## SMAQMD BACT CLEARINGHOUSE

CATEGORY:

# **MISCELLANEOUS**

BACT Size:

Minor Source BACT

GRINDER

**BACT Determination Number:** 

91

**BACT Determination Date:** 

11/20/2014

**Equipment Information** 

**Permit Number:** 

N/A -- Generic BACT Determination

**Equipment Description:** 

**GRINDER** 

Unit Size/Rating/Capacity:

Road Asphalt Grinder

**Equipment Location:** 

# **BACT Determination Information**

ROCs	Standard:	
	Technology	Compliance with IC engine BACT standard for Engine operations
	Description:	
	Basis:	Achieved in Pactice
NOx	Standard:	
	Technology Description:	Compliance with IC engine BACT standard for Engine operations
	Basis:	Achieved in Pactice
SOx	Standard:	
	Technology Description:	Compliance with IC engine BACT standard for Engine operations
	Basis:	Achieved in Pactice
PM10	Standard:	
	Technology Description:	Compliance with IC engine BACT standard for Engine operations Baghouse venting crushing, enclosures of equipment and water spray at transfer points
	Basis:	Achieved in Pactice
PM2.5	Standard:	
	Technology Description:	Compliance with IC engine BACT standard for Engine operations Baghouse venting crushing, enclosures of equipment and water spray at transfer points
	Basis:	Achieved in Pactice
СО	Standard:	
	Technology Description:	Compliance with IC engine BACT standard for Engine operations
	Basis:	Achieved in Pactice
LEAD	Standard:	
	Technology	
	Description:	
	Basis:	

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

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# BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION

	DETERMINATION NO.:	91
	DATE:	November 14, 2014
	ENGINEER:	Venk Reddy
Category/General Equip Description:	Miscellaneous	
Equipment Specific Description:	Road Asphalt Grinder	
Equipment Size/Rating:	Minor Source BACT	
Previous BACT Det. No.:		

BACT was determined in this process by the evaluation of SMAQMD application 23708

## **BACT ANALYSIS**

# Step 1: Identify All Control Technologies

The following control technologies are currently employed as BACT for Road Asphalt Grinder by the following air pollution control districts:

District	(A)	Best Available Control Technology (BACT)			
	AP	Engine compliant with engine BACT standards			
SMAQMD	AP	Water Spray			
South Coast AQMD	AP	Baghouse Venting Jaw Crushers, Cone Crushers, and Material Transfer Points Adjacent to and after these Items; and Water Sprays at Other Material Transfer Points (1990)			
	TF	Charged fog sprays			
	ΑP	<0.014 grains/dscf			
San Diego County APCD	AP	Covered screen, covered crusher, covered transfer point vented to insertable or central fabric filter			
	ΑP	Covered Screen, covered crusher, or covered transfer point with water spray system and surfactant added			

BACT Determination Pharmaceutical Manufacturing Process November 5, 2014 Page 2 of 2

District	(A)	Best Available Control Technology (BACT)		
	AP	Water spray system with surfactant		
	AP	Water spray system		
Bay Area AQMD	AP	Enclosure of jaw/cone crushers, screens, and associated material transfer points and vent to baghouse(s) w/ ≤0.01 gr/dscf; Water spray of other transfer points, conveyors, storage piles, and site road surfaces		
San Joaquin Valley APCD	AP	A BACT standard has not been established.		

<sup>(</sup>A) AP = Achieved in Practice, TF = Technologically Feasible

## Step 2: Eliminate Technologically Infeasible Options

All identified technologies are feasible.

# Step 3: Rank Remaining Control Technologies by Control Effectiveness

### Engine

1. Compliant with established IC engine BACT Standards

## Crushing emissions

- 1. Baghouse venting crushing, enclosures of equipment and Water Spray at transfer points
- 2. Covered Screen, covered crusher, or covered transfer point with water spray system and surfactant added
- 3. Water spray system with surfactant
- 4. Water spray system

## Step 4: Select BACT

**Crushing Emissions** 

1. PM10/PM2.5/ Lead Baghouse venting crushing, enclosures of equipment and Water Spray at transfer points

#### Engine

2. Compliant with established IC engine BACT Standards

REVIEWED BY:	Bin Flhe	DATE:	11-26-14
APPROVED BY:	Joys leggm	DATE:	12/16/14