

# 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 or = 20.0 MMBtu/hr, Natural Gas or Propane Fired \*RESCINDED\* (10/26/2009)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 \*RESCINDED\* (10/26/2009)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 \*RESCINDED\* (10/26/2009)
- 1.1.4 Digester Gas Fired Boiler \*RESCINDED\* (10/26/2009)
- 1.1.5 Boiler-Dual Fuel for Facilities Requiring Liquid Backup Fuel \*RESCINDED\* (10/26/2009)
- 1.1.6 Boiler - Fired with a High-Ammonia Fuel \*RESCINDED\* (10/26/2009)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 9 Billion Btu/yr \*RESCINDED\* (10/26/2009)
- 1.1.8 Biomass-fired Boiler - Grate Systems \*RESCINDED\* (10/26/2009)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 Oilfield Steam Generator (> or =20 MMBtu/hr) (3/24/2014)
- 1.2.2 Steam Generator - >20.0 MMBtu/Hr Vertically Oriented w/Counterflow Heat Transfer \*RESCINDED\* (10/26/2009)
- 1.2.3 Oilfield Steam Generator/TEOR Gas Incinerator \*\*RESCINDED - part of 5/04 update to guideline 1.2.1\*\* (5/1/2004)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- 1.3.2 Fluidized Bubbling Bed Combustor (biomass-fired) \*RESCINDED\* (3/12/2012)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- 1.4.1 Waste Gas Flare - 15.3 MMBtu/hr, Serving a Tank Vapor Control System \*RESCINDED\* (11/7/2016)
- 1.4.2 Waste Gas Flare - Incinerating Produced Gas \*RESCINDED\* (11/7/2016)
- 1.4.3 Landfill Gas Vapor Collection System (1/12/2021)
- 1.4.4 Digester Gas-Fired Flare \*RESCINDED\* (11/7/2016)
- 1.4.5 Oilfield Waste Gas Incinerator \*RESCINDED\* (11/7/2016)
- 1.4.6 Biogas-Fired Flare: = or > 10.9 MMBtu/hr, Limited Use \* RESCINDED\* (11/7/2016)
- 1.4.7 Waste Gas Flare - Oilfield Well Drilling and Testing Operation, < 50 MMscf/day \*RESCINDED\* (11/7/2016)
- 1.4.8 Refinery Flare \*RESCINDED\* (11/7/2016)

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## 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 (4/26/2006)
- 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- 1.5.4 Metal Melting Crucible/Furnace \*RESCINDED\* (5/18/2020)
- 1.5.5 Glass Bottle Label Curing Lehr - < 10 MMBtu/hr, Natural Gas Fired (10/19/2000)
- 1.5.6 Metal Heat Treatment Oven\*\* (10/15/2014)
- 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 Melting Furnace (12/9/2014)
- 1.5.10 Container Glass Annealing Lehr (10/9/2018)
- 1.5.11 Container Glass Production - Mold Swabbing Operation (5/21/2020)
- 1.5.12 Secondary Aluminum Melting: Sweat Furnace, Holding Furnace and Reverb Furnace (7/7/2020)
- 1.5.13 Aluminum Diecasting Furnace (3/7/2016)

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## **1.6 Food & Ag Products Ovens, etc.**

- 1.6.1 Vegetable Dry Roasting Operation (4/14/2020)
- 1.6.2 Oven - Tortilla, <= 5 MMBtu/hr \*RESCINDED\* (4/20/2020)
- 1.6.3 Snack Chip Fryer with Indirect-Fired Heat Transfer System (2/21/2020)
- 1.6.4 Oven - Snack Food (6/16/1999)
- 1.6.5 Cornnut (tm) cooker \*RESCINDED\* (4/20/2020)
- 1.6.6 Peanut Roasting Operation \*RESCINDED\* (4/20/2020)
- 1.6.7 Pistachio Roasting Operation (1/27/1994)
- 1.6.8 Nut and Seed Column Dryer (3/13/2015)
- 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 Direct-Fired Dairy Products Spray Dryer (5/9/2019)
- 1.6.12 Dryer - Whey, Filtermat, < 50 MMBtu/hr (4/22/1999)
- 1.6.13 Dehydrator - Vegetable, Continuous Process \*RESCINDED\* (11/17/2020)
- 1.6.14 Dehydrator Tunnel - Fruit, Natural Gas Fired (5/18/1998)
- 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 \*RESCINDED\* (4/20/2020)
- 1.6.18 Chicken Fryer - Natural Gas-Fired, Continuous Process, = or < 7 tons/hr \*RESCINDED\* (4/20/2020)
- 1.6.19 Meat Smokehouse - Natural Gas-Fired, < or = 2 MMBtu/hr \*RESCINDED\* (4/20/2020)
- 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 \*RESCINDED\* (4/20/2020)
- 1.6.22 Wood Drying Kiln (7/1/2020)
- 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 (12/30/2020)
- 1.6.25 Blood Drying Operation (4/18/2012)
- 1.6.26 Rotary Kiln Dryer for Poultry Litter\* Processing (3/25/2008)
- 1.6.28 Direct-Fired Conveyorized Hotdog Cooking Oven (7/2/2012)
- 1.6.29 Indirect-fired Impingement Meatball Cooking Oven (7/12/2012)

## **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)

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## 1.8 Petroleum Product Combustion Devices

- 1.8.1 Refinery Heater, fired on refinery fuel gas and/or natural gas (< or = 50 MM Btu/hr) **\*\*RESCINDED\*\*** (10/26/2009)
- 1.8.2 Refinery Heater, fired on refinery fuel gas and/or natural gas (> 50 MM Btu/hr) **\*\*RESCINDED\*\*** (10/26/2009)
- 1.8.3 Gas Dehydration - Glycol Reboiler **\*\*RESCINDED\*\*** (10/26/2009)
- 1.8.4 Heater Treater < 20 MMBtu/hr, Natural Gas Fired **\*\*RESCINDED\*\*** (10/26/2009)
- 1.8.5 Process Heater (non-refinery, < or = 20 MMBtu/hr) **\*\*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 **\*RESCINDED\*** (4/20/2020)
- 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 **\*RESCINDED\*** (4/20/2020)
- 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, Natural Gas-Fired - < 5.0 MMBtu/hr (7/1/2020)
- 1.9.12 Transportable Diesel-Fired Nitrogen Vaporizer **\*RESCINDED\*** (4/20/2020)
- 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 **\*RESCINDED\*** (4/20/2020)
- 1.9.16 Power Oxidizer - VOC Incineration and Power Generation, < or = 35 MMBtu/hr (4/26/2016)
- 1.9.17 Stationary Air Curtain Incinerator (1/30/2017)

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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 \*RESCINDED\* (5/6/2020)
- 2.1.5 Soil Remediation Operation - Above-ground Bioremediation (6/23/1992)
- 2.1.6 Soil Remediation Operation - Boiler, = or < 4.2 MMBtu/hr \*RESCINDED\* (5/6/2020)
- 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 \*RESCINDED\* (4/20/2020)
- 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 \*RESCINDED\* (4/20/2020)

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**3.0 Internal Combustion Engines**

**3.1 Emergency IC Engines**

- 3.1.1 Emergency Diesel-Fired IC Engine (6/13/2019)
- 3.1.4 Emergency Diesel-Fired IC Engine Powering a Fire Pump (3/2/2020)
- 3.1.5 Emergency Gas-Fired IC Engine (7/16/2018)
- 3.1.7 Emergency Gasoline-Fired I.C. Engine \*RESCINDED\* (4/20/2020)

**3.2 Limited/Special Use Engines**

- 3.2.1 Diesel I.C. Engine - > 449 hp, used for Testing of Crankcase Emission Controls \*RESCINDED\* (4/20/2020)
- 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 \*RESCINDED\* (7/7/2020)
- 3.2.3 Diesel Fired IC Engine - < 700 hp, Serving a Deep Water Channel Dredging Operation, and Not Used to Drive an Electrical Generator \*RESCINDED\* (4/20/2020)
- 3.2.5 Diesel I.C. Engine - Used for starting a Gas Turbine (3/5/2001)
- 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 \*RESCINDED\* (7/7/2020)
- 3.2.11 Transportable Compression - Ignited IC Engines (Non-Agricultural)\* (8/11/2014)

**3.3 Fulltime IC Engines**

- 3.3.1 Diesel Fired IC Engine - < 600 hp, Transportable Metal Contaminated Soil Processing Operation \*RESCINDED\* (4/20/2020)
- 3.3.12 Non-Agricultural Fossil\*\* Fuel-Fired IC Engines > 50 bhp \*\*\*RESCINDED 3/7/19 - pending BACT guideline revision in progress\*\*\* (3/7/2019)
- 3.3.14 Full-time Rich-burn IC Engine, Syngas-fueled\* (1/12/2009)
- 3.3.15 Waste Gas-Fired IC Engine\*\* (3/6/2013)
- 3.3.16 Ag Stationary Compression-Ignited IC Engine (6/1/2006)
- 3.3.17 Ag Transportable Compression-Ignited IC Engine (6/1/2006)
- 3.3.18 Landfill Gas-Fired Lean Burn IC Engine < 500 bhp, Stationary (4/27/2015)

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## 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)
- 3.4.6 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 \*RESCINDED\* (4/20/2020)
- 3.4.11 Diesel-Fired Emergency Standby Turbine (3/5/2015)

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**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 (9/27/2021)
- 4.2.6 Aerospace Parts Coating Operation (9/27/2021)
- 4.2.7 Solid Dry Film Based Lubricant Coating Operations for Metal Parts and Products and Aerospace Assembly and Components (9/27/2021)
- 4.2.8 Recreational Marine Vessel (Pleasure Craft) Coating (12/5/2003)
- 4.2.9 Aerospace Parts Coating Operation - Plasma Spray Application (9/27/2021)
- 4.2.10 Motor Vehicle Chassis Coating Operation - Electrodeposition with Curing Oven (9/19/2019)
- 4.2.11 Motor Vehicle Assembly (OEM) Adhesives Application Operation - Glass Installation (Non-Spray Application) (4/30/2018)
- 4.2.12 Small Scale Motor Vehicle Assembly (OEM) Coating Operation with a Booth Heater, < 2,000 lb-VOC/year (4/30/2018)



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## **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)
- 4.3.5 Metal Parts and Products Coating Operations (using specialty coatings as defined by Rule 4603) \*RESCINDED\* (4/21/2020)
- 4.3.6 Metal Products Coating - Shipping/Storage Containers (11/20/2010)
- 4.3.7 Powder Coating Operation with Curing Oven (5/1/2020)
- 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, Indoor Operation (12/30/2020)
- 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  $\geq$  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)

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## **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 (4/8/2020)
- 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)
- 4.5.10 Glass Bottle Coating Operation (9/20/2016)

## **4.6 Fuel Dispensing**

- 4.6.1 Motor Vehicle Gasoline Storage and Dispensing Operation (8/24/2018)
- 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 (8/24/2018)
- 4.6.5 Aviation Fuel Dispensing Facility (8/24/2018)
- 4.6.6 LPG Cylinder Refilling System (5/24/2018)

## **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)
- 4.7.4 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 (4/27/2020)
- 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)

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## **4.8 Resin, Fiberglass & Plastic Products**

- 4.8.1 Fiberglass Boat Manufacturing (< 120 gallons/day and < 25 tons VOC per year) (4/27/2020)
- 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 and Marine Vessel Repair Operations (Pleasure Crafts Only) (3/24/2021)
- 4.8.9 Fiberglass Products Manufacturing - Fiberglass Mat Forming (1/25/1999)
- 4.8.10 Expandable Polystyrene (EPS) Molding Operation - Pre-expander Unit (12/30/2020)
- 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 (6/9/2020)
- 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 No-Bake Mold Manufacturing (8/26/2020)
- 4.8.21 Corrosion-Resistant Polyester Resin Application (6/11/2021)
- 4.8.22 Polyisocyanurate (PIR) Insulated Panel Manufacturing Operation Consisting of Pentamat, Laminator, and Panel Saws (2/14/2019)
- 4.8.23 Finished Polyisocyanurate Product Storage Area (9/10/2003)
- 4.8.24 Fiberglass Mold Manufacturing (Tooling) Operation (8/21/2020)
- 4.8.25 Pneumatic Conveying - PVC Material (4/23/2020)
- 4.8.26 Finished Polyethylene Product Storage Area (5/31/2018)

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## **4.9 Adhesives**

- 4.9.1 Adhesives Application - Tire Retreading (8/21/2020)
- 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 Food-Grade Carton Manufacturing - Specialty Flexographic Printing and Coatings Application (6/10/2021)
- 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 (8/29/2018)
- 4.9.13 Corrugated Board Manufacturing (Corrugator) (8/29/2018)
- 4.9.14 Wood Parts and Products Subfloor Adhesive Application Operation (6/6/2019)

## **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 (5/28/2020)
- 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)

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## **4.11 Misc. Manufacturing**

- 4.11.1 Tire Manufacturing - Steel Belt Milling/Calendar (no cementing/gluing performed) (4/28/2020)
- 4.11.2 Non-woven Polyester Foam Production - = or < 1800 lb Foam/hr \*RESCINDED\* (4/21/2020)
- 4.11.3 Cardboard Box Laminator (5/21/2020)
- 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 \*RESCINDED\* (4/21/2020)
- 4.11.6 Railcar Unloading - Transfer of Non-petroleum Organic Liquids into Delivery Vehicles (7/11/1996)
- 4.11.7 Shop Towel Laundering Consisting of Sorting Tables, Washing Machines, and Wastewater Treatment System (5/9/2016)
- 4.11.8 Rubber Tire Retreading - Curing Chamber (autoclave) (12/27/1999)
- 4.11.9 Rubber Tire Retreading - Buffing Operation (Tread Removal) (4/30/2020)
- 4.11.10 Circuit Board Manufacturing – Flux Application for Wave Soldering Machine (2/15/2002)
- 4.11.11 Fructose Reclamation System - Process Vent \*RESCINDED\* (7/2/2020)

## **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/Dryer/Oven (8/28/2019)
- 4.12.4 Ethanol Fermentation Process Tanks Including: Fermentation Tanks and Beerwell Storage Tanks (7/8/2020)
- 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 Distillers Dried Grains with Solubles (DDGS) Cooler (8/16/2006)
- 4.12.8 Ethanol Wet Cake Storage and Loadout Operation (1/23/2007)
- 4.12.9 Ethanol Production: Solar Drying of Distillers Cake (7/18/2016)

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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 > 1,700 tons/day (4/27/2020)
- 5.1.6 Ship Unloading System - Bulk Cottonseed Receiving Hopper (4/20/2020)
- 5.1.7 Railcar Unloading - Transportable, Material Conveying Equipment (5/4/2020)
- 5.1.8 Non-Delinted Cottonseed - Truck Loadout Operation (9/27/2021)

**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 Grinding, Dry Process (3/6/2020)
- 5.2.5 Feed Mill - Grain Cleaner with Aspirator (3/6/2020)
- 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 (5/14/2020)
- 5.2.9 Propylene Oxide Fumigation - Off-Gassing Process\*\* (5/14/2020)
- 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 (1/23/2013)
- 5.2.13 Walnut Receiving and Precleaning (12/28/2010)

**5.3 Cotton & Fiber Processing**

- 5.3.1 Cotton Gin Operation (6/15/2020)
- 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 \*RESCINDED\* (4/21/2020)

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## **5.4 Fruit, Vegetable, Seed Processing, & Equipment**

- 5.4.1 Fruit Storage and SO<sub>2</sub> Fumigation: = or > 21,760 cu. ft. Fumigation Rooms (6/18/2020)
- 5.4.2 Fruit Drying and SO<sub>2</sub> Fumigation: = or > 21760 cu. Ft. Fumigation Rooms (6/18/2020)
- 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 \*RESCINDED\* (4/21/2020)
- 5.4.5 Garlic and Onion Seed Processing (4/30/2020)
- 5.4.6 Garlic Grading Line (4/30/2020)
- 5.4.7 Sunflower Seeds - Processing with Brine Solution & Roasting \*RESCINDED\* (4/7/2020)
- 5.4.8 Fruit Fumigation - Ethanol Soaking Tank (9/27/2021)
- 5.4.9 Tomato Powder Manufacturing (4/17/2020)
- 5.4.10 Dried Fruit SO<sub>2</sub> Fumigation Operation (6/28/2004)
- 5.4.11 Onion Grading and Packing Line (6/23/2005)
- 5.4.12 Methyl Bromide Fumigation Chamber < 100,000 lb-CH<sub>3</sub>Br/year\*\* (3/29/2017)
- 5.4.13 Wine Storage Tank - Non-Wood Material\*\* (9/7/2018)
- 5.4.14 Wine Fermentation Tank (10/6/2009)
- 5.4.15 Distilled Spirits Storage Tank (5/6/2020)
- 5.4.16 Ethanol Evaporator System (5/13/2020)
- 5.4.17 Wine Storage Tank - Wood Material (9/18/2019)
- 5.4.18 Methyl Bromide Fumigation Chamber > or = 100,000 lb-CH<sub>3</sub>Br/year (3/29/2017)

## **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 \*RESCINDED\* (4/21/2020)
- 5.5.3 Candy Panning (Engrossing) Operation\*\* (6/10/2020)
- 5.5.4 Candy Polishing Operation\*\* (7/1/2020)

## **5.6 Misc. Processes & Equip**

- 5.6.1 Yeast Fermenter \*RESCINDED\* (4/21/2020)
- 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 \*\* Moved to 5.7.1\*\* (2/1/2006)

## **5.7 Animal Feeding Operations**

- 5.7.1 Broiler House (2/1/2006)
- 5.7.2 Poultry Layer House (2/5/2013)
- 5.7.3 Turkey House (11/23/2011)

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**5.8 Dairies/Cattle**

- 5.8.1 Milking Parlor (12/18/2013)
- 5.8.2 Cow Housing - Freestall and Saudi-Style Barns (12/18/2013)
- 5.8.3 Cow Housing - Open Corrals (3/17/2015)
- 5.8.4 Cow Housing - Loafing Barns (3/17/2015)
- 5.8.5 Cow Housing - Area for Baby Calves (0-3 months) (12/18/2013)
- 5.8.6 Liquid Manure Handling - Lagoon/Storage Pond (12/18/2013)
- 5.8.7 Liquid Manure Handling - Liquid/Slurry Land Application (12/18/2013)
- 5.8.8 Solid Manure Handling - Storage/Separated Solids Piles (12/18/2013)
- 5.8.9 Solid Manure Handling - Land Application (12/18/2013)
- 5.8.10 Feed Storage and Handling - Silage Piles (12/18/2013)
- 5.8.11 Feed Storage and Handling - Feed/TMR (12/18/2013)
- 5.8.12 Dairy Manure Digester with Backup/Emergency Flare (8/2/2018)



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**6.0 Mineral and Biomass Products**

**6.1 Sand & Gravel Operations**

- 6.1.2 Sand, Gravel, Aggregate, Recycled Asphalt & Recycled Concrete: Processing, Crushing, Screening and Storage Operations (7/31/2018)
- 6.1.3 Sand Dryer - Fluidized Bed \*RESCINDED\* (4/21/2020)
- 6.1.5 Rotary Aggregate Dryer - Remote Location Where Commercial Natural Gas is Not Available, (< or =) 15 tons aggregate/hr or (< or =) 22.7 MMBtu/hr burner \*RESCINDED\* (4/21/2020)
- 6.1.6 Bulk Storage and Handling - Non-White Commodities\* One Acre or Greater Storage Area (6/26/1998)

**6.2 Portland Concrete**

- 6.2.2 Concrete Batch Plant (7/31/2018)
- 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 \*RESCINDED\* (4/21/2020)
- 6.2.4 Portland Concrete Products Manufacturing - Tumbler (4/30/2020)
- 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 Tile Mold Releasing Oil Application Operation (12/30/2020)

**6.3 Asphaltic Concrete**

- 6.3.1 Asphaltic Concrete - Mix Plant (8/23/2018)
- 6.3.2 Asphalt Treating Unit \*RESCINDED\* (4/21/2020)
- 6.3.4 Asphalt Shingle Mfg. - Dry Material Receiving, Storage, and Processing Operations (10/10/2019)
- 6.3.5 Asphalt Roofing Shingle Mfg. - Process Heater, = or > 8 MMBtu/hr \*RESCINDED\* (4/21/2020)
- 6.3.6 Asphalt Roofing Product Mfg. - Coating Operation, > 100 tons/day \*RESCINDED\* (4/21/2020)
- 6.3.7 Asphalt-Based Roofing Products - Mixer \*RESCINDED\* (4/21/2020)

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## **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 (3/10/2020)
- 6.4.3 Green Waste, Wood Waste, and Composted Material - Transfer & Screening (7/16/2018)
- 6.4.4 Composted Materials - Potting Soil Mixing and Bagging Operation \*RESCINDED\* (5/18/2020)
- 6.4.5 Biomass – Fuel Receiving, Handling, and Storage (8/24/2020)
- 6.4.6 Composted Materials - Hydromulch Dryer \*RESCINDED\* (4/21/2020)
- 6.4.7 Co-Composting with Green and Food Materials and Biosolids \*\*RESCINDED\*\* (11/21/2018)
- 6.4.8 Manure Composting (< 20,000 wet-tons/year) (12/19/2016)
- 6.4.9 Co-Composting Operation with Green and Food Materials and Manure: < 20,000 ton/year throughput \*\*RESCINDED\*\* (11/21/2018)
- 6.4.10 \*RESERVED\* for future Organic Materials (Green, Wood, and Food Materials) Composting (9/17/2015)
- 6.4.11 Co-Composting with Green and Food Materials and Manure: > or = 20,000 ton/year \*\*RESCINDED\*\* (11/21/2018)
- 6.4.14 Biosolids Storage (Not Intended for Composting) (6/16/2016)

## **6.5 Misc. Mineral Products**

- 6.5.1 Synthetic Stone Products Manufacturing (4/30/2020)
- 6.5.2 Soda Ash Loading into Cargo Ships (7/28/2021)

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## 7.0 Petroleum/Gas Industry

### 7.1 Petroleum Production

- 7.1.1 Thermally Enhanced Oil Recovery - Steam Enhanced Crude Oil Production Wells (12/30/2020)
- 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)
- 7.1.6 Petroleum Production - Sand Removal Basin for Heavy Crude Oil \*RESCINDED\* (4/21/2020)
- 7.1.7 Petroleum Production - Sludge Dewatering, Various Locations (6/15/2020)
- 7.1.8 Petroleum Production - Mobile Degassing Operation for Storage Tanks and Pipelines (2/4/2021)
- 7.1.9 Petroleum Production - Mobile Degassing Operation for Storage Tank with low H<sub>2</sub>S content, using a Thermal Oxidizer as a control device \*\*RESCINDED, refer to guideline 7.1.8\*\* (2/4/2021)
- 7.1.10 Organic Liquid Loading Rack (7/19/2018)
- 7.1.13 Petroleum Storage Tank and Pipeline De-Gassing - Mobile Operation \*\*RESCINDED, refer to guideline 7.1.8\*\* (2/4/2021)
- 7.1.14 Light Crude Oil Unloading Rack (9/21/2006)
- 7.1.15 Biodiesel/Glycerol Production Operation (9/15/2021)

### 7.2 Petroleum Refining

- 7.2.1 Petroleum/Gas Processing - Induced Draft Evaporative Cooling Tower, 18,000 gpm \*RESCINDED\* (4/21/2020)
- 7.2.2 Petroleum Refining - Valves & Connectors (7/22/2020)
- 7.2.3 Petroleum Refining - Pump and Compressor Seals (7/22/2020)
- 7.2.4 Petroleum Refineries and Chemical Plants - Swivel Joints Handling Volatile Organic Compounds, > 20,000 gallons/day Throughput \*RESCINDED, refer to guideline 7.1.10\* (5/11/2020)
- 7.2.5 Petroleum Refineries and Chemical Plants - Diesel Fuel Processing, Sulfur Recovery Plant (12/30/2020)
- 7.2.6 Petroleum Refineries and Chemical Plants - Diesel Fuel Processing, Sulfur Recovery Plant, = or > 20 tons Sulfur/day \*RESCINDED, refer to guideline 7.2.5\* (12/30/2020)
- 7.2.7 Natural Gas Processing Plant - Valves, Connectors, Flanges, Pressure Relief Device, Compressor Seals, and Pump Seals (8/24/2020)
- 7.2.8 Catalyst Regeneration - Fluid Catalytic Cracking Unit \*RESCINDED\* (4/21/2020)

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**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 Floating Roof Organic Liquid Storage or Processing Tank (9/1/2021)

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**8.0 Miscellaneous Sources**

**8.1 Wood and Paper Products**

- 8.1.1 Woodworking Equipment (7/19/2018)
- 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 (4/17/2020)
- 8.1.5 Glass Cullet Crusher (6/15/2020)

**8.2 Mineral and Metal Products**

- 8.2.1 Petroleum Coke Handling - Receiving, Storage, and Loadout (2/19/2020)
- 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 \*RESCINDED\* (4/21/2020)
- 8.2.6 Brass/Bronze Foundry > or = 300 lb/hr Brass/Bronze Process Rate \*RESCINDED\*  
(4/21/2020)

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## 8.3 Specialty Sources and Operations

- 8.3.1 Flat Glass Manufacturing - Adipic Acid Spraying System to Coat Flat Glass before Storage (4/30/2020)
- 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 Products Fabrication - Plasma Cutting (5/6/2020)
- 8.3.5 Satellite Thruster Testing Operation \*RESCINDED\* (4/21/2020)
- 8.3.6 Phosphate Fertilizer Manufacturing - Transportable, = or < 40 tons/hour \*RESCINDED\* (4/21/2020)
- 8.3.7 Plastic and Polymeric Material Processing - Grinding (9/4/2019)
- 8.3.8 Explosives Detonation Chamber (10/10/2019)
- 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 \*RESCINDED\* (4/21/2020)
- 8.3.13 Carpet Padding Manufacturing – Fabric Fiber Separating Operation (4/15/2002)
- 8.3.14 Tire Recycling Operation - Ground Tire Material Processing (8/28/2019)
- 8.3.15 Solder Paste Manufacturing \*RESCINDED\* (4/21/2020)
- 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) \*RESCINDED\* (4/21/2020)
- 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 (5/27/2020)
- 8.3.20 On-line Chemical Vapor Deposition Process\*\* (8/25/2008)
- 8.3.21 Abrasive Blasting Cabinet (4/23/2020)

## 8.4 Material Handling and Storage

- 8.4.1 Dry Material Storage and Handling Operations (Except Grains) (6/15/2020)
- 8.4.2 Wet Material Storage and Conveying Operation (5/14/2020)
- 8.4.3 Dry Material Handling Operation - Mixing, Blending, Milling, or Storage (5/26/2020)
- 8.4.4 Mulch and Soil Bagging Operation (Receiving, Outdoor Storage, and Bagging Line Hopper) (1/27/2004)