

SACRAMENTO METROPOLITAN



AIR QUALITY  
MANAGEMENT DISTRICT

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## **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: 06-04-2019**

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**FLARE**

BACT Size: Minor Source BACT

**FLARE (PROJECT-SPECIFIC DETERMINATION)**

<b>BACT Determination Number:</b> 140	<b>BACT Determination Date:</b> 7/25/2017
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**Equipment Information**

**Permit Number:** 24978  
**Equipment Description:** FLARE (PROJECT-SPECIFIC DETERMINATION)  
**Unit Size/Rating/Capacity:** 9.8 MMBtu/hr Digester Gas (low heating value)\*  
**Equipment Location:** SYNERGEX VENTURES  
 8550 FRUITRIDGE RD  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	0.068 lb/MMBTU
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	0.06 lb/MMBTU
	<b>Technology Description:</b>	Emission estimate from John Zink
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	None
	<b>Technology Description:</b>	50 PPM of H2S achieved with the use of an Iron Sponge
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	None
	<b>Technology Description:</b>	Smokeless Combustion and a LPG or Natural Gas Fired Pilot
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	None
	<b>Technology Description:</b>	Smokeless Combustion and a LPG or Natural Gas Fired Pilot
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	None
	<b>Technology Description:</b>	Operation in accordance with the manufacturers specifications in order to minimize CO emissions
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	None
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** \* Although the flare is actually rated at 10.65 MMBtu/hr when burning natural gas, when burning digester gas, the heat release is between 737,000 btu/hr to 9,800,000 btu/hr. Therefore, the rating of the flare will be considered to be 9.8 MMBtu/hr.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**ASPHALT PLANT**

BACT Size: Minor Source BACT

**ASPHALT PLANT**

<b>BACT Determination Number:</b> 194	<b>BACT Determination Date:</b> 9/7/2018
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**Equipment Information**

**Permit Number:** 25615  
**Equipment Description:** ASPHALT PLANT  
**Unit Size/Rating/Capacity:** 140 MMBtu/hr  
**Equipment Location:** GEORGE REED, INC.  
 900 W. ELKHORN BLVD  
 RIO LINDA, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	See BACT #194 evaluation for requirements
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	<= 36 ppmvd @ 3% O2
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	PUC quality natural gas or LPG as a primary fuel
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	See BACT #194 evaluation for requirements
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	See BACT #194 evaluation for requirements
	<b>Basis:</b>	
<b>CO</b>	<b>Standard:</b>	<=400 ppmvd @ 3% O2
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** T-BACT is equivalent to BACT. This BACT determination is for a drum mix hot mix asphalt plant.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**BOILER/HEATER > 5 MMBTU**

BACT Size: Minor Source BACT

**BOILER**

<b>BACT Determination Number:</b> 185	<b>BACT Determination Date:</b> 6/19/2018
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**Equipment Information**

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** BOILER  
**Unit Size/Rating/Capacity:** >10 MMBtu/hr to ≤ 20 MMBtu/hr at ≤ 30% capacity  
**Equipment Location:**

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas or LPG
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	9 ppm at 3% O2
	<b>Technology Description:</b>	Low NOx burner
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas or LPG
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas or LPG
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas or LPG
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Firetube Boilers: 50 ppmvd corrected to 3% O2 Watertube Boilers: 100 ppmvd corrected to 3% O2
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** 30% annual capacity is equivalent to full fire at 2,592 hours/year.

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

<b>BACT Determination Number:</b> 157	<b>BACT Determination Date:</b> 6/19/2018
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### Equipment Information

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** BOILER  
**Unit Size/Rating/Capacity:** ≥5 MMBtu/hr and ≤ 10 MMBtu/hr at ≤ 50% capacity  
**Equipment Location:**

### BACT Determination Information

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas or LPG
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	9 ppm at 3% O <sub>2</sub>
	<b>Technology Description:</b>	9 ppm at 3% O <sub>2</sub> , Low NOx burner
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas or LPG
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas or LPG
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas or LPG
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	50/100 ppm @ 3% O <sub>2</sub> for firetube/watertube
	<b>Technology Description:</b>	Firetube Boilers: 50 ppmvd corrected to 3% O <sub>2</sub> Watertube Boilers: 100 ppmvd corrected to 3% O <sub>2</sub>
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** 50% annual capacity is equivalent to full fire at 4,380 hours/year.

**District Contact:**

<b>BACT Determination Number:</b> 177	<b>BACT Determination Date:</b> 6/19/2018
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### Equipment Information

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** BOILER  
**Unit Size/Rating/Capacity:** ≥5 MMBtu/hr and ≤ 10 MMBtu/hr > at 50% Capacity  
**Equipment Location:**

### BACT Determination Information

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	7 ppm at 3% O2
	<b>Technology Description:</b>	Ultra Low NOx burner
	<b>Basis:</b>	Cost Effective
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Firetube Boilers: 50 ppmvd corrected to 3% O2 Watertube Boilers: 100 ppmvd corrected to 3% O2
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** 50% annual capacity is equivalent to full fire at 4,380 hours/year.

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

<b>BACT Determination Number:</b> 186	<b>BACT Determination Date:</b> 6/19/2018
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**Equipment Information**

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** BOILER  
**Unit Size/Rating/Capacity:** >10 MMBtu/hr to ≤ 20 MMBtu/hr at > 30% capacity  
**Equipment Location:**

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	7 ppm at 3% O2
	<b>Technology Description:</b>	Ultra Low NOx burner
	<b>Basis:</b>	Cost Effective
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Good combustion practice and use of natural gas
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Firetube Boilers: 50 ppmvd corrected to 3% O2 Watertube Boilers: 100 ppmvd corrected to 3% O2
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** 30% annual capacity is equivalent to full fire at 2,592 hours/year.

**District Contact:**

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**Bulk Terminal Loading Rack**

BACT Size: Minor Source BACT

Bulk Terminal Loading Rack and VCU

<b>BACT Determination Number:</b> 164	<b>BACT Determination Date:</b> 8/15/2017
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**Equipment Information**

**Permit Number:** 25229  
**Equipment Description:** Bulk Terminal Loading Rack and VCU  
**Unit Size/Rating/Capacity:** 39.1 MMBtu/hr  
**Equipment Location:** PHILLIPS 66 COMPANY  
 76 BROADWAY  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	0.02 lb/1000 gal
	<b>Technology Description:</b>	Bottom Loading with dry break couplers and vapor collection system venting to a vapor control unit that meets 0.02 lb/1000 gallons loaded (A)
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	0.034 lb/1000 gal
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Natural gas or LPG fired flare
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	0.01 grains/scf
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	0.01 grains/scf
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	0.05 lb/1000 gal
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	N/A
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**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.

**District Contact:** Matt Baldwin Phone No.: (916) 874 - 4858 email: mbaldwin@airquality.org



**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**Coating - Adhesives**

BACT Size:

**Adhesive Application Operation**

<b>BACT Determination Number:</b> 227	<b>BACT Determination Date:</b> 5/24/2019
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**Equipment Information**

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

**BACT Determination Information**

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

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

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**COATING - AEROSPACE**

BACT Size: Minor Source BACT

PAINT SPRAY BOOTH

<b>BACT Determination Number:</b> 183	<b>BACT Determination Date:</b> 9/18/2018
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**Equipment Information**

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** PAINT SPRAY BOOTH  
**Unit Size/Rating/Capacity:** > 4,785 lb VOC/year Per Project  
**Equipment Location:**

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	1.Compliance with SMAQMD Rule 456 and aerospace coatings BACT VOC limits (see Tables 1-3 in BACT Determination Evaluation), and VOC control system with overall capture efficiency ≥90% by weight 2.Use of an enclosed gun cleaner
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	30 ppmvd @ 3% O2 or 0.036 lb/MMBtu/hr
	<b>Technology Description:</b>	1.For heaters ≥ 325,000 Btu/hr, low NOx burner, 30 ppmvd @ 3% O2 or 0.036 lb/MMBtu/hr
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	1.Enclosed paint booth with use of dry filters and use of HVLP, properly maintained
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** For T-BACT:  
 1.Compliance with SMAQMD Rule 456 and aerospace coatings BACT VOC limits (see Tables 1-3 of BACT Determination Evaluation), and VOC control system with overall capture efficiency ≥90% by weight  
 2.Compliance with 40 CFR Subpart 63 GG limits for volatile HAPs 3.Compliance with 40 CFR 63 Subpart HHHHHH for metals 4.For major sources of HAPs, compliance with 40 CFR 63, Subpart GG

**District Contact:**

<b>BACT Determination Number:</b>	182	<b>BACT Determination Date:</b>	9/18/2018
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### Equipment Information

**Permit Number:** 25528  
**Equipment Description:** PAINT SPRAY BOOTH  
**Unit Size/Rating/Capacity:** ≤ 4,785 lbs VOC/year Per Project  
**Equipment Location:** COMPOSITE ENGINEERING INC, A KRATOS CO  
5301 RALEY BLVD  
SACRAMENTO, CA

### BACT Determination Information

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	1.Compliance with SMAQMD Rule 456 and aerospace coatings BACT VOC limits (see Tables 1-3 in BACT Determination Evaluation) 2.Use of an enclosed gun cleaner
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	30 ppmvd @ 3% O2 or 0.036 lb/MMBtu/hr
	<b>Technology Description:</b>	1.For heaters ≥ 325,000 Btu/hr, low NOx burner, 30 ppmvd @ 3% O2 or 0.036 lb/MMBtu/hr
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	1.Enclosed paint booth with use of dry filters and use of HVLP, properly maintained
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** For T-BACT:  
1.Compliance with SMAQMD Rule 456 and aerospace coatings BACT VOC limits (see Tables 1-3 in BACT Determination Evaluation), and VOC control system with overall capture efficiency ≥90% by weight  
2.Compliance with 40 CFR Subpart 63 GG limits for volatile HAPs 3.Compliance with 40 CFR 63 Subpart HHHHHH for metals 4. For major sources of HAPs, compliance with 40 CFR 63, Subpart GG

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**COATING - AUTO BODY**

BACT Size: Minor Source BACT

**PAINT SPRAY BOOTH**

<b>BACT Determination Number:</b> 153	<b>BACT Determination Date:</b> 2/5/2018
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**Equipment Information**

**Permit Number:** 24973  
**Equipment Description:** PAINT SPRAY BOOTH  
**Unit Size/Rating/Capacity:** ≤ 4,700 lbs VOC/year  
**Equipment Location:** SACRAMENTO AUTO BODY, INC  
 8420 ELDER CREEK RD. STE A2  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	4,700 lb/year
	<b>Technology Description:</b>	Compliance with SMAQMD Rule 459. For heaters, use of natural gas or LPG fired burner
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	30 ppmvd @ 3% O2 or 0.036 lb/MMBTu/hr
	<b>Technology Description:</b>	low NOx burner, natural gas or LPG fired
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	For heaters, natural gas or LPG fired burner
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	98% control efficiency, 0.0015 gr/dcsf
	<b>Technology Description:</b>	Spray booth with dry filters or waterwash, properly maintained. HVLP spray equivalent application equipment. For heaters, natural gas or LPG fired burner
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	98% control efficiency, 0.0015 gr/dcsf
	<b>Technology Description:</b>	Spray booth with dry filters or waterwash, properly maintained. HVLP spray equivalent application equipment. For heaters, natural gas or LPG fired burner
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	For heaters, natural gas or LPG fired burner
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** T-BACT is the following:  
 1.Spray booth with filter system, 98% PM10 control efficiency, HVLP spray equipment or equivalent technology  
 2.Compliance with VOC content compliant with BAAQMD Reg. 8, Rule 45 and transfer efficiency complying with Reg. 8, rule 45  
 3.Emissions controlled to overall capture/destruction efficiency ≥ 90% by weight

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

<b>BACT Determination Number:</b> 154	<b>BACT Determination Date:</b> 2/5/2018
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### Equipment Information

**Permit Number:** 24973  
**Equipment Description:** PAINT SPRAY BOOTH  
**Unit Size/Rating/Capacity:** > 4,700 lb VOC/year  
**Equipment Location:** SACRAMENTO AUTO BODY, INC  
 8420 ELDER CREEK RD. STE A2  
 SACRAMENTO, CA

### BACT Determination Information

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Coatings with VOC content and transfer efficiency complying with BAAQMD Reg. 8, Rule 45. Overall capture/destruction efficiency $\geq$ 90% by weight. For heaters, use of natural gas or LPG fired burner
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	30 ppmvd @ 3% O2 or 0.036 lb/MMBtu/hr
	<b>Technology Description:</b>	For heaters, Natural gas or LPG fired burner
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	For heaters, natural gas or LPG fired burner
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	98% control efficiency, 0.0015 gr/dcsf
	<b>Technology Description:</b>	HVLP spray or equivalent application equipment. For heaters, natural gas or LPG fired burner.
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	98% control efficiency, 0.0015 gr/dcsf
	<b>Technology Description:</b>	HVLP spray or equivalent application equipment. For heaters, natural gas or LPG fired burner.
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	For heaters, natural gas or LPG fired burner
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** For 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  $\geq$  90% by weight

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**COATING - PLASTIC PARTS**

BACT Size: Minor Source BACT

PAINT SPRAY BOOTH

<b>BACT Determination Number:</b> 189	<b>BACT Determination Date:</b> 2/20/2019
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**Equipment Information**

**Permit Number:** 25995  
**Equipment Description:** PAINT SPRAY BOOTH  
**Unit Size/Rating/Capacity:** > 4,700 lb VOC/year -Exc. Plsr. Craft & Bus. Mchn.  
**Equipment Location:** T.M. COBB CO  
 8490 ROVANA CIR.  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	1.Compliance with District Rule 468, except where noted in footnote (A) of the BACT table in the BACT evaluation and VOC control system with ≥ 90% efficiency, or 2.Use of low-VOC materials resulting in an equivalent emission reduction
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Enclosed paint booth with dry filters or water wash and use of HVLP spray guns or equivalent
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Enclosed paint booth with dry filters or water wash and use of HVLP spray guns or equivalent
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** This BACT is for plastic parts coating operations and excludes pleasure craft and business machine coating operations. VOC: Reference BACT evaluation for footnote (A) requirements.

T-BACT was determined to be compliance with NESHAP HHHHHH where applicable.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**COATING - PLEASURE CRAFT**

BACT Size: Minor Source BACT

**COATING OPERATION**

<b>BACT Determination Number:</b> 204	<b>BACT Determination Date:</b> 10/2/2018
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**Equipment Information**

**Permit Number:** 24925  
**Equipment Description:** COATING OPERATION  
**Unit Size/Rating/Capacity:** ≤ 4,700 lbs VOC/year  
**Equipment Location:** DELTA BOAT WORKS  
 106 W BRANNAN ISLAND RD  
 ISLETON, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Compliance with the pleasure craft VOC content limits of SJVUAPCD Rule 4603, except where noted in footnote (A)
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Enclosed paint booth with dry filters or water wash and use of HVLP spray guns or equivalent
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Enclosed paint booth with dry filters or water wash and use of HVLP spray guns or equivalent
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** (A)The following coating categories listed in SJVUAPCD Rule 4603 must meet the following standard: antifoulant coatings: aluminum substrate: 440 g/l, other substrates: 330 g/l, - high gloss coatings: 340 g/l - extreme high gloss coatings: 490 g/l - pretreatment wash primers: 420 g/l - primers: 340 g/l - general coatings: 340 g/l.

**District Contact:** Matt Baldwin Phone No.: (916) 874 - 4858 email: mbaldwin@airquality.org

<b>BACT Determination Number:</b> 205	<b>BACT Determination Date:</b> 10/2/2018
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**Equipment Information**

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** COATING OPERATION  
**Unit Size/Rating/Capacity:** > 4,700 pounds per year  
**Equipment Location:**

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	1.Compliance with the pleasure craft VOC content limits of SJVUAPCD Rule 4603, except where noted in footnote (A), and VOC control system with ≥ 90% overall efficiency, or 2.Use of low-VOC materials resulting in an equivalent emission reduction.
	<b>Basis:</b>	Cost Effective
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Enclosed paint booth with dry filters or water wash and use of HVLP spray guns
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Enclosed paint booth with dry filters or water wash and use of HVLP spray guns
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** (A)The following coating categories listed in SJVUAPCD Rule 4603 must meet the following standard: antifoulant coatings: aluminum substrate: 440 g/l, other substrates: 330 g/l, - high gloss coatings: 340 g/l - extreme high gloss coatings: 490 g/l - pretreatment wash primers: 420 g/l - primers: 340 g/l - general coatings: 340 g/l.

**District Contact:** Matt Baldwin Phone No.: (916) 874 - 4858 email: mbaldwin@airquality.org



**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**COATING - WOOD**

BACT Size: Minor Source BACT

**PAINT SPRAY BOOTH**

<b>BACT Determination Number:</b> 191	<b>BACT Determination Date:</b> 8/29/2018
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**Equipment Information**

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** PAINT SPRAY BOOTH  
**Unit Size/Rating/Capacity:** Emissions >4219 lb VOC/year  
**Equipment Location:**

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	See comments for BACT VOC limits
	<b>Technology Description:</b>	Compliance with Rule 463 & BACT VOC limits, and VOC control system with ≥90% collection efficiency and ≥ 95% destruction efficiency; OR use of super clean materials (<5% VOC by weight); OR use of low-VOC materials with equivalent emission reduction
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	30 ppmvd @ 3% O2 or 0.036 lb/MMBtu
	<b>Technology Description:</b>	For heaters, low NOx burner, 30 ppmvd @ 3% O2 or 0.036 lb/MMBtu
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Enclosed spray booth with properly maintained dry filters or waterwash, HVLP spray or equivalent application equipment
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Enclosed spray booth with properly maintained dry filters or waterwash
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** BACT VOC limits are use of coatings, solvent cleaning, and strippers compliant with SCAQMD Regulation XI, Rule 1136. See BACT Determination #191 analysis Tables 1-3 for more details. For T-BACT see page 30 of 32 of BACT Determination #191.

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

<b>BACT Determination Number:</b> 190	<b>BACT Determination Date:</b> 8/29/2018
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### Equipment Information

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** PAINT SPRAY BOOTH  
**Unit Size/Rating/Capacity:** Emissions ≤4219 lb VOC/year  
**Equipment Location:**

### BACT Determination Information

<b>ROCs</b>	<b>Standard:</b>	See comments for BACT VOC limits
	<b>Technology Description:</b>	Compliance with Rule 463 and BACT VOC limits (see comments) and HVLP spray or equivalent application equipment.
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	30 ppmvd @ 3% O2 or 0.036 lb/MMBtu
	<b>Technology Description:</b>	For heaters, low NOx burner, 30 ppmvd @ 3% O2 or 0.036 lb/MMBtu
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Enclosed spray booth with properly maintained dry filters or water wash; HVLP spray or equivalent application equipment
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Enclosed spray booth with properly maintained dry filters or waterwash
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** BACT for VOC limits are use of coatings, solvent cleaning, and strippers compliant with SCAQMD Regulation XI, Rule 1136. See BACT Determination #190 analysis Tables 1-3 for more details. T-BACT is the following: 1.HVLP spray or equivalent application equipment 2.Compliance with SMAQMD Rule 463 and SMAQMD BACT coating, solvent cleaning, and stripping VOC limits (see Tables 1-3). For major sources, emission limits of Tables 1 & 2 to Subpart QQQQ of Part 63 and emission limits of Table 3 to Subpart JJ of Part 63, whichever is more stringent.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**Coating Adhesives**

BACT Size: Minor Source BACT

Adhesive Application

<b>BACT Determination Number:</b> 226	<b>BACT Determination Date:</b> 5/24/2019
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**Equipment Information**

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

**BACT Determination Information**

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

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

**District Contact:**

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**COATING OPERATION**

BACT Size: Minor Source BACT

**PAINT SPRAY BOOTH POWDER**

<b>BACT Determination Number:</b> 163	<b>BACT Determination Date:</b> 2/5/2018
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**Equipment Information**

**Permit Number:** 24880  
**Equipment Description:** PAINT SPRAY BOOTH POWDER  
**Unit Size/Rating/Capacity:** N/A  
**Equipment Location:** PACIFIC POWDER COATING  
 8637 23RD AVE  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	< 1.5% by weight
	<b>Technology Description:</b>	Low-VOC Coating (< 1.5% VOC by Weight) and Natural gas fired fusing oven
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	30 ppmvd @ 3% O2
	<b>Technology Description:</b>	Low-NOx burner
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Natural gas fired fusing oven
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Powder Recovery System with a Cyclone Followed by a Baghouse or Cartridge Dust Collector or HEPA Filters (≥ 99% efficiency)
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Powder Recovery System with a Cyclone Followed by a Baghouse or Cartridge Dust Collector or HEPA Filters (≥ 99% efficiency)
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Natural gas fired fusing oven
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	

**Comments:**

**District Contact:** Matt Baldwin Phone No.: (916) 874 - 4858 email: mbaldwin@airquality.org

SMAQMD BACT CLEARINGHOUSE

CATEGORY:

**COATING-PLASTIC PARTS**

BACT Size: Minor Source

PAINT SPRAY BOOTH

<b>BACT Determination Number:</b> 188	<b>BACT Determination Date:</b> 2/20/2019
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**Equipment Information**

**Permit Number:** 25995  
**Equipment Description:** PAINT SPRAY BOOTH  
**Unit Size/Rating/Capacity:** ≤ 4,700 lb VOC/year -Exc. Plsr. Craft & Bus. Mchn.  
**Equipment Location:** T.M. COBB CO  
 8490 ROVANA CIR.  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Compliance with District Rule 468, except as noted in footnote (A) of the BACT table in the BACT evaluation
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Enclosed paint booth with dry filters or water wash and use of HVLP spray guns or equivalent
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Enclosed paint booth with dry filters or water wash and use of HVLP spray guns or equivalent
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** This BACT is for plastic parts coating operations and excludes pleasure craft and business machine coating operations. VOC: Reference BACT evaluation for footnote (A) requirements.

T-BACT was determined to be compliance with NESHAP HHHHHH where applicable.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**CONCRETE BATCH PLANT**

BACT Size: Greater than or equal to 5 cubic yards per

Concrete Batch Plant

<b>BACT Determination Number:</b> 193	<b>BACT Determination Date:</b> 8/14/2018
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**Equipment Information**

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** Concrete Batch Plant  
**Unit Size/Rating/Capacity:** Greater than or equal to 5 cubic yards per batch  
**Equipment Location:**

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	See page 8 of 8 of BACT Determination 193
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	Equivalent to PM10 controls
	<b>Technology Description:</b>	See page 8 of 8 of Bact Determination 193
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice

**Comments:** The Technology description is too long to fit in the comment section. Please see page 8 of 8 of Bact Determination 193 for the control requirements of PM10/PM2.5.  
 Public notice comment period ended on 8/13/18.

**District Contact:**

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**DRY CLEANING UNIT**

BACT Size: Minor Source BACT

DRY CLEANING UNIT DIBUTOXYMETHANE

<b>BACT Determination Number:</b> 126	<b>BACT Determination Date:</b> 8/25/2017
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**Equipment Information**

**Permit Number:** 24753  
**Equipment Description:** DRY CLEANING UNIT DIBUTOXYMETHANE  
**Unit Size/Rating/Capacity:**  
**Equipment Location:** CLEANERS EXPRESS  
 7600 GREENHAVEN DR  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Closed-loop, Dry-to-Dry, machine with internal refrigerated condenser achieving outlet vapor temperature ≤45°F, and drying sensor/controller.
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM2.5</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>CO</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** This determination includes petroleum and non-halogenated solvents. See BACT Determination Attachment E for operational standards. T-BACT standards are identical to BACT standards.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**DRY CLEANING UNIT**

BACT Size: Minor Source BACT

**DRY CLEANING UNIT SYNTHETIC/HALOGENATED**

<b>BACT Determination Number:</b> 127	<b>BACT Determination Date:</b> 8/25/2017
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**Equipment Information**

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** DRY CLEANING UNIT SYNTHETIC/HALOGENATED  
**Unit Size/Rating/Capacity:**  
**Equipment Location:**

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	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 ≤300ppmv.
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM2.5</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>CO</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** Synthetic solvent is defined as any halogenated hydrocarbon including, but not limited to, tetrachloroethylene (perchloroethylene, Perc, or PCE); 1,1,1-trichloroethane (111-TCA); and trichlorotrifluoroethane (Valclene or CFC-113). See BACT Determination #127 Attachment F for operational standards. T-BACT standards are identical to BACT standards.

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



**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**DRYER (NON PROCESS HTR)**

BACT Size: Minor Source BACT

DRYER

<b>BACT Determination Number:</b> 175	<b>BACT Determination Date:</b> 6/5/2018
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**Equipment Information**

**Permit Number:** 25027  
**Equipment Description:** DRYER  
**Unit Size/Rating/Capacity:** <2.0 MMBtu/hr  
**Equipment Location:** SACRAMENTO LAUNDRY COMPANY  
 3750 PELL CIR  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	Natural gas fueled
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	60 ppmvd @ 3% O2
	<b>Technology Description:</b>	Low-NOx burner
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	Natural gas fueled
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	75% Control
	<b>Technology Description:</b>	Lint Collector and natural gas fuel, or equal
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	75% Control
	<b>Technology Description:</b>	Lint Collector and natural gas fuel, or equal
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	No standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	N/A
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:**

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**FIBERGLASS OPERATION**

BACT Size: Minor Source BACT

**FIBERGLASS MFG PROCESS**

<b>BACT Determination Number:</b> 162	<b>BACT Determination Date:</b> 8/25/2017
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**Equipment Information**

**Permit Number:** 24673  
**Equipment Description:** FIBERGLASS MFG PROCESS  
**Unit Size/Rating/Capacity:** >=1,170 lb VOC/month or >4,071 lb VOC/year  
**Equipment Location:** AA PRODUCT ASSEMBLY LLC  
 9266 BEATTY DR, STE B  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Compliant with Rule 465 and VOC Control System with >= 90% Collection Efficiency and >= 95% Destruction Efficiency, or the use of super compliant materials (<5% VOC by weight); or the Use of Low-VOC Materials resulting in equal emissions reduction
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	N/A
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	N/A
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Spray booth with exhaust filters and HVLP or equivalent application equipment as specified in Rule 465
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Spray booth with exhaust filters and HVLP or equivalent application equipment as specified in Rule 465
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	N/A
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	N/A
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	

**Comments:** Additional VOC controls are achieved in practice for monthly VOC emissions >= 1,170 lb and cost effective for annual VOC emissions > 4,071 lb

**District Contact:** Matt Baldwin Phone No.: (916) 874 - 4858 email: mbaldwin@airquality.org

<b>BACT Determination Number:</b>	161	<b>BACT Determination Date:</b>	8/25/2017
<b>Equipment Information</b>			
<b>Permit Number:</b>	24673		
<b>Equipment Description:</b>	FIBERGLASS MFG PROCESS		
<b>Unit Size/Rating/Capacity:</b>	<1,170 lb VOC /month and <=4,071 lb VOC/year		
<b>Equipment Location:</b>	AA PRODUCT ASSEMBLY LLC 9266 BEATTY DR, STE B SACRAMENTO, CA		
<b>BACT Determination Information</b>			
<b>ROCs</b>	<b>Standard:</b>		
	<b>Technology Description:</b>	Open molding using compliant resins and gel coats (See comments), and the use of vapor suppressed Tub/Shower resins; or Closed Molding	
	<b>Basis:</b>	Achieved in Practice	
<b>NOx</b>	<b>Standard:</b>	N/A	
	<b>Technology Description:</b>	No standard	
	<b>Basis:</b>		
<b>SOx</b>	<b>Standard:</b>	N/A	
	<b>Technology Description:</b>	No standard	
	<b>Basis:</b>		
<b>PM10</b>	<b>Standard:</b>		
	<b>Technology Description:</b>	Spray booth with exhaust filters and HVLP or equivalent application equipment as specified in applicable District Rule	
	<b>Basis:</b>	Achieved in Practice	
<b>PM2.5</b>	<b>Standard:</b>		
	<b>Technology Description:</b>	Spray booth with exhaust filters and HVLP or equivalent application equipment as specified in applicable District Rule	
	<b>Basis:</b>	Achieved in Practice	
<b>CO</b>	<b>Standard:</b>	N/A	
	<b>Technology Description:</b>	No standard	
	<b>Basis:</b>		
<b>LEAD</b>	<b>Standard:</b>	N/A	
	<b>Technology Description:</b>	No standard	
	<b>Basis:</b>		
<b>Comments:</b>	Maximum monomer content percent by weight: clear marble resin gel coats = 40%; All other clear gel coats = 44%; White and off-white gel coats = 30%; non-white gel coats = 37%; primer pigmented gel coats = 28%; specialty gel coats = 48%; tooling gel coat = 40%; Marble resins = 10% with fillers or 32% without; solid surface resins = 17%; Tub/Shower resins = 24% with fillers or 35% without; lamination resins = 31% with fillers or 35% without; fire retardant resins = 38%; corrosion resistant resins = 48%; high strength resins = 40%; atomized tooling resins = 39%; non-atomized tooling resins = 30%; all		
<b>District Contact:</b>	Matt Baldwin	Phone No.:	(916) 874 - 4858
		email:	mbaldwin@airquality.org

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**FLEXOGRAPHIC PRESS NON-HEATSET**

BACT Size:

**PRINTING PRESS**

<b>BACT Determination Number:</b> 176	<b>BACT Determination Date:</b> 12/22/2017
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**Equipment Information**

**Permit Number:** 24803  
**Equipment Description:** PRINTING PRESS  
**Unit Size/Rating/Capacity:** ≥ 8,683 LBS/YEAR UNCONTROLLED VOC  
**Equipment Location:** PACKAGE ONE  
 4225 PELL DR  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	See comments
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM2.5</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>CO</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** BACT: Use of material (as defined in SMAQMD Rule 450 - Graphic Arts) compliant with SMAQMD Rule 450, use of inks with a VOC content (less water and exempt compounds) of 0.3 lb/gal for low end graphics, use of ink with a VOC content not exceeding 1.1 lb/gal (less water and exempt compounds) for high-end graphics, use of adhesives with a VOC content (less water and exempt compounds) not exceeding 0.044 lb/gal, no VOC clean-up solvents and a VOC control device that has an overall system efficiency (collection and destruction) of at least 98.5% for VOC. TBACT: Compliance with VOC

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

<b>BACT Determination Number:</b> 149	<b>BACT Determination Date:</b> 12/22/2017
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### Equipment Information

**Permit Number:** 24803  
**Equipment Description:** PRINTING PRESS  
**Unit Size/Rating/Capacity:** < 8,683 LBS/YEAR UNCONTROLLED VOC  
**Equipment Location:** OFFICE OF STATE PUBLISHING  
 4225 PELL DR  
 SACRAMENTO, CA

### BACT Determination Information

<b>ROCs</b>	<b>Standard:</b>	See Comments
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM2.5</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>CO</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** BACT: Use of material (as defined in SMAQMD Rule 450 - Graphic Arts) compliant with SMAQMD Rule 450, use of inks with a VOC content (less water and exempt compounds) of 0.3 lb/gal for low end graphics, use of ink with a VOC content not exceeding 1.1 lb/gal (less water and exempt compounds) for high-end graphics, use of adhesives with a VOC content (less water and exempt compounds) not exceeding 0.044 lb/gal and no VOC clean-up solvents. TBACT: Compliance with VOC BACT and HAP emission limits of Section 63.825(b) of 40 CFR 63 Subpart kk.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**FUEL DISPENSING**

BACT Size: Minor Source BACT

AVGAS LOADING AND/OR UNLOADING

<b>BACT Determination Number:</b> 187	<b>BACT Determination Date:</b> 5/7/2018
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**Equipment Information**

**Permit Number:** 24806  
**Equipment Description:** AVGAS LOADING AND/OR UNLOADING  
**Unit Size/Rating/Capacity:** max 19800 gal. & max dispensing <20k/day  
**Equipment Location:** MCCLELLAN JET SERVICES  
 4545 DUDLEY BLVD  
 MCCLELLAN, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	See Comment Field Below
	<b>Technology Description:</b>	See Comment Field Below
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	NA
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	NA
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	NA
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM2.5</b>	<b>Standard:</b>	NA
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>CO</b>	<b>Standard:</b>	NA
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	NA
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** 1) The use of vapor recovery system with at least 95% control efficiency for aboveground storage tanks,  
 2) The use of vapor recovery system with at least 98% control efficiency for underground storage tanks.

Control efficiency of a system can be verified either by using an equivalent system that is certified by CARB for use with other fuels, or by testing the system using the test procedure used by CARB for certification.

**District Contact:** Isam Boulad Phone No.: (916) 874 - 4859 email: [iboulad@airquality.org](mailto:iboulad@airquality.org)

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**FURNACE/SMELTER**

BACT Size: Minor Source BACT

**METAL MELTING FURNACE**

<b>BACT Determination Number:</b> 211	<b>BACT Determination Date:</b> 12/12/2018
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**Equipment Information**

**Permit Number:** 25548  
**Equipment Description:** METAL MELTING FURNACE  
**Unit Size/Rating/Capacity:** <1.0 mmBTU/hr Burnout Oven, <1.0 mmBTU/hr Furnace  
**Equipment Location:** FROSTAD ATELIER  
 855 NATIONAL DRIVE  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	No standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>NOx</b>	<b>Standard:</b>	60 ppmvd @ 3% O2
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	Natural Gas
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	Natural Gas, clean charge, cover
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM2.5</b>	<b>Standard:</b>	Natural Gas, clean charge, cover
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	No standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	No standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:**

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**GDF**

BACT Size: Minor Source BACT

Gasoline or E85 storage tanks

<b>BACT Determination Number:</b> 178	<b>BACT Determination Date:</b> 12/23/2017
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**Equipment Information**

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

**BACT Determination Information**

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

**Comments:** 1. Gasoline or E85 transfer or "pump out" from or into any stationary storage container with a capacity of 250 gallons or more, or mobile fueler with a capacity of 120 gallons or more.  
 2. Any system or component being evaluated for certification purposes must be operating under current and valid CARB authorization.

**District Contact:** Isam Boulad Phone No.: (916) 874 - 4859 email: [iboulad@airquality.org](mailto:iboulad@airquality.org)



**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**GDF**

BACT Size: Minor Source BACT

Phase II Vapor Recovery System

<b>BACT Determination Number:</b> 179	<b>BACT Determination Date:</b> 12/23/2017
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**Equipment Information**

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** Phase II Vapor Recovery System  
**Unit Size/Rating/Capacity:** Any storage container or delivery vessel  
**Equipment Location:**

**BACT Determination Information**

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

**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

**District Contact:** Isam Boulad Phone No.: (916) 874 - 4859 email: [iboulad@airquality.org](mailto:iboulad@airquality.org)

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**IC ENGINE COMPRESSION-PRIME**

BACT Size: Minor Source BACT

**IC ENGINE PRIME POWER**

<b>BACT Determination Number:</b> 165	<b>BACT Determination Date:</b> 9/12/2017
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**Equipment Information**

**Permit Number:** 25331  
**Equipment Description:** IC ENGINE PRIME POWER  
**Unit Size/Rating/Capacity:** All Horsepower: Nonroad Self-Propelled IC Engine  
**Equipment Location:** ZANKER ROAD RESOURCE MGMT, LTD DBA FLORIN PERKINS  
 4201 FLORIN PERKINS RD  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	See Comments Below
	<b>Technology Description:</b>	<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
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	See Comments Below
	<b>Technology Description:</b>	<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
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	See Comments Below
	<b>Technology Description:</b>	<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
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	See Comments Below
	<b>Technology Description:</b>	<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
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	See Comments Below
	<b>Technology Description:</b>	<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
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	See Comments Below
	<b>Technology Description:</b>	<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
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

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

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

<b>BACT Determination Number:</b> 166	<b>BACT Determination Date:</b> 9/12/2017
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### Equipment Information

**Permit Number:** 25331  
**Equipment Description:** IC ENGINE PRIME POWER  
**Unit Size/Rating/Capacity:** Portable Greenwaste Grinder  
**Equipment Location:** ZANKER ROAD RESOURCE MGMT, LTD DBA FLORIN PERKINS  
 4201 FLORIN PERKINS RD  
 SACRAMENTO, CA

### BACT Determination Information

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

**Comments:** Minor Source/Small Emitter BACT (< 10 lb/day)

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

<b>BACT Determination Number:</b> 167	<b>BACT Determination Date:</b> 9/12/2017
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### Equipment Information

**Permit Number:** 25332  
**Equipment Description:** IC ENGINE PRIME POWER  
**Unit Size/Rating/Capacity:** Portable Greenwaste Trommel Screen  
**Equipment Location:** ZANKER ROAD RESOURCE MGMT, LTD DBA FLORIN PERKINS  
 4201 FLORIN PERKINS RD  
 SACRAMENTO, CA

### BACT Determination Information

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	VEE < or equal to 5% Opacity
	<b>Technology Description:</b>	Water spray or adequate moisture content of process materials.
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	VEE < or equal to 5% Opacity
	<b>Technology Description:</b>	Water spray or adequate moisture content of process materials.
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** Minor Source/Small Emitter BACT (< 10 lb/day)

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**IC ENGINE COMPRESSION-STANDBY**

BACT Size: Minor Source BACT

**IC ENGINE STANDBY**

<b>BACT Determination Number:</b> 172	<b>BACT Determination Date:</b> 4/10/2018
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**Equipment Information**

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

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	Applicable NMHC + NOx emission standard
	<b>Technology Description:</b>	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.
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	Applicable NMHC + NOx emission standard
	<b>Technology Description:</b>	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.
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	CARB Diesel
	<b>Technology Description:</b>	Diesel fuel with a sulfur content no greater than 0.0015% by weight.
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	Applicable PM emission standard
	<b>Technology Description:</b>	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.
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	Applicable PM emission standard
	<b>Technology Description:</b>	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.
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	Applicable CO emission standard
	<b>Technology Description:</b>	Applicable CO 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.
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	N/A
	<b>Technology Description:</b>	N/A
	<b>Basis:</b>	

**Comments:** For emergency engines 50 ≤ bhp < 75, Tier 4 Interim certification is the requirement; for emergency engines 75 ≤ bhp < 750, Tier 3 certification is the requirement; for emergency engines ≥ 750 bhp, Tier 2 certification is the requirement.

**District Contact:**

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**IC ENGINE SPARK - PRIME**

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

**DEGASSING - IC ENGINE**

<b>BACT Determination Number:</b> 173	<b>BACT Determination Date:</b> 4/11/2018
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**Equipment Information**

**Permit Number:** 25320  
**Equipment Description:** DEGASSING - IC ENGINE  
**Unit Size/Rating/Capacity:** 2 - 49 HP Spark Ignited Engines, at 998 hr  
**Equipment Location:** PROACT FSI-FIELD SPECIALTIES INC

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	50 ppmvd @ 3% O2 as Hexane
	<b>Technology Description:</b>	See BACT for complete standard
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	None
	<b>Technology Description:</b>	3 way catalyst and air to fuel ratio controller
	<b>Basis:</b>	Cost Effective
<b>SOx</b>	<b>Standard:</b>	40 ppmvd
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	None
	<b>Technology Description:</b>	Use of Natural Gas or LPG as secondary Fuel
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	None
	<b>Technology Description:</b>	Use of Natural Gas or LPG as secondary Fuel
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	None
	<b>Technology Description:</b>	3 way catalyst and air to fuel ratio controller
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:**

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**IC ENGINE SPARK - PRIME**

BACT Size: Minor Source BACT

**IC ENGINE PRIME POWER**

<b>BACT Determination Number:</b>	143	<b>BACT Determination Date:</b>	5/14/2018
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**Equipment Information**

**Permit Number:** 24929  
**Equipment Description:** IC ENGINE PRIME POWER  
**Unit Size/Rating/Capacity:** Non-Agricultural Fossil Fueled Engines >50 BHP  
**Equipment Location:** KAISER FOUN HOSP SOUTH  
 6880 POWER INN RD  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	25 ppmvd @ 15% O2
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	5 ppmvd @ 15% O2
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	Comply with listed fuel options (see comments)
	<b>Technology Description:</b>	Operate exclusively on PUC-quality natural gas, commercial propane, butane, or liquefied petroleum gas, or a combination of such gases (see comments for alternative compliance)
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	Emissions ≤ uncontrolled natural gas combustion
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	Emissions ≤ uncontrolled natural gas combustion
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	56 ppmvd @ 15% O2 for < 2,064 bhp
	<b>Technology Description:</b>	For four stroke lean burn engines >500 bhp, 47 ppmvd @ 15% O2; For ≥ 2,064 bhp, 33 ppmvd @ 15% O2
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** This determination excludes biogas fueled engines and electrical generating engines.  
 Alternative compliance for SOx can be one of the following:  
 a) Limit gaseous fuel sulfur content to no more than five (5) grains of total sulfur per one hundred (100) standard cubic feet; or  
 b) Install and properly operate an Emission Control system that reduces SO2 emissions by at least 95% by weight.

**District Contact:** Joe Carle      Phone No.: (916) 874-4863      email: jquok@airquality.org

<b>BACT Determination Number:</b>	223	<b>BACT Determination Date:</b>	4/2/2019
<b>Equipment Information</b>			
<b>Permit Number:</b>	26066		
<b>Equipment Description:</b>	IC ENGINE PRIME POWER		
<b>Unit Size/Rating/Capacity:</b>	778 hp		
<b>Equipment Location:</b>	GENERATE GALT DIGESTER, LLC DBA MAAS ENERGY WORKS 9547 NEW HOPE RD GALT, CA		
<b>BACT Determination Information</b>			
<b>ROCs</b>	<b>Standard:</b>	See comment window	
	<b>Technology Description:</b>		
	<b>Basis:</b>	Achieved in Practice	
<b>NOx</b>	<b>Standard:</b>	11 ppmvd @ 15% O2	
	<b>Technology Description:</b>		
	<b>Basis:</b>	Achieved in Practice	
<b>SOx</b>	<b>Standard:</b>	40 ppmv as H2S in the fuel stream	
	<b>Technology Description:</b>		
	<b>Basis:</b>	Achieved in Practice	
<b>PM10</b>	<b>Standard:</b>	40 ppmv as H2S in the fuel stream	
	<b>Technology Description:</b>		
	<b>Basis:</b>	Achieved in Practice	
<b>PM2.5</b>	<b>Standard:</b>	40 ppmv as H2S in the fuel stream	
	<b>Technology Description:</b>		
	<b>Basis:</b>	Achieved in Practice	
<b>CO</b>	<b>Standard:</b>	1.8 g/bhp-hr or 250 ppmvd @ 15% O2	
	<b>Technology Description:</b>		
	<b>Basis:</b>	Achieved in Practice	
<b>LEAD</b>	<b>Standard:</b>		
	<b>Technology Description:</b>		
	<b>Basis:</b>		
<b>Comments:</b>	This BACT is for Bio gas fired engines only. VOC: 0.1 g/bhp-hr for lean burn engine or 30 ppmvd @ 3% O2 for rich burn or lean burn engines. T-BACT: Formaldehyde: Use of an oxidation catalyst. Ammonia Slip: 10 ppmvd @ 15% O2.		
<b>District Contact:</b>	Felix Trujillo	Phone No.:	(916) 874 - 7357
		email:	ftrujillo@airquality.org



**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**IC ENGINE SPARK - STANDBY**

BACT Size: Minor Source BACT

**IC ENGINE STANDBY**

<b>BACT Determination Number:</b> 209	<b>BACT Determination Date:</b> 12/18/2018
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**Equipment Information**

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

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	See Description
	<b>Technology Description:</b>	Lean burn: 86 ppmv @ 15% O2 (0.4 g/bhp-hr), Rich burn: 0.29 g/hp-hr
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	See Description
	<b>Technology Description:</b>	Lean burn: 0.5 g/hp-hr, Rich burn: 25 ppmvd @ 15 O2 (0.44 g/hp-hr) OR 96% weight reduction
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	Natural gas fuel or equivalent fuel
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	0.0099 lb/MMBtu
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	0.0099 lb/MMBtu
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	1.5 g/bhp-hr
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** T-BACT is equivalent to BACT for VOC.

**District Contact:**

<b>BACT Determination Number:</b> 208	<b>BACT Determination Date:</b> 12/18/2018
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**Equipment Information**

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

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	See Description
	<b>Technology Description:</b>	Lean burn: 86 ppmv @ 15% O2 (0.4 g/bhp-hr), Rich burn: 0.29 g/hp-hr
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	See Description
	<b>Technology Description:</b>	Lean burn: 1.0 g/hp-hr, Rich burn: 25 ppmvd @ 15 O2 (0.44 g/hp-hr) OR 96% weight reduction
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	Natural gas fuel or equivalent fuel
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	Natural gas fuel or equivalent fuel
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	Natural gas fuel or equivalent fuel
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	2.0 g/hp-hr
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** T-BACT is equivalent to BACT for VOC.

**District Contact:**

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**LANDFILL GAS FLARE**

BACT Size: Minor Source BACT

**LANDFILL GAS FLARE**

<b>BACT Determination Number:</b> 198	<b>BACT Determination Date:</b> 1/11/2019
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**Equipment Information**

**Permit Number:** 25596  
**Equipment Description:** LANDFILL GAS FLARE  
**Unit Size/Rating/Capacity:** 167 MMBtu/hr  
**Equipment Location:** CITY OF SACRAMENTO SOLID WASTE PUBLIC WORKS  
 20 28TH ST  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	See Comment Section
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	0.05 lb/MMBtu
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	0.04 lb/MMBtu
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	6.1 lb/MMcf
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	6.1 lb/MMcf
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	0.15 lb/MMBtu
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** This BACT is for a non-hazardous landfill. T-BACT is equivalent to BACT. BACT for the pilot is the use of natural gas or LPG/Propane.

VOC BACT Standard: 98% NMOC destruction efficiency or 20 ppmvd NMOC @ 3% O2 as Hexane.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**MANUFACTURING PROCESS**

BACT Size: Minor Source BACT

**POLYURETHANE FOAM MFG PROCESS**

<b>BACT Determination Number:</b> 192	<b>BACT Determination Date:</b> 7/3/2018
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**Equipment Information**

**Permit Number:** 25714  
**Equipment Description:** POLYURETHANE FOAM MFG PROCESS  
**Unit Size/Rating/Capacity:** VOC <=8,985 lb/yr  
**Equipment Location:** CLERPREM USA CORP  
 1330 DEL PASO BLVD, STE 300  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	1) VOC content-Adhesives 50 g/l, Cleaning solvents 25 g/l, 2) Seamless diisocyanate transfer pumps, 3) No Methylene Chloride or VOCs contained in an Auxiliary Blowing Agent. If VOC's are contained, see comments below
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	0.0015 gr/scf
	<b>Technology Description:</b>	Filtration
	<b>Basis:</b>	Cost Effective
<b>PM2.5</b>	<b>Standard:</b>	0.0015 gr/scf
	<b>Technology Description:</b>	Filtration
	<b>Basis:</b>	Cost Effective
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	

**Comments:** If VOC's are contained in an Auxiliary Blowing Agent, then implement  
 A.VOC collection of 90% by weight of the manufacturing emissions and the storage emissions, and  
 B.VOC control device with a 95% by weight destruction efficiency

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**Material Handling**

BACT Size: Minor Source

Volumetric Truck Based Concrete/Gunite Plants

<b>BACT Determination Number:</b> 220	<b>BACT Determination Date:</b> 5/24/2019
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**Equipment Information**

**Permit Number:** 25938  
**Equipment Description:** Volumetric Truck Based Concrete/Gunite Plants  
**Unit Size/Rating/Capacity:**  
**Equipment Location:** Triple-G-Gunite, Inc.  
 9200 Elder Creed Rd  
 SACRAMENTO, CA

**BACT Determination Information**

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

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

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**MATERIAL PROCESSING**

BACT Size: Small Emitter BACT (< 10lb/day)/Minor So **TRUCTION & DEMOLITION DEBRIS SORTING LINE**

<b>BACT Determination Number:</b> 195	<b>BACT Determination Date:</b> 10/19/2018
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**Equipment Information**

**Permit Number:** 25563  
**Equipment Description:** CONSTRUCTION & 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**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Use of water spray equipment on conveyors, screens, transfer points and stockpiles as necessary to control fugitive emissions.
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Use of water spray equipment on conveyors, screens, transfer points and stockpiles as necessary to control fugitive emissions.
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

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

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

SMAQMD BACT CLEARINGHOUSE

CATEGORY:

**MATERIAL PROCESSING**

BACT Size: Minor Source

PORTABLE WOOD MULCH DYEING OPERATION

<b>BACT Determination Number:</b> 196	<b>BACT Determination Date:</b> 10/19/2018
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**Equipment Information**

**Permit Number:** 25565  
**Equipment Description:** PORTABLE WOOD MULCH DYEING OPERATION  
**Unit Size/Rating/Capacity:**  
**Equipment Location:** ZANKER ROAD RESOURCE MGMT, LTD DBA FLORIN PERKINS  
 4201 FLORIN PERKINS RD  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Use of super compliant materials (< or = 0.01 lb VOC per lb of dye)
	<b>Basis:</b>	
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** The use of super compliant materials is considered technologically feasible.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**MISCELLANEOUS**

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

**CONCRETE RECYCLER**

<b>BACT Determination Number:</b> 146	<b>BACT Determination Date:</b> 4/5/2018
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**Equipment Information**

**Permit Number:** 24381  
**Equipment Description:** CONCRETE RECYCLER  
**Unit Size/Rating/Capacity:**  
**Equipment Location:** RIVER CITY WASTE RECYCLERS, LLC  
 10286 WATERMAN RD  
 ELK GROVE, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Use of water sprays on crushers, screens, transfer points and storage piles as necessary to show compliance with the most stringent 40 CFR Subpart OOO opacity limitations.
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Use of water sprays on crushers, screens, transfer points and storage piles as necessary to show compliance with the most stringent 40 CFR Subpart OOO opacity limitations.
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** This BACT is for a stationary concrete recycling operation.

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



**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**MISCELLANEOUS**

BACT Size: Minor Source BACT

HD PLASMA CUTTER

<b>BACT Determination Number:</b> 158	<b>BACT Determination Date:</b> 8/1/2017
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**Equipment Information**

**Permit Number:** 24729  
**Equipment Description:** HD PLASMA CUTTER  
**Unit Size/Rating/Capacity:**  
**Equipment Location:** ONETO METAL PRODUCTS CORP.  
 7485 REESE ROAD  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	99.9%
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	99.9%
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** TBACT was determined to be equivalent to BACT.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**MISCELLANEOUS**

BACT Size: Tortilla Oven ≤ 500 °F

**OVEN**

<b>BACT Determination Number:</b> 206	<b>BACT Determination Date:</b> 11/16/2018
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**Equipment Information**

**Permit Number:** 25860  
**Equipment Description:** OVEN  
**Unit Size/Rating/Capacity:** ≤ 500 °F and < 19 MMBtu/hr  
**Equipment Location:** BERBER FOOD MANUFACTURING DBA MI RANCHO  
 10115 IRON ROCK WAY  
 ELK GROVE, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	Natural gas fuel or equivalent
	<b>Technology Description:</b>	
	<b>Basis:</b>	Cost Effective
<b>NOx</b>	<b>Standard:</b>	30 ppmvd @ 3%O2
	<b>Technology Description:</b>	30 ppmvd @ 3%O2, 2.Natural gas with optional LPG as backup fuel
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	500 ppmvd @ 3% O2
	<b>Technology Description:</b>	Natural gas fuel or equivalent
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	Natural gas fuel or equivalent
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	Natural gas fuel or equivalent
	<b>Technology Description:</b>	
	<b>Basis:</b>	Cost Effective
<b>CO</b>	<b>Standard:</b>	400 ppmvd @ 3% O2
	<b>Technology Description:</b>	Natural gas fuel or equivalent
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** T-BACT is equivalent to BACT for VOC.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**MISCELLANEOUS**

BACT Size: Minor Source BACT VOC <4000 lb/yr

**SOLAR PANEL ASSEMBLY**

<b>BACT Determination Number:</b> 197	<b>BACT Determination Date:</b> 8/16/2018
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**Equipment Information**

**Permit Number:** 25815  
**Equipment Description:** SOLAR PANEL ASSEMBLY  
**Unit Size/Rating/Capacity:** SOLDERING OPERATIONS: FLUX APPLICATION  
**Equipment Location:** SUNERGY CALIFORNIA LLC  
 4741 URBANI AVE  
 MCCLELLAN, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Use of "no clean" fluxes with a VOC content that does not exceed 6.3 lb/gal (less water and exempt compounds) that do not require finger cleaning after soldering, and the covering of flux bath when applicator is not in operation, and (See Comments)
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	No Standard
	<b>Basis:</b>	Achieved in Practice

**Comments:** minimization of entrance/exit areas

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**MISCELLANEOUS**

BACT Size: Minor Source BACT

**TEST STAND**

<b>BACT Determination Number:</b> 181	<b>BACT Determination Date:</b> 8/21/2018
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**Equipment Information**

**Permit Number:** 25520  
**Equipment Description:** TEST STAND  
**Unit Size/Rating/Capacity:** Jet A Fuel  
**Equipment Location:** COMPOSITE ENGINEERING INC, A KRATOS CO  
 5381 RALEY BLVD  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	Good combustion practices
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	Good combustion practices
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	Good combustion practices
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	Good combustion practices
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	Good combustion practices
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	Good combustion practices
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** T-BACT will be determined on a case by case basis.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**MISCELLANEOUS**

BACT Size: Minor Source BACT

TROMMEL SCREEN - PORTABLE

<b>BACT Determination Number:</b> 170	<b>BACT Determination Date:</b> 3/8/2018
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**Equipment Information**

**Permit Number:** 25130  
**Equipment Description:** TROMMEL SCREEN - PORTABLE  
**Unit Size/Rating/Capacity:**  
**Equipment Location:** L AND D LANDFILL LIMITED PARTNERSHIP  
 8635 FRUITRIDGE ST  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	VEE < or equal to 20% Opacity; Water spray or adequate moisture of process materials.
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	VEE < or equal to 20% Opacity; Water spray or adequate moisture of process materials.
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** Small Emitter/Minor Source BACT. Processed for permits 25130, 25131 & 25132. This BACT is for a portable gypsum drywall recycling operation.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**OVEN/KILN**

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

**DRYING OVEN**

<b>BACT Determination Number:</b> 168	<b>BACT Determination Date:</b> 10/31/2017
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**Equipment Information**

**Permit Number:** 25271  
**Equipment Description:** DRYING OVEN  
**Unit Size/Rating/Capacity:** 14 mmBTU/hr, direct & natural gas-fired  
**Equipment Location:** HUHTAMAKI, INC  
 8450 GERBER RD  
 SACRAMENTO, CA

**BACT Determination Information**

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

**Comments:**

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**OVEN/KILN**

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

**WOOD-FIRED CERAMIC KILN**

<b>BACT Determination Number:</b> 174	<b>BACT Determination Date:</b> 1/10/2018
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**Equipment Information**

**Permit Number:** 24244  
**Equipment Description:** WOOD-FIRED CERAMIC KILN  
**Unit Size/Rating/Capacity:** <2 mmBTU/hr  
**Equipment Location:** CALIF STATE UNIV SACTO  
 6000 J ST (SAC STATE CAMPUS)  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	Good combustion practices
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	Good combustion practices
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	Good combustion practices
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	(see below)
	<b>Technology Description:</b>	1. Comply with Ringelmann No. 1 or 20% opacity requirement, and 2. Restriction on starting a firing event on a Stage 1 or Stage 2 Mandatory Curtailment day as per SMAQMD Rule 421, Section 301.
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	(same as above for PM10)
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	Good combustion practices
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	N/A
	<b>Technology Description:</b>	N/A
	<b>Basis:</b>	

**Comments:**

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

SMAQMD BACT CLEARINGHOUSE

CATEGORY:

**PHARMACEUTICAL PROCESS**

BACT Size: Minor Source BACT

PHARM MANUFACTURING OPERATIONS

<b>BACT Determination Number:</b> 131	<b>BACT Determination Date:</b> 3/20/2018
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**Equipment Information**

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** PHARM MANUFACTURING OPERATIONS  
**Unit Size/Rating/Capacity:** BATCH PROCESSING  
**Equipment Location:**

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Refrigerated condensers, afterburners, or carbon adsorbers operated per comments (below).
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**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  $\geq 0.3$  second retention time at  $\geq 1400$  °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  $\geq$

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



**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**PHARMACEUTICAL PROCESS**

BACT Size: Uncontrolled NOx Emissions > 467 lb/year

**PHARMACEUTICAL MANUFACTURING**

<b>BACT Determination Number:</b> 207	<b>BACT Determination Date:</b> 11/6/2018
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**Equipment Information**

**Permit Number:** 25609  
**Equipment Description:** PHARMACEUTICAL MANUFACTURING  
**Unit Size/Rating/Capacity:** Batch Process  
**Equipment Location:**  
  
 RANCHO CORDOVA, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	APC Scrubber with 99% control efficiency.
	<b>Basis:</b>	Cost Effective
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:**

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

<b>BACT Determination Number:</b> 210	<b>BACT Determination Date:</b> 11/6/2018
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**Equipment Information**

**Permit Number:** 25609  
**Equipment Description:** PHARMACEUTICAL MANUFACTURING  
**Unit Size/Rating/Capacity:** Batch Process  
**Equipment Location:**  
  
RANCHO CORDOVA, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	APC Scrubber with 66% Control Efficiency.
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:**

**District Contact:**

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**PORTABLE CONCRETE/ASPHALT RECY**

BACT Size: Minor Source BACT

Crusher, Screen, Transfer & Storage

<b>BACT Determination Number:</b> 171	<b>BACT Determination Date:</b> 3/8/2018
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**Equipment Information**

**Permit Number:** 25131  
**Equipment Description:** Crusher, Screen, Transfer & Storage  
**Unit Size/Rating/Capacity:**  
**Equipment Location:** L AND D LANDFILL LIMITED PARTNERSHIP  
 8635 FRUITRIDGE ST  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>NOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Use of water sprays on crushers, screens, transfer points and storage piles as necessary to show compliance with the most stringent 40 CFR Subpart OOO opacity limitations.
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	Use of water sprays on crushers, screens, transfer points and storage piles as necessary to show compliance with the most stringent 40 CFR Subpart OOO opacity limitations.
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** This is a small emitter (< 10 lb/day) and minor source BACT. BACT for portable concrete/asphalt recycling operations.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**PRINTING PROCESS**

BACT Size: Minor Source BACT

**DIGITAL PRINTING - LIQUID ELECTROPHOTOGRAPHY**

<b>BACT Determination Number:</b> 147	<b>BACT Determination Date:</b> 1/3/2018
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**Equipment Information**

**Permit Number:** 24724  
**Equipment Description:** DIGITAL PRINTING - LIQUID ELECTROPHOTOGRAPHY  
**Unit Size/Rating/Capacity:** < 8,663 lbs uncontrolled VOC/year  
**Equipment Location:** OFFICE OF STATE PUBLISHING  
 1050 RICHARDS BLVD  
 SACRAMENTO, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	VOC Control System. SMAQMD Rules 466 & 441.
	<b>Technology Description:</b>	1. Integral air pollution control system, consisting of an oil/water separator and refrigerated condenser, with an assumed control efficiency of 80% or equivalent system. Comply with SMAQMD rules 466 & 411.
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM2.5</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>CO</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** T-BACT is the following:  
 1.A VOC control device that has an overall system efficiency (collection and destruction) of at least 98.5% for VOC.  
 2.Comply with SMAQMD Rule 466 - Solvent Cleaning & SMAQMD Rule 441 - Organic Solvents.  
 For projects also involving publication rotogravure presses, product and packaging rotogravure presses, or wide-web flexographic printing presses, T-BACT will be determined on a case-by-case basis.

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

<b>BACT Determination Number:</b> 180	<b>BACT Determination Date:</b> 1/3/2018
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### Equipment Information

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** DIGITAL PRINTING - LIQUID ELCTROPHOTOGRAPHY  
**Unit Size/Rating/Capacity:** ≥ 8,683 lbs uncontrolled VOC/year  
**Equipment Location:**

### BACT Determination Information

<b>ROCs</b>	<b>Standard:</b>	Overall system efficiency of at least 98.5% VOC
	<b>Technology Description:</b>	1. VOC control device with overall efficiency of 98.5%. 2. Use of materials compliant with SMAQMD Rule 466. 3. Comply with VOC emission standards of SMAQMD Rule 411.
	<b>Basis:</b>	Cost Effective
<b>NOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>SOx</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM10</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>PM2.5</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>CO</b>	<b>Standard:</b>	No Standard
	<b>Technology Description:</b>	
	<b>Basis:</b>	
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:** T-BACT will be the same as BACT for VOCs. For projects also involving publication rotogravure presses, product and packaging rotogravure presses, or wide-web flexographic printing presses, T-BACT will be determined on a case-by-case basis.

**District Contact:**

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**TANK/PIPELINE DEGASSING SYSTEM**

BACT Size: Minor Source BACT

THERMAL OXIDIZING UNIT - PORTABLE

<b>BACT Determination Number:</b> 213	<b>BACT Determination Date:</b> 2/22/2019
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**Equipment Information**

**Permit Number:** N/A -- Generic BACT Determination  
**Equipment Description:** THERMAL OXIDIZING UNIT - PORTABLE  
**Unit Size/Rating/Capacity:** ALL  
**Equipment Location:**

**BACT Determination Information**

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

**Comments:** See BACT Determination Evaluation: VOC: 50 ppmvd @ 3% O2 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.

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

**SMAQMD BACT CLEARINGHOUSE**

CATEGORY:

**TURBINE**

BACT Size: Minor Source BACT

**GAS TURBINE**

<b>BACT Determination Number:</b> 203	<b>BACT Determination Date:</b> 10/30/2018
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**Equipment Information**

**Permit Number:** 25800  
**Equipment Description:** GAS TURBINE  
**Unit Size/Rating/Capacity:** Turbine, 2200 mmBTU/hr  
**Equipment Location:** SMUD FINANCING AUTHORITY (COSUMNES POWER PLANT)  
 14295 CLAY EAST RD  
 HERALD, CA

**BACT Determination Information**

<b>ROCs</b>	<b>Standard:</b>	1.0 ppmvd @t 15% O2, 3-Hr Avg, Oxidation Catalyst
	<b>Technology Description:</b>	Oxidation Catalyst
	<b>Basis:</b>	Achieved in Practice
<b>NOx</b>	<b>Standard:</b>	2.0 ppmvd @ 15% O2, 1-Hr Avg
	<b>Technology Description:</b>	SCR or Equivalent
	<b>Basis:</b>	Achieved in Practice
<b>SOx</b>	<b>Standard:</b>	Natural Gas or Equiv. that meets 0.7 gr S/100scf
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM10</b>	<b>Standard:</b>	Natural Gas or Equiv. that meets 0.7 gr S/100scf
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>PM2.5</b>	<b>Standard:</b>	Natural Gas or Equiv. that meets 0.7 gr S/100scf
	<b>Technology Description:</b>	
	<b>Basis:</b>	Achieved in Practice
<b>CO</b>	<b>Standard:</b>	2.0 ppmvd @t 15% O2, 1-HR avg, Oxidation Catalyst
	<b>Technology Description:</b>	Oxidation Catalyst
	<b>Basis:</b>	Achieved in Practice
<b>LEAD</b>	<b>Standard:</b>	
	<b>Technology Description:</b>	
	<b>Basis:</b>	

**Comments:**

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