

San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.1.1\***

Last Update: 4/29/2022

**Emergency Diesel-Fired IC Engine > 50 bhp Powering an Electrical Generator**

| Pollutant | Achieved in Practice or contained in the SIP   | Technologically Feasible | Alternate Basic Equipment |
|-----------|--|--------------------------|---------------------------|
| VOC       | EPA Tier 4 Final certification level or equivalent for applicable horsepower range** |                          |                           |
| SOx       | Very low sulfur diesel fuel (15 ppmw sulfur or less)                                 |                          |                           |
| PM10      | EPA Tier 4 Final certification level or equivalent for applicable horsepower range** |                          |                           |
| NOx       | EPA Tier 4 Final certification level or equivalent for applicable horsepower range** |                          |                           |
| CO        | EPA Tier 4 Final certification level or equivalent for applicable horsepower range** |                          |                           |

\*\*The following emission levels are equivalent to the EPA Tier 4 Final certification levels:  
 50 - < 75 bhp: 3.5 g-(NOx + VOC)/bhp-hr, 0.02 g-PM/bhp-hr, 3.7 g-CO/bhp-hr  
 75 - < 175 bhp: 0.30 g-NOx/bhp-hr, 0.015 g-PM/bhp-hr, 3.7 g-CO/bhp-hr, 0.14 g-VOC/bhp-hr  
 175 - ≤ 750 bhp: 0.30 g-NOx/bhp-hr, 0.015 g-PM/bhp-hr, 2.6 g-CO/bhp-hr, 0.14 g-VOC/bhp-hr  
 > 750 bhp: 0.50 g-NOx/bhp-hr, 0.02 g-PM/bhp-hr, 2.6 g-CO/bhp-hr, 0.14 g-VOC/bhp-hr

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 3.1.2\***

Last Update: 7/10/2009

**Emergency Diesel I.C. Engine ( = or > 175 hp and < 400 hp) \*\*RESCINDED - see  
Guideline 3.1.1\*\***

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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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.1.3\***

Last Update: 7/10/2009

**Emergency Diesel I.C. Engine = or > 400 hp ~~\*\*RESCINDED~~ - see Guideline 3.1.1\*\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.1.4\***

Last Update: 3/2/2020

**Emergency Diesel-Fired IC Engine Powering a Fire Pump**

| Pollutant | Achieved in Practice or contained in the SIP  | Technologically Feasible | Alternate Basic Equipment |
|-----------|---|--------------------------|---------------------------|
| VOC       | Latest EPA Tier Certification level for applicable horsepower range   |                          |                           |
| SOx       | Diesel fuel with sulfur content no greater than 0.0015% by weight   |                          |                           |
| PM10      | - 0.1 grams/bhp-hr** (if T-BACT*** is triggered)<br><br>- 0.15 grams/bhp-hr (if T-BACT*** is not triggered) |                          |                           |
| NOx       | Latest EPA Tier Certification level for applicable horsepower range   |                          |                           |
| CO        | Latest EPA Tier Certification level for applicable horsepower range   |                          |                           |

\*\*Any engine model included in the ARB or EPA diesel engine certification lists and identified as having a PM10 emission rate of 0.149 g/bhph-hr or less, based on ISO 8178 test procedure, shall be deemed to meet the 0.1 g/bhp-hr requirement.

\*\*\*A site-specific Health Risk Analysis is used to determine if T-BACT is triggered.

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.1.5\***

Last Update: 7/16/2018

**Emergency Gas-Fired IC Engine**

| Pollutant | Achieved in Practice or contained in the SIP   | Technologically Feasible | Alternate Basic Equipment |
|-----------|--|--------------------------|---------------------------|
| VOC       | 1) LEAN BURN:<br>206 ppmv @ 15% O2 (1.0 g/bhp-hr)<br><br>2) RICH BURN:<br>60 ppmv @ 15% O2 (0.29 g/bhp-hr)                   |                          |                           |
| SOx       | Natural Gas, LPG, or Propane as fuel   |                          |                           |
| PM10      | Natural Gas, LPG, or Propane as fuel   |                          |                           |
| NOx       | 1) LEAN BURN:<br>< 500 BHP: 1.0 g/bhp-hr<br>≥ 500 BHP: 0.5 g/bhp-hr<br><br>2) RICH BURN:<br>25 ppmv @ 15% O2 (0.44 g/bhp-hr) |                          |                           |
| CO        | 2.0 g/bhp-hr   |                          |                           |

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.1.6\***

Last Update: 7/16/2018

**Emergency Gas Fired I.C. Engine > or = 132 hp, Rich Burn ~~\*\*RESCINDED~~ - see  
Guideline 3.1.5\*\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.1.7\***

Last Update: 4/20/2020

**Emergency Gasoline-Fired I.C. Engine \*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 3.1.8\***

Last Update: 7/16/2018

**Emergency Gas-Fired IC Engine - > or = 250 hp, Lean Burn ~~\*\*RESCINDED~~ - see  
Guideline 3.1.5\*\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.2.1\***

Last Update: 4/20/2020

**Diesel I.C. Engine - > 449 hp, used for Testing of Crankcase Emission Controls  
\*RESCINDED\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.2.2\***

Last Update: 7/7/2020

**Limited Use (1,000 hr/yr max) Diesel-Fired IC Engine - Located at a Stationary Source, non-emergency, non-Transportable, and not used to drive an electrical generator \*RESCINDED\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.2.3\***

Last Update: 4/20/2020

**Diesel Fired IC Engine - < 700 hp, Serving a Deep Water Channel Dredging  
Operation, and Not Used to Drive an Electrical Generator \*RESCINDED\***

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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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.2.4\***

Last Update: 6/13/2007

**Transportable and Multi-location Diesel I.C. Engine ~~\*\*RESCINDED 6/13/07\*\*~~**

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 3.2.5\***

Last Update: 8/16/2023

**Diesel I.C. Engine - Used for starting a Gas Turbine \*RESCINDED\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.2.7\***

Last Update: 10/30/2008

**Diesel-Fired IC Engine - Low Use (= or < 1,000 hr/yr max) \*RESCINDED\***

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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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.2.8\***

Last Update: 7/7/2020

**Limited Life (1,000 hr total max life) Diesel-Fired IC Engine - < 600 bhp, and Not  
Used to Drive an Electrical Generator \*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 3.2.11\***

Last Update: 8/16/2023

**Transportable Compression - Ignited IC Engines (Non-Agricultural)**  
**\*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 3.3.1\***

Last Update: 4/20/2020

**Diesel Fired IC Engine - < 600 hp, Transportable Metal Contaminated  
Soil Processing Operation \*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 3.3.12\***

Last Update: 3/7/2019

**Non-Agricultural Fossil\*\* Fuel-Fired IC Engines > 50 bhp \*\*\*RESCINDED 3/7/19 -  
pending BACT guideline revision in progress\*\*\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 3.3.13\***

Last Update: 8/22/2008

**Waste Gas\*\* Fired IC Engine\*\* - > 50 hp \*\*Rescinded\*\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 3.3.14\***

Last Update: 8/16/2023

**Full-time Rich-burn IC Engine, Syngas-fueled \*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 3.3.15\***

Last Update: 8/16/2023

**Waste Gas-Fired IC Engine \*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 3.3.16\***

Last Update: 8/16/2023

**Ag Stationary Compression-Ignited IC Engine \*RESCINDED\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.3.17\***

Last Update: 8/16/2023

**Ag Transportable Compression-Ignited IC Engine \*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 3.3.18\***

Last Update: 8/16/2023

**Landfill Gas-Fired Lean Burn IC Engine < 500 bhp, Stationary \*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 3.3.19\***

Last Update: 9/12/2022

**Fossil\*\* Fuel Fired IC Engines Used for Power (Electricity) Generation**

| Pollutant | Achieved in Practice or contained in the SIP   | Technologically Feasible | Alternate Basic Equipment |
|-----------|--|--------------------------|---------------------------|
| VOC       | 0.10 lb-VOC/MW-hr***   |                          |                           |
| SOx       | Compliance with District Rule 4702 SOx Emission Control Requirements   |                          |                           |
| PM10      | 1.For Compression Ignited Engines: 0.01 g-PM10/bhp-hr<br><br>2.For Spark Ignited Engines: 0.06 g/bhp-hr (Total PM10)**** |                          |                           |
| NOx       | 0.070 lb-NOx/MW-hr***  |                          |                           |
| CO        | 0.20 lb-CO/MW-hr***  |                          |                           |

\*\* For the purposes of this determination, fossil fuels includes diesel, gasoline, natural gas, propane, kerosene, and similar hydrocarbon compounds derived from petroleum oil or natural gas. Fossil fuels also include similar synthetic fuels such as biodiesel and/or any fuel containing one or more fossil fuels.

\*\*\* When determining compliance with the lb/MW-hr requirement, IC engines with heat recovery may include one megawatt-hour (MW-hr) for each 3.4 million Btu's of useful heat recovered (MWth-hr) in addition to each MW-hr of net electricity produced (MWe-hr)

\*\*\*\*The total PM10 emission limit is based on EPA Method 5 (front half and back half) testing, which typically yields results as much as four times higher than when using the ISO 8178 Test Method. The ISO 8178 Test Method only reports filterable (i.e. front half) emissions.

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.4.1\***

Last Update: 2/16/2023

**Gas Turbine - = or > 47 MMBtu/hr, Variable Load, Without Heat Recovery  
\*RESCINDED\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.4.2\***

Last Update: 8/16/2023

**Gas Turbine - = or > 50 MW, Uniform Load, with Heat Recovery \*RESCINDED\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.4.3\***

Last Update: 8/16/2023

**Gas Turbine with Heat Recovery ( $= > 3$  MW and  $= < 10$  MW) \*RESCINDED\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.4.4\***

Last Update: 8/16/2023

**Limited Use (< 877 hours per year) Gas Fired Turbine = or < 26 MW, without Heat Recovery \*RESCINDED\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.4.6\***

Last Update: 8/16/2023

**Gas Turbine - > 10 MW and < 50 MW, Uniform Load, with Heat Recovery  
\*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 3.4.7\***

Last Update: 8/16/2023

**Gas Turbine - = or > 50 MW , Uniform Load, without Heat Recovery \*RESCINDED\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.4.8\***

Last Update: 8/16/2023

**Gas Turbine - < 50 MW, Uniform Load, Without Heat Recovery \*RESCINDED\***

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San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 3.4.9\***

Last Update: 8/16/2023

**Gas Turbine - < 3 MW, Uniform Load, With or Without Heat Recovery  
\*RESCINDED\***

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San Joaquin Valley  
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**Best Available Control Technology (BACT) Guideline 3.4.10\***

Last Update: 4/20/2020

**Oxy-Fuel Combustor Powering a Steam Turbine, Power Output < 3 MW, without Heat Recovery, Uniform and Variable Load, Research Facility \*RESCINDED\***

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**Best Available Control Technology (BACT) Guideline 3.4.11\***

Last Update: 8/16/2023

**Diesel-Fired Emergency Standby Turbine \*RESCINDED\***

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