

San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 8.1.1\***

Last Update: 7/19/2018

**Woodworking Equipment**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	Woodworking equipment vented to a baghouse		

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**\*This is a Summary Page for this Class of Source**

San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 8.1.2\***

Last Update: 5/11/2022

**Corrugated Cardboard Manufacturing - Waste Handling System \*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.1.3\***

Last Update: 3/29/2023

**Paper Handling - Paper Grinding Operation**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	99% capture and control (baghouse or equivalent)		

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.1.4\***

Last Update: 4/17/2020

**Cardboard Sawing**

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

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.1.5\***

Last Update: 6/15/2020

**Glass Cullet Crusher**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	Baghouse with 99% control efficiency		

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 8.2.1\***

Last Update: 2/19/2020

**Petroleum Coke Handling - Receiving, Storage, and Loadout**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	Receiving: Receiving operation vented to a baghouse  Storage/Conveying: Enclosed storage and adequate moisture to prevent visible emissions in excess of 5% opacity  Loadout: Loadout operation vented to a baghouse		

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.2.2\***

Last Update: 5/11/2022

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

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.2.3\***

Last Update: 7/21/2000

**Chrome Plating Operation - Decorative Chrome Plating**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
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  
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**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)**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
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  
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**Best Available Control Technology (BACT) Guideline 8.2.5\***

Last Update: 4/21/2020

**Munitions Cartridge Case Manufacturing - Metal \*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.2.6\***

Last Update: 4/21/2020

**Brass/Bronze Foundry > or = 300 lb/hr Brass/Bronze Process Rate \*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.3.1\***

Last Update: 4/30/2020

**Flat Glass Manufacturing - Adipic Acid Spraying System to  
Coat Flat Glass before Storage**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	Low Volume ( $\leq$ 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  
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**Best Available Control Technology (BACT) Guideline 8.3.2\***

Last Update: 12/7/2022

**Animal Rendering Operations**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
VOC	95% control using one or more of the following control technologies: •Odor scrubbing system utilizing a scrubbing medium with appropriate chemical reagent(s), or  •Thermal oxidizer utilizing natural gas with a minimum chamber temperature of 1400°F and minimum retention time of 1.0 second.	None	None
SOx	Use of an aqueous scrubber system (or equivalent controls) to reduce sulfur compounds (measured in terms of H <sub>2</sub> S) upstream of any other control devices	98% control using wet scrubber (or equivalent control)	None
PM10	95% control using one or more of the following control technologies: •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, 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.	None	None

# San Joaquin Valley Unified Air Pollution Control District

NOx	Use of an aqueous scrubber system (or equivalent controls) to reduce reduce nitrogen compounds (measured in terms of ammonia) upstream of the thermal oxidizer to the maximum practically feasible extent; and use PUC-quality natural gas as a supplemental fuel in the regenerative thermal oxidizer (RTO)	None	None
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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**

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

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 8.3.4\***

Last Update: 5/6/2020

**Metal Parts and Products Fabrication - Plasma Cutting**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	99.9% efficiency (dust collector with a HEPA filter or equivalent)		

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 8.3.5\***

Last Update: 4/21/2020

**Satellite Thruster Testing Operation \*RESCINDED\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 8.3.6\***

Last Update: 4/21/2020

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

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 8.3.7\***

Last Update: 9/4/2019

**Plastic and Polymeric Material Processing - Grinding**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	Cyclone(s) in series with a fabric filter dust collector (99% or greater control efficiency)		

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 8.3.8\***

Last Update: 10/10/2019

**Explosives Detonation Chamber**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
VOC		1. Thermal Oxidation 2. Carbon Adsorption 3. Non-Selective Catalytic Reduction	
SOx		1. Wet scrubber using a slurry of alkaline sorbent (e.g. limestone) to scrub the gases 2. Dry Scrubber Technology	
PM10	Use of wet scrubber (e.g. sodium hydroxide 0.5% solution), pre-filters and HEPA filtration system (HEPA filter reducing at least 99.97% of particulate matter 0.3 microns diameter or larger)		
NOx		1. Selective Catalytic Reduction 2. Non-Selective Catalytic Reduction	
CO		Oxidation Catalyst	

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 8.3.9\***

Last Update: 9/12/2022

**Glass Packing Operation - For Flat Glass Manufacturing**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	Packing machine vented to a dust collector with 99% control efficiency		

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.3.10\***

Last Update: 3/24/2022

**Cooling Tower - Induced Draft, Evaporative Cooling**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	High Efficiency Cellular- Type Drift Eliminator (0.0005% drift rate)		

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.3.11\***

Last Update: 11/13/2008

**Laser Cutting System**

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

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.3.12\***

Last Update: 4/21/2020

**Helicopter Engine Test Cell \*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.3.13\***

Last Update: 4/15/2002

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

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

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.3.14\***

Last Update: 8/28/2019

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

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	99% Control (Fabric Filter Baghouse or equal)		

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.3.15\***

Last Update: 4/21/2020

**Solder Paste Manufacturing \*RESCINDED\***

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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 ( $\leq 100$   
hr/yr operation)**

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

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.3.17\***

Last Update: 4/21/2020

**Sulfur Powder Manufacturing ( $\leq 4$  MMBtu/hr Gas Generator) \*RESCINDED\***

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San Joaquin Valley  
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**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)\*\*~~**

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

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.3.19\***

Last Update: 5/27/2020

**Metal Grinding Operations**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	99% capture and control and use of a fabric filter dust collector or baghouse	Use of a dust collector or baghouse with 0.002 gr/dscf and equipped with HEPA filter (99.97%)	

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.3.20\***

Last Update: 8/25/2008

**On-line Chemical Vapor Deposition Process\*\***

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
VOC	Use of thermal oxidizer	At least 95% overall control (capture and control) using thermal oxidizer or equivalent overall control	
PM10	Use of baghouse	At least 99.5% overall control (capture and control) using baghouse 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  
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**Best Available Control Technology (BACT) Guideline 8.3.21\***

Last Update: 4/23/2020

**Abrasive Blasting Cabinet**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	Use of a dust collector or baghouse	Use of a dust collector or baghouse with 0.002 gr/dscf or equipped with HEPA filter	

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.3.22\***

Last Update: 7/26/2022

**Scrap Metal Shredding**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
VOC		1.Regenerative Thermal Oxidizer (RTO) with at least 95% control; or 2.Wet scrubber with at least 95% control efficiency; or 3.Activated carbon system with at least 95% control efficiency	
PM10	1.Use of wet suppression technology as necessary to limit visible emissions to no greater than 5% opacity as measured using EPA Method 9 (Visible Opacity)	1.Enclosed emissions points vented to a control device with 99% control efficiency (baghouse or equivalent) 2.Enclosed emissions points vented to a control device with 95% control efficiency (cyclone or equivalent)	

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.4.1\***

Last Update: 6/15/2020

**Dry Material Storage and Handling Operations (Except Grains)**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	Storage, processing equipment, conveyors, and associated material transfer points all enclosed and vented to a fabric filter baghouse (99% control)		

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 8.4.2\***

Last Update: 5/14/2020

**Wet Material Storage and Conveying Operation**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
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  
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**Best Available Control Technology (BACT) Guideline 8.4.3\***

Last Update: 5/26/2020

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

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
PM10	Mixer, augers, elevators, conveyors, and storage all enclosed and vented to a fabric filter baghouse or equivalent (99% or greater control efficiency)		

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in a State Implementation Plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

**\*This is a Summary Page for this Class of Source**

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)**

<b>Pollutant</b>	<b>Achieved in Practice or contained in the SIP</b>	<b>Technologically Feasible</b>	<b>Alternate Basic Equipment</b>
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%	

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in a State Implementation Plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

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