FRITO-LAY, INC. - CASA GRANDE

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1. **Introduction**

This permit pertains to a snack food processing and packaging operation, owned and operated by Frito-Lay, Inc. a Delaware Corporation. The SIC Code is 2096. The facility is located at 1450 West Maricopa Casa Grande Highway, Casa Grande, Arizona, upon a parcel also identified by Pinal County Assessor's Parcel # 503-35-011-0. The source is situated in an area classified as nonattainment for PM$_{10}$ and attainment for all other pollutants.

The facility includes 6 processing lines for the different types of products that Frito-Lay manufactures: Sun Chips, corn chips, tortilla chips, potato chips, fried cheese puffs and baked cheese puffs. Besides the grain receiving and handling and grain milling, the different lines require steam for kettles, fryers and dryers.

A biomass boiler produces steam for the process lines and includes a fuel handling system consisting of the following process:

1. “Wood waste” is the primary source of fuel and is delivered via covered tractor trailer into a concrete bunker. The wood waste arrives on site pre-screened and pre-chipped so there will be no wood processing at the facility.
2. The wood fuel is transported by a drag chain through a sifter screen to remove any large debris.
3. The wood fuel is conveyed by an incline belt.
4. The biomass fuel is passed through a magnet conveyor near the end of the incline belt which is designed to remove any residual ferrous metals which could still be present on the fuel source and which could generate toxics.
5. The fuel drops into a hopper before it enters the boiler.

“Wood waste” can include wood waste from demolished buildings, wood pallets, green wood waste, tree clippings, limbs and cuttings, forest product waste nuts, nutshells and bark; sawdust and sanderdust, and pelletized grass and leaves. Wood waste must contain less than 1% total by weight of any or any combination of the following contaminants: plastics, rubber, glass, painted wood (possibly including paint containing lead), chemically treated wood (e.g., chromium, copper, arsenic, creosote, or pentachlorophenol), metals and salts.

Fly ash is generated by the biomass boiler. In order to minimize fugitive emissions from the handling of fly ash, Frito-Lay collects the ash in a containerized system. The ash container is then loaded in a truck via a lift system and properly discarded. Frito-Lay has installed a multi-clone/electrostatic precipitator (ESP) system to control particulate matter (PM10) stack emissions from the biomass boiler.

In addition to the biomass boiler and a backup natural gas boiler, the source also includes two (5.383 MM BTU/hr) natural-gas fired ovens. Besides Particulate Matter (PM10) emissions, typical products of combustion (Nitrogen Oxides, Carbon Monoxide, Volatile Organic Compounds and Sulfur Dioxide) are generated from this equipment. Additional PM10 emissions arise from equipment used for handling product ingredients and frying products.

The V20638.000 permit authorized the installation and use of a 78.3 MMBtu/hr biomass-fueled boiler to generate steam. The existing 79.2 MMBtu/hr natural gas boiler was kept to supplement or as backup for the biomass boiler. The V20638.000 permit also incorporated a seasoner (On-Machine Seasoning system) which had been installed on the Sun Chips line but had not been previously permitted. With the

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1 The different lines are explained more in-depth in previous Technical Support Documents (“TSD”) for this permit.
V20638.000 revision this source constituted a "major source" for nitrogen oxides and carbon monoxide within the meaning of CAA §302(j), the facility requires an operating permit under CAA §501 et seq.

Revision, V20638.R01, imposed a maximum heat input of 438,000 MMBtu based on all fuels, for any consecutive 12-month period in order to limit the biomass boiler capacity to an annual average of 50 MMBtu/hr and incorporated the requirements of 40 CFR Part 63 Subpart JJJJJJ NESHAP for Commercial, Industrial and Institutional Boilers. The biomass boiler is also subject to the requirements of 40 CFR Part 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.

Renewal V20665.000 incorporated the requirements of 40 CFR 63, Subpart ZZZZ for Stationary Reciprocating Internal Combustion Engines (RICE) and 40 CFR 60, Subpart III Standards of Performance for Stationary Compression Ignition Internal Combustion Engines as related to the emergency fire pump engine, limited the use of the emergency fire pump engine to 500 hours, modified existing visual opacity monitoring / testing schedules and reduced the HAP stack testing frequency from annually to biennial.

Revision V20665.R01 added the baked cheese puff line including a bulk bag room with a bulk bag potato flake unloader, one extruder and associated filters, one natural gas dryer (0.8 MMBtu/hr) and one seasoning loop.

Revision V20665.R02, authorizes the facility to replace the two existing ovens 5.3 mm btu/hr each on its Universal Tortilla Chip (UTC) Line with one new 6.14 mm btu/hr oven and replace two proofers with one proofer. Since the modification does not result in an emission increase, this revision is considered to be minor.

A complete list of equipment from which emissions are allowed by this permit is given in Section 8 of this permit. For additional information, see the "Technical Support Document" for this permit, which outlines the facility configuration, operation, emissions, permitting history and other information.

2. Listing of (Currently Federally Enforceable) Applicable Requirements

A. Those specific provisions of the Pinal-Gila Counties Air Quality Control District ("PGAQCD") Regulations, as adopted by the Pinal County Board of Supervisors on March 31, 1975, and approved by the Administrator as elements of the Arizona State Implementation Plan ("SIP") at 43 FR 50531, 50532 (11/15/78), and specifically the following rules:

7-3-1.1 Emission Standards - Particulates - Visible Emissions - General
7-3-1.2 Emission Standards - Particulate Emissions - Fugitive Dust
7-3-5.1 NOx Emissions - Fuel Burning Equipment

B. Those specific provisions of the Pinal-Gila Counties Air Quality Control District Regulations, as last amended by the Pinal County Board of Supervisors on June 16, 1980, and approved by the Administrator as elements of the Arizona SIP at 47 FR 15579 (4/12/82), specifically, the following rules:

7-3-1.1 Visible Emissions; General
7-3-1.7.F Fuel Burning Equipment

C. Those specific provisions of the Pinal County Air Quality Control District Regulations, as last amended by the Pinal County Board of Supervisors on October 27, 2004, and approved by the Administrator as elements of the Arizona SIP at 75 FR 17307, specifically, the following rules:
4-2-040   (Reasonable Precautions) Standards

C. 40 CFR 60 Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.


E. Stratospheric Ozone and Climate Protection, 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction [40 CFR §82.150-82.166].

F. New Source Performance Standards, General Provisions, 40 CFR Part 60, Subpart A [40 CFR §60.1-60.10, 60.12-60.17, 60.19]

G. CAA §112(r) (11/15/90); 40 CFR Part 68 (7/31/98); Chemical Accident Prevention Provisions

H. National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Commercial, Industrial and Institutional Boilers, 40 CFR Part 63, Subpart JJJJJJ [40 CFR § 63.11193- 63.11237 and Appendices]

I. NESHAPs, General Provisions, 40 CFR Part 63, Subpart A [40 CFR §63.1-63.15 provisions as listed in Table 8 of 40 CFR Part 63, Subpart JJJJJJ]

J. New Source Performance Standards (NSPS) for Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII [40 CFR 60.4200 – 4217 and Appendices]

K. NSPS General Provisions, 40 CFR 60, Subpart A [40 CFR 60.1-60.19 as listed in Table 8 of 40 CFR Part 60 Subpart IIII].

3. Compliance Certification

A. Compliance Plan [Mandated by 40 CFR §70.(5)(c)(8)] (Code §§3-1-081.C, 3-1-083.A.7)

Since the Permittee has certified that it is currently in compliance, the compliance plan consists of continued adherence to the requirements of this permit.

B. Compliance Schedule [Mandated by 40 CFR §§ 70.5(c)(8), 70.6(c)(3)] [40 CFR 63.6(i)(6)(B)] (Code §§3-1-060.B.1, 3-1-083.A.7.c)

Insofar as the Permittee is currently in compliance, no compliance schedule to attain compliance is required.

4. Authority to Construct Federally Enforceable Minor-NSR Permit-Based Limitations
[Federally enforceable provision, pursuant to Code §3-1-084 (8/11/94)] (Code §3-1-081.A)

A. Generally

This permit section sets forth "applicable requirements" founded upon the federally enforceable provisions of prior "permits to construct." Other than as defined in this section, emission units at this facility are "grandfathered," and are not subject to limitations arising only from limitations
defined in prior permits. Nonetheless, all emission units do fall subject to relevant Regulatory Emission Limitations, as defined elsewhere in this permit.

B. Process Line Related Minor NSR Limitations

[Federally enforceable provision, pursuant to Code §3-1-084 (8/11/94)] (Code §3-1-081.A)

1. Particulate Matter (PM10) Emissions
   a. Process Controls
      i. When the potato chip fryer is operating, the scrubber shall be operated
ten to remove particulate matter emissions to the maximum practical extent.
      ii. Primary and secondary seasoning to the fried potato chips shall be
          applied by means of self-contained mechanical seasoners.
      iii. When the corn cleaning system is operating, the baghouse shall be
          operated to remove particulate matter emissions to the maximum
          practical extent.
      iv. During the corn chip fryer operation, a high efficiency oil-mist
          eliminator shall be operated.
      v. Seasoning to the fried corn products shall be applied by means of a
          mechanical seasoner.
      vi. During the tortilla chip fryer operation, a high efficiency oil-mist
          eliminator shall be operated.
      vii. Seasoning to the fried tortilla products shall be applied by means of a
          mechanical seasoner.
      viii. When the wheat cleaning system is operating, the baghouse shall be
          operated to remove particulate matter emissions to the maximum
          practical extent.
      ix. During Sun Chips hammermill operation, Roto-Clone (AAF) shall be
          operated to draw steam and moisture off the hammermill to the outside
          of the building.
      x. During Sun Chips fryer operation, the high efficiency oil mist
          eliminator shall be operated to recover process oil from the exhaust
          stream.
      xi. Dust collected by the baghouse shall be discharged into closed
          containers or flexible skirting shall be used on the discharge to
          minimize emissions.
xii. When the Baked Cheese Puff (BCP) line is operating the BCP Cornmeal Receiver, Potato Flake Receiver and Extruder vents shall exhaust to the IQC filter baghouse.

b. Operational Limitations

Permittee shall only use dried and precleaned corn in the tortilla chip line and the corn chip line.

2. Emergency fire pump

a. Operation of the emergency fire pump shall be limited to not more than 100 500 hours in any 12-month period.

C. Biomass related Minor NSR and HAP Limitations

[Federally enforceable provision, pursuant to Code §3-1-084 (8/11/94)] (Code §3-1-081.A)

1. PM10 and PM2.5 Minor Source Status

a. Emission Caps; Particulate Matter (PM10 and PM2.5)

Permittee shall limit the facility-wide PM10 and PM2.5 emissions in any twelve-month period to 90 tons. Compliance with this limitation shall be demonstrated based on the rolling 12-month record described in §6.A.1.k of this permit.

b. Control Requirements

i. Permittee shall install, maintain and operate mechanical collectors (multiclone) in series with an electrostatic precipitator (ESP) to control particulate matter emissions from the biomass boiler exhaust.

ii. Permittee shall install, maintain, and operate a voltmeter to measure the secondary voltage across the electrostatic precipitator on a continuous basis and shall record the output of the system.

iii. Permittee shall operate the ESP at the manufacturer’s recommended voltage until the first approved performance test report. After such test, the ESP shall be operated at the voltage recorded during the performance test.

iv. Permittee shall install, maintain, and operate a manometer or another similar device to measure the pressure drop across the multiclone.

v. Permittee shall operate the multiclone at the manufacturer’s recommended pressure drop range until the first approved performance report. After such test, the multiclone shall be operated at the pressure drop range recorded during the performance test.

c. Operational Limitations
Any fly ash generated collected from the multiclone, ESP and boiler and transported via enclosed conveyors to be stored in a collection bin with a tarp until it is shipped off-site to minimize fugitive emissions.

2. HAPs Synthetic Minor Source Status

a. Emission Caps

Facility wide cap:

i. Permittee shall limit the facility-wide HAP emissions in any rolling twelve-month period to 9 tons of any single HAP or 22.5 tons of a combination of HAPs. Compliance with this limitation shall be demonstrated based on the rolling 12-month actual boiler usage record as described in §6.A.1.d of this permit and the rolling 12 month total HAP calculation described in §6.A.1.i of this permit.

Biomass boiler caps:

ii. Permittee shall not cause to be discharged into the atmosphere from the biomass boiler stack, including emissions generated during start-ups and shutdowns, total hazardous air pollutant emissions in excess of 0.095 lb/MMBtu, which is equivalent to 21 tons per year. Compliance with this limitation shall be demonstrated based on the rolling 12-month actual boiler usage record as described in §6.A.1.d of this permit and the rolling 12 month total HAP calculation described in §6.A.1.i of this permit.

iii. Permittee shall not cause to be discharged into the atmosphere from the biomass boiler stack, including emissions generated during start-ups and shutdowns, emissions of any single hazardous air pollutant in excess of 0.41lb/MMBtu, which is equivalent to 9 tons per year. Compliance with this limitation shall be demonstrated based on the rolling 12-month actual boiler usage record as described in §6.A.1.d of this permit and the rolling 12 month total HAP calculation described in §6.A.1.i of this permit.

b. Fuel Limitations

i. Permittee shall not exceed a maximum heat input of 438,000 MMBtu (High Heating Value-dry basis), based on all fuels, for any consecutive 12-month period at the biomass boiler. Compliance with this limitation shall be demonstrated by the methods described in §6.A.1.d of this permit.

c. Biomass Boiler Fuel Type

Permittee may burn fuels meeting the following standards:

i. Allowable Biomass Pre-Chipped Wood

(a) Wood from demolished buildings;
(b) Wood pallets;

(c) Green wood waste: tree clippings, limbs and cuttings, forest product waste, nuts, nutshells and bark;

(d) Sawdust and sander dust;

(e) Pelletized grass and leaves (yard waste);

(f) Landscape maintenance;

(g) As certified by the supplier, less than 1% total by weight of any or any combination of the following contaminants: plastics, rubber, glass, painted wood, chemically treated wood (e.g., chromium, copper, arsenic, creosote, or pentachlorophenol), metals and salts.

ii. Prohibited Biomass Fuels: Except as indicated in subsection ii.(g) above:

(a) Wood that has been treated with creosote, pentachlorophenol or arsenic.

(b) Wood that is tainted with paints, glues, adhesives, and binders.

(c) Particle board or plywood.

(d) Wood contaminated with asbestos.

d. Fuel Supplier Certifications

To limit emissions of HAPs, Permittee shall only accept biomass fuel from suppliers who have signed a certification in accordance with subsection iii below. Records of certification for each supplier must be kept on-site.

i. Permittee shall prepare and maintain Fuel Specifications pertaining to biomass fuel in accordance with the requirements of the “Biomass Boiler Fuel Type” section above and shall require the suppliers to certify in writing that the fuel shipments to Frito-Lay shall comply with such Fuel Specification.

ii. To ensure compliance with the acceptance plan, Permittee shall post signs in the receiving area of the facility notifying suppliers of the items not accepted, and giving notice of the requirement for a signed certification of compliance.

iii. Every certification required under this section shall include the following language:
“I certify that the materials delivered comply with the Fuel Specification for this facility. I understand that these assertions are material to the protection of public health and the preservation of air quality. The undersigned under oath or affirmation knowingly attests as to the truth of what is stated, and acknowledges that any false statement shall be subject to prosecution under A.R.S. §13-2703 and based on information and belief formed after reasonably inquiry, the statements and information in the document are true, accurate and complete.”

iv. Permittee shall conduct visual inspections of fuel shipments and identify any materials that are considered unacceptable by the Fuel Acceptance Plan.

e. Operational Limitations

i. The fuel handling system for the biomass boiler shall be equipped with a magnet cleaning conveyor designed to remove ferrous metals from the fuel sources before they enter the boiler.

5. Emission Standards, Limitations and Controls
[Code §3-1-081.A.2 (Nov. ’93)]

A. Applicable Limitations
(Code §3-1-082)

Where different standards or limitations apply under this permit, the most stringent combination shall prevail and be enforceable.

B. Allowable Emissions
[Federally enforceable provision, pursuant to Code § 3-1-040 (as amended 10/12/95) approved as a SIP Element at 65 FR79742 (12/20/2000)]

The owner/operator ("Permittee") is authorized to discharge or cause to discharge into the atmosphere those emissions of air contaminants as set forth in this permit. Unless exempted under Code §3-2-180, Permittee shall not use any material, process, or equipment not identified in this permit which will cause emissions of any regulated air pollutant in excess of the 5.5 pound-per-day de minimis amount, unless authorized by a permit revision under as allowed under this permit, or by a separate permit issued by the District or other competent authority.

C. Performance Standards for Biomass Boiler - NSPS Subpart Dc
[Federally Enforceable][40 CFR §§60.43c(c), 60.43c.(e).(1), 60.43c(d)](Code §6-1-030.5)

1. On and after the date on which the initial performance test is completed or required to be completed under 40 CFR §60.8 and this permit, whichever date comes first, the Permittee shall not discharge into the atmosphere any gases that contain PM in excess of 0.030 lb/MMBtu heat input as assessed by the test methods listed in §7.B of this permit on an hourly basis.

2. On and after the date on which the initial performance test is completed or required to be completed under 40 CFR §60.8 and this permit, whichever date comes first, the Permittee
shall not cause to be discharged into the atmosphere from the biomass boiler gases that exhibit greater than 20% opacity (6-minute average), except for one 6-minute period per hour of not more than 27% opacity.

3. The heat input and opacity standards apply at all times, except during periods of start-up, shutdown or malfunction.

D. National Emission Standards for Hazardous Air Pollutants for Biomass Boilers
40 CFR Part 63 Subpart JJJJJJ [Federally Enforceable 40 CFR §§63.11201, 63.11205, 63.11214, Tables 1, 2 and 3 of Subpart JJJJJJ]

1. These standards apply to the biomass boiler at all times, except during periods of start-up or shutdown,
   a. Permittee shall achieve less than or equal to 0.03 lb of particulate matter per MMBtu of heat input as assessed by the test methods listed in §7.B of this permit on an hourly basis.
   b. Permittee shall conduct a tune-up of the biomass boiler biennially as specified in 40 CFR §63.11223. Each tune-up must be conducted no more than 25 months after the previous tune-up.
   c. Permittee shall comply with the following operating limits as specified in Table 3 of Subpart JJJJJJ:
      i. Maintain opacity to less than or equal to 10 percent opacity (daily block average);
      or
      Maintain the secondary power input of the electrostatic precipitator at or above the lowest 1-hour average secondary electric power measured during the most recent performance test demonstrating compliance with the particulate matter emission limitations.
      ii. Maintain the operating load of each unit such that it does not exceed 110 percent of the average operating load recorded during the most recent performance stack test as assessed by the 30 day rolling average described in §6.B.6 of this permit.

2. These standards apply to the biomass boiler at all times.
   a. At all times Permittee shall operate and maintain the biomass boiler, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by Subpart JJJJJJ have been achieved.
   b. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator and the District
that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

c. Minimize the boiler’s start-up and shutdown periods following the manufacturer’s recommended procedures.

E. Particulate Emissions - Opacity Limits

1. SIP Limitation

The opacity of any plume or effluent shall not be greater than 40 percent as determined by Reference Method 9 in the Arizona Testing Manual (ADEQ, 1992). Nothing in this limitation shall be interpreted to prevent the discharge or emission of uncontaminated aqueous steam, or uncombined water vapor, to the open air.

2. Visibility Limiting Standard

The opacity of any plume or effluent from any point source not subject to a New Source Performance Standard adopted under Chapter 6 of the Code, and not subject to an opacity standard in Chapter 5 of the Code, shall not be greater than 20% as determined in Method 9 in 40 CFR Part 60, Appendix A. Affected facilities include the natural gas boiler, starch dryer, the two tortilla chip ovens and product lines.

3. Bulk Fuel and Fly Ash Handling

The opacity of any plume or effluent generated at any transfer point during handling of the fuel or fly ash shall not be greater than 10 percent as determined by EPA Reference Method 9 AND not greater than 20 percent as determined by EPA Reference Method 203C.

F. Emission Limitations - Particulate Matter

1. For process sources having a weight rate of 60,000 pounds per hour (30 tons per hour) or less, the maximum allowable emission shall not exceed:

   \[ E = 4.10P^{0.67} \]

   where \( E \) = maximum allowable particulate matter emissions rate in lb/hr, and \( P \) = process weight in tons/hour.

2. The total process weight from all similar units employing a similar type process shall be used in determining the maximum allowable emission of particulate matter.
G. Particulate Matter Reasonable Precautions
[Currently federally enforceable pursuant to PCAQCD Reg. 4-2-040 (4/27/04) approved as a SIP element at 75 FR 17307]

1. Permittee shall not cause, suffer, allow, or permit a building or its appurtenances, subdivision site, driveway, parking area, vacant lot or sales lot, or an urban or suburban open area to be constructed, used, altered, repaired, demolished, cleared, or leveled, or the earth to be moved or excavated, or fill dirt to be deposited, without taking reasonable precautions to effectively prevent fugitive dust from becoming airborne.

2. Permittee shall not cause, suffer, allow, or permit a vacant lot, or an urban or suburban open area, to be driven over or used by motor vehicles, such as but not limited to all-terrain vehicles, trucks, cars, cycles, bikes, or buggies, without taking reasonable precautions to effectively prevent fugitive dust from becoming airborne.

3. Permittee shall not disturb or remove soil or natural cover from any area without taking reasonable precautions to effectively prevent fugitive dust from becoming airborne.

4. Permittee shall not crush, screen, handle or convey materials or cause, suffer, allow or permit material to be stacked, piled or otherwise stored without taking reasonable precautions to effectively prevent fugitive dust from becoming airborne.

5. Stacking and reclaiming machinery utilized at storage piles shall be operated at all times with a minimum fall of material and in such a manner, or with the use of spray bars and wetting agents, as to prevent excessive amounts of particulate matter from becoming airborne. Other reasonable precautions shall be taken, as necessary, to effectively prevent fugitive dust from becoming airborne.

6. Permittee shall not cause, suffer, allow or permit transportation of materials likely to give rise to fugitive dust without taking reasonable precautions to prevent fugitive dust from becoming airborne. Earth and other material that is tracked out or transported by trucking and earth moving equipment on paved streets shall be removed by the party or person responsible for such deposits.

H. Surface Stabilization
[Federally enforceable pursuant to Code §4-1-030 (10/28/15) approved as a SIP element at 82 FR 20267 (5/1/17)]

1. Permittee shall not cause or allow visible fugitive dust emissions from open areas / vacant lots (areas not being utilized for an activity) to exceed 20% opacity based on EPA Method 9 or the continuous plume or intermittent plume methods listed in PCAQCD Code §4-9-340.

2. Permittee shall erect barriers or no trespassing signs upon evidence of trespass on open areas / vacant lots.

3. Permittee shall stabilize any open area / vacant lot greater than 1.0 acre that has 0.5 acre or more of disturbed surface and sign up for the Pinal County Dust Control forecast within 30 days of discovery. The open area / vacant lot shall be stabilized the day leading up to and the day that is forecast to be high risk for dust emissions.
4. Permittee shall not remove vegetation from open areas / vacant lots without applying dust suppressants before and during the weed abatement. Track out onto paved surfaces must be prevented or eliminated and dust suppressants must be applied following weed abatement to stabilize the entire surface.

5. Stabilization of open areas / vacant lots is determined by the drop ball, threshold friction velocity, flat vegetation or standing vegetation methods listed in PCAQCD Code 4-9-320.

6. Permittee shall not cause or allow visible fugitive dust emissions from unpaved lots (areas being utilized for an activity) greater than 5000 square feet to exceed 20% opacity based on EPA Method 9 or the continuous plume or intermittent plume methods listed in PCAQCD Code §4-9-340.

7. Permittee shall not allow silt loading equal to or greater than 0.33 oz/ft² or allow the silt content to exceed 8% on unpaved lots greater than 5000 square feet.

8. Permittee shall stabilize unpaved lots greater than 5000 square feet by paving, applying a dust suppressant or graveling.

9. Permittee shall clean up track out on a paved public roadway that exceeds 50 feet within 24 hours of discovery and limit opacity to 20% or less while using a rotary brush or broom.

10. Permittee shall make a record of the control measures applied.

I. Emissions Limitations - Sulfur Dioxide and Nitrogen Oxide
   (Code §5-24-1030)

   Permittee shall not cause the emission of pollutants at rates greater than the following:

   1. Sulfur Dioxide (SO₂) - 600 ppm
   2. Nitrogen Oxides expressed as NO₂ - 500 ppm

J. Other Fuel Use Limitations
   [Code §§3-1-081 & 5-23-1010.F.]

   1. Primary and Secondary Fuels

      Permittee is allowed to burn natural gas as the primary fuel and propane as a secondary fuel in the 79.2 MMBtu/hr boiler, starch dryer, baked cheese puff dryer, propane flare and the two tortilla chip ovens.

   2. Nitrogen Oxides (NOx) Emissions - Operational Limitation

      Permittee shall limit the aggregate operation of the equipment run on propane including the boiler (79.2 MM Btu/Hr), starch dryer (0.41 MM Btu/Hr), baked cheese puff dryer (0.80 MMBtu/hr), propane flare (1.5 MM Btu/Hr) and the two tortilla chip ovens (5.383 MM Btu/Hr each) in any 12 month rolling average period to 2,160 hours each.

   3. Fuel Use Limitations
i. Primary Fuel for NSPS Subpart IIII generators, model year 2007 and newer
   \[\text{Federally enforceable; 40 CFR §60.4207.b, 40 CFR 80.510.b}\]

Owners and operators of CI ICE with a displacement of less than 30 liters per cylinder that use diesel fuel must only use diesel fuel meeting the requirements of 40 CFR 80.510.b which requires that diesel fuel shall:

Have a maximum sulfur content of 15 parts per million (ppm) and;

Either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

i. Emergency Engine Fuel
   (Code §5-23-1015, 5-23-1020)

Permittee shall only use diesel having a sulfur content less than 0.8\% by weight.

ii. Other Fuels
   (Code §§3-1-081.G)

The Permittee shall not burn used oil, used oil fuel, hazardous waste, and hazardous waste fuel (as defined in federal, state, or county codes and rules) in the steam generating unit(s) without first obtaining a separate permit or an appropriate permit revision.

K. NSPS (Subpart IIII) Standards - Stationary Compression Ignition (CI) Internal Combustion Engines (ICE)
   \[\text{Federally enforceable; 40 CFR 60.4205.c, 60.4206, 60.4211.a, 60.4211.c}\]

1. NSPS 40 CFR 60 Subpart IIII requires owners and operators of 2008 model year fire pump engines with a maximum engine power between 175 and 300 HP to purchase an engine certified to the emissions standards below, and install, configure, operate and maintain the engine to manufacturer’s specifications over the entire life of the engine.

<table>
<thead>
<tr>
<th>NMHC + NOx ( g/KW-hr ) (g/HP-hr)</th>
<th>CO ( g/KW-hr ) (g/HP-hr)</th>
<th>PM ( g/KW-hr ) (g/HP-hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.5 (7.8)</td>
<td>3.5 (2.6)</td>
<td>0.54 (0.40)</td>
</tr>
</tbody>
</table>

L. Hours of Operation for Emergency Engines

1. Owners and operators of stationary Internal Combustion Engines (ICE) must limit annual calendar year hours of operation as follows to be considered an emergency stationary ICE.
   \[\text{Federally enforceable; 40 CFR 60.4209.a, 60.4211.f}\]

   a. Install a non-resettable hour meter

   b. There is no limit on the use of the emergency engine in emergency situations under the NSPS or NESHAP.
b. Permittee may operate the emergency engine for the purpose of maintenance checks and readiness testing, provided the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or the insurance company associated with the engine. Permittee shall not operate the engine for the purposes of maintenance checks and readiness testing for more than 100 hours per year unless the Permittee maintains records identifying the Federal, State or local standards that require maintenance and testing of emergency internal combustion engines beyond 100 hours per year. Copies of such records shall be provided to the District upon request.

c. Non-emergency operation is limited to 50 hours per calendar year. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance, readiness checks, and demand response operation.

d. The 50 hours per calendar year for non-emergency operation cannot be used to supply power to another entity without a separate permit issued by the District.

2. Voluntarily Accepted Federally Enforceable Emissions Limitations
   [Code §3-1-084, approved as a SIP element at 61 FR 15717 (4/9/96)]
   a. Operation of the emergency fire pump shall be limited to not more than 100 hours as required under Section §5.L.1.b of this permit in any 12-month period.

M. Additional Applicable Limitations

1. Asbestos NESHAP Compliance [Currently federally enforceable; 40 CFR Part 61, Subpart M] (Code §§7-1-030, 7-1-060)

   Permittee shall comply with Code §§7-1-030, 7-1-060 and 40 CFR Part 61, Subpart M, when conducting any renovation or demolition activities at the facility.

2. Stratospheric Ozone and Climate Protection [Currently federally enforceable; 40 CFR Part 82 Subpart F] (Code §§1-3-140.15, 1-3-140.58.k)

   The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction.

N. Additional Plant-Wide Requirements

1. Sandblasting - Plant Wide
   (Code §5-4-160.)

   Permittee shall use at least one of the following control measures during sandblasting operations:

   a. Vacuum collection system.

   b. Confined blasting.

   c. Wet abrasive blasting.
2. Architectural Coatings  
(Code §5-12-370)  
Permittee shall not employ, apply, evaporate or dry any architectural coating, as defined in §5-12-370.C, for industrial or commercial purposes, material containing photochemically reactive solvent as defined in §5-9-280 or shall thin or dilute any architectural coating with a photochemically reactive solvent.

3. Other Spray Painting  
(Code §5-13-390)  
Permittee shall conduct spray painting operations except architectural coatings in an enclosed area designed to contain not less than 96% by weight of the overspray. An enclosed area means a 3-sided structure with walls a minimum of 8 feet high.

4. Disposal  
(Codes §5-12-370 and 5-13-390)  
Permittee shall not, during any one day, dispose of a total of more than one and one-half gallons of any photochemically reactive solvent or of any material containing more than one and one-half gallons of any such photochemically reactive solvent by any means which will permit the evaporation of such solvent into the atmosphere.

5. Cutback and Emulsified Asphalt  
(Code §5-16-670)  
Except as exempted in §5-16-680, Permittee:

a. Shall not use or apply the following materials for paving, construction or maintenance:

   i. Rapid cure cutback asphalt;

   ii. Any cutback asphalt material, road oils or tar which contains more than 1.5% by volume VOCs which evaporate at 500F or less using ASTM Test Method D-402-76 or more than 27% by volume total solvent in the asphalt binder.

   iii. Any emulsified asphalt or emulsified tar containing more than 3% by volume VOCs which evaporate at 500F or less using ASTM Test Method D-244-89.

b. Shall not store within Pinal County any emulsified or cutback asphalt product which contains more than 1.5% by volume solvent-VOC unless such material lot included a designation of solvent-VOC content on data sheet(s) expressed in percent solvent-VOC by volume.
6. Solvent Cleaning
   (§5-15-620)

   a. Solvent cleaners/degreasers shall:
      i. Provide a leak-free container for solvents and articles being cleaned;
      ii. Except for a remote reservoir cleaner using unheated solvent, be equipped with a cover which prevents the solvent from evaporating when not processing work;
      iii. Be equipped with a drain configured to return solvent drained from cleaned parts to the container;
      iv. Be clearly labeled to identify the solvent and explain the proper operation of the cleaner;
      v. A degreaser/cleaner with a remote reservoir shall be equipped with a sink-like work area sloped sufficiently toward a drain so as to prevent pooling of the solvent, a drain from the sink to the reservoir, with a maximum drain area of 15.5 in\(^2\), and unless a low-volatility solvent with a boiling point above 248\(^\circ\) F is utilized and the solvent is never heated above 120\(^\circ\) F., a stopper shall be used to seal the drain opening or a cover placed over the sink when the device is not in use.
      vi. For a degreaser/cleaner without a remote reservoir, if the degreaser utilizes a low-volatility solvent with a boiling point above 248\(^\circ\) F., and the solvent is not agitated in use, Permittee shall maintain a minimum 6” freeboard and keep the cover closed when the apparatus is not in use; or if using solvents which are not low volatility or which are agitated or are heated above 120\(^\circ\) F shall have internal drainage and a freeboard ratio of 0.75 or greater; or a cover may be used to meet the freeboard requirement if the solvent is insoluble in and denser than water; and a cover shall be used that is of a sliding or rolling type which is designed to easily open and close without disturbing the vapor zone. The degreaser/cleaner shall be equipped with a clear and conspicuous mark for the maximum allowable solvent level; and as an alternative to the foregoing freeboard requirement, be equipped with a hood or enclosure with a ventilation rate of no less than 65 cfm per ft.\(^2\) of evaporative surface, unless a more stringent requirement applies pursuant to OSHA requirements, and the overall control efficiency of emissions from the cleaner, considering both capture and destruction, shall not be less than 85%.

   b. Permittee shall operate the cold solvent cleaners/degreasers in accordance with the operating requirements listed in Code §5-15-620.H. Each cold solvent/degreaser shall have a permanent, conspicuous label which summarizes the relevant operating requirements.

O. Emergency Risk Management and Emergency Response Plan Requirements

1. Chemical Accident Prevention Requirements [Currently federally enforceable; 40 CFR Part 68]
At all times when the facility is subject to 40 CFR Part 68, the permittee shall comply with the planning requirements set forth in 40 CFR Part 68 with regard to the ammonia-handling and ammonia-storage at the facility, as well as any other process or facility affected under 40 CFR Part 68, including:

a. Submittal of a compliance schedule as required under 40 CFR Part 68, by the date required under 40 CFR §68.10(a); or

b. As part of the compliance certification submitted under 40 CFR §70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a release management plan.

P. General Maintenance Obligation
(Code §§3-1-081.E., 8-1-030.A.3)

At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate the permitted facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

6. Compliance Monitoring and Recordkeeping
[Code §3-1-083 (Nov. ’93)]

A. Regular Emissions Monitoring

1. Non-instrumental Emissions Monitoring for Criteria and HAP Pollutants

a. Permittee shall maintain monthly records of the amount of natural gas purchased (in therms);

b. Permittee shall maintain monthly records of the hours of operation during which propane was used as fuel.

c. Permittee shall calculate and record a monthly average MMBtu throughput based on the recorded weekly amount of wood and wood waste combusted in the biomass boiler, the recorded daily hours of operation for the biomass boiler and the most recent BTU values determined by §7.D of this permit or certified by a supplier.

d. At the end of each month, Permittee shall calculate and record a twelve month rolling total of the total heat input of the biomass boiler in MMBtu for the previous twelve months. The twelve month total shall be based on the weekly amount of wood combusted, the daily hours of operation and the most recent BTU values as described in the previous subsection. The maximum 12-month rolling total calculated for the reporting period shall be submitted to the District during the semi-annual report required by §8.A of the permit.

e. Permittee shall maintain Supplier Certifications, including Heating Values, or site generated sample results that include heating values for each different Fuel Specification burned in the biomass boiler.
f. Permittee shall keep records of maintenance of the biomass boiler. Such records shall indicate if the maintenance or operation of the boiler was not conducted in accordance with manufacturer and a reason.

g. On a daily basis during operations, Permittee shall conduct a visual observation of the pressure drop across the multiclone and shall make a record of it.

h. Permittee shall keep records of all fuel deliveries.

i. At the end of each month, Permittee shall calculate and record a rolling 12-month total of HAP emissions, for both individual and combined HAPs using the emission factors from the most recent performance test and the most recent 12 month rolling total of fuel combusted. The calculation shall be separately performed on a facility wide basis and for the biomass boiler.

j. Permittee shall maintain monthly records of the weight of material produced from all six lines which include potato chips line, tortilla chips line, fried cheese puff line, baked cheese puff line, corn chips line and the sun chips line.

k. At the end of each month, Permittee shall calculate and record a rolling 12-month of particulate emissions (PM10 and PM2.5) from the facility.

B. NSPS and NESHAP Monitoring and Recordkeeping

[Federally Enforceable][40 CFR §§60.47c(a), 60.47c(b), 60.48c(b), 60.48c(f), 63.11205, 63.11222, 63.11224, 63.11225](Code §6-1-030.5)

1. Permittee shall install, calibrate, maintain, and operate a continuous opacity monitoring system (COMS) for measuring the opacity of the emissions discharged from the biomass boiler stack to the atmosphere and record the output of the system.

2. All COMS shall be operated in accordance with the applicable procedures under Performance Specification 1 of Appendix B of 40 CFR 60. The span value of the opacity COMS shall be between 60 and 80 percent.


4. If the permittee elects to maintain the biomass boiler 10% opacity limit (instead of the secondary electric power average) the permitee shall implement the monitoring and record keeping as defined in 40 CFR §§63.11205, 11221 and 11224, and Table 7 of Subpart JJJJJJJ.

a. The requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B of 40 CFR 60 and that meet the requirements of 40 CFR §63.11224.

b. The opacity monitoring system must collect data in accordance with 40 CFR §§63.11224(e) and 63.11221 and the opacity monitoring data must be reduced to 6-minute averages for comparison to the 10 percent (daily block average) limitation.
5. If the permittee elects to maintain the biomass boiler electrostatic precipitator secondary electric power average (instead of the 10% opacity limit) the permittee shall implement the monitoring and record keeping as defined in 40 CFR §§63.11205, 11221 and 11224, Table 6 of Subpart JJJJJJ and Table 7 of Subpart JJJJJJ.
   a. Sources that demonstrate compliance through stack testing and subsequent compliance with operating limits must develop a site-specific monitoring plan according to the requirements in 40 CFR §§63.11205 and 63.11224.
   b. Permittee must establish a site specific minimum total secondary electric power operating limit by collecting secondary power data every 15 minutes during the entire period of the performance stack tests and determining the average total secondary electric power for each individual test run in the three run performance stack test by computing the average of all the 15-minute readings taken during each stack test.
   c. Permittee must collect the total secondary electric power monitoring system data according 40 CFR §§63.11221 and 63.11224, reduce the data to 30-day rolling averages and maintain the 30 day rolling average total secondary electric power at or above the minimum total secondary electric power as determined during performance stack testing.

6. Permittee must collect the biomass boiler operating load data (fuel feed rate or steam generation data) every 15 minutes and reduce the data to 30-day rolling averages and maintain the 30-day rolling average such that it does not exceed 110 percent of the average operating load recorded during the most recent performance test.

7. Permittee shall record and maintain records of the type and amount of all fuels combusted in the biomass boiler during each operating day.

8. Permittee must keep a copy of each notification and report submitted to comply with 40 CFR Part 63 Subpart JJJJJJ and all documentation supporting any Initial Notification or Notification of Compliance status submitted.

9. Permittee must keep records of the date of each biomass boiler tune-up required by §5.D of this permit and 40 CFR 63.11223, the procedures followed for the tune-up and the manufacturer’s specifications to which the boiler was tuned.

10. Permittee must keep records of the occurrence and duration of each malfunction of the biomass boiler or of the associated air pollution control and monitoring equipment. The records must include actions taken to minimize emissions and corrective actions taken to restore normal operation.

11. Permittee must keep records of all inspection and monitoring data required by 40 CFR §§63.11221 and 11222. The records must include:
   a. the date, place and time of the monitoring event,
   b. the person conducting the monitoring,
   c. the technique or method used,
   d. operating conditions during the activity,
e. the results including the date, time and duration of the period from the time monitoring indicated a problem to the time that monitoring indicated proper operation, and
f. any maintenance or corrective actions taken.

12. Emergency engine records
[Federally enforceable; 40 CFR 60.4214.b]

Permittee shall:

a. Record the number of hours the engine operated for non-emergency and emergency situations and document what classified the operation as emergency.

b. Keep records of maintenance conducted consistent with the manufacturer’s instructions.

C. Non-NSPS Opacity Monitoring and Recordkeeping
[Code §3-3-260.]

1. General Opacity Monitoring

a. On a monthly basis, Permittee shall conduct a visual opacity screen on all stacks, process emission points, conveyor transfer points and fugitive sources including storage piles, bulk material handling and ash handling during operations. The individual conducting the opacity screen need not be a certified opacity observer, and the screening need not conform to any EPA reference method. An opacity screen shall be a qualitative assessment lasting no less than three minutes to determine whether or not visible emissions are present.

i. If during a consecutive 12 month period opacity screens have not identified any visible emissions, visual opacity screens may be conducted once per quarter. If any visible emissions are observed during a quarterly screen, monthly screening must resume for each emission unit with observed opacity until no visible emissions are again documented for a consecutive 12 month period.

b. Permittee shall keep a record, signed by the observer, showing the date, time and results of the screening.

c. If a monthly or quarterly screening identifies any emissions that may exceed the applicable opacity standard, a certified observer shall conduct a Method 9 and Method 203C, as applicable, observation of the emission point(s) of concern and shall provide a copy of the results to the District within 10 days of first observing the visible emissions.

d. Permittee shall conduct full opacity tests every day after the initial one until emissions from that point or exhaust are brought down below the appropriate standard. Results of these reoccurring tests shall also be submitted to the District.
e. If any of the Method 9 or Method 203C results indicate that an exceedance of the opacity standard has occurred, it shall be reported in accordance with §8.F of this permit.

D. Recordkeeping
(Code §3-1-083)

Permittee shall maintain records of:

1. All information required pursuant to any provision of this permit, recorded in a permanent form suitable for inspection.

2. The occurrence and duration of any start-up, shutdown or malfunction in the operation of the permitted facility or any air pollution control equipment. For purposes of this provision, a "shut-down" means a cessation of operations at the entire facility for more than seven days, and a "start-up" constitutes the reactivation of the facility after a "shut-down."

E. NESHAP Biomass Boiler Compliance Demonstration
[Federally Enforceable][40 CFR §§ 63.11210, 63.11211, 63.11212, 63.11214, 63.1123]

1. Permittee’s initial compliance requirements, with respect to 40 CFR Part 63, Subpart JJJJJJ include the following and must be completed within 180 days of start-up:

a. Conduct a performance test according to 40CFR§63.11212 and Table 4 of Subpart JJJJJJ, and as described in Section 7 of this permit;

b. Establish operating limits according to 40CFR§63.11222 and Table 6 of Subpart JJJJJJ.

If the permittee elects to maintain the secondary electric power average (instead of the 10% opacity limit) as specified in 40 CFR §§63.11201 and Table 3 of Subpart JJJJJJ permittee shall establish the minimum total secondary electric power (secondary voltage and secondary current), as defined in 40CFR§63.11237, as operating limits during the three-run performance test

c. Conduct a performance tune-up according to 40CFR§63.11223.

2. Permittee’s continuing compliance requirements:

a. Biennially conduct a performance tune-up according to 40CFR§63.11223. Each tune-up must be conducted no more than 25 months after the previous tune-up.

b. The tune-up must be conducted while burning the type of fuel that provided the majority of the heat input to the biomass boiler over the 12 months prior to the tune-up.

7. Testing
[Federally enforceable provision, pursuant to Code §3-1-084 (8/11/94)][40 CFR § 63.11225] (Code §§3-1-160 & 3-1-170)
A. Generally Applicable Test Program Requirements

Unless specified elsewhere in this permit, all required tests shall conform to the following requirements:

1. Test Requirement

Tests shall be required as defined elsewhere in the permit. Tests shall be performed at the maximum practical production rate.

2. Test Protocol

Required tests shall use standard EPA test methods. At least sixty (60) days before the test, Permittee shall submit a test protocol to PCAQCD for review and approval.

3. Test Reports

a. A test report shall be submitted to the district for approval within forty-five (45) days after the test.

b. Within 60 days after completing the performance test required by 40 CFR 63 Subpart JJJJJJ permittee shall submit the performance test results to the EPA’s WebFIRE database by using Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA’s Central Data Exchange (CDX)

B. Biomass Boiler NSPS and NESHAP Testing

[Federally Enforceable][40 CFR §§60.45c(a), 60.8, 60.48c.(b), 63.7(a)(2)(ix), 63.11210, 63.11212, 63.11220](Code §6-1-030.5)

1. PM10 Testing

Permittee shall conduct a performance test on the boiler stack for particulate matter, in accordance with 40CFR §60.8 and using the following methods described in Appendix A of Part 60:

a. Method 1 to select the sampling sites and traverse points;

b. Method 2, 2F or 2G to determine velocity and volumetric flow-rate of the stack gas;

c. Method 3A or 3B for gas analysis when applying Method 5, 5 B or 17;

d. Method 4 to measure the moisture content of the stack gas;

e. Method 5 or 17 to measure the PM concentration;

f. The sampling time for each run shall be at least 120 minutes and the minimum sampling volume shall be 1.7 dscm.

g. For Method 5 of Appendix A, the temperature of the sample gas in the probe and filter holder shall be monitored and maintained at 160± 14̊C (320±25̊F).

h. For determination of PM emissions, an oxygen (O2) or carbon dioxide (CO2) measurement shall be obtained simultaneously with each run of Method 5 or 17 by traversing the duct at the sample location.

i. Method 19 F-Factor methodology to convert emissions concentration to lb/MBtu emission rates.
j. Method 9 shall be used for determining the opacity of the stack emissions.

k. A minimum of three test runs are required for each performance test.

l. PM10 and PM2.5 control efficiency of the multiclone/ESP system using the Methods used for the NSPS testing.

2. Test Protocol

Test protocols for all the tests shall be submitted to the District at least sixty (60) days prior to the test.

3. Performance Test Notice

Notice of the performance test required by this permit shall be submitted to the District at least fourteen (14) days prior to conducting the performance test.

4. Test Report

A copy of the test report shall be submitted to the District for approval within forty-five (45) days after the test; the test report shall quantify particulate in terms of grains/ACF, and shall clearly state whether or not the observed concentration complies with the relevant limitations under this permit.

5. Recurring Tests

Permittee shall conduct the performance on a triennial basis. Triennial performance tests must be completed no more than 37 months after the previous performance test.

6. Operating Load Conditions

[40 CFR §63.11212]

a. Permittee shall conduct all performance tests according to 40 CFR §63.7(c), (d), (f) and (h).

b. Permittee shall conduct the tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and shall demonstrate initial compliance and establish operating limits based on these performance tests. Following each performance test and until the next one, Permittee must maintain the operating load such that it does not exceed 110% of the average operating load of the most recent performance test as assessed by the 30 day rolling average described in §6.B.6 of this permit.

C. Biomass Boiler Non-NSPS Testing

[Federally enforceable provision, pursuant to Code §3-1-084 (8/11/94)] (Code §§3-1-160 & 3-1-170)

1. Permittee shall conduct a stack test on the biomass boiler exhaust to determine the following:

a. CO and NOx emission rates (expressed on lb/hr and lb/MMBtu) using EPA Reference Methods 10 and 20, respectively;
b. All metal HAPs detected using Reference Method 29;
c. Inorganic HAPs including hydrogen chloride and chlorine using Reference Method 26 or 26A;
d. Organic HAPs including acetaldehyde, acrolein, benzene, formaldehyde and toluene using Reference Method 18, 25 or 25A;
e. All other HAPs that will be detected by the EPA Reference Methods used in the three previous subsections.

2. The tests shall be performed at the maximum production rate and utilizing the wood waste/fuel combination determined to have the highest HHV.

3. During the rotoclone/ESP system test, Permittee shall record the pressure drop and secondary voltage that the multiclone/ESP will be operated at. The pressure drop and voltage shall be submitted with the test report.

4. The test protocol required to be submitted shall indicate the fuel specifications which will be utilized for the tests and demonstrate how each fuel mix being used at the facility will be tested. The protocol for the HAPs testing shall list the Reference Methods to be used for the Control Officer’s approval.

5. The test report shall identify whether the HAP test results show compliance with the HAP limitations §4 of the permit.

6. Subsequent testing
   a. Tests for CO, NOx and particulate matter control efficiency tests shall be repeated within 5 years of the previous one.
   b. All HAP testing as required in subsections 1.c through f. above shall be repeated on and biennial basis unless the wood waste/fuel feedstock has changed following the most recent test, in which case the testing shall be repeated on an annual basis.

D. Feedstock Testing

1. Permittee shall maintain a feedstock sampling program to determine whether the emissions estimates and heating values used for purposes of the permit application, specifically for lead, arsenic, chlorine, and sulfur are appropriate, and to ensure that no additional monitoring is required.

2. Permittee shall submit a protocol for approval to PCACQD indicating the EPA-approved methods or ASTM methods to be used to determine lead and arsenic present in the boiler bottom ash.
   a. Permittee shall collect monthly samples of the feedstock and test them in accordance with the following schedule:
      i. Conduct quarterly testing of the aggregate of 3 monthly samples for 12 consecutive months. If at the end of 12 months, any of the testing results
fall above 20% of the lead monitoring threshold. Permittee shall continue the monthly collection/quarterly testing for another 12 months.

ii. If during a 12 months period, all the testing results fall below 20% of the lead monitoring threshold, Permittee shall continue the monthly sampling, but testing need only be conducted on an annual basis, using the aggregate samples from the past 12 months.

iii. If any 12 month aggregated sample produces testing results above 20% of the lead monitoring threshold a monthly collection/quarter testing schedule shall be implemented for another 12 months.

b. For each quarterly or annual test, Permittee shall prepare and submit a report to PCAQCD, within 45 days of the lab report being finalized. This report shall show the lead and arsenic content in the feedstock, as well as provide an estimate of emissions (tons per year) that the lead and arsenic content could potentially generate under the limitations of this permit.

3. Permittee shall submit a protocol for approval to PCACQD within 60 days of permit issuance for "stopped belt, full-cut" sampling from the conveyor feeding the biomass boiler in order to provide a statistically valid quantification of fuel-borne sulfur and chlorine.

a. Permittee shall invoke that sampling protocol to conduct monthly compliance sampling and to calculate an expected average mass fraction concentration of sulfur and chlorine.

b. Permittee shall collect monthly samples of the feedstock and test them in accordance with the following schedule:

i. Conduct quarterly testing of the aggregate of 3 monthly samples for 12 consecutive months. If at the end of 12 months, any of the chlorine testing results provide emission estimates that are greater than or equal to 20% of the limits listed in §4.C.2 of this permit, permittee shall continue the monthly collection/quarterly testing for another 12 months.

ii. If during a 12 month period, all the chlorine testing results provide emission estimates that are less than 20% of the limits listed in §4.C.2 of this permit, Permittee shall continue the monthly sampling, but testing need only be conducted on an annual basis, using the aggregate samples from the past 12 months.

iii. If any 12 month aggregated sample produces testing results above 20% of the limits listed in §4.C.2 of this permit a monthly collection/quarter testing schedule shall be implemented for another 12 months.

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2 The current lead monitoring threshold is 0.5 tpy, and therefore 20% is 0.1 tpy.

3 See discussion of biomass sampling at www.advancedbiomass.com/2010/04/see-new-post-on-biomass-sampling/
c. Permittee shall process a portion of that quarterly/annual compliance sample to determine and record average chlorine content using ASTM E776 or equivalent.

d. Permittee shall process a portion of that quarterly/annual compliance sample to determine and record average sulfur content using ASTM D4239 or equivalent.

e. For each quarterly or annual test, Permittee shall prepare and submit a report to PCAQCD, within 45 days of the lab report being finalized. This report shall show the sulfur and chlorine content in the feedstock, as well as provide an estimate of emissions (tons per year) that the sulfur and chlorine content could potentially generate under the limitations of this permit.

4. If the heating values have not been certified by the supplier for each fuel type the permittee shall process a portion of the quarterly/annual compliance sample to determine and record average heat content using ASTM E870-82 or equivalent.

E. General Opacity Testing

1. Opacity shall be determined using Reference Methods 9 and 203C, as applicable, in 40 CFR Part 60, Appendix A.

2. In addition to the opacity monitoring described in a previous section of this permit, Permittee shall, every 12 months, conduct a full opacity test performed by a certified opacity observer on the following emission points:
   a. Biomass Fuel Handling System: Each transfer point;
   b. Flyash handling system, except as described in §7.E.2.c of this permit
   c. General Facility: all vents, exhausts and stacks except as follows. If all of the most recent twelve months, or four quarters, of visual screenings required by §6.C of this permit demonstrate no visual emissions (excluding steam) at the following emission points a full Method 9 opacity test will not be required for each emission point meeting this requirement. Should any of the preceding twelve months, or four quarters, of screenings show any opacity (steam excluded) the annual Method 9 opacity test will be required.

   1. (4A/4B) Corn Transfer System
   2. (5A/5B) Corn Cleaner System
   3. (15B) Fritos Ambient Air Cooler
   4. (17B) Tortilla Chip Fryer
   5. (18) Tortilla Chip Ambient Cooler
   6. (19) Corn Meal Transfer System
   7. (20) 4-Fried Cheese Puff (FCP) Extruders
   8. (22) FCP Ambient Air Cooler
   9. (23) FCP Slurry Skid Fume Scrubber
   10. Sun Chips Whole Wheat and Corn Handling Systems
   11. Sun Chips Hammermill
   12. Sun Chips Cooking Kettles
   13. Sun Chips on machine seasoner (vent to a dust collector and exhausts inside)
   14. (F1) Propane Flare
15. (SD) Starch Dryer
16. (PB) Production Boiler
17. (16B) Tortilla Chip Oven stack
18. Fully enclosed conveyances within the flyash handling system
19. BCP Cornmeal Receiver /DC
20. BCP Potato Flake Receiver
21. BCP Extruder
22. BCP Dryer
23. BCP Seasoning Loop

3. To determine compliance, both Methods 9 and 203C shall be conducted on subsections a. and b. above.

4. Method 9 opacity tests shall consist of at least 1 hour of data, averaged in blocks of consecutive 6-minute periods. The average opacity for each 6-minute period shall be recorded at the end of each period.

F. Stack Testing

1. Initial Performance Testing

Unless the control efficiency of the scrubber for the potato chip fryer is not met, permittee shall conduct a one time performance test to determine the PM10 emissions from the following stack within 180 days of issuance of this permit. The performance test shall be conducted at a maximum production rate, using the test methods specified in Appendix A to 40 CFR Part 60.

a. Potato chip fryer (Stack ID 001)

2. Test Protocol

Test protocols for all the tests shall be submitted to the District at least sixty (60) days prior to the test.

3. Performance Test Notice

Notice of the performance test required by this permit shall be submitted to the District at least fourteen (14) days prior to conducting the performance test.

4. Test Report

A copy of the test report shall be submitted to the District for approval within forty-five (45) days after the test; the test report shall quantify particulate in terms of grains/ACF, and shall clearly state whether or not the observed concentration complies with the relevant limitations under this permit.

8. Reporting and Notifications

A. Compliance Reporting

(Code §3-1-083.A)
In order to demonstrate compliance with the provisions of this permit, the Permittee shall submit a semi-annual report containing a summary of the information required to be recorded pursuant to this permit, which summary shall clearly show that Permittee has complied with the operational and emissions limitations under this permit. All instances of deviations from permit requirements shall be clearly identified in such reports. For brevity, such deviation reports may incorporate by reference any written supplemental upset reports filed by Permittee during the reporting period. The report shall be submitted to the District within 30 days after the end of each calendar year. Appendix A is a form which may be used for this report.

B. Biomass Boiler NSPS Notification

[Federally Enforceable][40 CFR §§60.48c(a), 60.7](Code §6-1-030.5)

Permittee shall submit a notification to the District of the date of construction, reconstruction and actual start-up as provided by 40 CFR §60.7. This notification shall include:

1. The design heat input capacity of the biomass boiler and identification of fuels to be combusted;
2. If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels;
3. The annual capacity factor at which the permittee anticipates operating the biomass boiler based on all fuels fired and based on each individual fuel fired.

C. Biomass Boiler NSPS Excess Emissions Reports

[Federally Enforceable][40 CFR §§ 60.48c(c), 60.7, 63.11225](Code §6-1-030.5)

On a semi-annual basis, Permittee shall submit excess emissions reports for any excess emissions from the biomass boiler that occur during each reporting period.

D. Biomass Boiler NESHAP Notifications

[Federally Enforceable][40 CFR §§ 63.9(h), 63.11214, 63.11225]

Permittee shall submit the Notification of Compliance Status separately to the District and to the Director, Air Division, EPA Region IX, 75 Hawthorne Street, San Francisco, CA 94105-390.

1. The Notification of Compliance Status shall include:
   a. The methods used to determine compliance.
   b. The results of any performance tests, opacity or visible emission observations, continuous monitoring system (CMS) performance evaluations, performance tune-ups conducted on the biomass boiler in accordance with 40 CFR § 63.11223(b) and/or other monitoring procedures or methods that were conducted
   c. The methods that will be used for determining continuing compliance.
   d. A statement by the owner or operator of the source as to whether the source has complied with the relevant standard or other requirements.
   e. A statement describing how the manufacturer’s recommended procedures were followed during startups and shutdowns.
2. The Notification of Compliance Status must be sent before the close of business on the 60th day following completion of the compliance demonstration activity, including but not limited to the biennial biomass performance tune-up and annual performance stack tests.

3. The EPA Region IX notification must:
   a. Be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA’s Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)) However if the reporting form specific to 40 CFR Part 63 Subpart JJJJJJ is not available in CEDRI at the time the report is due, a written version must be submitted to Director, Air Division, 75 Hawthorne Street, San Francisco, CA 94105-3901.
   b. Include opacity or visible emission observations or other monitoring procedures or methods that were conducted as required by 40 CFR Part 63 Subpart JJJJJJ must be submitted to the Director, Air Division, 75 Hawthorne Street, San Francisco, CA 94105-3901.

E. Annual Regular Compliance/Compliance Progress Certification
   [Federally Enforceable][40 CFR §63.11225] (Code §3-1-083.A.4.)

Permittee shall annually submit a certification of compliance with the provisions of this permit to the Administrator of the EPA and to the District. The certification shall be separately submitted to both the District and to the Director, Air Division, EPA Region IX, 75 Hawthorne Street, San Francisco, CA 94105-3901. The certification shall:

1. Be signed by a responsible official, namely the proprietor, a general partner, the president, secretary, treasurer or vice-president of the corporation, or such other person as may be approved by the Control Officer as an administrative amendment to this permit;

2. Include the company name and address;

3. Include the official’s name, title, phone number and email address;

4. Identify each term or condition of the permit that is the basis of the certification;

5. Verify the compliance status with respect to each such term or condition;

6. Verify whether compliance with respect to each such term or condition has been continuous or intermittent;

7. Include a description of any deviations and the corrective action taken;

8. Identify the permit provision, or other, compliance mechanism upon which the certification is based;

9. Include a copy of the two most recent semi-annual Appendix A (to this permit) reports; and

10. Be postmarked within thirty (30) days of the start of each calendar year.
F. Deviations from Permit Requirements

[**Federally Enforceable**][40 CFR §63.11222] (Code §3-1-81.A.5.b.)

Permittee shall report any deviation from the requirements of this permit along with the probable cause for such deviation, and any corrective actions or preventative measures taken to the District within ten days of the deviation unless earlier notification is required by the provisions of this permit.

G. Annual Emissions Inventory

[Code §3-1-103. (Nov. '93)]

Permittee shall complete and submit to the District an annual emissions inventory, disclosing actual emissions for the preceding calendar year. The submittal shall be made on a form provided by the District. The inventory is due by the latter of March 31, or ninety (90) days after the form is furnished by the District.

9. Fee Payment

As an essential obligation under this permit, permit fee shall be assessed by the District and paid by Permittee in accord with the provisions of Code Chapter 3, Article 7, as they may exist at the time the fee is due. The permit fee shall be due annually on or before the anniversary date of the issuance of an individual permit, or formal grant of approval to operate under a general permit, or at such other time as may be designated now or hereafter by rule. The District will notify the Permittee of the amount to be due, as well as the specific date on which the fee is due.

10. General Conditions

A. Term

(Code §3-1-089)

This permit shall have a term of five (5) years, measured from the date of issuance.

B. Basic Obligation

(Code §3-1-081.)

Permittee shall operate in compliance with all conditions of this permit, the Pinal County Air Quality Control District ("the District") Code of Regulations ("Code"), and all State and Federal laws, statutes, and codes relating to air quality that apply to these facilities. Any permit noncompliance is grounds for enforcement action; for a permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application and may additionally constitute a violation of the CAA.

C. Duty to Supplement Application

(Code §§3-1-050.H., 3-1-081.A.8.e., 3-1-087.A.1.c., 3-1-110.)

Even after the issuance of this permit, a Permittee, who as an applicant who failed to include all relevant facts, or who submitted incorrect information in an application, shall, upon becoming aware of such failure or incorrect submittal, promptly submit a supplement to the application, correcting such failure or incorrect submittal. In addition, Permittee shall furnish to the District within thirty days any information that the Control Officer may request in writing to determine
whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit and/or the Code.

D. Right to Enter  
(Code §§ 3-1-132, 8-1-050)  

Authorized representatives of the District shall, upon presentation of proper credentials and a showing that the District representative is equipped with certain safety equipment, namely a hard hat, be allowed:

1. To enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this permit;
2. To inspect any equipment, operation, or method required in this permit; and
3. To sample emissions from the source.

E. Transfer of Ownership  
(Code §3-1-090)  

This permit may be transferred from one person to another by notifying the District at least 30 days in advance of the transfer. The notice shall contain all the information and items required by Code § 3-1-090. The transfer may take place if not denied by the District within 10 days of the receipt of the transfer notification.

F. Posting of Permit  
(Code §3-1-100)  

Permittee shall firmly affix the permit, an approved facsimile of the permit, or other approved identification bearing the permit number, upon such building, structure, facility or installation for which the permit was issued. In the event that such building, structure, facility or installation is so constructed or operated that the permit cannot be so placed, the permit shall be mounted so as to be clearly visible in an accessible place within a reasonable distance of the equipment or maintained readily available at all times on the operating premises.

G. Permit Revocation for Cause  
(Code §3-1-140)  

The Director of the District ("Director") may revoke this permit for cause, which cause shall include occurrence of any of the following:

1. The Director has reasonable cause to believe that the permit was obtained by fraud or material misrepresentation;
2. Permittee failed to disclose a material fact required by the permit application form or a regulation applicable to the permit;
3. The terms and conditions of the permit have been or are being violated.

H. Certification of Truth, Accuracy, and Completeness  
(Code § 3-1-175.)
Any application form, report, or compliance certification submitted pursuant to the Code shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under Chapter 3 of the Code shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

I. Permit Expiration and Renewal
   (Code §3-1-089)

Expiration of this permit will terminate the facility’s right to operate unless a timely application for renewal has been submitted in accordance with §§3-1-050, 3-1-055 and 3-1-060 or a substitute application for a general permit under §3-5-490. For Class I permit renewals, a timely application is one that is submitted at least 6 months, but not greater than 18 months prior to the date of permit expiration. For Class II or Class III permit renewals, a timely application is one that is submitted at least 3 months, but not greater than 12 months prior to the date of permit expiration.

J. Severability
   (Code §3-1-081.A.7)

The provisions of this permit are severable, and if any provision of this permit is held invalid the remainder of this permit shall not be affected thereby.

K. Permit Shield
   (Code § 3-1-102.)

1. Compliance with the terms of this permit shall be deemed compliance with any applicable requirement identified in this permit.

2. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

L. Permit Revisions
   (Code Chapter 3, Article 2)

1. This permit may be revised, reopened, revoked and reissued, or terminated for cause. Other than as expressly provided in Code Chapter 3, Article 2, the filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

2. The permittee shall furnish to the Control Officer, within a reasonable time, any information that the Control officer may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating the permit or to determine compliance with the permit.

3. Permit amendments, permit revisions, and changes made without a permit revision shall conform to the requirements in Article 2, Chapter 3, of the Code.

4. Should this source become subject to a standard promulgated by the Administrator pursuant to CAA §112(d), then Permittee shall, within twelve months of the date on which
the standard is promulgated, submit an application for a permit revision demonstrating how the source will comply with the standard. (Code §3-1-050.C.5)

M. Permit Re-opening
(Code §3-1-087.)

1. This permit shall be reopened if either:

   a. The Control Officer determines that it contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of it; or

   b. The Control Officer determines that it needs to be revised or revoked to assure compliance with the applicable requirements.

2. If this permit must be reopened or revised, the District will notify the permittee in accord with Code §3-1-087.A.3.

N. Record Retention
[ Federally Enforceable][40 CFR §63.11225] (Code §3-1-083.A.2.b)

Permittee shall retain for a period of five (5) years all documents required under this permit, including reports, monitoring data, support information, calibration and maintenance records, and all original recordings or physical records of required continuous monitoring instrumentation. Records for the at least the last 2 years must be accessible at the site, the remaining 3 years may be kept off site.

O. Scope of License Conferred
(Code §3-1-081.)

This permit does not convey any property rights of any sort, or any exclusive privilege.

P. Emergency Provision
[ Federally Enforceable][40 CFR §63.11226] (Code §8-1-030)

1. In the event of a failure of air pollution control equipment, or malfunction, or abnormal operation of any equipment, any of which results in a violation of an applicable emission limitation set forth in this permit, including either an increase of emissions above a rate-limitation or violation of an operating limitation, then the Permittee, shall comply with the provisions of Code § 8-1-030 and ARS §49-476.01, including notifying the District of such event within 24 hours or by the next business day, whichever is later. Permittee shall notify the District at phone number (520) 866-6929, and shall provide a written report within three (3) working days of the beginning of such occurrence. The obligation under this section shall arise when an occurrence results in an increase of emissions above:

   a. Enforceable rate limitations established for those pollutants addressed in this Permit; or

   b. For any other pollutant, any applicable limitation arising under the Code.
2. A malfunction (as defined by Code §1-3-140.80) is any sudden and unavoidable failure of air pollution control equipment or process equipment or a process to operate in a normal and usual manner. Failures that are caused by poor maintenance, or could have been prevented by the exercise of reasonable care shall not be considered a malfunction.

3. An "emergency" shall be defined according to the inclusions and exclusions set forth in Code §3-1-081.E.1. and the emergency response provisions in Code §3-1-081.E. are applicable to this permit.

4. Any assertion of affirmative defense must be established by the permittee in accordance with Code §3-1-081.E and 8-1-030 and 40 CFR §63.11226.

11. **Facility Specific Data**

   **A. Equipment List**

   Equipment for which emissions are allowed by this permit are as follows:

<table>
<thead>
<tr>
<th>ID</th>
<th>EQUIPMENT</th>
<th>CAPACITY</th>
<th>MAKE</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>4A/4B</td>
<td>Corn Transfer System</td>
<td></td>
<td>Ferrel-Ross</td>
<td></td>
</tr>
<tr>
<td>5A/5B</td>
<td>Corn Cleaner System</td>
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<td>Ferrel-Ross</td>
<td></td>
</tr>
<tr>
<td>9C</td>
<td>Potato Chip Fryer (steam)</td>
<td></td>
<td>Heat &amp; Control, Inc</td>
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<tr>
<td>11C</td>
<td>Venturi Scrubber for Potato Chip Fryer Exhaust</td>
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<td>Neptune Air-Pol</td>
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<tr>
<td>15A</td>
<td>Corn Chip Fryer (steam)</td>
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<td>Heat &amp; Control, Inc</td>
<td></td>
</tr>
<tr>
<td>15B</td>
<td>Ambient Air Cooler</td>
<td>8970 acfm</td>
<td>Heat &amp; Control, Inc</td>
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<tr>
<td>16B</td>
<td>Tortilla Chip Ovens</td>
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<td>IET Combustion LLC</td>
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<td>17B</td>
<td>Tortilla Chip Fryer (steam)</td>
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<td>Ambient Air Cooler</td>
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<td>Corn Meal Transfer System</td>
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<td>4- Fried Cheese Puff (FCP) Extruders</td>
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<td>21</td>
<td>FCP Fryer</td>
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<td>Ambient Cooler</td>
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<tr>
<td>Process/Line</td>
<td>Equipment</td>
<td>Energy (MMBtu/hr)</td>
<td>Manufacturer</td>
<td>Model</td>
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<td>Baked Cheese Puff Line (BCP)</td>
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<td>BCP Extruder</td>
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<td>BCP Dryer</td>
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<td>BCP Seasoning Loop</td>
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<td>Whole Wheat and Corn Handling System</td>
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<td></td>
<td>Hammermill</td>
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<td></td>
<td>Fryer</td>
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<td></td>
<td>Cooking Kettle</td>
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<td>On-Machine Seasoner, vents to a dust collector</td>
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<td>Babcock &amp; Wilcox</td>
<td>FM10-79</td>
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<td>Fuel Handling System Concrete Bunker</td>
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<td>Fuel Handling System 30' Incline Belt Conveyor with magnets.</td>
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<td>Fuel Handling System Metering Hopper</td>
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<td>Biomass Boiler</td>
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<td>Multi-clone</td>
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<td>31,528 acfm</td>
<td>PPC Industries</td>
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<td><strong>Selective Catalytic Reduction (SCR) with ammonia injection.</strong></td>
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<tr>
<td>Flyash Conveyor System</td>
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<td>Emergency Engine</td>
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<td>Natural gas HVAC units</td>
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<td>3.3 MMBtu</td>
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</table>

B. Insignificant Activities

1. 20,000 Gallon Diesel Fuel Storage Tank
2. Electrically driven fire pump.
Appendix A: Semi-annual Report

Permit V20684.000

Abstract

This constitutes a semi-annual report, documenting emissions and use of emission-generating materials during the subject reporting period.

Facility - Frito-Lay, Inc.
1450 West Maricopa Casa Grande Highway., Casa Grande, AZ

Reporting Period - January - June ___ Or July to December ___ Year _______

Emissions Report
Emissions of PM10/PM2.5 (facility-wide) - .......................................................... _____________ tons
Emissions of HAPs from Biomass Boiler - ............................................................... _____________ tons

Operations Report
Total amount of chips/snacks produced in (5) production lines - ........................................ ______________ tons
Hours of operation for emergency engine…………………………..emergency operation ____________ hours
non-emergency operation ____________ hours

Was each biomass fuel shipment visually inspected prior to receipt as required by §4.C.2.d.iv? (Please attach records of any accepted non-approved items found in shipments with an explanation of how it was handled) ..........................................................YES___ NO ___

Was the time spent in start-up and shutdown for the biomass boiler minimized by following the manufacturer’s recommended procedures as required by §5.D ..........................................................YES___ NO ___

Were the non-emergency hourly limits listed in §5.L exceeded for the diesel-driven fire pump? .....YES___ NO ___

Have the opacity screenings required by §6.C been conducted? ..................................................YES___ NO ___

Fuel Report
Natural Gas Purchased - ______________ therms.

Aggregate Operational Hours of the Propane Driven Equipment:

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler</td>
<td></td>
</tr>
<tr>
<td>Flare</td>
<td></td>
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<tr>
<td>Tortilla Chip Oven</td>
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</tr>
<tr>
<td>Starch Dryer</td>
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<tr>
<td>BCP Dryer</td>
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</tr>
</tbody>
</table>

Maximum rolling 12-month Heat Input of the biomass boiler (HHV-dry) - ....................... ______________ MMbtu
Maximum 30 day rolling average biomass boiler operating load................................. ______________ MMbtu/hr
Total biomass fuel burned - ......................................................................................... ______________ tons
### Monthly biomass fuel burned (Circle the month being reported)

<table>
<thead>
<tr>
<th>Jan / Jul</th>
<th>Feb / Aug</th>
<th>Mar / Sep</th>
<th>Apr / Oct</th>
<th>May / Nov</th>
<th>Jun / Dec</th>
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</table>

### Monthly type(s) of fuel burned (Circle the month being reported)

<table>
<thead>
<tr>
<th>Jan / Jul</th>
<th>Feb / Aug</th>
<th>Mar / Sep</th>
<th>Apr / Oct</th>
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</table>

Total sawdust/sander dust burned - .......................................................... ____________ tons

### COMS Report
Were any performance evaluations per §6.B conducted on the COMS during the reporting period? YES ___ NO ___
(Please submit reports for any such evaluations)

### Electrostatic Precipitator Report
Was the secondary voltage across the ESP measured on a continuous basis as required by §4.C.1.b.ii.? ............................................................ YES ___ NO ___
Did any voltage excursions as described in §4.C.1.b.iii occur during reporting period? .................YES ___ NO ___

### Testing Requirement
If applicable was the Biomass Boiler tune-up required by Section §5.D conducted? .........................YES ___ NO ___
If applicable, were the Biomass Boiler tests required by Section §7.B conducted? ..........................YES ___ NO ___
If applicable, were the Biomass Boiler tests required by Section §7.C conducted? .........................YES ___ NO ___
If applicable, were the Feedstock tests required by Section §7.D conducted? ..............................YES ___ NO ___
Were the opacity tests required by §7.E conducted? .........................................................YES ___ NO ___
Was the stack testing conducted as required in Section §7.F of this permit? YES ___ NO ___
If yes, please list the test date__________________

### Deviations Report
Have there been any deviations from permit requirements per §8.F during this reporting period?....YES ___ NO ___
If yes, please submit all the reports associated with the deviations.

### Certification by Responsible Official
I certify that, based on information and belief formed after reasonable inquiry, that the statements and information in this report are true, accurate and complete.

Signed ________________________________
Printed Name ________________________________
Title ________________________________
Date ________________________________
Contact Phone Number ________________________________

(3/31/21) 41  FRITO-LAY CASA GRANDE
Mail to: Pinal County Air Quality Control District
        P.O. Box 987
        Florence, AZ 85132, or

Email to: compliancereports@pinal.gov