

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 or = 20.0 MMBtu/hr, Natural Gas or Propane Fired *RESCINDED* (10/26/2009)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 *RESCINDED* (10/26/2009)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 *RESCINDED* (10/26/2009)
- 1.1.4 Digester Gas Fired Boiler *RESCINDED* (10/26/2009)
- 1.1.5 Boiler-Dual Fuel for Facilities Requiring Liquid Backup Fuel *RESCINDED* (10/26/2009)
- 1.1.6 Boiler - Fired with a High-Ammonia Fuel *RESCINDED* (10/26/2009)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 9 Billion Btu/yr *RESCINDED* (10/26/2009)
- 1.1.8 Biomass-fired Boiler - Grate Systems *RESCINDED* (10/26/2009)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20.0 MMBtu/Hr Vertically Oriented w/Counterflow Heat Transfer *RESCINDED* (10/26/2009)
- 1.2.3 Oilfield Steam Generator/TEOR Gas Incinerator **RESCINDED - part of 5/04 update to guideline 1.2.1** (5/1/2004)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- 1.3.2 Fluidized Bubbling Bed Combustor (biomass-fired) *RESCINDED* (3/12/2012)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- 1.4.1 Waste Gas Flare - 15.3 MMBtu/hr, Serving a Tank Vapor Control System *RESCINDED* (11/7/2016)
- 1.4.2 Waste Gas Flare - Incinerating Produced Gas *RESCINDED* (11/7/2016)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- 1.4.4 Digester Gas-Fired Flare *RESCINDED* (11/7/2016)
- 1.4.5 Oilfield Waste Gas Incinerator *RESCINDED* (11/7/2016)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 10.9 MMBtu/hr, Limited Use * RESCINDED* (11/7/2016)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 50 MMscf/day *RESCINDED* (11/7/2016)
- 1.4.8 Refinery Flare *RESCINDED* (11/7/2016)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
RESCINDED (5/11/2022)
- 1.5.4 Metal Melting Crucible/Furnace *RESCINDED* (5/18/2020)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 *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 1.6.8 Nut and Seed Column Dryer (3/13/2015)
- 1.6.9 Dryer - Almond Processing, < 10 MMBtu/hr *RESCINDED* (5/11/2022)
- 1.6.10 Oven - Wheat Drying, < or = 10 MMBtu/hour *RESCINDED* (5/11/2022)
- 1.6.11 Direct-Fired Dairy Products Spray Dryer (5/9/2019)
- 1.6.12 Dryer - Whey, Filtermat, < 50 MMBtu/hr *RESCINDED* (5/11/2022)
- 1.6.13 Dehydrator - Vegetable, Continuous Process *RESCINDED* (11/17/2020)
- 1.6.14 Dehydrator Tunnel - Fruit, Natural Gas Fired *RESCINDED* (5/11/2022)
- 1.6.16 Dryer - Seed Processing, < 20 MMBtu/hr *RESCINDED* (5/11/2022)
- 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 (12/29/2021)
- 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)
- 1.6.30 Heat-Sterilizing Kiln for Wood, Gaseous Fuel Fired (3/24/2022)

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 *RESCINDED* (5/11/2022)
- 1.7.3 Oven - Parts Cleaning, Burnoff or Burnout *RESCINDED* (5/11/2022)

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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 *RESCINDED* (5/11/2022)
- 1.9.2 Sulfuric Acid Plant Start-up Heater - < 15 MMBtu/hr *RESCINDED* (4/20/2020)
- 1.9.3 Crematory (Funeral Service and Crematories, Animal Crematory) - Gaseous Fuel Fired (6/9/2022)
- 1.9.4 Dryer - Natural Gas Fired, Solvent-Laden Towels, = or < 950 lb towels/day *RESCINDED* (5/11/2022)
- 1.9.5 Gas Absorption Chiller - Natural Gas Fired, < 20 MMBtu/hr *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 2.1.2 Soil Remediation Operation - I.C. Engine *RESCINDED* (5/11/2022)
- 2.1.3 Soil Remediation Operation - Carbon Adsorption *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)

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 *RESCINDED* (5/11/2022)
- 2.2.3 Cheese Wastewater Digester (12/30/2021)

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 > 50 bhp Powering an Electrical Generator (4/29/2022)
- 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
RESCINDED (5/11/2022)
- 4.1.2 Petroleum Solvent Dry Cleaning (6/28/2022)

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
RESCINDED (5/11/2022)
- 4.2.3 Mobile Equipment Coating Operation - Multiple Location, <= 20,000 lb-VOC/year
- 4.2.4 Trailer Coating Operation *RESCINDED* (5/11/2022)
- 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 (12/29/2021)
- 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) *RESCINDED* (5/11/2022)
- 4.3.2 Metal Parts and Products Coating - Heat Dried *RESCINDED* (5/11/2022)
- 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 of Sheet Metal for Can Manufacturing at a Major Source for VOC (12/29/2021)
- 4.3.11 Metal Products Coating - Touch-up, 6.2 lb VOC/day *RESCINDED* (5/11/2022)
- 4.3.12 Metal Products Coating - High Gloss, Air-Dried, = or < 30 lb/day Facility-wide VOC coating emissions *RESCINDED* (5/11/2022)
- 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 - Wood Products Coating Operation - Non-Continuous Batch Coating *RESCINDED* (5/11/2022)
- 4.4.2 Wood Products Coating Operation - Continuously-fed Booth, = or < 5000 square feet material coated/day (6/30/2022)
- 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 *RESCINDED* (5/11/2022)

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4.5 Misc. Coating

- 4.5.1 Paper Roll-Coating - Heatset *RESCINDED* (5/11/2022)
- 4.5.2 Coating Operation - Large Concrete Structure Manufacturing, Outdoor Application *RESCINDED* (5/11/2022)
- 4.5.3 Coating Operation - Fiberglass Utility Poles, = or > 90 lb/day of VOC emissions *RESCINDED* (5/11/2022)
- 4.5.4 Plastic Parts and Products Coating *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 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)

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4.7 Printing & Graphic Arts

- 4.7.1 Offset Lithographic Printing - Publication Printing, High-end Graphics, Heatset using with a Drying Oven *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 4.7.6 Screen Printer with natural gas-fired dryer *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 4.7.9 Flexographic Printer - High-end graphics printing on Clay coated Paper, = or < 23 tons VOC/year *RESCINDED* (5/11/2022)
- 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 (12/28/2021)
- 4.8.3 Polyester Resin Products - Compression Molding of Plumbing Fixtures with fillers mixed in a closed system, = or < 2,900 gallons resin/day *RESCINDED* (5/11/2022)
- 4.8.4 Polyester Resin Products - Gel Coating of Plumbing Fixtures = or < 100 gallon resin/day *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 4.8.7 Fiberglass Products Manufacturing - Fiberglass Mat Dryer and Curing Oven *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 4.9.3 Adhesive Application Process - Foam Products *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 4.10.2 Cold cleaner/degreaser - Metal Products, Batch Loaded, = or < 1 gal/day solvent usage *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 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) (12/29/2021)
- 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 *RESCINDED* (5/11/2022)
- 5.1.2 Feed Mill - Truck Loadout (12/30/2021)
- 5.1.3 Grain & Feed Transfer Operation - Transportable Auger *RESCINDED* (5/11/2022)
- 5.1.4 Receiving and Storage and Operation - Corn, > or = 112 tons/day *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 5.2.2 Almond Processing - Sizing Operation (In-shell Almonds and Shelled Almond Meats) (6/14/2022)
- 5.2.3 Pistachio Nut Processing - Precleaning Operation, *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 5.2.7 Grain Cooler - Feed Mill, Steam Softened for Grain Rolling or *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 5.3.4 Vegetable/Cotton Seed Decortication Process, > or = 1400 tons/day *RESCINDED* (5/11/2022)
- 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 SO₂ Fumigation: = or > 21,760 cu. ft. Fumigation Rooms (6/18/2020)
- 5.4.2 Fruit Drying and SO₂ 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 *RESCINDED* (5/11/2022)
- 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 SO₂ 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-CH₃Br/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-CH₃Br/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 Poultry Broiler House (6/22/2022)
- 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* *RESCINDED* (5/11/2022)

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 Flat Glass Manufacturing - Adipic Acid Spraying System to Coat Flat Glass before Storage (4/30/2020)
- 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 Transportable Screening Operation - Green Waste, Wood Waste, and Compost Materials (3/24/2022)
- 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 *RESCINDED* (5/11/2022)
- 7.1.3 Petroleum Production - Small Producers, Cyclic Wells, < or = 4 Cyclic Wells *RESCINDED* (5/11/2022)
- 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 H₂S 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 Crude Oil Loading Rack, TVP ≥ 1.5 psia (12/28/2021)
- 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 *RESCINDED* (5/11/2022)
- 8.1.3 Paper Handling - Paper Grinding Operation, = or > 60 tons paper/day *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 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 *RESCINDED* (5/11/2022)
- 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 (3/24/2022)
- 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)
- 8.3.22 Scrap Metal Shredding (7/8/2022)

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)