San Joaquin Valley
Unified Air Pollution Control District

1.0 External Combustion

1.1 Boilers

1.1.1 Boiler: < or = 20.0 MMBtu/hr, Natural Gas or Propane Fired *RESCINDED* (10/26/2009)

1.1.2 Boiler: > 20.0 MMBtu/hr, Natural gas fired, base-loaded or with small load swings. *RESCINDED* (10/26/2009)

1.1.3 Boiler - > 20.0 MMBtu/hr, Natural gas fired, with highly variable loads or high turndown ratios. *RESCINDED* (10/26/2009)

1.1.4 Digester Gas Fired Boiler *RESCINDED* (10/26/2009)

1.1.5 Boiler-Dual Fuel for Facilities Requiring Liquid Backup Fuel *RESCINDED* (10/26/2009)

1.1.6 Boiler - Fired with a High-Ammonia Fuel *RESCINDED* (10/26/2009)

1.1.7 Limited Use Boiler - Natural Gas Fired, < 9 Billion Btu/yr *RESCINDED* (10/26/2009)

1.1.8 Biomass-fired Boiler - Grate Systems *RESCINDED* (10/26/2009)

1.2 Steam Generators

1.2.1 RESCINDED (10/26/2009)

1.2.2 RESCINDED (10/26/2009)

1.2.3 Oilfield Steam Generator/TEOR Gas Incinerator **RESCINDED - part of 5/04 update to guideline 1.2.1** (5/1/2004)

1.3 Fluidized-bed Combustors

1.3.1 Fluidized-Bed Combustor => 272 MMBtu/hr, Cogeneration Operation, Fired with Delayed Petroleum Coke (DPC) (8/27/2005)

1.3.2 Fluidized Bubbling Bed Combustor (biomass-fired) *RESCINDED* (3/12/2012)

1.4 Flares

1.4.1 Waste Gas Flare - 15.3 MMBtu/hr, Serving a Tank Vapor Control System (11/9/1995)

1.4.2 Waste Gas Flare - Incinerating Produced Gas (12/31/1998)

1.4.3 Landfill Gas Vapor Collection System (1/8/2001)

1.4.4 Digester Gas-Fired Flare (5/16/2006)

1.4.5 Oilfield Waste Gas Incinerator (3/10/1994)

1.4.6 Biogas-Fired Flare: = or > 10.9 MMBtu/hr, Limited Use (1/20/1998)

1.4.7 Waste Gas Flare - Oilfield Well Drilling and Testing Operation, < 50 MMscf/day (8/27/1999)

1.4.8 Refinery Flare (9/1/2006)

1.5 Furnaces

1.5.1 Fiberglass Production Furnace and Manufacturing Line, Natural Gas-Fired (8/17/2006)

1.5.2 Flat Glass Production Float Furnace, Natural Gas Fired (5/15/1998)

1.5.3 Existing flat glass furnace with a 3R system and a backup thermal De-NOx system (4/8/1996)

1.5.4 Metal Melting Crucible/Furnace (6/18/1996)

1.5.5 Glass Bottle Label Curing Lehr - < 10 MMBtu/hr, Natural Gas Fired (10/19/2000)

1.5.6 Natural Gas-Fired Metal Heating Furnace (11/4/2003)

1.5.7 Glass Furnace Forehearth (8/17/2006)

1.5.8 Container Glass Production - Container Glass Distributor (6/19/2006)

1.5.9 Container Glass Production - Furnace (6/8/2006)

1.5.10 Container Glass Production - Container Glass Lehr (6/19/2006)

1.5.11 Container Glass Production - Mold Swabbing Operation (6/16/2006)

1.6 Food & Ag Products Ovens, etc.

1.6.1 Vegetable Roasting Operation (2/5/2005)
1.6.2 Oven - Tortilla, <= 5 MMBtu/hr (6/23/2005)
1.6.3 Fryer - Potato Chip (3/20/1995)
1.6.4 Oven - Snack Food (6/16/1999)
1.6.5 Cornnut (tm) cooker (7/5/1996)
1.6.6 Peanut Roasting Operation (5/13/1999)
1.6.7 Pistachio Roasting Operation (1/27/1994)
1.6.8 Pistachio Nut Dryer (4/14/1995)
1.6.9 Dryer - Almond Processing, < 10 MMBtu/hr (10/30/1996)
1.6.10 Oven - Wheat Drying, < or = 10 MMBtu/hour (7/30/1998)
1.6.11 Dryer - Milk Spray, > or = 20 MMBtu/hr (7/27/1995)
1.6.12 Dryer - Whey, Filtermat,< 50 MMBtu/hr (4/22/1999)
1.6.13 Dehydrator - Vegetable, Continuous Process (6/26/1998)
1.6.14 Dehydrator Tunnel - Fruit, Natural Gas Fired (5/18/1998)
1.6.15 Dryer - Milk Spray, < 20 MMBtu/hr (8/4/1999)
1.6.16 Dryer - Seed Processing, < 20 MMBtu/hr (8/26/1999)
1.6.17 Food Preparation Oven, <800 degrees Fahrenheit, = or < 3.7 MMBtu/hr (7/10/1998)
1.6.18 Chicken Fryer - Natural Gas-Fired, Continuous Process, = or < 7 tons/hr (12/6/1999)
1.6.19 Meat Smokehouse - Natural Gas-Fired,< or = 2 MMBtu/hr (5/30/2000)
1.6.20 Feather Meal Processing Rotary Dryer - Natural Gas Fired, High Ammonia Environment (7/11/2001)
1.6.21 Flake Cereal Dryer - < 20 MMBtu/hr, Conveyor-fed (10/31/2002)
1.6.22 Wood Drying Kiln (8/15/2006)
1.6.23 Pistachio, Almond, and Walnut Dryers (<10 MMBtu/hr and <2,160 hr/yr) (7/10/2007)
1.6.24 Commercial Bakery Oven (2/12/2008)
1.6.25 Blood Drying Operation (5/2/2008)
1.6.26 Rotary Kiln Dryer for Poultry Litter* Processing (3/25/2008)
1.6.27 Direct-Fired Conveyorized Hotdog Cooking Oven (8/16/2010)

1.7 Industrial Ovens

1.7.1 Oven - Polyethylene Curing, = or < 20 MMBtu/hr (4/3/2000)
1.7.2 Oven - Plastisol curing/fusing, = or < 2.5 MMBtu/hr (8/19/1996)
1.7.3 Oven - Parts Cleaning, Burnoff or Burnout (8/13/1999)

1.8 Petroleum Product Combustion Devices

1.8.1 RESCINDED (10/26/2009)

1.8.2 RESCINDED (10/26/2009)

1.8.3 RESCINDED (10/26/2009)

1.8.4 RESCINDED (10/26/2009)

1.8.5 RESCINDED (10/26/2009)

1.9 Misc. Combustion Devices

1.9.1 Metal Parts Washer - Natural Gas-fired (1/27/1998)

1.9.2 Sulfuric Acid Plant Start-up Heater - < 15 MMBtu/hr (7/2/1996)

1.9.3 Crematory - Natural Gas Fired (6/1/2005)

1.9.4 Dryer - Natural Gas Fired, Solvent-Laden Towels, = or < 950 lb towels/day (10/4/1999)

1.9.5 Gas Absorption Chiller - Natural Gas Fired,
< 20 MMBtu/hr (10/4/1999)

1.9.6 Asphalt-Surface-Repair Heater, Propane Fired, < 20 MMBtu/hr (1/6/2000)

1.9.7 Auxiliary Burner System, Dryer, Natural Gas Fired,
< 20 MMBtu/hr (3/14/2000)

1.9.8 Municipal-waste Incinerator - < 750 lb waste/hr feed rate (4/14/2000)

1.9.9 Molded Paper Products Dryer - Natural Gas Fired,
< 20 MMBtu/hr (2/20/2001)

1.9.10 Mineral Products Spray Dryer - Natural Gas Fired,
< or = 20 MMBtu/hr (2/2/2001)

1.9.11 Commercial Laundry Dryer - < 5 MMBtu/hr,
Natural Gas Fired (2/19/2003)

1.9.12 Transportable Diesel-Fired Nitrogen Vaporizer (10/4/2005)

1.9.13 Blood Meal Processing Ring Dryer Burner (10/19/2006)

1.9.14 Natural Gas Fired Dryer with High Turndown Ratio** (2/9/2007)

1.9.15 Jet Aircraft Fire Training Facility (8/26/2009)

San Joaquin Valley
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2.0 Remediation and Waste Disposal

2.1 Soil Remediation

2.1.1 Soil Remediation Operation - Thermal Oxidizer (3/17/1997)

2.1.2 Soil Remediation Operation - I.C. Engine (6/18/1992)

2.1.3 Soil Remediation Operation - Carbon Adsorption (9/15/1993)

2.1.4 Extracted Soil Remediation using Steam Stripping/Flushing and 4-Stage Carbon Adsorption, > or = 40 tons/hr (11/21/1995)

2.1.5 Soil Remediation Operation - Above-ground Bioremediation (6/23/1992)

2.1.6 Soil Remediation Operation - Boiler, = or < 4.2 MMBtu/hr (10/20/1995)

2.1.7 Soil Remediation Operation - Thermal Soil Desorber (8/24/1998)

2.2 Waste Disposal

2.2.1 Non-hazardous Wastewater Receiving, Treatment, and Impoundment (7/30/2003)

2.2.2 Landfill - VOC-Contaminated Soil (6/30/1999)

2.2.3 Cheese Wastewater Digester (6/28/2004)

2.3 Contaminated Water Remediation

2.3.1 Contaminated Water Remediation - Mobile Air Stripper, = or > 750 cfm Air Stream (8/9/1995)

San Joaquin Valley
Unified Air Pollution Control District

3.0 Internal Combustion Engines

3.1 Emergency IC Engines

3.1.1 Emergency Diesel IC engine (7/10/2009)

3.1.2 Emergency Diesel I.C. Engine (= or > 175 hp and < 400 hp) **RESCINDED - see Guideline 3.1.1** (7/10/2009)

3.1.3 Emergency Diesel I.C. Engine = or > 400 hp **RESCINDED - see Guideline 3.1.1** (7/10/2009)

3.1.4 Emergency Diesel I.C. Engine Driving a Fire Pump (6/30/2001)

3.1.5 Emergency Gas Fired I.C. Engine - < 132 hp, Rich Burn (11/27/1996)

3.1.6 Emergency Gas Fired I.C. Engine > or = 132 hp, Rich Burn (6/20/1995)

3.1.7 Emergency Gasoline-Fired I.C. Engine (7/29/1999)

3.1.8 Emergency Gas-Fired IC Engine - > or = 250 hp, Lean Burn (4/4/2002)

3.2 Limited/Special Use Engines

3.2.1 Diesel I.C. Engine - > 449 hp, used for testing of crankcase emission controls (1/9/1995)

3.2.2 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 (11/8/2002)

3.2.3 Diesel Fired IC Engine - < 700 hp, Serving a Deep Water Channel Dredging Operation, and Not Used to Drive an Electrical Generator (8/2/1996)

3.2.4 Transportable and Multi-location Diesel I.C. Engine **RESCINDED 6/13/07** (6/13/2007)

3.2.5 Diesel I.C. Engine - Used for starting a Gas Turbine (3/5/2001)

3.2.6 Low Use (< 1,000 hr/yr) Gas Fired IC Engine - > 50 bhp, Rich Burn **RESCINDED, SEE 3.3.12** (10/1/2002)

3.2.7 Diesel-Fired IC Engine - Low Use (= or < 1,000 hr/yr max) *RESCINDED 10/30/08 - See 3.2.11**
< 600 bhp, Transportable, and not used to drive an Electrical Generator (11/8/2002)

3.2.8 Limited Life (1,000 hr total max life) Diesel-Fired IC Engine - < 600 bhp, and Not Used to Drive an Electrical Generator (9/9/1999)

3.2.9 Limited Life (< 2 years total use) Diesel-Fired IC Engine **THIS DETERMINATION IS RESCINDED EFFECTIVE 5/31/01.
ALL SIMILAR ENGINES IN THIS CLASS AND CATEGORY MUST COMPLY WITH THE REQUIREMENTS OF DISTRICT RULE 4701.** (8/17/1999)

3.2.10 Limited-Use (= or < 1,000 hr/yr) Gas Fired IC Engine - > 50 bhp, Rich Burn, driving an Electrical Generator ** Rescinded: 10/01/02, see 3.3.12** (10/1/2002)

3.2.11 Transportable Compression - Ignited IC Engines (Non-Agricultural, Non-Electric Generation) (10/30/2008)

3.3 Fulltime IC Engines

3.3.1 Diesel Fired IC Engine - < 600 hp, Transportable Metal Contaminated Soil Processing Operation (3/21/1996)

3.3.2 Non-emergency Gas-Fired I.C. Engine - > 50 hp, Rich Burn **Rescinded: 10/01/02, see 3.3.12** (10/1/2002)

3.3.3 Non-emergency Gas-Fired I.C. Engine - > 50 hp, Lean Burn, Two-stroke **Rescinded: 10/01/02, see 3.3.12** (10/1/2002)

3.3.4 Non-emergency Gas-Fired I.C. Engine - < 1,500 hp, Lean Burn, Four -stroke **Rescinded: 10/01/02, see 3.3.12** (10/1/2002)

3.3.5 Gas-Fired I.C. Engine > 50 bhp, Lean Burn, Powering a Cogeneration Operation **Rescinded: 10/01/02, see 3.3.12** (10/1/2002)

3.3.6 Gas-Fired I.C. Engine ≥ 50 bhp, Rich Burn, Powering a Municipal Water Supply Pump **Rescinded: 10/01/02, see 3.3.12** (10/1/2002)

3.3.7 Gas-Fired I.C. Engine, Powering a Water Supply Pump for Water Districts with Limited Reserve-Water Supply and No Backup Power Source **Rescinded: 10/01/02, see 3.3.12** (10/1/2002)

3.3.8 Digester Gas Fired I.C. Engine - > or = 1,000 BHP to < or = 3,175 BHP, at a Waste Water Treatment Facility **Rescinded: 10/01/02, see 3.3.13** (10/1/2002)

3.3.9 Biogas Fired I.C. Engine - < or = 1000 bhp, Serving a Cogeneration Operation with Heat Recovery **Rescinded: 10/01/02, see 3.3.13** (10/1/2002)

3.3.10 Biogas-Fired I.C. Engine - = o r > 1000 bhp, Serving a Cogeneration Operation with Heat Recovery **Rescinded: 10/01/02, see 3.3.13** (10/1/2002)

3.3.11 Gas-Fired IC Engine - > 1,500 hp, Lean Burn, Serving an Electrical Power Generator **Rescinded: 10/01/02, see 3.3.12** (10/1/2002)

3.3.12 Fossil Fuel** Fired IC Engine > 50 hp (10/1/2002)

3.3.13 Waste Gas** Fired IC Engine** - > 50 hp **Rescinded 8/22/08** (8/22/2008)

3.3.14 Full-time Rich-burn IC Engine, Syngas-fueled* (1/12/2009)

3.4 Gas Turbines

3.4.1 Gas Turbine - = or > 47 MMBtu/hr, Variable Load, Without Heat Recovery (10/1/2002)

3.4.2 Gas Turbine - = or > 50 MW, Uniform Load, with Heat Recovery (10/1/2002)

3.4.3 Gas Turbine with Heat Recovery (= > 3 MW and = < 10 MW) (1/18/2005)

3.4.4 Limited Use (< 877 hours per year) Gas Fired Turbine = or < 26 MW, without Heat Recovery (4/5/2001)

3.4.5 Existing 13.6 MMBtu/hr Solar Saturn Model 1100 Gas Turbine Engine Driving Gas Compressor **(Rescinded: 10/01/02, see 3.4.6)** (10/1/2002)

3.4.6 Gas Turbine - > 10 MW and < 50 MW, Uniform Load, with Heat Recovery (9/30/2009)

3.4.7 Gas Turbine - = or > 50 MW , Uniform Load, without Heat Recovery (10/1/2002)

3.4.8 Gas Turbine - < 50 MW, Uniform Load, Without Heat Recovery (10/1/2002)

3.4.9 Gas Turbine - < 3 MW, Uniform Load, With or Without Heat Recovery (10/1/2002)

3.4.10 Oxy-Fuel Combustor Powering a Steam Turbine, Power Output < 3 MW, without Heat Recovery, Uniform and Variable Load, Research Facility (11/21/2006)

4.0 Evaporative Loss Sources

4.1 Dry Cleaners

4.1.1 Dry Cleaner - Perchloroethylene, Closed Loop with Primary and Secondary Controls (10/20/1997)

4.1.2 Petroleum Solvent Dry Cleaning (4/8/2004)

4.2 Motor Vehicle Coating

4.2.1 Automotive Spray Painting Operation, < 5.0 MMBtu/hr** (3/23/2010)

4.2.2 Group II Vehicles Spray Painting Operation - Vehicles requiring a Color Match (7/15/1998)

4.2.3 Mobile Equipment Coating Operation - Multiple Location, <= 20,000 lb-VOC/year (3/23/2010)

4.2.4 Trailer Coating Operation (12/23/1996)

4.2.5 Limited Aircraft Coating Operation - Maintenance and Refinishing of Metal Parts on Aircraft, < 20 Gallons/day. (4/23/2002)

4.2.6 Aerospace Parts Coating Operation (1/16/1997)

4.2.7 Aerospace and Metal Parts Coating Operating - Solid Film Lubricant for computer, medical specialty, and aerospace metal parts and products (11/12/1998)

4.2.8 Recreational Marine Vessel (Pleasure Craft) Coating (12/5/2003)

4.2.9 Aerospace Parts Coating Operation - Plasma Spray Application (6/11/2001)

4.2.10 Motor Vehicle Chassis Coating Operation - Electrodeposition with a Curing Oven. (7/16/2001)

4.3 Metal Parts and Products Coating

4.3.1 Metal Parts and Products Coating - Air Dried (excluding specialty coating as defined in Rule 4603) (3/18/1999)

4.3.2 Metal Parts and Products Coating - Heat Dried (12/9/1997)

4.3.3 Metal Product Coating - Metal Rod Dip Coating, Air-Dried, = or > 150 gallons/month coating **RESCINDED 10/4/11; SEE 4.3.18** (2/22/1995)

4.3.4 Metal Product Coating - Limited Metal Rod Dip Coating, Air-Dried, < or = 15 lb/day Facility VOC coating emissions **RESCINDED 10/4/11; SEE 4.3.18** (6/1/1995)

4.3.5 Metal Parts and Products Coating Operations (using specialty coatings as defined by Rule 4603) (11/26/1996)

4.3.6 Metal Products Coating - Shipping/Storage Containers (11/20/2010)

4.3.7 Powder Coating Operation = or >1.5 MMBtu/hr (10/30/2000)

4.3.8 Metal Product Coating - Large Steel Structures, < 64 lb VOC/day, Outdoor Coating Operation (7/3/2001)

4.3.9 Metal Product Coating - Large Steel Structures, = or < 64 lb VOC/day, Indoor Operation (3/3/1999)

4.3.10 Metal Products Coating - Sheet Metal for Can Manufacturing, Major Source for VOC (2/16/2001)

4.3.11 Metal Products Coating - Touch-up, 6.2 lb VOC/day (9/29/1995)

4.3.12 Metal Products Coating - High Gloss, Air-Dried,= or < 30 lb/day Facility-wide VOC coating emissions (8/2/1995)

4.3.13 Metal Products Coating - Metal Frames and Exterior Wooden Wall Panels for Modular Buildings (5/16/2001)

4.3.14 Side Seam Stripe Spray Coating Operation for 3-Piece Metal Can Manufacturing at a Facility-wide Can Manufacturing Rate of >= 180,000 Can/hr (7/14/2005)

4.3.15 Dip Coating of Steel Joists (11/4/2003)

4.3.16 Coated Steel Storage/Drying Operation (11/4/2003)

4.3.17 "Bright Dip" Aluminum Surface Finishing Operation (3/13/2008)

4.3.18 Metal Product Coating - Metal Rod Dip Coating, Air-Dried (10/4/2011)

4.4 Wood Parts and Products Coating

4.4.1 Wood Products Coating Operation - Non-Continuous Batch Coating (10/16/1996)

4.4.2 Wood Products Coating Operation - Continuously-fed Booth, = or < 5000 square feet material coated/day (5/12/2000)

4.4.3 Wood Products Coating Operation - Custom Replica Furniture, < or = 400 lb VOC/day (11/13/2000)

4.4.4 Wood Products Coating Operation - Exterior Wooden Wall Panels for Modular Buildings (3/6/1997)

4.5 Misc. Coating

4.5.1 Paper Roll-Coating - Heatset (1/21/1998)

4.5.2 Coating Operation - Large Concrete Structure Manufacturing, Outdoor Application (3/12/1998)

4.5.3 Coating Operation - Fiberglass Utility Poles, = or > 90 lb/day of VOC emissions (5/4/1995)

4.5.4 Plastic Parts and Products Coating (12/16/1999)

4.5.5 Coating Operation - Small Concrete Products (10/16/2002)

4.5.6 Coating Operation - Clay-based, Cat Litter , Heat Dried (3/12/2001)

4.5.7 Coating of Flat Sheet Glass (for non-transparent coatings) (7/10/2003)

4.5.8 Weatherproofing Coating Application (Electronic Components) (3/3/2008)

4.5.9 Vinyl Window and Patio Door Assembly Glazing Table (3/20/2008)

4.6 Fuel Dispensing

4.6.1 Motor Vehicle Gasoline Storage and Dispensing Operation (4/14/2010)

4.6.2 Motor Vehicle Gasoline Storage and Dispensing Operation, = or > 10,000 gallons/month **(Rescinded: 10/01/02, combined with 4.6.1)** (10/1/2002)

4.6.3 Motor Vehicle Gasoline Storage and Dispensing Operation - Bulk plants with Diesel fuel switch loading (10/30/1997)

4.6.4 Non-Motor Vehicle Fuel Storage and Dispensing Operation (9/19/1997)

4.6.5 Aviation Fuel Dispensing Facility (10/17/1996)

4.7 Printing & Graphic Arts

4.7.1 Offset Lithographic Printing - Publication Printing, High-end Graphics, Heatset using with a Drying Oven (6/25/1999)

4.7.2 Offset Lithographic Printing - Non-heat Set Press (10/15/2010)

4.7.3 Flexographic Printer/Gluer - Corrugated Box **Invalid; See 4.9.12** (12/22/2003)

4.7.4 Flexographic Printing - Corrugated Boxes, High End Graphics (9/22/2006)

4.7.5 Flexographic printing - Heatset inks on low-porosity glossy paper and plastic film (2/25/1998)

4.7.6 Screen Printer with natural gas-fired dryer (1/21/1998)

4.7.7 Screen Print - Ultraviolet (UV) coating with Curing Lamp(s) (8/9/2002)

4.7.8 Printing Operation - Data and Communication Cable Insulation, (11/20/1996)

4.7.9 Flexographic Printer - High-end graphics printing on Clay coated Paper, = or < 23 tons VOC/year (10/7/1999)

4.7.10 Printing Plate Manufacturing (6/21/2000)

4.7.11 Rotogravure Printing Operation (7/31/2000)

4.7.12 Flexographic Printing - High-end graphics, Heat-set Inks, on High-Porosity Material (4/17/2001)

4.7.13 Glass and Plastic Bottle Printing – Heat-dried (11/8/2002)

4.7.14 Flexographic UV Printing - High End Printing of Labels, Tags, and Forms** (11/9/2004)

4.7.15 Flexographic Printing - Corrugated Boxes, Low-end Graphics (9/22/2006)

4.7.16 Rotogravure Printing Operation Low Porosity Substrate - High End Graphics (11/8/2005)

4.8 Resin, Fiberglass & Plastic Products

4.8.1 Fiberglass Boat Manufacturing Operation (< 120 gallons/day and < 25 tons VOC per year) (12/7/2006)

4.8.2 Polyester Resin Products - Synthetic Marble Casting (5/1/1997)

4.8.3 Polyester Resin Products - Compression Molding of Plumbing Fixtures with fillers mixed in a closed system, = or < 2,900 gallons resin/day (6/10/1996)

4.8.4 Polyester Resin Products - Gel Coating of Plumbing Fixtures = or < 100 gallon resin/day (4/12/1996)

4.8.5 Polyester Resin Products - Chop Spray, Spray, and Hand Lay-Up, < or = 600 gallons resin/day (5/25/2005)

4.8.6 Fiberglass Products Manufacturing - Utility Poles, = or < 6,000 lb/day of raw resin (5/4/1995)

4.8.7 Fiberglass Products Manufacturing - Fiberglass Mat Dryer and Curing Oven (1/25/1999)

4.8.8 Polyester Resin Application - Boat & Marine Vessel Repair Operations (Pleasure Crafts Only) (12/5/2003)

4.8.9 Fiberglass Products Manufacturing - Fiberglass Mat Forming (1/25/1999)

4.8.10 Expandable Polystyrene (EPS) Molding Operation - Pre-expander unit, = or < 20 Tons/day (11/8/1995)

4.8.11 Polyester Resin Application - Concrete Block Surface Laminating, = or < 4000 Blocks laminated/day (1/22/1997)

4.8.12 Expanded Polystyrene (EPS) Products - Reclaim Extrusion Line (10/13/1999)

4.8.13 Polyethylene Foam Extrusion Operation (1/20/2000)

4.8.14 Expanded Polystyrene Products - Fluff Storage Silo, = or < 18 tons of foam /day (2/17/2000)

4.8.15 Existing Polystyrene Foam Sheet Extrusion Operation – Using VOC Blowing Agents to Produce Food Service Products. (2/17/2000)

4.8.16 Polyvinyl chloride (PVC) Products Manufacturing - Material Blending Operation (4/3/2000)

4.8.17 Polyethylene Products Manufacturing - Rotational Molding Operation (11/22/2000)

4.8.18 Expanded Polystyrene Foam Products - Vertical, water-quenched extruder; food-grade products. (10/7/2001)

4.8.19 Fiberglass-reinforced Composite Products – Pultruded, heat set resin products. (10/8/2001)

4.8.20 Phenolic Urethane Products - No-Bake Mold Manufacturing (11/11/2002)

4.8.21 Corrosion-Resistant Polyester Resin Application - Metal Products, < 75 gallons/day (7/2/2003)

4.8.22 Polyisocyanurate Free Rise and Restrained Rise Lines (9/10/2003)

4.8.23 Finished Product Storage Area (9/10/2003)

4.8.24 Fiberglass Mold Manufacturing (Tooling) Operation (6/4/2004)

4.8.25 Pneumatic Conveying - PVC Material (6/2/2005)

4.9 Adhesives

4.9.1 Adhesives Application Operation - Tire Retreading (7/10/1996)

4.9.2 Adhesive Application Operation - Rubber Parts and Products, Brush Applied (9/11/1997)

4.9.3 Adhesive Application Process - Foam Products (5/27/1997)

4.9.4 Adhesive Application Process - Non-Porous Materials, Specialty Contact Adhesives, Spray Application (4/3/2000)

4.9.5 Adhesive Application Process - Wooden case manufacturing (11/5/1998)

4.9.6 Paper Carton Manufacturing - Printing and Adhesive Application (11/28/2000)

4.9.7 Corrugated PVC Sheet Products - Special Contact Adhesive, Roller Applied (8/3/2001)

4.9.8 Adhesive Application Process – Wooden Door Assembly, Roller applied (11/20/2001)

4.9.9 Adhesive Application Process - Vinyl Door and Window Assembly, Non-Spray Applied (9/26/2003)

4.9.10 Adhesive Application for Multi-Wall Packaging Manufacturing (11/18/2004)

4.9.11 Adhesive Application Operation - Bonding of Fiberglass Boat Hulls and Decks, Non-Atomizing Application (11/3/2005)

4.9.12 Corrugated Box Gluer (9/22/2006)

4.10 Cleaning & Degreasing

4.10.1 Parts Cleaner - Electrical Components, Isopropyl Alcohol, = or > 440 sq. in. surface area of isopropyl alcohol (4/19/1995)

4.10.2 Cold cleaner/degreaser - Metal Products, Batch Loaded, = or < 1 gal/day solvent usage (7/1/1995)

4.10.3 Parts Cleaner - Rubber Parts and Products (1/23/2000)

4.10.4 Parts Cleaner/degreaser - Automotive Parts, Portable unit, < 10 Gallon remote reservoir (12/3/1997)

4.10.5 Medical Grade Silicon Products - Wipe Cleaning Operation (8/16/1999)

4.10.6 Metal Parts, Open-top, Powder Coating Stripping Tank (11/19/2001)

4.10.7 Metal Parts and Products Cleaning - Open-top, Heated, Vapor Degreaser (8/19/2002)

4.11 Misc. Manufacturing

4.11.1 Rubber Tire Manufacturing - Steel Belt Milling/Calendar (no cementing/gluing performed) (9/9/1996)

4.11.2 Non-woven Polyester Foam Production - = or < 1800 lb Foam/hr (10/11/1996)

4.11.3 Cardboard Box Laminator (9/22/2006)

4.11.4 Organic Liquid Storage Tanks - Non-petroleum and non-petrochemical facilities, = or < 19,800 gallons capacity (12/22/1998)

4.11.5 Circuit Board Manufacturing - Soldermask Operation (6/18/1997)

4.11.6 Railcar Unloading - Transfer of Non-petroleum Organic Liquids into Delivery Vehicles (7/11/1996)

4.11.7 Solvent-Laden Towel Cleaning - Counting Station, < 950 lb towels/day (10/4/1999)

4.11.8 Rubber Tire Retreading - Curing Chamber (autoclave) (12/27/1999)

4.11.9 Rubber Tire Retreading - Buffing Operation (Tread Removal) (12/27/1999)

4.11.10 Circuit Board Manufacturing – Flux Application for Wave Soldering Machine (2/15/2002)

4.11.11 Fructose Reclamation System - Process Vent (9/22/2006)

4.12 Chemical Processing

4.12.1 Chemical Plants - Valves & Connectors (11/26/2006)

4.12.2 Chemical Plants Pump and Compressor Seals (11/27/2006)

4.12.3 Chemical Evaporator, < 4 Gal/day of chemicals (1/22/1997)

4.12.4 Ethanol Fermentation Process Tanks Including: Fermentation Tanks and Beerwell Storage Tanks (2/17/2004)

4.12.5 Emission Units (Excluding Wet Cake Dryer) Involved in the Ethanol Distillation and Wet Cake Process (2/17/2004)

4.12.6 Ethanol Manufacturing Facility Distillers Dried Grains with Solubles (DDGS) Dryer (5/25/2004)

4.12.7 DDGS Cooler (8/16/2006)

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5.0 Food and Agriculture Industry

5.1 Material Handling Systems

5.1.1 Feed Mill - Dry Grain Transfer from Receiving Pit to Storage, = or > 4,000 tons/day (2/13/1996)

5.1.2 Feed Mill - Truck Loadout (3/12/1998)

5.1.3 Grain & Feed Transfer Operation - Transportable Auger (9/17/1997)

5.1.4 Receiving and Storage and Operation - Corn, > or = 112 tons/day (6/27/1991)

5.1.5 Railcar Receiving Pit - Dry Grain/Products, = or > 1,800 tons/day (11/24/1998)

5.1.6 Ship Unloading System - Bulk Cottonseed Receiving Hopper (5/22/2000)

5.1.7 Railcar Unloading - Transportable, material conveying equipment (2/17/2000)

5.1.8 Non-Delinted Cottonseed - Truck Loadout Operation (12/6/2004)

5.2 Nut & Grain Processing

5.2.1 Almond Hulling - = or > 5 tons/hr (6/14/1993)

5.2.2 Almond Processing - Sizing Operation (8/23/2001)

5.2.3 Pistachio Nut Processing - Precleaning Operation, > or = 375 ton/day in-hull pistachios (1/30/1995)

5.2.4 Feed Mill - Grain Grinder, Dry Process, > or = 24 tons/hr (2/13/1996)

5.2.5 Feed Mill - Grain Cleaner with aspirator (9/11/1992)

5.2.6 Feed Mill - High Moisture Grain Pelletizing & Drying Operation (2/22/1999)

5.2.7 Grain Cooler - Feed Mill, Steam Softened for Grain Rolling or Pelletizing Operations (3/12/1998)

5.2.8 Propylene Oxide Fumigation - Fumigation Chamber (12/9/2002)

5.2.9 Propylene Oxide Fumigation - Off-gassing Process** (7/1/2002)

5.2.10 Wet Corn Mill - High Moisture Gluten Dryer (5/8/2003)

5.2.11 Rice Mill - Protein Drying and Bagging Operation (6/20/2003)

5.2.12 Phosphine Fumigation of Nuts, Dried Fruit, Grain, and Beans (3/13/2008)

5.3 Cotton & Fiber Processing

5.3.1 Cotton Gin Operation (6/25/2007)

5.3.2 Cotton Gin - Natural Gas-Fired Dryer, = or < 8 MMBtu/hr Burner (6/30/2000)

5.3.3 Cotton Seed Delinting (12/26/1996)

5.3.4 Vegetable/Cotton Seed Decortication Process, > or = 1400 tons/day (3/25/1997)

5.3.5 Kenaf Fiber Processing - Separation Operation, = or > 3.0 MMBtu/hr burner, = or > 72 ton raw material/day (6/19/1995)

5.4 Fruit, Vegetable, Seed Processing, & Equipment

5.4.1 Fruit Storage & SO2 Fumigation - = or > 21,760 cu. ft. Fumigation Rooms (5/31/1995)

5.4.2 Fruit Drying & SO2 Fumigation Operation, = or > 21760 ft3 Fumigation Rooms (7/8/1994)

5.4.3 Dry Bean Processing - Methyl Bromide Fumigation Chamber, < or = 14,400 cubic feet (2/27/1996)

5.4.4 Fruit Roll Manufacturing - Mixing/Processing, = or > 86,000 lb mash/day (12/15/1995)

5.4.5 Garlic and Onion Seed Processing - = or > 100,000 lb/day (5/5/1987)

5.4.6 Garlic Grading Line, < 30 lb PM10/day (6/26/1996)

5.4.7 Sunflower Seeds - Processing with Brine Solution & Roasting (7/16/1998)

5.4.8 Fruit Fumigation - Ethanol Soaking Tank (6/21/2000)

5.4.9 Tomato Powder Manufacturing (11/18/2003)

5.4.10 Dried Fruit SO2 Fumigation Operation (6/28/2004)

5.4.11 Onion Grading and Packing Line (6/23/2005)

5.4.12 Commodity Methyl Bromide Fumigation Chamber (6/25/2008)

5.4.13 Wine Storage Tank (10/6/2009)

5.4.14 Wine Fermentation Tank (10/6/2009)

5.4.15 Distilled Spirits Storage Tank (11/2/2011)

5.5 Snack Food Processing

5.5.1 Snack Chip Steam-heated Conditioning Units - Fryer and De-oiler (1/15/2003)

5.5.2 Tortilla Chip Line- Ambient Air Cooler, = or < 3300 lb/hr (10/1/1995)

5.5.3 Panning (Engrossing) Operation** (8/25/2008)

5.5.4 Polishing Operation** (8/20/2008)

5.6 Misc. Processes & Equip

5.6.1 Yeast Fermenter (8/8/1998)

5.6.2 Animal Feed Supplement Manufacturing - Palm Oil & Calcium Oxide Process (2/17/2004)

5.6.3 Animal Feed Supplements - Steam-Heated Molasses Cooker (6/7/2002)

5.6.4 Bakery Waste Products Dryer (1/8/2004)

5.6.5 Broiler House (2/1/2006)

6.0 Mineral and Biomass Products

6.1 Sand & Gravel Operations

6.1.1 Aggregate Crushing, Screening & Storage Operation - = or > 5,850 tons/day (1/27/1994)

6.1.2 Sand & Gravel Processing Facility - Wet Plant (2/29/2000)

6.1.3 Sand Dryer - Fluidized Bed (6/12/1996)

6.1.4 Asphalt & Concrete Recycling - Crushing and Screening Operations, = or > 450 tons processed/hr (9/8/1993)

6.1.5 Rotary Aggregate Dryer - Remote Location Where Commercial Natural Gas is Not Available, (< or =) 15 tons aggregate/hr or (< o r=) 22.7 MMBtu/hr burner (4/13/1995)

6.1.6 Bulk Storage and Handling - Non-White Commodities* One Acre or Greater Storage Area (6/26/1998)

6.2 Portland Concrete

6.2.1 Portland Concrete - Batch Plant, < 700 cubic yards/day **RESCINDED 3/10/08: see 6.2.2** (3/10/2008)

6.2.2 Concrete Batch Plant (3/10/2008)

6.2.3 Portland cement bagging machine - Dry Mix, (= or >) 1292 tons/day of cement or (= or >) 1292 tons/day of concrete or (= or >) 1292 tons/day of cement plus concrete (10/13/1998)

6.2.4 Portland Concrete Products Manufacturing - Tumbler (1/16/2001)

6.2.5 Portland Concrete Products Processing – Roof Tile Coating, Continuous Feed Booth (2/15/2002)

6.2.6 Portland Concrete Batch Plant - Auger Mixing System, = or < 360 cy/day (11/26/2002)

6.2.7 Concrete Roofing Trim Tile Mold Releasing Oil Application Operation (2/11/2005)

6.3 Asphaltic Concrete

6.3.1 Asphaltic Concrete - Drum Mix Plant, = or > 2,000 ton/day or = or > 75.6 MMBtu/hr burner (5/21/2001)

6.3.2 Asphalt Treating Unit (9/30/1996)

6.3.3 Asphaltic Concrete Plant - Batch Mix, = or > 75 MMBtu/hr and = or > 2,000 tons/day of Asphaltic Concrete (8/8/1996)

6.3.4 Asphalt Shingle Mfg. - Dry Material Storage, Receiving and Processing Operation, = or > 3998 tons/day of product (8/19/1993)

6.3.5 Asphalt Roofing Shingle Mfg. - Process Heater, = or > 8 MMBtu/hr (2/24/1995)

6.3.6 Asphalt Roofing Product Mfg. - Coating Operation, > 100 tons/day (3/18/2002)

6.3.7 Asphalt-Based Roofing Products - Mixer (3/21/1996)

6.4 Composting & Biomass

6.4.1 Composted Materials - Screening, Transportable, Wood Waste Processing (4/3/1998)

6.4.2 Tub Grinder - Transportable, Wood Waste Processing (4/3/1998)

6.4.3 Composted Materials - Transfer & Screening, Agriculture "Green Waste" (1/1/1996)

6.4.4 Unit: Composted Materials - Potting Soil Mixing and Bagging Operation (2/2/1998)

6.4.5 Biomass - Fuel Receiving, Handling, and Storage (9/7/1998)

6.4.6 Composted Materials - Hydromulch Dryer (9/14/1999)

6.4.7 Co-Composting with Biosolids (11/17/2004)

6.5 Misc. Mineral Products

6.5.1 Synthetic-Stone Products Manufacturing (1/8/1999)

7.0 Petroleum/Gas Industry

7.1 Petroleum Production

7.1.1 Thermally Enhanced Oil Recovery - Steam Drive Oil Wells** (3/11/1994)

7.1.2 Thermally Enhanced Oil Recovery - Small Producer, Cyclic Injected Steam Enhanced Oil Well Pilot Test, < or = 10 Cyclic Wells, < or = 180 days of Total Operation (8/11/1995)

7.1.3 Petroleum Production - Small Producers, Cyclic Wells, < or = 4 Cyclic Wells (9/5/1996)

7.1.4 Petroleum and Petrochemical Production - Fixed Roof
Organic Liquid Storage or Processing Tank, > or = 5,000 bbl Tank capacity ** Rescinded October 1, 2002, converted to 7.3.1 ** (10/1/2002)

7.1.5 Petroleum and Petrochemical Production - Floating Roof
Organic Liquid Storage or Processing Tank, = or > 471 bbl
Tank capacity, = or > 0.5 psia TVP ** Rescinded October 1, 2002, converted to 7.3.3** (10/1/2002)

7.1.6 Petroleum Production - Sand Removal Basin for Heavy Crude Oil (10/26/1993)

7.1.7 Sludge Dewatering, Various Locations (4/27/2004)

7.1.8 Petroleum Production - Mobile Degassing Operation for Storage
Tank with low H2S content, using an I.C. Engine as a control device (3/27/1995)

7.1.9 Petroleum Production - Mobile Degassing Operation for Storage
Tank with low H2S content, using a Thermal Oxidizer as a control device (3/19/1999)

7.1.10 Loading Rack/Switch Loading (2/23/2005)

7.1.11 Petroleum and Petrochemical Production - Fixed Roof Organic
Liquid Storage or Processing Tank, < 5,000 bbl Tank capacity **Rescinded October 1, 2002, converted to 7.3.1** (10/1/2002)

7.1.12 Tank - Fixed Roof, Petroleum Processing or Storage, = or > 5,000 bbl **Rescinded: October 1, 2002, converted to 7.3.2** (10/1/2002)

7.1.13 Petroleum Storage Tank and Pipeline De-Gassing - Mobile Operation (5/24/2002)

7.1.14 Light Crude Oil Unloading Rack (9/21/2006)

7.1.15 Biodiesel/Glycerol Production Operation (5/29/2007)

7.2 Petroleum Refining

7.2.1 Petroleum/Gas Processing - Induced Draft Evaporative Cooling
Tower, 18,000 gpm (1/1/1995)

7.2.2 Petroleum Refining - Valves & Connectors (11/27/2006)

7.2.3 Petroleum Refining - Pump and Compressor Seals (11/27/2006)

7.2.4 Petroleum Refineries and Chemical Plants - Swivel Joints Handling Volatile Organic Compounds, > 20,000 gallons/day throughput (11/27/2006)

7.2.5 Petroleum Refineries and Chemical Plants - Diesel Fuel Processing,
Sulfur Recovery Plant, < 20 tons Sulfur/day (3/14/2000)

7.2.6 Petroleum Refineries and Chemical Plants - Diesel Fuel
Processing, Sulfur Recovery Plant, = or > 20 tons Sulfur/day (11/1/2000)

7.2.7 Natural Gas Processing Plant - Valves, Connectors, and Compressor and Pump Seals (Subject to Rule 4403) < or = 100 Million SCF/Day (11/27/2006)

7.2.8 Catalyst Regeneration - Fluid Catalytic Cracking Unit (9/1/2006)

7.3 Storage Tanks

7.3.1 Petroleum and Petrochemical Production - Fixed Roof Organic Liquid Storage or Processing Tank, < 5,000 bbl Tank capacity ** (10/1/2002)

7.3.2 Petroleum and Petrochemical Production - Fixed Roof Organic Liquid Storage or Processing Tank, = or > 5,000 bbl Tank capacity ** (10/1/2002)

7.3.3 Petroleum and Petrochemical Production - Floating Roof Organic Liquid Storage or Processing Tank, = or > 471 bbl Tank capacity, = or > 0.5 psia TVP (10/1/2002)

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8.0 Miscellaneous Sources

8.1 Wood and Paper Products

8.1.1 Wood Working Equipment - = or > 30 electric hp of woodworking equipment or = or > 100 board feet processed/day (5/16/1995)

8.1.2 Corrugated Cardboard Manufacturing - Waste Handling System (3/22/1998)

8.1.3 Paper Handling - Paper Grinding Operation, = or > 60 tons paper/day (4/15/1995)

8.1.4 Cardboard Sawing (11/17/2006)

8.2 Mineral and Metal Products

8.2.1 Petroleum Coke Handling - Receiving, Storage, and Loadout = or > 1,000 tons coke per day (3/25/1995)

8.2.2 Chrome Plating Operation - Hard Chrome Plating,= or > 5.00 MM Amp-hr/yr (7/1/1995)

8.2.3 Chrome Plating Operation - Decorative Chrome Plating (7/21/2000)

8.2.4 Chrome Plating Operation - Limited Operation (= or < 500,000 Amp-hr/yr) (7/18/2000)

8.2.5 Munitions Cartridge Case Manufacturing - Metal Processing Tanks (1/10/2001)

8.2.6 Brass/Bronze Foundry > or = 300 lb/hr brass/bronze process rate (7/18/2006)

8.3 Specialty Sources and Operations

8.3.1 Flat glass manufacturing - Adipic acid spraying system to coat flat glass before storage (5/17/1996)

8.3.2 Animal Matter Rendering Plant (2/21/1998)

8.3.3 Standby LPG Fuel Supply System - = or > 30 MMBtu/hr (4/11/2003)

8.3.4 Metal Parts and Product Fabrication - Plasma Arc Cutting Torch (2/5/2003)

8.3.5 Satellite thruster testing operation (10/7/1998)

8.3.6 Phosphate Fertilizer Manufacturing - Transportable, = or < 40 tons/hour (10/2/1998)

8.3.7 Plastic and Polymeric Material Processing - Grinding (4/29/2002)

8.3.8 Explosives Detonation Chamber (2/24/2000)

8.3.9 Glass Packing and Cullet Handling Operation - For Flat Glass Manufacturing (3/3/2000)

8.3.10 Cooling Tower - Induced Draft, Evaporative Cooling (6/19/2000)

8.3.11 Laser Cutting System (11/13/2008)

8.3.12 Helicopter Engine Test Cell (9/24/2001)

8.3.13 Carpet Padding Manufacturing – Fabric Fiber Separating Operation (4/15/2002)

8.3.14 Tire Recycling Operation - Ground Tire Material Processing (2/12/2003)

8.3.15 Solder Paste Manufacturing (7/23/2003)

8.3.16 Repair and Maintenance or Emergency Ammonia Venting Operation (=< 100 hr/yr operation) (9/28/2004)

8.3.17 Sulfur Powder Manufacturing (<= 4 MMBtu/hr Gas Generator) (2/2/2006)

8.3.18 Explosives Detonation - when unrestrained detonations or outdoor environmental conditions are required **(Rescinded: 3-06-07)** (11/9/2006)

8.3.19 Metal Grinding Operations (12/20/2007)

8.3.20 On-line Chemical Vapor Deposition Process** (8/25/2008)

8.4 Material Handling and Storage

8.4.1 Dry Material Storage and Conveying Operation, 100 tons/day (10/20/1992)

8.4.2 Wet Material Storage and Conveying Operation, 200 tons/day (9/29/1992)

8.4.3 Dry Material Handling - Mixing, Blending, Milling, or Storage (7/16/1998)

8.4.4 Mulch and Soil Bagging Operation (Receiving, Outdoor Storage, and Bagging Line Hopper) (1/27/2004)