

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: 06-06-2024

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

APC - MISCELLANEOUS

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

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:

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:

EXPIRES 6/21/2024

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

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

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 **EXPIRES 7/19/2024**
Unit Size/Rating/Capacity: Boilers 2-5 MMBtu/hr Natural Gas
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

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

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

Permit Number: N/A -- Generic BACT Determination **EXPIRES 7/19/2024**
Equipment Description: BOILER
Unit Size/Rating/Capacity: Boilers 2-5 MMBtu/hr LPG Fired
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

BACT Category: MAJOR SOURCE

BACT Determination Number: 327	BACT Determination Date 6/13/2023	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 TO < 2.0 MMBTU/HR, FIRED ON NATURAL GAS
Equipment Location:

BACT Determination Information

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

ROCs	Standard:	Good combustion practices
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	See Description
	Technology Description:	Units rated < 0.7 MMBtu/hr: 20 ppmvd at 3% O2 Units rated ≥ 0.7 to < 2.0 MMBtu/hr: 9 ppmvd at 3% O2
	Basis:	Achieved in Practice
SOx	Standard:	See Description
	Technology Description:	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 Description
	Technology Description:	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 Description
	Technology Description:	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 Description
	Technology Description:	Units rated < 0.4 MMBtu/hr: 50 ppmvd at 3% O2 Units rated ≥ 0.4 to < 2.0 MMBtu/hr: 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:

BOILER

BACT Category: Major Source

BACT Determination Number: 328	BACT Determination Date 6/13/2023	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: BOILER
Unit Size/Rating/Capacity: Greater or equal to 75,000 BTU/hr to less than 2.0 MMBTU/hr, fired on LPG
Equipment Location:

BACT Determination Information

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

ROCs	Standard:	Good combustion practices
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	See Description
	Technology Description:	Units rated < 0.7 MMBtu/hr: 20 ppmvd @ 3% O2 Units rated ≥ 0.7 MMBtu/hr to < 2.0 MMBtu/hr: 12 ppmvd @ 3% O2
	Basis:	Achieved in Practice
SOx	Standard:	Good combustion practices
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	Good combustion practices
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	Good combustion practices
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	See Description
	Technology Description:	Units rated < 0.4 MMBTU/hr: Good combustion practices Units rated ≥ 0.4 MMBTU/hr to < 2.0 MMBtu/hr: 400 ppmvd @ 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:

BOILER

BACT Category: Minor Source BACT

BACT Determination Number: 343	BACT Determination Date 2/9/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: BOILER > 5 MMBTU
Unit Size/Rating/Capacity: > 20 MMBtu/hr, natural gas or LPG fired
Equipment Location:

BACT Determination Information

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

ROCs	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	2.5 ppm @ 3% O2 or 0.003 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	50 ppm @ 3% O2 or 0.037 lb/MMBtu
	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:

BOILER

BACT Category: Minor Source BACT

BACT Determination Number: 344	BACT Determination Date 2/9/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: RENTAL BOILER > 5 MMBTU
Unit Size/Rating/Capacity: > 20 MMBtu/hr, Natural gas or LPG fired
Equipment Location:

BACT Determination Information

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

ROCs	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	5 ppm @ 3% O2 or 0.0062 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	50 ppm @ 3% O2 or 0.037 lb/MMBtu
	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:

BOILER

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

BACT Determination Number: 353	BACT Determination Date 5/1/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: BOILER > 5 MMBTU
Unit Size/Rating/Capacity: ≥ 5 to ≤ 20 MMBtu/hr Natural gas or LPG fired
Equipment Location:

BACT Determination Information

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

ROCs	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	See Technology Description and Comments for BACT Standards
	Technology Description:	Firetube Boilers: < 9.8 MMBtu/hr: 7 ppm at 3% O2 or 0.0085 lb/MMBtu ≥ 9.8 MMBtu/hr: 5 ppm at 3% O2 or 0.0061 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	400 ppm @ 3% O2
	Technology Description:	
	Basis:	Achieved in Practice

Comments BACT for NOx continued:
 All other boilers:
 < 7.6 MMBtu/hr: 9 ppm at 3% O2 or 0.011 lb/MMBtu
 ≥ 7.6 MMBtu/hr: 5 ppm at 3% O2 or 0.0061 lb/MMBtu

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

BOILER

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

BACT Determination Number: 354	BACT Determination Date 5/1/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: BOILER > 5 MMBTU
Unit Size/Rating/Capacity: Rental, ≥ 5 to ≤ 20 MMBtu/hr Natural gas or LPG fired
Equipment Location:

BACT Determination Information

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

ROCs	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	
NOx	Standard:	See Technolgy Description for BACT Standards
	Technology Description:	Firetube Boilers: 7 ppm at 3% O2 or 0.0085 lb/MMBtu All Other Boilers: 9 ppm at 3% O2 or 0.011 lbs/MMBtu
	Basis:	
SOx	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	
PM10	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	
PM2.5	Standard:	PUC quality natural gas or propane with LPG backup
	Technology Description:	
	Basis:	
CO	Standard:	400 ppm @ 3% O2
	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:

COATING - ADHESIVES/SEALANTS

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/SEALANTS

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

BACT Determination Number: 345	BACT Determination Date 1/16/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PAINT SPRAY BOOTH
Unit Size/Rating/Capacity: ≤ 6,198 lbs VOC/year and facilities ≤ 40,000 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:	1.< 6,198 lb VOC/year limit 2.Compliance with SMAQMD Rule 459(A) 3.For heaters: use of natural gas or LPG
	Basis:	Achieved in Practice
NOx	Standard:	See Technology Description
	Technology Description:	For booth heaters: < 1,200 °F: 30 ppm or 0.036 lb/MMBtu ≥ 1,200 °F: 60 ppm or 0.073 lb/MMBtu.
	Basis:	Achieved in Practice
SOx	Standard:	See Technology Description
	Technology Description:	For heaters: natural gas or LPG fired burner
	Basis:	Achieved in Practice
PM10	Standard:	See Technology Description
	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:	See Technology Description
	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:	For heaters: 400 ppmvd @ 3% O2 or 0.30 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice

Comments See BACT Determination for full BACT and T-BACT Details:
T-BACT for Organic HAP/VHAP:
1.< 6,198 lb VOC/year limit
2.Compliance with SMAQMD Rule 459 (A)
3.For heaters: use of natural gas or LPG

T-BACT for Inorganic HAP: Compliance with 40 CFR 63 Subpart HHHHHH for metals – Spray booth filter system with 98% capture efficiency of paint overspray, HVLP spray equipment, electrostatic application, airless spray gun, air-assisted airless spray gun, or an equivalent technology

(A) Compliance with SMAQMD Rule 459 includes use of exemptions of this rule. BACT VOC content limits are exempt if the operation qualifies for VOC content limit exemptions of SMAQMD Rule 459.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - AUTO BODY

BACT Category: Minor Source BACT

BACT Determination Number: 346	BACT Determination Date 1/16/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PAINT SPRAY BOOTH
Unit Size/Rating/Capacity: > 6,198 lb VOC/year and facilities > 40,000 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:	1.Compliance with SMAQMD Rule 459(A) 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 reduction as option #1 and option #2.
	Basis:	Cost Effective
NOx	Standard:	See Technology Description
	Technology Description:	For booth heaters: < 1,200 °F: 30 ppm or 0.036 lb/MMBtu ≥ 1,200 °F: 60 ppm or 0.073 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	See Technology Description
	Technology Description:	For heaters: natural gas or LPG fired burner
	Basis:	Achieved in Practice
PM10	Standard:	See Technology Description
	Technology Description:	1.Enclosed spray booth with properly maintained dry filters or waterwash. 2.HVLP spray or equivalent application equipment 3.For heaters, natural gas or LPG fired burner
	Basis:	Achieved in Practice
PM2.5	Standard:	See Technology Description
	Technology Description:	1.Enclosed spray booth with properly maintained dry filters or waterwash. 2.HVLP spray or equivalent application equipment 3.For heaters, natural gas or LPG fired burner
	Basis:	Achieved in Practice
CO	Standard:	For heaters: 400 ppmvd @ 3% O2 or 0.30 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice

Comments See BACT Determination for full BACT and T-BACT Details:
T-BACT for Organic HAP/VHAP: Spray booth with filter system, 98% PM10 control efficiency, HVLP spray equipment or equivalent technology, coatings with VOC content and transfer efficiency complying with SMAQMD Rule 459(A). Overall capture/destruction efficiency ≥ 90% by weight

T-BACT for Inorganic HAP: Compliance with 40 CFR 63 Subpart HHHHHH for metals - Spray booth filter system with 98% capture efficiency of paint overspray, HVLP spray equipment, electrostatic application, airless spray gun, air-assisted airless spray gun, or an equivalent technology

(A) Compliance with SMAQMD Rule 459 includes use of exemptions of this rule. BACT VOC content limits are exempt if the operation qualifies for VOC content limit exemptions of SMAQMD Rule 459.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - GENERAL

BACT Category: Minor Source BACT

BACT Determination Number: 338	BACT Determination Date 1/16/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PAINT SPRAY BOOTH
Unit Size/Rating/Capacity: ≤ 6,198 pounds VOC per year and facilities ≤ 9,996 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 Technology Description
	Technology Description:	1.Compliance with SMAQMD Rule 441 – Organic Solvents 2.Compliance with SMAQMD Rule 466 – Solvent Cleaning 3.Compliance with SDAPCD Rule 66.1 – Misc. Surface Coating Operations and Other Processes Emitting Volatile
	Basis:	Achieved in Practice
NOx	Standard:	See Technology Description
	Technology Description:	For booth heater: < 1200 °F: 30 ppm or 0.036 lb/MMBtu corrected to 3% O2 ≥ 1200 °F: 60 ppm or 0.073 lb/MMBtu corrected to 3% O2
	Basis:	Achieved in Practice
SOx	Standard:	No Standard
	Technology Description:	
	Basis:	
PM10	Standard:	Dry filters or waterwash
	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 See BACT and T-BACT Determination for full details.

T-BACT for Organic HAP/VHAP is BACT for VOC.
T-BACT for Inorganic HAP is the following: Compliance with 40 CFR 63 Subpart HHHHHH for metals – Spray booth filter system with 98% capture efficiency of paint overspray, HVLP spray equipment, electrostatic application, airless spray gun, air-assisted airless spray gun, or an equivalent technology.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - GENERAL

BACT Category: Minor Source BACT

BACT Determination Number: 339	BACT Determination Date 1/16/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PAINT SPRAY BOOTH
Unit Size/Rating/Capacity: > 6,198 pounds VOC per year and facilities > 9,996 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 Technology Description
	Technology Description:	1.Compliance with SMAQMD Rule 441 – Organic Solvents 2.Compliance with SMAQMD Rule 466 – Solvent Cleaning 3.VOC Emission Control System that has a combined capture and control device efficiency if at least 85% by weight.
	Basis:	Cost Effective
NOx	Standard:	See Technology Description
	Technology Description:	For booth heater: < 1200 °F: 30 ppm or 0.036 lb/MMBtu corrected to 3% O2 ≥ 1200 °F: 60 ppm or 0.073 lb/MMBtu corrected to 3% O2
	Basis:	Achieved in Practice
SOx	Standard:	No Standard
	Technology Description:	
	Basis:	
PM10	Standard:	Dry filters or waterwash
	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 See BACT and T-BACT Determination for full details.

T-BACT for Organic HAP/VHAP is BACT for VOC.
T-BACT for Inorganic HAP is the following: Compliance with 40 CFR 63 Subpart HHHHHH for metals – Spray booth filter system with 98% capture efficiency of paint overspray, HVLP spray equipment, electrostatic application, airless spray gun, air-assisted airless spray gun, or an equivalent technology.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - METAL

BACT Category: Minor Source BACT

BACT Determination Number: 336	BACT Determination Date 1/17/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PAINT SPRAY BOOTH
Unit Size/Rating/Capacity: ≤ 6,198 lbs VOC/year and facilities ≤ 40,000 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:	1. ≤ 6,198 lb VOC/year limit. 2. HVLP spray or equivalent application equipment. 3. Enclosed spray gun cleaning system. 4. Compliance with SMAQMD Rule 451(A)(B) coating, solvent, and stripper standards except for General-One Component use 275 g/l and for Etching Filler use 340 g/l for Air-Dried and 275 g/l for Baked.
	Basis:	Achieved in Practice
NOx	Standard:	See Technology Description
	Technology Description:	For booth heaters: < 1,200 °F: 30 ppm or 0.036 lb/MMBtu ≥ 1,200 °F: 60 ppm or 0.073 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	No standard
	Technology Description:	
	Basis:	
PM10	Standard:	See Technology Description
	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:	See Technology Description
	Technology Description:	1. Enclosed spray booth with properly maintained dry filters or waterwash 2. HVLP spray or equivalent application equipment
	Basis:	Achieved in Practice
CO	Standard:	For heaters: 400 ppmvd @ 3% O2 or 0.30 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice

Comments (A) Compliance with SMAQMD Rule 451 includes use of exemptions of this rule. BACT VOC content limits are exempt if the operation qualifies for VOC content limit exemptions of SMAQMD Rule 451.
 (B) This BACT includes an application equipment exemption for coatings with a viscosity of 650 centipoise or greater, as applied.

T-BACT is BACT for Organic HAP/VHAP
 T-BACT for Inorganic HAP: Compliance with 40 CFR 63 Subpart HHHHHH for metals – Spray booth filter system with 98% capture efficiency of paint overspray, HVLP spray equipment, electrostatic application, airless spray gun, air-assisted airless spray gun, or an equivalent technology.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - METAL

BACT Category: Minor Source BACT

BACT Determination Number: 337	BACT Determination Date 1/17/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PAINT SPRAY BOOTH
Unit Size/Rating/Capacity: > 6,198 lbs VOC/year and facilities > 40,000 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:	1.Compliance with SMAQMD Rule 451(A)(B) coating, solvent, and stripper standards 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
	Basis:	Cost Effective
NOx	Standard:	See Technology Description
	Technology Description:	For booth heaters: < 1,200 °F: 30 ppm or 0.036 lb/MMBtu ≥ 1,200 °F: 60 ppm or 0.073 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	No standard
	Technology Description:	
	Basis:	
PM10	Standard:	See Technology Description
	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:	See Technology Description
	Technology Description:	1.Enclosed spray booth with properly maintained dry filters or waterwash. 2.HVLP spray or equivalent application equipment
	Basis:	Achieved in Practice
CO	Standard:	For heaters: 400 ppmvd @ 3% O2 or 0.30 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice

Comments (A) Compliance with SMAQMD Rule 451 includes use of exemptions of this rule. BACT VOC content limits are exempt if the operation qualifies for VOC content limit exemptions of SMAQMD Rule 451.
 (B) This BACT includes an application equipment exemption for coatings with a viscosity of 650 centipoise or greater, as applied.

T-BACT is BACT for Organic HAP/VHAP
 T-BACT for Inorganic HAP is the following: Compliance with 40 CFR 63 Subpart HHHHHH for metals – Spray booth filter system with 98% capture efficiency of paint overspray, HVLP spray equipment, electrostatic application, airless spray gun, air-assisted airless spray gun, or an equivalent technology.

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 EXPIRES 7/27/2024
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 **EXPIRES 7/27/2024**
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 - WOOD

BACT Category: Minor Source BACT

BACT Determination Number: 347	BACT Determination Date 5/17/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: COATING OPERATION
Unit Size/Rating/Capacity: ≤ 6,198 lbs VOC/year and facilities ≤ 40,000 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:	1.< 6,198 lb VOC/year limit 2.HVLP spray or equivalent application equipment 3.Compliance with SMAQMD Rule 463(A) and BACT coating, solvent, and stripper VOC limits
	Basis:	Achieved in Practice
NOx	Standard:	See Technology Description
	Technology Description:	For booth heaters: < 1,200 °F: 30 ppm or 0.036 lb/MMBtu ≥ 1,200 °F: 60 ppm or 0.073 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	No standard
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	See Technology Description
	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:	See Technology Description
	Technology Description:	1.Enclosed spray booth with properly maintained dry filters or waterwash 2.HVLP spray or equivalent application equipment
	Basis:	Achieved in Practice
CO	Standard:	For heaters: 400 ppmvd @ 3% O2 or 0.30 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice

Comments (A)Compliance with SMAQMD Rule 463 includes the use of exemptions of this rule. BACT VOC content limits are exempt if the operation qualifies for VOC content limit exemptions of SMAQMD Rule 463.

T-BACT: See BACT Determination evaluation for full T-BACT standards.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - WOOD

BACT Category: Minor Source BACT

BACT Determination Number: 348	BACT Determination Date 5/17/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: COATING OPERATION
Unit Size/Rating/Capacity: ≥ 6,198 lb VOC/year and facilities > 40,000 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:	1.Compliance with SMAQMD Rule 463(A) and SMAQMD BACT coating, solvent, and stripper VOC limits, 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 reduction as option #1 and option #2
	Basis:	Cost Effective
NOx	Standard:	See Technology Description
	Technology Description:	For booth heaters: < 1,200 °F: 30 ppm or 0.036 lb/MMBtu ≥ 1,200 °F: 60 ppm or 0.073 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	No standard
	Technology Description:	
	Basis:	
PM10	Standard:	See Technology Description
	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:	See Technology Description
	Technology Description:	1.Enclosed spray booth with properly maintained dry filters or waterwash 2.HVLP spray or equivalent application equipment
	Basis:	Achieved in Practice
CO	Standard:	For heaters: 400 ppmvd @ 3% O2 or 0.30 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice

Comments (A)Compliance with SMAQMD Rule 463 includes the use of exemptions of this rule. BACT VOC content limits are exempt if the operation qualifies for VOC content limit exemptions of SMAQMD Rule 463.

T-BACT: See BACT Determination evaluation for full T-BACT standards.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

COATING - WOOD

BACT Category: Minor Source BACT

BACT Determination Number: 348	BACT Determination Date 5/17/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: COATING OPERATION
Unit Size/Rating/Capacity: ≥ 6,198 lb VOC/year and facilities > 40,000 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:	1.Compliance with SMAQMD Rule 463(A) and SMAQMD BACT coating, solvent, and stripper VOC limits, 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 reduction as option #1 and option #2
	Basis:	Cost Effective
NOx	Standard:	See Technology Description
	Technology Description:	For booth heaters: < 1,200 °F: 30 ppm or 0.036 lb/MMBtu ≥ 1,200 °F: 60 ppm or 0.073 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	No standard
	Technology Description:	
	Basis:	
PM10	Standard:	See Technology Description
	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:	See Technology Description
	Technology Description:	1.Enclosed spray booth with properly maintained dry filters or waterwash 2.HVLP spray or equivalent application equipment
	Basis:	Achieved in Practice
CO	Standard:	For heaters: 400 ppmvd @ 3% O2 or 0.30 lb/MMBtu
	Technology Description:	
	Basis:	Achieved in Practice

Comments (A)Compliance with SMAQMD Rule 463 includes the use of exemptions of this rule. BACT VOC content limits are exempt if the operation qualifies for VOC content limit exemptions of SMAQMD Rule 463.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

CONCRETE PLANT

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

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

Permit Number: N/A -- Generic BACT Determination **EXPIRES 6/28/2024**
Equipment Description: CONCRETE BATCH PLANT
Unit Size/Rating/Capacity: LESS THAN 5 CUBIC YARDS PER BATCH
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:

CREMATORY

BACT Category: Minor Source BACT

BACT Determination Number: 340	BACT Determination Date 1/16/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: CREMATORY
Unit Size/Rating/Capacity: 19,094 MMBtu/hr and a 421 ton per year charge limit
Equipment Location:

BACT Determination Information

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

ROCs	Standard:	Natural gas fuel and a secondary combustion chamber (afterburner) ≥ 1,600 °F
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	60 ppmv corrected to 3% O2 or 0.073 lb/MMBTU
	Technology Description:	Measured as emissions from fuel burning only, not with the charge.
	Basis:	Achieved in Practice
SOx	Standard:	Natural gas fired
	Technology Description:	
	Basis:	Achieved in Practice
PM10	Standard:	Natural gas-fired with secondary chamber operating at ≥ 1,600 °F
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	No Standard
	Technology Description:	
	Basis:	
CO	Standard:	Not addressed
	Technology Description:	
	Basis:	

Comments T-BACT standards will be considered as meeting the BACT standards.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

DRY CLEANING UNIT

BACT Category: Minor Source BACT

BACT Determination Number: 349	BACT Determination Date 5/17/2024	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: ≤ 6,198 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:	1.Closed-loop, Dry-to-Dry machine with internal refrigerated condenser achieving outlet vapor temperature ≤ 45°F, and drying sensor/controller. 2.See Attachment C for operational standards.
	Basis:	Achieved in Practice
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:	

Comments T-BACT is meeting BACT

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

DRY CLEANING UNIT

BACT Category: Minor Source BACT

BACT Determination Number: 350	BACT Determination Date 5/17/2024	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: > 6,198 lbs VOC/Year
Equipment Location:

BACT Determination Information

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

ROCs	Standard:	See Comment Section
	Technology Description:	See Comment Section
	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:	

Comments BACT for VOC: 1. Carbon Adsorber with 95% control efficiency or equivalent technology.
 2. Closed-loop, Dry-to-Dry machine with internal refrigerated condenser achieving outlet vapor temperature ≤ 45°F, and drying sensor/controller.
 3. See Attachment C for operational standards.
 T-BACT is meeting BACT

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

DRY CLEANING UNIT

BACT Category: Minor Source BACT

BACT Determination Number: 351	BACT Determination Date 5/17/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: SYNTHETIC/HALOGENATED SOLVENTS EXCLUDING PERCHLOROETHYLENE
Unit Size/Rating/Capacity: ≤ 6,198 lbs VOC/Year
Equipment Location:

BACT Determination Information

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

ROCs	Standard:	See Comment Section
	Technology Description:	See Comment Section
	Basis:	Achieved in Practice
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:	

Comments BACT for VOC: 1.Secondary control machine (ventless dry-to-dry system with internal refrigerated condenser, internal carbon adsorption unit, and drying sensor/controller) achieving solvent concentration in drum ≤ 300 ppmv.
 2.See Attachment D for operational standards.
 T-BACT is meeting BACT

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

DRY CLEANING UNIT

BACT Category: Minor Source BACT

BACT Determination Number: 352	BACT Determination Date 5/17/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: SYNTHETIC/HALOGENATED SOLVENTS EXCLUDING PERCHLOROETHYLENE
Unit Size/Rating/Capacity: > 6,198 lbs VOC/Year
Equipment Location:

BACT Determination Information

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

ROCs	Standard:	See Comment Section
	Technology Description:	See Comment Section
	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:	

Comments BACT for VOC: 1. Carbon Adsorber with 95% control efficiency or equivalent technology.
 2. Secondary control machine (ventless dry-to-dry system with internal refrigerated condenser, internal carbon adsorption unit, and drying sensor/controller) achieving solvent concentration in drum \leq 300 ppmv.
 3. See Attachment D for operational standards.
 T-BACT is meeting BACT

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

DRYER (NON PROCESS HTR)

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

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

Permit Number: N/A -- Generic BACT Determination **EXPIRES 8/24/2024**
Equipment Description: DRYER - LAUNDRY - HIGH TURNDOWN RATIO
Unit Size/Rating/Capacity: High Turndown Ratio (≥ 30:1), Rated at ≥ 325,000 Btu/hr to ≤ 2,000,000 Btu/hr
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 HTR)

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

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

Permit Number: N/A -- Generic BACT Determination **EXPIRES 8/24/2024**
Equipment Description: DRYER - LAUNDRY - HIGH TURNDOWN RATIO
Unit Size/Rating/Capacity: High Turndown Ratio (≥ 30:1), Rated at > 2 MMBtu/hr to ≤ 10 MMBtu/hr
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:

GDF

BACT Category: Minor Source

BACT Determination Number: 356	BACT Determination Date 1/22/2024	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 component being evaluated for certification purposes
	Basis:	Achieved in Practice
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:	

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:

GDF

BACT Category: Minor Source BACT

BACT Determination Number: 357	BACT Determination Date 1/22/2024	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
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:	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:	

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, or2) The use of E85 dispensers to dispense E85 fuel into flexivle 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:

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 HORSE POWER
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: Minor and Major Source BACT

BACT Determination Number: 330	BACT Determination Date 9/6/2023	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:	Tier 4 emission requirements for electrical generation, New Emergency Standby Direct Drive Fire Pump Engines Table 2: New Emergency Standby Direct Drive Fire pumps of the ATCM for Stationary CI Engines.
	Basis:	Achieved in Practice
NOx	Standard:	Applicable NOx or NMHC + NOx emission standard
	Technology Description:	Tier 4 emission requirements for electrical generation, New Emergency Standby Direct Drive Fire Pump Engines Table 2: New Emergency Standby Direct Drive Fire pumps 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% weight.
	Basis:	Achieved in Practice
PM10	Standard:	Applicable PM emission standard
	Technology Description:	Tier 4 emission requirements for electrical generation, New Emergency Standby Direct Drive Fire Pump Engines Table 2: New Emergency Standby Direct Drive Fire pumps of the ATCM for Stationary CI Engines.
	Basis:	Achieved in Practice
PM2.5	Standard:	Applicable PM emission standard
	Technology Description:	Tier 4 emission requirements for electrical generation, New Emergency Standby Direct Drive Fire Pump Engines Table 2: New Emergency Standby Direct Drive Fire pumps of the ATCM for Stationary CI Engines.
	Basis:	Achieved in Practice
CO	Standard:	Applicable CO emission standard
	Technology Description:	Tier 4 emission requirements for electrical generation, New Emergency Standby Direct Drive Fire Pump Engines Table 2: New Emergency Standby Direct Drive Fire pumps of the ATCM for Stationary 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 SPARK - STANDBY

BACT Category: Minor Source BACT

BACT Determination Number: 341	BACT Determination Date 3/8/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: IC ENGINE
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; Lean Burn: 206 ppmvd @ 15% O2 as methane
	Basis:	Achieved in Practice
NOx	Standard:	See Description
	Technology Description:	Rich Burn: 25 ppmvd @ 15% O2 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 equivalant and good combustion practices
	Basis:	Achieved in Practice
PM10	Standard:	See Description
	Technology Description:	Use of natural gas fuel or equivalant and good combustion practices
	Basis:	Achieved in Practice
PM2.5	Standard:	See Description
	Technology Description:	Use of natural gas fuel or equivalant and good combustion practices
	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: 342	BACT Determination Date 3/8/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: IC ENGINE
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; Lean Burn: 206 ppmvd @ 15% O2 as methane
	Basis:	Achieved in Practice
NOx	Standard:	See Description
	Technology Description:	Rich Burn: 25 ppmvd @ 15% O2; Lean Burn: 0.5 g/bhp-hr
	Basis:	Achieved in Practice
SOx	Standard:	See Description
	Technology Description:	Use of natural gas fuel or equivalent and good combustion practices
	Basis:	Achieved in Practice
PM10	Standard:	See Description
	Technology Description:	Use of natural gas fuel or equivalent and good combustion practices
	Basis:	Achieved in Practice
PM2.5	Standard:	See Description
	Technology Description:	Use of natural gas fuel or equivalent and good combustion practices
	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:

LOADING RACK

BACT Category: Minor Source BACT

BACT Determination Number: 333	BACT Determination Date 9/19/2023	ACTIVE
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Equipment Information

Permit Number: 27379
Equipment Description: APC TRUCK LOADING - BULK TERMINAL
Unit Size/Rating/Capacity: ALL
Equipment Location: SFPP, LP
 2901 BRADSHAW RD SACRAMENTO, CA

BACT Determination Information

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

ROCs	Standard:	0.015 lb/1000 gal
	Technology Description:	Bottom fill loading (submerged pipe fill loading) with dry break couplers, or equivalent, and VOC emissions from the vapor collection and control system less than or equal to 0.015 pounds per 1,000 gallons of organic liquid transferred (A)
	Basis:	Achieved in Practice
NOx	Standard:	0.034 lb/1000 gal
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	Natural gas or LPG fired pilot and air assist
	Basis:	Achieved in Practice
PM10	Standard:	0.01 grains/scf
	Technology Description:	
	Basis:	Achieved in Practice
PM2.5	Standard:	0.01 grains/scf
	Technology Description:	
	Basis:	Achieved in Practice
CO	Standard:	0.05 lb/1000 gal
	Technology Description:	
	Basis:	Achieved in Practice

Comments (A)Emission factor is measured in accordance with CARB Vapor Recovery Test Procedure TP-203.1 – Determination of Emission Factor of Vapor Recovery Systems of Terminals (03-17-1999) or the methods (§60.503) described in 40 CFR Part 60 Subpart XX – Standards of Performance for Bulk Gasoline Terminals, which measures total mass of VOC emitted from the vapor processor as a function of the total volume of gasoline loaded by the loading rack.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

MANUFACTURING PROCESS

BACT Category: MINOR SOURCE

BACT Determination Number: 334	BACT Determination Date 9/12/2023	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: CANNABIS OIL EXTRACTION
Unit Size/Rating/Capacity: ALL
Equipment Location:

BACT Determination Information

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

ROCs	Standard:	95% solvent recovery or control
	Technology Description:	Closed-loop system for volatile and nonvolatile extraction units
	Basis:	Achieved in Practice
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:	

Comments

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

MATERIAL - HANDLING

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 **EXPIRES 6/28/2024**
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 HANDLING

BACT Category: Small Emitter/Minor Source BACT

BACT Determination Number: 355	BACT Determination Date 1/12/2024	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 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 comments section.
	Technology Description:	See comments section.
	Basis:	Achieved in Practice
PM2.5	Standard:	See comments section.
	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: 316	BACT Determination Date 1/22/2024	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: PORTABLE WOOD WASTE/GREEN WASTE GRINDER
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:	Greenwaste with a moisture content of 30% or more must not remain at the site for longer than 48 hours after it has been ground, except for composting operations and ground material used as a biomass fuel, provided that the temperature is maintained below 122 degrees Fahrenheit or the moisture content is less than 30%.
	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:	

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

BACT Determination Number: 358	BACT Determination Date 2/15/2024	ACTIVE
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Equipment Information

Permit Number: 27780
Equipment Description: FUEL CELL
Unit Size/Rating/Capacity: ALL
Equipment Location: SACRAMENTO REG. COUNTY SANITATION DISTRICT
 8521 LAGUNA STATION RD ELK GROVE, CA

BACT Determination Information

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

ROCs	Standard:	0.02 lb/MW-hr
	Technology Description:	
	Basis:	Achieved in Practice
NOx	Standard:	0.07 lb/MW-hr
	Technology Description:	
	Basis:	Achieved in Practice
SOx	Standard:	
	Technology Description:	
	Basis:	
PM10	Standard:	
	Technology Description:	
	Basis:	
PM2.5	Standard:	
	Technology Description:	
	Basis:	
CO	Standard:	0.10 lb/MW-hr
	Technology Description:	
	Basis:	Achieved in Practice

Comments This BACT applies to waste gas and/or natural gas fueled fuel cells. DG Units that produce combined heat and power may take a credit to meet the emission standard above. Credit shall be at the rate of one MW-hr for each 3.4 million Btu's of heat recovered. To take the credit, the following must apply: (1) DG Units are sold with combined heat and power technology integrated into a standardized package by the manufacturer; and (2) DG Units achieve a minimum energy efficiency of 60 percent.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

MISCELLANEOUS

BACT Category: Minor Source and Small Emitter BACT -

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

Permit Number: N/A -- Generic BACT Determination **EXPIRES 7/11/2024**
Equipment Description: MAKE-UP AIR UNIT
Unit Size/Rating/Capacity: ≤ 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 **EXPIRES 7/24/2024**
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: MINOR SOURCE BACT

BACT Determination Number: 329	BACT Determination Date 12/28/2023	ACTIVE
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Equipment Information

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

BACT Determination Information

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

ROCs	Standard:	50 ppmv @ 3% O2 or 99% control
	Technology Description:	Carbon, Oxidizer
	Basis:	Achieved in Practice
NOx	Standard:	Various based on fuel and temp
	Technology Description:	Low NOx burner
	Basis:	Achieved in Practice
SOx	Standard:	95% reduction or 2 lbs/day
	Technology Description:	SOx capture technology
	Basis:	Achieved in Practice
PM10	Standard:	Propane or Natural Gas
	Technology Description:	Use of clean fuels
	Basis:	Achieved in Practice
PM2.5	Standard:	Propane or Natural Gas
	Technology Description:	Use of clean fuels
	Basis:	Achieved in Practice
CO	Standard:	1,000 ppmv
	Technology Description:	Low NOx burner
	Basis:	Achieved in Practice

Comments NOx for Natural gas fuel is 20 ppmv @ 3% O2 or 0.024 lb/mmbtu
 NOx for all other fuels and fuel mixtures is 60 ppmv @ 3% O2

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

ORGANIC LIQUID - LOADING

BACT Category: MINOR SOURCE

BACT Determination Number: 331	BACT Determination Date 7/5/2023	ACTIVE
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Equipment Information

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

BACT Determination Information

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

ROCs	Standard:	0.08 lb/1000 gal
	Technology Description:	Balance system and 0.08 lbs VOC/1000 gal
	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:	

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:

PHARMACEUTICAL PROCESS

BACT Category: MINOR SOURCE BACT

BACT Determination Number: 332	BACT Determination Date 8/8/2023	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:

PRINTING PROCESS

BACT Category: MINOR SOURCE BACT

BACT Determination Number: 325	BACT Determination Date 3/9/2023	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: LITHOGRAPHIC OFFSET HEATSET
Unit Size/Rating/Capacity: ALL
Equipment Location:

BACT Determination Information

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

ROCs	Standard:	APC device with 98% efficiency
	Technology Description:	Dryer waste gas vented to a VOC control device with 98% control efficiency or an outlet VOC concentration of 10 ppmv and compliance with material limits in SMAQMD Rule 450 Sections 301 & 302
	Basis:	Achieved in Practice
NOx	Standard:	20 ppmv @ 3% O2 or 0.036 lb/MMBtu
	Technology Description:	Dryer combustion emissions ≤ 20 ppmv @ 3% O2 or ≤ 0.036 lb/MMBtu
	Basis:	Achieved in Practice
SOx	Standard:	No standard
	Technology Description:	
	Basis:	
PM10	Standard:	Vent to VOC control device
	Technology Description:	Vent dryer waste gas to a VOC control device
	Basis:	Achieved in Practice
PM2.5	Standard:	No standard
	Technology Description:	
	Basis:	
CO	Standard:	1000 ppmv @ 3% O2
	Technology Description:	Dryer combustion emissions ≤ 1000 ppmv @ 3% O2
	Basis:	Achieved in Practice

Comments T-BACT: Capture and vent to VOC control device with at least 98.5% destruction/recovery device efficiency

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

PRINTING PROCESS

BACT Category: MINOR SOURCE

BACT Determination Number: 326	BACT Determination Date 3/9/2023	ACTIVE
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Equipment Information

Permit Number: N/A -- Generic BACT Determination
Equipment Description: LITHOGRAPHIC OFFSET NON-HEATSET
Unit Size/Rating/Capacity: ALL
Equipment Location:

BACT Determination Information

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

ROCs	Standard:	Low VOC materials (APC device if emissions ≥ 7806 lb/yr)
	Technology Description:	Compliance with the material limits in SMAQMD Rule 450 Sections 301 & 302. If the total uncontrolled VOC emissions from the unit are ≥ 7806 lbs/yr, a VOC control system must be installed with at least 98.5% overall system efficiency (capture and destruction).
	Basis:	Achieved in Practice
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:	

Comments T-BACT: Capture and vent to a VOC control device with at least 98.5% destruction/recovery device efficiency.

SMAQMD BACT CLEARINGHOUSE

CATEGORY TYPE:

STERILIZER

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

BACT Determination Number: 335	BACT Determination Date 2/14/2024	ACTIVE
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Equipment Information

Permit Number: 27695
Equipment Description: BOTTLE STERILIZER
Unit Size/Rating/Capacity: < 10 lbs/day VOC
Equipment Location: HP HOOD, LLC
 8340 BELVEDERE AVE SACRAMENTO, CA

BACT Determination Information

District Contact: Jeff Weiss Phone No.: (916) 704-9995 email: Jweiss@airquality.org

ROCs	Standard:	Refer to Comment Section (below)
	Technology Description:	Refer to Comment Section (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 Sterilization of food containers and production equipment is limited to 200 g/l VOC or must vent to an APC device with a minimum collection efficiency of 90% and a minimum control efficiency of 95% or have an output of less than 50 ppmv calculated as carbon with no dilution and compliance with Rule 466 Sec. 304.3
 Maintenance cleaning activities are limited to 25 g/l (0.21 lb/gal) or must vent to an APC device with a collection efficiency of 90% and either a control efficiency of 95% or have an output of less than 50 ppmv calculated as carbon with no dilution and compliance with Rule 466 Sec. 304.3