

San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.1.1*

Last Update 5/16/1995

**Wood Working Equipment - = or > 30 electric hp of woodworking
equipment or = or > 100 board feet processed/day**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Wood working equipment vented to a baghouse		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.1.2*

Last Update 3/22/1998

Corrugated Cardboard Manufacturing - Waste Handling System

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	1D-3D Cyclone Collector		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.1.3*

Last Update 4/15/1995

Paper Handling - Paper Grinding Operation, = or > 60 tons paper/day

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Paper grinder served by baghouse		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.1.4*

Last Update 11/17/2006

Cardboard Sawing

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	99% capture and control (cyclone in series with a fabric filter dust collector, or equivalent)		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.2.1*

Last Update 3/25/1995

**Petroleum Coke Handling - Receiving, Storage, and Loadout = or > 1,000 tons
coke per day**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Adequate moisture content of coke received, and loaded out, to prevent visible emissions in excess of 5% opacity. Water and surfactant applied to storage piles.		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.2.2*

Last Update 7/1/1995

Chrome Plating Operation - Hard Chrome Plating, = or > 5.00 MM Amp-hr/yr

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10		<ol style="list-style-type: none">1. Merlin enclosed tank cover with 0.1 μm Teflon filter2. HEPA filter3. Water Scrubber4. Mist Suppressant5. Poly Balls	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.2.3*

Last Update 7/21/2000

Chrome Plating Operation - Decorative Chrome Plating

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	97% control efficiency (Chemical fume suppressant containing a wetting agent)	99.9 % control efficiency (Chrome dome EED enclosed tank cover.)	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.2.4*

Last Update 7/18/2000

**Chrome Plating Operation - Limited Operation
(= or < 500,000 Amp-hr/yr)**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	99% control efficiency (Chemical fume suppressant containing a wetting agent)	99.9 % control efficiency (Chrome dome EED enclosed tank cover.)	Trivalent Chromium Plating

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.2.5*

Last Update 1/10/2001

**Munitions Cartridge Case Manufacturing - Metal
Processing Tanks**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10		Capture and control with a wet scrubber	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.2.6*

Last Update 7/18/2006

Brass/Bronze Foundry > or = 300 lb/hr brass/bronze process rate

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	<p>Brass Melting Furnace: use of an electric induction furnace and a collection system vented to a control device with a control efficiency of 99% for PM10</p> <p>Sand Handling System with Shakeout and/or Muller in System: shakeout stations, return conveyors, elevators, screens, material bins, and Muller vented to a control device with a control efficiency of 99% for PM10</p> <p>Cast Metal Parts Finishing Operations: grinders, saws and finishing mills served by capture devices vented to a control device with a control efficiency of 99% for PM10</p>		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.1*

Last Update 5/17/1996

Flat glass manufacturing - Adipic acid spraying system to coat flat glass before storage

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Low Volume (≤ 2 gallons per hour per nozzle) ultrasonic spray equipment with curtains on both sides of the spray modules (minimum transfer efficiency of 90%)		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.2*

Last Update 2/21/1998

Animal Matter Rendering Plant

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10		Use of an odor scrubber with a particulate removal system that consists of a particulate scrubber, shell and tube condenser, a Venturi scrubber, a cyclone, an air cooled condenser, and a contact condenser or a combination thereof with a minimum overall control of 95%, or Thermal oxidizer utilizing natural gas with a minimum chamber temperature of 1400°F and minimum retention time of 1.0 seconds with a particulate removal system that consists of a particulate scrubber, shell and tube condenser, a Venturi scrubber, a cyclone, an air cooled condenser, and a contact condenser or a combination thereof with a minimum overall control of 95%.	
VOC		Use of an odor scrubbing system utilizing a scrubbing medium of chlorine dioxide in water with a minimum overall control of 95% or better. Thermal oxidizer utilizing natural gas with a minimum chamber temperature of 1400°F and minimum retention time of 1.0 second with a minimum overall control of 95%.	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.3*

Last Update 4/11/2003

Standby LPG Fuel Supply System - = or > 30 MMBtu/hr

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
NOx	0.068 lb/MMBtu		
PM10	0.008 lb/MMBtu		
SOx	LPG		
VOC	99.9% Control efficiency (Thermal Oxidation, Flare, or equal)		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.4*

Last Update 2/5/2003

**Metal Parts and Product Fabrication - Plasma Arc
Cutting Torch**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Electrostatic Precipitator or Dust Collector with a HEPA Filter (99.9% efficiency)		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.5*

Last Update 10/7/1998

Satellite thruster testing operation

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
NOx	Chemical packed scrubber serving nitrogen tetroxide transfer operation		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.6*

Last Update 10/2/1998

Phosphate Fertilizer Manufacturing - Transportable, = or < 40 tons/hour

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10		1. Spray towers or packed tower with demister	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.7*

Last Update 4/29/2002

Plastic and Polymeric Material Processing - Grinding

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Cyclones in series with a fabric filter dust collector.		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.8*

Last Update 2/24/2000

Explosives Detonation Chamber

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
NOx		1. Selective Catalytic Reduction 2. Non-selective Catalytic Reduction	
VOC		1. Thermal Oxidation 2. Carbon Adsorption 3. Non-selective Catalytic Reduction	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.9*

Last Update 3/3/2000

**Glass Packing and Cullet Handling Operation -
For Flat Glass Manufacturing**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Packing machine vented to a Fabric Filter Baghouse		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.10*

Last Update 6/19/2000

Cooling Tower - Induced Draft, Evaporative Cooling

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10		Cellular Type Drift Eliminator	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.11*

Last Update 11/13/2008

Laser Cutting System

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	> 99.9% Control Efficiency (HEPA Dust Collector, Fabric Filter Baghouse, or Equiv.)		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.12*

Last Update 9/24/2001

Helicopter Engine Test Cell

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
NOx	Use of JP-8 fuel and good combustion practices.		
PM10	Use of JP-8 fuel and good combustion practices.		
SOx	Use of JP-8 fuel and good combustion practices.		
VOC	Use of JP-8 fuel and good combustion practices.		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.13*

Last Update 4/15/2002

**Carpet Padding Manufacturing – Fabric Fiber
Separating Operation**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	95% control (Rotary Drum Filter, or equal)		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.14*

Last Update 2/12/2003

**Tire Recycling Operation - Ground Tire Material
Processing**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	99% Control (Fabric Filter Baghouse, or equal.)		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.15*

Last Update 7/23/2003

Solder Paste Manufacturing

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10		≥ 99% control (dust collector or equivalent)	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.16*

Last Update 9/28/2004

**Repair and Maintenance or Emergency Ammonia Venting Operation (= < 100
hr/yr operation)**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
NH3	Flare, or equivalent (99% control efficiency)		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.17*

Last Update 2/2/2006

Sulfur Powder Manufacturing (<= 4 MMBtu/hr Gas Generator)

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
NOx	natural gas-fired inert gas generator with a 50 ppmv @ 8% O2 Pyronics burner (69.3 ppmv @ 3% O2)	low-NOx burner < 30 ppmv @ 3% O2	

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.18*

Last Update 11/9/2006

Explosives Detonation - when unrestrained detonations or outdoor environmental conditions are required ~~(Rescinded: 3-06-07)**~~**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
H2S	NONE	NONE	NONE
PM10	NONE	NONE	NONE

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.19*

Last Update 12/20/2007

Metal Grinding Operations

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	99% capture and control (fabric filter dust collector or equivalent)		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.3.20*

Last Update 8/25/2008

On-line Chemical Vapor Deposition Process**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Use of baghouse	At least 99.5% overall control (capture and control) using baghouse or equivalent overall control	
VOC	Use of thermal oxidizer	At least 95% overall control (capture and control) using thermal oxidizer or equivalent overall control	
HCl	Use of dry scrubber (sodium bicarbonate reagent) with a baghouse	At least 99% overall control (capture and control) using dry scrubber system (chamber and baghouse) with sodium bicarbonate reagent or equivalent overall control	

**A process that vaporizes chemicals and deposit them on the glass surface while the glass is being formed

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.4.1*

Last Update 10/20/1992

Dry Material Storage and Conveying Operation, 100 tons/day

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Storage, augers, elevators, conveyors all enclosed and vented to a fabric filter baghouse		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.4.2*

Last Update 9/29/1992

Wet Material Storage and Conveying Operation, 200 tons/day

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Enclosed storage with sufficient moisture so visible emissions are less than 5% opacity from any single emission point		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.4.3*

Last Update 7/16/1998

**Dry Material Handling - Mixing, Blending, Milling, or
Storage**

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10	Mixer, augers, elevators, conveyors all enclosed and vented to a fabric filter baghouse		

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San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 8.4.4*

Last Update 1/27/2004

Mulch and Soil Bagging Operation (Receiving, Outdoor Storage, and Bagging Line Hopper)

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
PM10		Bagging Line Hopper: 1. Baghouse, 99.9% control 2. Use of water spray or fog, or surfactants, to maintain an adequate material moisture content such that the maximum opacity will not exceed 5% Receiving and Outdoor Storage: use of water spray or fog, or surfactants, to maintain an adequate material moisture content such that the maximum opacity will not exceed 5%	

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