determination Number: 246	BACT Determination Date 12/3/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: Concrete Batch Plant ≥ 5 Cubic Yards per Batch
Unit Size/Rating/Capacity: ≥ 5 Cubic Yards per Batch
Equipment Location:

BACT Determination Information

District Contact: Quintin Phan Phone No.: (279) 207-1143 email: qphan@airquality.org

ROCs	Standard:	No Standard
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	No Standard
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	No Standard
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	See Page 8 of 9 of BACT 246
	Technology Description:	See Comments Section below.
	Basis:	Achieved in Practice
PM2.5	Standard:	Equivalent to PM10 control standards
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	No Standard
	Technology Description:	
	Basis:	Achieved in Practice

Comments This is a generic BACT determination based on BACT determinations made, and published, by other air agencies in California and/or other States. T-BACT was determined to be equivalent to BACT.
 PM10 Standard:
 a. Sand and Aggregate storage: outdoor storage piles adequately wetted to prevent visible emissions > 5% opacity
 b. Sand and aggregate handling (all transfer points): water sprays on all transfer points
 c. Sand and aggregate weigh batcher: material adequately wetted to prevent visible emissions > 5% opacity
 d. Storage silos for cement, flyash and other supplements: enclosed silo vented to a control device with 99% efficiency (baghouse, bin vent or equivalent)
 e. Cement weigh batcher: enclosed weigh batcher vented to a control device with 99% efficiency (baghouse or equivalent)
 f. Transit-mixed truck loading: loading operation enclosed by a flexible shroud which seals to the truck and is vented to a control device with 99% efficiency (baghouse or equivalent) 1. Central mixer loading: Enclosed mixer vented to a control device with 99% efficiency (baghouse or equivalent)

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

DRYER (NON PROCESS HEATER)

BACT Category: High Turndown Ratio (≥ 30:1), Rated at ≥

BACT Determination Number: 312	BACT Determination Date 8/25/2022	ACTIVE
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Equipment Information

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

BACT Determination Information

District Contact: Jeff Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	Natural gas fueled
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	60 ppmvd @ /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:	

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:

DRYER (NON PROCESS HEATER)

BACT Category: High Turndown Ratio (≥ 30:1), Rated at >

BACT Determination Number: 313	BACT Determination Date 8/25/2022	ACTIVE
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Equipment Information

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

BACT Determination Information

District Contact: Jeff Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	Natural gas fueled
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	For process temperature < 1200° F: 30 ppmvd @ 3% O2 For process temperature ≥ 1200° F: 60 ppmvd @ 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:	400 ppmv @ 3% O2
	Technology Description:	
	Basis:	Achieved in Practice

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:

FERTILIZER PRODUCTION

BACT Category: Minor Source

BACT Determination Number: 286	BACT Determination Date 8/5/2021	ACTIVE
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Equipment Information

Permit Number: 26887
Equipment Description: Sulfur Process Unit (for Liquid Fertilizer Production)
Unit Size/Rating/Capacity:
Equipment Location: SACRAMENTO AG PRODUCTS DBA THATCHER CO. OF CA, INC
 8625 UNSWORTH AVE SACRAMENTO, CA

BACT Determination Information

District Contact: Jeff Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	No Standard
	Technology Description:	
	Basis:	
NOx	Standard:	No Standard
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	50 ppm SOx as SO2 @ 3% O2
	Technology Description:	Scrubber (using soda ash) with demister – 50 ppm SOx as SO2 @ 3% O2
	Basis:	Achieved in Practice
PM10	Standard:	0.20 grams/dscm @ 12% carbon dioxide at standard conditions (0.0874 grains/dscf)
	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% carbon dioxide at standard conditions (0.0874 grains/dscf)
	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:	No Standard
	Technology Description:	
	Basis:	

Comments T-BACT for inorganic HAP/VHAP is scrubber (using soda ash) with demister - 100 ppmvd NH3 @ 3%O2 and 50 ppmvd SOx as SO2 @ 3% O2

Note: NOx and CO emissions from natural gas combustion of the sulfur burner is covered under BACT #221.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

GDF

BACT Category: Minor Source

BACT Determination Number: 302	BACT Determination Date 1/14/2022	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: Gasoline E85 storage tanks
Unit Size/Rating/Capacity: Storage Containers ≥ 250 gal. Mobile Fueler ≥ 120 gal
Equipment Location:

BACT Determination Information

District Contact: Venk Reddy Phone No.: (279) 207-1146 email: vreddy@airquality.org

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:	

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

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

GROUNDWATER REMEDIATION

BACT Category: Minor Source BACT

BACT Determination Number: 288	BACT Determination Date 7/15/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: AIR STRIPPING SYSTEM
Unit Size/Rating/Capacity: Groundwater Remediation System with VOC < 10 lb/day
Equipment Location:

BACT Determination Information

District Contact: Permitting Section Phone No.: (279) 207-1122 email: Permitting@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

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 COMPRESSION-PORTABLE

BACT Category: ALL SIZES

BACT Determination Number: 307	BACT Determination Date 4/27/2022	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: Minor Source BACT
Equipment Location:

BACT Determination Information

District Contact: Joe Carle Phone No.: (279) 207-1121 email: jcarle@airquality.org

ROCs	Standard:	See Technology Description
	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 Technology Description
	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 Technology Description
	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 Technology Description
	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 Technology Description
	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 Technology Description
	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

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:

IC ENGINE COMPRESSION - PRIME

BACT Category: MINOR SOURCE

BACT Determination Number:	315	BACT Determination Date	6/7/2022	ACTIVE
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Equipment Information

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

BACT Determination Information

District Contact: Felix Trujillo, Jr. Phone No.: (279) 207-1154 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 & use CARB diesel fuel
	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 & use CARB diesel fuel
	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 & use CARB diesel fuel
	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 & use CARB diesel fuel
	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 & use CARB diesel fuel
	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 & use CARB diesel fuel
	Basis:	Achieved in Practice

Comments For all criteria pollutants: < 25 hp: Comply w/EPA nonroad regulations & use CARB diesel fuel; ≥ 25 hp: Comply with the Regulation for In-Use Off-Road Diesel-Fueled Fleets & use CARB diesel fuel. 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 COMPRESSION-STANDBY

BACT Category: Major and Minor Source BACT

BACT Determination Number: 281	BACT Determination Date 6/4/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: IC Engine, Emergency Standby, Diesel-fueled
Unit Size/Rating/Capacity: ≥ 50 hp
Equipment Location:

BACT Determination Information

District Contact: Venk Reddy Phone No.: (279) 207-1146 email: vreddy@airquality.org

ROCs	Standard:	Applicable NMHC or NMHC + NOx emission standard
	Technology Description:	≥ 1000 HP 0.14 g/hp-hr, < 1000 HP Applicable NMHC + NOx emission standard for horsepower range based on Table 1: New Emergency Standby Diesel-Fueled CI Engines and Table 2: New Emergency Standby Direct-Drive Fire Pump Engines of the ATCM for Stationary CI Engines.
	Basis:	Achieved in Practice
NOx	Standard:	Applicable NOx or NMHC + NOx emission standard
	Technology Description:	≥ 1000 HP 0.5 g/hp-hr, < 1000 HP Applicable NMHC + NOx emission standard for horsepower range based on Table 1: New Emergency Standby Diesel-Fueled CI Engines and Table 2: New Emergency Standby Direct-Drive Fire Pump Engines of the ATCM for Stationary CI Engines.
	Basis:	Achieved in Practice
SOx	Standard:	CARB Diesel
	Technology Description:	Diesel fuel with a sulfur content no greater than 0.0015% by weight.
	Basis:	Achieved in Practice
PM10	Standard:	Applicable PM emission standard
	Technology Description:	≥ 1000 HP 0.02 g/hp-hr, < 1000 HP Applicable PM emission standard for horsepower range based on Table 1: New Emergency Standby Diesel-Fueled CI Engines and Table 2: New Emergency Standby Direct-Drive Fire Pump Engines of the ATCM for Stationary CI Engines.
	Basis:	Achieved in Practice
PM2.5	Standard:	Applicable PM emission standard
	Technology Description:	Applicable PM emission standard for horsepower range based on Table 1: New Emergency Standby Diesel-Fueled CI Engines and Table 2: New Emergency Standby
	Basis:	Achieved in Practice
CO	Standard:	Applicable CO emission standard
	Technology Description:	Emergency Standby Diesel-Fueled CI Engines and Table 2: New Emergency Standby Direct-Drive Fire Pump Engines of the ATCM for Stationary CI Engines.
	Basis:	Achieved in Practice

Comments For emergency engines 50 ≤ bhp < 75, Tier 4 Interim certification is the requirement;
 For emergency engines 75 ≤ gbhp < 750, Tier 3 certification is the requirement;
 For emergency engines ≥ 750 bhp and < 1000 HP, Tier 2 certification is the requirement.;
 For emergency engines ≥ 1000 HP Tier 4 emissions is the requirement.
 T-BACT is equivalent to BACT except at major sources where a particulate filter is required.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

IC ENGINE SPARK-STANDBY

BACT Category: Minor Source BACT

BACT Determination Number: 284	BACT Determination Date 8/11/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: IC ENGINE SPARK-STANDBY
Unit Size/Rating/Capacity: < 500 BHP
Equipment Location:

BACT Determination Information

District Contact: Joe Carle Phone No.: (279) 207-1121 email: jcarle@airquality.org

ROCs	Standard:	See Description
	Technology Description:	Rich Burn: 60 ppmvd @ 15% O2 as methane (0.29 g/bhp-hr); Lean Burn: 206 ppmvd @ 15% O2 as methane (1.0 g/bhp-hr)
	Basis:	Achieved in Practice
NOx	Standard:	See Description
	Technology Description:	Rich Burn: 25 ppmvd @ 15% O2 (0.44 g/bhp-hr) or 96% reduction by weight; Lean Burn: 1.0 g/bhp-hr
	Basis:	Achieved in Practice
SOx	Standard:	See Description
	Technology Description:	Use of natural gas fuel or equivalent
	Basis:	Achieved in Practice
PM10	Standard:	See Description
	Technology Description:	Use of natural gas fuel or equivalent
	Basis:	Achieved in Practice
PM2.5	Standard:	See Description
	Technology Description:	Use of natural gas fuel or equivalent
	Basis:	Achieved in Practice
CO	Standard:	See Description
	Technology Description:	2.0 g/bhp-hr
	Basis:	Achieved in Practice

Comments T-BACT is equivalent to BACT for VOC

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

IC ENGINE SPARK-STANDBY

BACT Category: Minor Source BACT

BACT Determination Number: 285	BACT Determination Date 8/11/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: IC ENGINE SPARK-STANDBY
Unit Size/Rating/Capacity: ≥ 500 BHP
Equipment Location:

BACT Determination Information

District Contact: Joe Carle Phone No.: (279) 207-1121 email: jcarle@airquality.org

ROCs	Standard:	See Description
	Technology Description:	Rich Burn: 60 ppmvd @ 15% O2 as methane (0.29 g/bhp-hr); Lean Burn: 206 ppmvd @ 15% O2 as methane (1.0 g/bhp-hr)
	Basis:	Achieved in Practice
NOx	Standard:	See Description
	Technology Description:	Rich Burn: 25 ppmvd @ 15% O2 (0.44 g/bhp-hr); Lean Burn: 0.5 g/bhp-hr
	Basis:	Achieved in Practice
SOx	Standard:	See Description
	Technology Description:	Use of natural gas fuel or equivalent
	Basis:	Achieved in Practice
PM10	Standard:	See Description
	Technology Description:	0.0099 lb/MMBtu
	Basis:	Achieved in Practice
PM2.5	Standard:	See Description
	Technology Description:	0.0099 lb/MMBtu
	Basis:	Achieved in Practice
CO	Standard:	See Description
	Technology Description:	1.5 g/bhp-hr
	Basis:	Achieved in Practice

Comments T-BACT is equivalent to BACT for VOC

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

MATERIAL - HANDLING

BACT Category: Small Emitter BACT (PTE < 10 lb/day)

BACT Determination Number: 301	BACT Determination Date 1/19/2022	ACTIVE
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Equipment Information

Permit Number: 27023
Equipment Description: CONSTRUCTION AND DEMOLITION DEBRIS SORTING LINE
Unit Size/Rating/Capacity:
Equipment Location: ZANKER ROAD RESOURCE MGMT, LTD DBA FLORIN PERKINS 4201 FLORIN PERKINS RD SACRAMENTO, CA

BACT Determination Information

District Contact: Felix Trujillo	Phone No.: (279) 207-1154	email: ftrujillo@airquality.org
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ROCs	Standard:	
	Technology Description:	
	Basis:	
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	
	Technology Description:	Use of water spray equipment on conveyors, screens, transfer points and stockpiles as necessary to control fugitive emissions.
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Use of water spray equipment on conveyors, screens, transfer points and stockpiles as necessary to control fugitive emissions.
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	
	Basis:	

Comments Small Emitter (< 10 lb/day) BACT for Construction & Demolition/Mixed Debris Sorting Lines.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

MATERIAL - HANDLING

BACT Category: Small Emitter/Minor Source BACT

BACT Determination Number: 279	BACT Determination Date 6/23/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: Portable Aggregate Processing & Concrete/Asphalt Recycling
Unit Size/Rating/Capacity: > 150 Tons/Hour
Equipment Location:

BACT Determination Information

District Contact: Felix Trujillo, Jr. Phone No.: (279) 207-1154 email: ftrujillo@airquality.org

ROCs	Standard:	
	Technology Description:	
	Basis:	
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	
	Technology Description:	See comments section.
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	See comments section.
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	
	Basis:	

Comments Equipment/Process: Feeder, Crusher, Screen, Transfer & Storage
 BACT: Use of water sprays on crushers, screens, conveyors and transfer points as necessary to show compliance with the most stringent 40 CFR Subpart OOO opacity limitations. The emissions from the entry feed hopper loading, stockpile loading and storage piles will be subject to an opacity limitation of 20%.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

MATERIAL - HANDLING

BACT Category: MINOR SOURCE

BACT Determination Number: 276	BACT Determination Date 1/11/2022	ACTIVE
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Equipment Information

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

BACT Determination Information

District Contact: Felix Trujillo Phone No.: (279)207-1154 email: ftrujillo@airquality.org

ROCs	Standard:	
	Technology Description:	
	Basis:	
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	EE < 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:	

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:

MATERIAL PROCESSING

BACT Category: Small Emitter BACT (PTE < 10 lb/day)

BACT Determination Number: 262	BACT Determination Date 6/29/2022	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: FEEDER, CRUSHER, SCREEN, TRANSFER & STORAGE
Unit Size/Rating/Capacity: STATIONARY AGGREGATE PROCESSING & CONCRETE/ASPHALT RECYCLING
Equipment Location:

BACT Determination Information

District Contact: Felix Trujillo Phone No.: (279)207-1154 email: ftrujillo@airquality.org

ROCs	Standard:	
	Technology Description:	
	Basis:	
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	See standards outlined below in the Comments Section.
	Technology Description:	See description outlined below in the Comments Section.
	Basis:	Achieved in Practice
PM2.5	Standard:	See standards outlined below in the Comments Section.
	Technology Description:	See description outlined below in the Comments Section.
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	
	Basis:	

Comments PM10 and PM2.5: Use of water sprays on crushers, screens, conveyors and transfer points as necessary to show compliance with the most stringent 40 CFR Subpart OOO opacity limitations. The emissions from the entry feed hopper loading, stockpile loading and storage piles will be subject to an opacity limitation of 20%.
 This is a generic BACT determination based on BACT determinations made and published by other air agencies in California and/or other States.
 See BACT determination evaluation for complete requirements.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

MATERIAL STORAGE & HANDLING

BACT Category: MINOR SOURCE

BACT Determination Number: 231	BACT Determination Date 9/15/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: Bulk Dry Material Storage & Handling
Unit Size/Rating/Capacity: ALL
Equipment Location:

BACT Determination Information

District Contact: Felix Trujillo Phone No.: (279) 207-1154 email: ftrujillo@airquality.org

ROCs	Standard:	
	Technology Description:	
	Basis:	
NOx	Standard:	
	Technology Description:	
	Basis:	
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	99% Control Efficiency
	Technology Description:	All emission points enclosed and vented to a 99% efficient fabric filter baghouse.
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	
	Basis:	
CO	Standard:	
	Technology Description:	
	Basis:	

Comments This BACT applies to bulk dry material conveying, mixing, blending, milling and bagging operations. T-BACT was determined to be equivalent to BACT.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

MISCELLANEOUS

BACT Category: Minor Source BACT and Small Emitter

BACT Determination Number: 311	BACT Determination Date 7/12/2022	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: MAKE-UP AIR UNIT
Unit Size/Rating/Capacity: Small Emitter BACT (PTE < 10 lb/day) and less than or equal to 10 MMBtu/hr
Equipment Location:

BACT Determination Information

District Contact: Jeff Quok Phone No.: (279) 207-1145 email: jquok@airquality.org

ROCs	Standard:	No Standard
	Technology Description:	
	Basis:	
NOx	Standard:	See Description Below
	Technology Description:	For units with a process temperature < 1,200°F: 30 ppmv corrected to 3% O2 or 0.036 lb/MMBtu For units ≥ 5 MMBtu/hr and a process temperature ≥ 1,200°F: 60 ppmv corrected to 3% O2 or 0.073 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	No Standard
	Technology Description:	
	Basis:	
PM10	Standard:	No Standard
	Technology Description:	
	Basis:	
PM2.5	Standard:	No Standard
	Technology Description:	
	Basis:	
CO	Standard:	400 ppmv of CO corrected to 3% O2
	Technology Description:	
	Basis:	Achieved in Practice

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:

MISCELLANEOUS

BACT Category: MINOR SOURCE

BACT Determination Number: 314	BACT Determination Date 7/25/2022	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.: (279) 207-1154 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:	99.9% Control Efficiency
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	
	Basis:	

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

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

MISCELLANEOUS

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

BACT Determination Number: 308	BACT Determination Date 5/24/2022	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: SEWER LIFT STATION < 10 LB/DAY
Unit Size/Rating/Capacity: VOC PTE < 10 LB/DAY
Equipment Location:

BACT Determination Information

District Contact: Jeff Weiss Phone No.: (279) 207-1155 email: Jweiss@airquality.org

ROCs	Standard:	None
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	None
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	None
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	None
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	None
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	None
	Technology Description:	
	Basis:	Achieved in Practice

Comments This BACT determination applies only to publicly owned wastewater lift stations that emit less than 10 lb/day at non-major sources.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

OVEN

BACT Category: Small Emitter BACT (PTE < 10 lb/day)

BACT Determination Number: 292	BACT Determination Date 8/17/2021	ACTIVE
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Equipment Information

Permit Number: 26924
Equipment Description: TORTILLA OVEN
Unit Size/Rating/Capacity: Tortilla Oven ≤ 500 Deg. F
Equipment Location: BERBER FOOD MANUFACTURING DBA MI RANCHO
 10115 IRON ROCK WAY ELK GROVE, CA

BACT Determination Information

District Contact: Felix Trujillo Phone No.: (279) 207-1154 email: ftrujillo@airquality.org

ROCs	Standard:	
	Technology Description:	
	Basis:	
NOx	Standard:	30 ppmvd @ 3% O2
	Technology Description:	Low NOx Burner
	Basis:	Achieved in Practice
SOx	Standard:	500 ppmvd @ 3% O2
	Technology Description:	Natural gas fuel or equivalent
	Basis:	Achieved in Practice
PM10	Standard:	Natural gas fuel or equivalent
	Technology Description:	Natural gas fuel or equivalent
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	
	Basis:	
CO	Standard:	400 ppmvd @ 3% O2
	Technology Description:	Natural gas fuel or equivalent
	Basis:	Achieved in Practice

Comments T-BACT is equivalent to BACT for VOC.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

PHARMACEUTICAL PROCESS

BACT Category: Minor Source BACT

BACT Determination Number: 261	BACT Determination Date 6/25/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PHARMACEUTICAL MANUFACTURING PROCESS (AMPAC)
Unit Size/Rating/Capacity: BATCH PROCESSING
Equipment Location:

BACT Determination Information

District Contact: Jeff Weiss Phone No.: (279) 207-1155 email: jweiss@airquality.org

ROCs	Standard:	
	Technology Description:	Refrigerated condensers, afterburners, or carbon adsorbers per comments (below)
	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:	

Comments Afterburners, Refrigerated Condensers, or Carbon Adsorbers with a capture/control efficiency of $\geq 90\%$. For those chemical streams which preclude a control of 90% because of their chemical or physical characteristics, a ≥ 0.3 second retention time at ≥ 1400 °F for afterburners and an exit gas temperature of -25 °C for condensers will also satisfy BACT if emissions from reactors, distillation columns, crystallizer, evaporators, and centrifuges are less than 15 lb/day and emissions from dryers are less than 10 lb/day. A scrubber may also be used if it achieves a capture/control efficiency of $\geq 90\%$.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

Phase II Vapor Recovery

BACT Category: Minor Source

BACT Determination Number: 303	BACT Determination Date 1/14/2022	ACTIVE
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Equipment Information

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

BACT Determination Information

District Contact: Venk Reddy Phone No.: (279) 207-1146 email: vreddy@airquality.org

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:	

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 of any system or component being evaluated for certification purposes and operating under current and valid CARB authorization.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

SOIL REMEDIATION

BACT Category: Minor Source BACT

BACT Determination Number: 287	BACT Determination Date 7/6/2021	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: SOIL VAPOR EXTRACTION
Unit Size/Rating/Capacity: VOC < 10 lb/day
Equipment Location:

BACT Determination Information

District Contact: Permitting Section Phone No.: (279) 207-1122 email: Permitting@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

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:

TANK/PIPELINE DEGASSING SYSTEM

BACT Category: Minor Source BACT

BACT Determination Number: 291	BACT Determination Date 11/30/2021	ACTIVE
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Equipment Information

Permit Number: 26899
Equipment Description: THERMAL OXIDIZING UNIT
Unit Size/Rating/Capacity: All
Equipment Location: POLAR SERVICE CENTERS
 4432 WINTERS STREET SACRAMENTO, CA

BACT Determination Information

District Contact: Matt Baldwin Phone No.: (279) 207-1119 email: mbaldwin@airquality.org

ROCs	Standard:	50 ppmvd as hexane
	Technology Description:	Use of natural gas or propane/LPG as supplemental fuel
	Basis:	Achieved in Practice
NOx	Standard:	60 ppmvd @ 3% O2 or 0.073 lb/MMBtu
	Technology Description:	Use of natural gas or propane/LPG as supplemental fuel
	Basis:	Achieved in Practice
SOx	Standard:	40 ppmvd as H2S
	Technology Description:	Use of natural gas or propane/LPG as supplemental fuel
	Basis:	Achieved in Practice
PM10	Standard:	
	Technology Description:	Use of natural gas or propane/LPG as supplemental fuel
	Basis:	Achieved in Practice
PM2.5	Standard:	
	Technology Description:	Use of natural gas or propane/LPG as supplemental fuel
	Basis:	Achieved in Practice
CO	Standard:	
	Technology Description:	Use of natural gas or propane/LPG as supplemental fuel
	Basis:	Achieved in Practice

Comments See BACT Determination Evaluation: VOC: 50 ppmvd as Hexane; the operation of the thermal oxidizer shall continue until the gaseous VOC concentration within the tank/pipeline is reduced to 5,000 ppmv, measured as methane, for at least one hour after degassing operations have ceased. NOx: Low NOx burner with emission concentration of 60 ppm @ 3% O2 or 0.073 lb/MMBtu. T-BACT is equivalent to BACT.