



PLACER COUNTY AIR POLLUTION CONTROL DISTRICT

Rio Bravo Rocklin

TITLE V OPERATING PERMIT

Permit Number: RB-001

Issued To :	Plant Site Location :
Rio Bravo Rocklin	Rio Bravo Rocklin
3100 Thunder Valley Court	3100 Thunder Valley Court
Rocklin, CA 95648	Rocklin, CA 95648

Issued By :

Thomas J. Christofk, APCO Date

Effective Date : ~~February~~~~November 7, 2008~~~~October **~~, 20145

~~Originally issued : February 24, 2009~~

~~Minor Amendment : June 24, 2009~~

Expiration Date : ~~November 7, 2011~~~~October~~~~February **~~, 201209

Nature of Business: Power Generation

SIC Code: 4911

Responsible Official :

~~Jack Snider~~Stephen Gross

~~Vice President~~Chief Executive Officer

~~GD Rocklin I, Inc.~~IHI Power Services Corp.

Phone: (9~~4946~~) ~~645-3383~~330-7960

Facility Contact :

~~Jack Snider~~Charles Odrechowski

Plant Manager

Phone: (916) 645-3383

Rio Bravo Rocklin

Title V Operating Permit

Contents

Section 1: Facility Description and Equipment Lists

Section 2: Specific Emission Unit Conditions

Section 3: Facility-wide Conditions

Section 4: Standard Terms and Conditions

Section 5: Alternative Scenarios

Section 6: Monitoring, Testing, and Recordkeeping

Section 7: Compliance Certification

1.0 Facility Description and Equipment Lists

1.A1- Description

Bio-Rio Bravo-Rocklin (Rio Bravo) is a 28.5 gross MegaWatt circulating fluidized bed biomass fueled electric generation facility. Rio Bravo has also requested the use of three additional alternative fuels as conditional alternative operating scenarios. The fuel alternatives include landfill gas, petroleum coke, and refuse derived fuel, with the approval of the District.

1.B2- Equipment Listing

1.2.1 Significant Sources

a.1.2.1.1 Combustion Unit(s)

Equipment	Description
Boiler	Circulating fluidized bed combustor with overfire air, nominal rating: 357 MMBtu/hr
Startup/Stabilization Burner	Natural gas or propane fired auxiliary burner 37 MMBtu/hr

b.1.2.1.2 General Emissions Unit(s)

Equipment	Description
Conveyors	Misc. dimensions, 7.5 to 30 hp electrically powered
Screens	Magnet and fuel screens; 1.5 to 10 hp
Reclaimer	For fuel processing and delivery 10 hp electric
Truck Dump	Powered by 2 electric hydraulic pumps
Cooling Tower	2 x 300 hp cooling fan motors
<u>Sand Recycling System</u>	
<u>CEMS and COMS</u>	

c.1.2.1.3 Emission Control Unit(s)

Equipment	Description
Cyclone, Multi-clone and Electrostatic Precipitator	N/A
Ammonia Storage Tank	12,000 gallon anhydrous ammonia tank

Formatted: Underline

Formatted: Indent: Left: 0.25"

Formatted: Indent: Left: 0.25"

Formatted Table

Formatted: Indent: Left: 0.25"

Formatted: Indent: Left: 0.25", Line spacing: single

Formatted: Indent: Left: 0.25", Line spacing: single

Formatted Table

Formatted: Font: Not Bold

Formatted: Left, Indent: Left: 0.25", Space After: 0 pt

Formatted: Font: Not Bold

Formatted: Left, Indent: Left: 0.25", Space After: 0 pt

Formatted: Indent: Left: 0.25", Line spacing: single

Formatted: Space After: 2.9 pt, Line spacing: single

Formatted: Indent: Left: 0.25", Space After: 0 pt

Formatted: Indent: Left: 0.25", Line spacing: single

Formatted: Indent: Left: 0.25", Line spacing: single

Formatted: Space After: 0 pt

Formatted: Indent: Left: 0.25", Space After: 0 pt

Formatted: Indent: Left: 0.25", Line spacing: single

Formatted: Indent: Left: 0.25", Line spacing: single

Formatted: Space After: 0 pt

Formatted: Indent: Left: 0.25", Space After: 0 pt

Formatted: Indent: Left: 0.25", Line spacing: single

Formatted: Indent: Left: 0.25", Line spacing: single

Formatted: Space After: 0 pt

Formatted: Indent: Left: 0.25", Space After: 0 pt

Formatted: Indent: Left: 0.25", Line spacing: single

Formatted: Line spacing: single

Formatted: Indent: Left: 0.25", Line spacing: single

Formatted: Indent: Left: 0", Line spacing: single

Formatted: Indent: Left: 0.25", Line spacing: single

Formatted: Indent: Left: 0.25"

Formatted: Indent: Left: 0.25"

Formatted Table

Ammonia Vaporizer	Rating – 100 lbs/hr
Ammonia Injection System	Rating – 100 lbs/hr – 4 nozzles
<u>GEMS Analyzer</u>	

Formatted: Indent: Left: 0.06"

Formatted: Indent: Left: 0.25"

1.2.2. Insignificant Activities and Sources

a.1.2.2.1 Insignificant Sources

Description	Control
Space Heaters	N/A
Misc. Welding Equipment	N/A
Propane Tank(s)	N/A
Hydraulic Oil Reservoir	N/A
Lubricants and Associated Equipment	N/A

Formatted: Indent: Left: 0.25"

Formatted Table

b.1.2.2.2 Insignificant Activities

The following types of activities are exempted from the Title V permit requirements based on EPA's guidelines of Trivial Activities.

1. Plant maintenance and upkeep activities, such as painting.
2. The repair and maintenance shop activities not related to the source's primary business activities.
3. Combustion emissions from propulsion of mobile sources.
4. Portable generator, portable steam cleaner, glove box grit blaster, and water heaters/steam cleaners.
5. Unheated cleaning equipment and office janitorial activities and equipment and consumer use of janitorial products and consumer use of office equipment and products.

Formatted: Indent: Left: 0.25"

Formatted: Indent: Left: 0.38", Hanging: 0.19"

Formatted: Indent: Left: 0.38", Hanging: 0.19"

Formatted: Indent: Left: 0.38", Hanging: 0.19"

2.0 Specific Unit Conditions

Formatted: Underline

2.A1 Emissions Limits

Formatted: Indent: Left: 0.13"

2.1.1 Boiler

Formatted: Indent: Left: 0.25"

a2.1.1.1 Boiler PM Limit

Formatted: Indent: Left: 0.38"

2.1.1.1.1 The particulate emissions from the main boiler discharge stack shall not exceed 0.020 grains/dscf corrected to 12 % CO2.

Formatted: Indent: Left: 0.5"

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 24 C
Authority: Rule 502, New Source Review § 303 [amended 11/-03/-94]

Formatted: Indent: First line: 0.5"

2.1.1.1.2 Rio Bravo shall not discharge or cause the discharge of PM into the atmosphere from the boiler in excess of 0.10 lbs/MMBtu.

Formatted: Indent: Left: 0.5"

Origin: 40 CFR §60.43b(d)
Authority: 40 CFR §60.34b(d)

Formatted: Indent: First line: 0.5"

b2.1.1.2 Boiler NOx Limit-

Formatted: Indent: Left: 0.38"

2.1.1.2.1 Emissions of nitrogen oxides (calculated as nitrogen dioxide) from the main boiler discharge stack shall not exceed 840 pounds per day, with an annual emissions limit not to exceed 131.4 tons per year.

Formatted: Indent: Left: 0.5"

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 24 N
Authority: Rule 502, New Source Review § 303 [amended 11/-03/-94]

Formatted: Indent: First line: 0.5"

2.1.1.2.2 The NOx emissions from the boiler shall not exceed the following: An exhaust concentration of 115 parts per million (ppmv) corrected to 12 percent by volume stack gas carbon dioxide (CO2) on a three-hour average, rolling, dry basis.

Formatted: Indent: Left: 0.5"

Formatted: Font: (Default) Arial

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 24
Authority: Rule 502, New Source Review § 303 [amended 11/-03/-94]

Formatted: Indent: First line: 0.5"

2.1.1.2.3 The NOx emissions from the boiler shall not exceed 68 ppmv corrected to 12 percent by volume stack gas CO2 on a twenty-four hour block average (calendar day) dry basis.

Formatted: Font: Bold

Formatted: Indent: Left: 0.5"

Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 44
Authority: Rule 233, Biomass Boilers [amended 6/14/12]

Formatted: Font: Bold

2.1.1.2.43 Rio Bravo shall not discharge or cause the discharge of NOx into the atmosphere from the boiler in excess of 0.30 lbs/MMBtu.

Formatted: Indent: First line: 0.5"

Origin: 40 CFR §60.44b(d)
Authority: 40 CFR §60.44b(d)

2.1.1.2.54 The nitrogen oxide limit in condition 2.A1.1.b2.34 shall apply at all times including periods of startup, shutdown, or malfunction.

Formatted: Indent: Left: 0.5"

Origin: 40 CFR §60.44b(h)
Authority: 40 CFR §60.44b(h)

Formatted: Indent: First line: 0.5"

2.1.1.2.65 Compliance with the NOx in condition 2.A1.1.b2.34 is determined on a 30-day rolling average basis.

Formatted: Indent: Left: 0.5"

Origin: 40 CFR §60.44b(i)
Authority: 40 CFR §60.44b(i)

Formatted: Indent: First line: 0.5"

e-2.1.1.3 Boiler Emissions Limits VOC, CO and SO2

Formatted: Indent: Left: 0.38"

2.1.1.3.1 The emission from the main boiler discharge stack of sulfur oxides (calculated as sulfur

Formatted: Indent: Left: 0.5"

dioxide) or hydrocarbons (excluding methane) shall not exceed 250 pounds each per day.
Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 24 J
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

2.1.1.3.2. The discharge of sulfur compounds from the main boiler discharge stack, calculated as sulfur dioxide (SO₂), shall not exceed 0.2 percent by volume, pursuant to Rule 210, Specific Contaminants.
Origin: Rule 210, Specific Contaminants [amended 10/19/93]
Authority: Rule 210, Specific Contaminants [amended 10/19/93]

2.1.1.3.3. The emission of carbon monoxide from the main boiler discharge stack shall not exceed 56 pounds per hour on a three hour rolling average.
Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 24 K
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

2.1.1.4 Boiler MACT Subpart DDDDD Limits
The following emission limits must be met at all times, excluding startup and shutdown periods:

2.1.1.4.1 HCl: 2.2E-02 lb/MMBtu heat input, or 2.5E-02 lb/MMBtu steam production, or 0.27 lb/MWh.

2.1.1.4.2 Hg: 5.7E-06 lb/MMBtu heat input, or 6.4E-06/MMBtu steam production, or 7.3E-05 lb/MWh.

2.1.1.4.3 CO: 310 ppmvd @ 3% oxygen on a 30 day rolling average basis.

2.1.1.4.4 Filterable PM: 1.1E-01 lb/MMBtu heat input.

2.1.1.4.5 Opacity: 10% on a daily block average.

HCl and Hg shall be determined to meet according to the procedures in Condition 5.4.4.

Effective January 31, 2016.
Origin: 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.
Authority: 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.

2. Truck Dumps. Visible emissions at the truck dump system shall not exceed 10% opacity.
Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 24 G
Authority: Rule 502, New Source Review § 303 [amended 11-03-94]

2.1.1.5 Boiler NO_x and CO Limits During Startup and Shutdown
The NO_x ppmv limits in Sections 2.1.1.2.2 (115 ppmv) and 2.1.1.2.3 (68 ppmv) shall not be exceeded. These ppmv limits do not apply during startup or shutdown provided the following requirements are met:

2.1.1.5.1 Startup, as defined in Rule 233, includes the period of time a unit is heated to the normal operating temperature (1500 degrees F), as specified by the manufacturer, following a shutdown. The operating temperature is that measured at mid-combustor temperature indicator number 3305.

2.1.1.5.2 A shutdown, as defined in Rule 233, starts when fuel feed is curtailed and the unit begins cooling from the unit's normal operating temperature, as specified by the manufacturer, and ends when the unit is 150 degrees F or less for at least one hour, 24 hours has elapsed since

Formatted: Indent: First line: 0.5"

Formatted: Indent: Left: 0.5"

Formatted: Indent: First line: 0.5"

Formatted: Indent: Left: 0.5"

Formatted: Indent: First line: 0.5"

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial, Bold

Formatted: Indent: Left: 0.38"

Formatted: Font: (Default) Arial, Bold

Formatted: Font: (Default) Arial, Bold

Formatted: Font: Not Bold

Formatted: Font: Not Bold

Formatted: Font: (Default) Arial, Not Bold

Formatted: Indent: Left: 0.5"

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: (Default) Arial, Not Bold

Formatted: Font: Bold

Formatted: Indent: Left: 0.38"

Formatted: Indent: Left: 0.38"

Formatted: Font: (Default) Arial, Not Bold

Formatted: Indent: Left: 1"

Formatted: Indent: First line: 0.25"

Formatted: Font: Bold

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Not Bold

Formatted: Font: Not Bold

Formatted: Font: Not Bold

Formatted: Indent: Left: 0.5"

Formatted: Font: Bold

Formatted: Font: Not Bold

Formatted: List Paragraph

Formatted: Font: Bold

Formatted: Font: Not Bold

the start of the shutdown, or fuel feed resumes, whichever occurs first. The temperature is that measured at mid-combustor temperature indicator number 3305. A "shutdown" is differentiated from normal operational load variations (i.e., operational load variations in fuel feed and/or boiler temperature, which are not subject to Condition 2.1.1.10) by the separation of the generator from the electrical grid.

2.1.1.5.3 CO2 emissions are 10 percent or less by volume stack gas on a one-hour average dry basis. If any of the one hour CO2 averages meets this requirement, then the ppmv limitations do not apply.

Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 44
Authority: Rule 233, Biomass Boilers [amended 6/14/12]

2.1.1.6 During a startup or shutdown period, as defined in Rule 233, mass emissions of NOx shall not exceed thirty-five (35) pounds per hour on a twenty-four hour block average (calendar day), or on a seventy-two hour block average (3 calendar days) during curing startup.
Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 45
Authority: Rule 233, Biomass Boilers [amended 6/14/12]

2.1.1.7 During a startup or shutdown period, as defined in Rule 233, mass emissions of CO shall not exceed fifty-six (56) pounds per hour on a twenty-four hour block average (calendar day), or on a seventy-two hour block average (3 calendar days) during curing startup.
Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 46
Authority: Rule 233, Biomass Boilers [amended 6/14/12]

2.1.1.8 During a startup or shutdown period, as defined in Rule 233, mass emissions of CO shall not exceed one thousand three hundred forty four (1,344) pounds per calendar day.
Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 47
Authority: Rule 233, Biomass Boilers [amended 6/14/12]

2.1.1.9 The aggregate number of startups meeting any or all of the following criteria shall be limited to twenty (20) per calendar quarter and sixty (60) per calendar year:

2.1.1.9.1 Any startup, as defined in Rule 233, during which NOx emissions exceed 115 ppmv, corrected to 12% CO2 on a three-hour rolling average dry basis, and CO2 emissions are 10 percent or less by volume stack gas on a one-hour average dry basis, and the mass emission limit of thirty-five (35) pounds per hour on a twenty-four hour block average (calendar day), or on a seventy-two hour block average (3 calendar days) during curing startup is not exceeded.

2.1.1.9.2 Any startup, as defined in Rule 233, during which NOx emissions exceed 115 ppmv, corrected to 12% CO2 on a three-hour rolling average dry basis, and CO2 emissions are greater than 10 percent by volume stack gas on a one-hour average dry basis; or the mass emission limit of thirty-five (35) pounds per hour on a twenty-four hour block average (calendar day), or on a seventy-two hour block average (3 calendar days) during curing startup is exceeded.

2.1.1.9.3 Any startup, as defined in Rule 233, during which CO emissions exceed fifty-six (56) pounds per hour on a three-hour rolling average basis and CO2 emissions are 10 percent or less by volume stack gas on a one-hour average dry basis and the CO mass emissions limit of fifty-six (56) pounds per hour on a twenty-four hour block average (calendar day), or on a seventy-two hour block average (3 calendar days) during curing startup is not exceeded.

2.1.1.9.4 Any startup, as defined in Rule 233, during which CO emissions exceed fifty-six (56) pounds per hour on a three-hour rolling average basis and CO2 emissions are greater than 10 percent by volume stack gas on a one-hour average dry basis; or the CO mass emissions limit of fifty-six (56) pounds per hour on a twenty-four hour block average (calendar day), or on a

- Formatted: Font: (Default) Arial, 10 pt
- Formatted: Font: Not Bold
- Formatted: Font: Not Bold
- Formatted: Font: Not Bold
- Formatted: Font: Bold
- Formatted: Font: Not Bold
- Formatted: Font: (Default) Arial, 10 pt, Bold
- Formatted: Font: Not Bold
- Formatted: Indent: Left: 0.38"
- Formatted: Font: Not Bold
- Formatted: Indent: Left: 0.38"
- Formatted: Font: Not Bold
- Formatted: Font: Not Bold
- Formatted: Font: Not Bold
- Formatted: Indent: Left: 0.38"
- Formatted: Font: Not Bold
- Formatted: Indent: Left: 0.38"
- Formatted: Font: Not Bold
- Formatted: List Paragraph
- Formatted: Font: Bold
- Formatted: Font: Not Bold
- Formatted: Font: Not Bold
- Formatted: List Paragraph, Indent: Left: 0.88"
- Formatted: Font: Bold
- Formatted: List Paragraph
- Formatted: Font: Not Bold
- Formatted: Font: Not Bold
- Formatted: List Paragraph, Indent: Left: 0.88"
- Formatted: Font: Bold
- Formatted: Font: Not Bold
- Formatted: List Paragraph
- Formatted: Font: Not Bold
- Formatted: List Paragraph, Indent: Left: 0.88"
- Formatted: Font: Bold
- Formatted: List Paragraph
- Formatted: Font: Not Bold

seventy-two hour block average (3 calendar days) during curing startup basis is exceeded.

2.1.1.9.5 Any startup, as defined in Condition 2.1.1.5.1, during which the Rule 203, Paragraph A.12 exemption to Rule 202 is applied.

2.1.1.9.6 Any startup, as defined in Condition 2.1.1.5.1, during which an opacity limit of Rule 202 is exceeded and the exemption of Rule 203, Paragraph A.12 does not apply.

2.1.1.9.7 Any combination of the above criteria during the same startup event shall be considered one (1) startup event for purposes of calculating the number of startups under Condition 2.1.1.9.

Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 48
Authority: Rule 233, Biomass Boilers [amended 6/14/12]

2.1.1.10 The aggregate number of shutdowns meeting any or all of the following criteria shall be limited to twenty (20) per calendar quarter and sixty (60) per calendar year;

2.1.1.10.1 Any shutdown, as defined in Rule 233, during which NOx emissions exceed 115 ppmv corrected to 12% CO2 on a three-hour rolling average dry basis, and CO2 emissions are 10 percent or less by volume stack gas on a one-hour average dry basis, and the mass emission limit of thirty-five (35) pounds per hour on a twenty-four hour block average (calendar day) is not exceeded.

2.1.1.10.2 Any shutdown, as defined in Rule 233, during which NOx emissions exceed 115 ppmv corrected to 12% CO2 on a three-hour rolling average dry basis, and CO2 emissions are greater than 10 percent by volume stack gas on a one-hour average dry basis; or the mass emission limit of thirty-five (35) pounds per hour on a twenty-four hour block average (calendar day) is exceeded.

2.1.1.10.3 Any shutdown, as defined in Rule 233, during which CO emissions exceed fifty-six (56) pounds per hour on a three-hour rolling average basis, and CO2 emissions are 10 percent or less by volume stack gas on a one-hour average dry basis, and the mass CO emissions limit of fifty-six (56) pounds per hour on a twenty-four hour block average (calendar day) is not exceeded.

2.1.1.10.4 Any shutdown, as defined in Rule 233, during which CO emissions exceed fifty-six (56) pounds per hour on a three-hour rolling average basis, and CO2 emissions are greater than 10 percent by volume stack gas on a one-hour average dry basis; or the mass CO emissions limit of fifty-six (56) pounds per hour on a twenty-four hour block average (calendar day) is exceeded.

2.1.1.10.5 Any shutdown, as defined in Condition 2.1.1.5.2, during which the Rule 203, Paragraph A.12 exemption to Rule 202 is applied.

2.1.1.10.6 Any shutdown, as defined in Condition 2.1.1.5.2, during which an opacity limit of Rule 202 is exceeded and the exemption of Rule 203, Paragraph A.12 does not apply.

2.1.1.10.7 Any combination of the above criteria during the same shutdown event shall be considered one (1) shutdown event for purposes of calculating the number of shutdowns under Condition 2.1.1.10.

Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 49
Authority: Rule 233, Biomass Boilers [amended 6/14/12]

2.1.1.11 The requirements of condition 3.9.3 and 40 CFR 60.11(d) are met when the aggregate number of startups or shutdowns subject to Conditions 2.1.1.9 or 2.1.1.10 has not exceeded the

Formatted	... [1]
Formatted	... [2]
Formatted	... [3]
Formatted	... [4]
Formatted	... [5]
Formatted	... [6]
Formatted	... [7]
Formatted	... [8]
Formatted	... [9]
Formatted	... [10]
Formatted	... [11]
Formatted	... [12]
Formatted	... [13]
Formatted	... [14]
Formatted	... [15]
Formatted	... [16]
Formatted	... [17]
Formatted	... [18]
Formatted	... [19]
Formatted	... [20]
Formatted	... [21]
Formatted	... [22]
Formatted	... [23]
Formatted	... [24]
Formatted	... [25]
Formatted	... [26]
Formatted	... [27]
Formatted	... [28]
Formatted	... [29]
Formatted	... [30]
Formatted	... [32]
Formatted	... [31]
Formatted	... [33]
Formatted	... [34]
Formatted	... [35]
Formatted	... [36]
Formatted	... [37]
Formatted	... [38]
Formatted	... [39]
Formatted	... [40]
Formatted	... [41]
Formatted	... [42]
Formatted	... [43]
Formatted	... [44]
Formatted	... [45]
Formatted	... [46]

twenty (20) per calendar quarter or sixty (60) per calendar year limits specified in the Conditions 2.1.1.9 or 2.1.1.10, respectively.
Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 50
Authority: Rule 233, Biomass Boilers [amended 6/14/12]

- Formatted: Font: (Default) Arial, 10 pt
- Formatted: Font: Not Bold
- Formatted: Font: Not Bold
- Formatted: Font: (Default) Arial, 10 pt
- Formatted: Font: Not Bold
- Formatted: Font: Not Bold
- Formatted: Font: (Default) Arial, 10 pt
- Formatted: Font: Not Bold
- Formatted: Indent: Left: 0.38"

2.1.2 Boiler Emission Opacity During Maintenance Outage

During a maintenance outage, the opacity emission limit that applies to the boiler stack exhaust shall be:

2.1.2.1 An emission opacity as dark or darker than Ringlemann No. 1 (20% opacity) for a period or periods aggregating more than 30 minutes in a rolling 24-hour average is prohibited as measured in the stack exhaust. For the purposes of this limit, "any 24-hour period" means a rolling 24-hour period, incremented by the clock hour.

2.1.2.2 For purposes of this condition, a "maintenance outage" shall be that period following the end of a shutdown, as defined in Condition 2.1.1.495.2, and prior to the beginning of a startup, as defined in Condition 2.1.1..95.1, during which the plant is undertaking testing, maintenance, repair or replacement of equipment or facilities necessary for safe or efficient operations of the plant.

Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 52
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

- Formatted: Indent: Left: 0.25"
- Formatted: Font: Not Bold
- Formatted: Indent: Left: 0.38"

2.1.3 Truck Dumps

Visible emissions at the truck dump system shall not exceed 10% opacity.
Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 24 G
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

- Formatted: Indent: Left: 0.25"

2.1.4 Sand Recycling System

The PM-10 emissions from the sand recycling system shall not exceed 2424 pounds per quarter.
Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 54
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

- Formatted: Font: (Default) Arial, 10 pt
- Formatted: Font: (Default) Arial, 10 pt
- Formatted: Font: Not Bold
- Formatted: Font: Not Bold
- Formatted: Indent: Left: 0.13"

2.B2: Process Limits

2.2.1: Boiler Fire Rate

The maximum steam output from the boiler shall not exceed 250230,000 pounds per hour with a 24-hour averaging period.
Origin: AC-03-96, Condition 1 and 11, PTO RIOB-90-01 [Issued 9/25/13]
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

- Formatted: Indent: Left: 0.25"

- Formatted: Indent: First line: 0.25"

2.2.1.1 Steam production rate, on a 30 day rolling average, must not exceed 110 percent of the highest one hour average recorded during the most recent performance test.
Effective January 31, 2016.

Origin: 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.
Authority: 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.

- Formatted: Font: Bold
- Formatted: Indent: Left: 0.38"
- Formatted: Font: Not Bold

- Formatted: Font: Not Bold

2.C3: Operating Conditions

- Formatted: Indent: Left: 0.13"

2.3.1. Boiler Emission Point

The discharge of combustion exhaust gases to the atmosphere at any point other than the main boiler stack is prohibited.
Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 24 M; Settlement Agreement dated July 30, 2008
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

Formatted: Indent: Left: 0.25"

2.3.2. Boiler Fuel

a.2.3.2.1 The boiler shall be fired exclusively on a gaseous fuel for startup and the following types of fuel during normal operation:

Formatted: Indent: First line: 0.25"

~~2.3.2.1.1. Natural gas or landfill gas (if approved by the District).~~

Formatted: Indent: Left: 0.38"

~~2.3.2.1.2. Biomass residues including urban wood wastes secondary material, nut shells, fruit pits, grape stems and pomace, wood residue from the forest products industry (i.e. sawmills) and refuse derived fuel (if approved by the District).~~

~~3. Petroleum coke (if approved by the District)~~

~~2.3.2.1.3. California Air Resources Board approved offset creditable fuels including orchard and vineyard prunings, forest management wood residues, vegetable crop biomass residues and field crop biomass residues.~~

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 26
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

b.2.3.2.2 Wood secondary material waste fuels shall exclude chemically treated wood and/or that material containing toxic or hazardous materials which may be defined as "hazardous waste" per section 25117, California Health and Safety Code, Division 20, Chapter 6.5, or as determined/defined in Title 22, California Code of Regulations, Division 4.5.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 27
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

c.2.3.2.3 The Air Pollution Control Officer may limit or prohibit the use of any fuel found to cause the exceeding of any emission limitation contained in this permit, U.S. EPA Prevention of Significant Deterioration (PSD) applicability determinations, and state or federal air pollution laws. The Air Pollution Control Officer may limit or prohibit the use of any fuel found to contribute to the production of discharged air contaminants in such quantities as to pose a hazard to public health or property. (Revised per A/C-93-05, 04/12/93)

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 28
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

2.3.3. Boiler Fuel Moisture

Rio Bravo will take the following steps to mitigate wet fuel as a cause for exceeding emission limitations and upsets/breakdowns:

~~a.2.3.3.1~~ During every planned outage, thoroughly inspect the fuel feed system, and the fuel chutes and combustor for contributing causes to fuel feed upsets. Expedient repair will occur as soon as it is feasible with the objective of preventing any further exceedances/upset/breakdowns.

~~b.2.3.3.2~~ If need be, over and above the steps defined in (a) above, during a period when high moisture fuel (with greater than 60% water) is being fed to the boiler, Rio Bravo will use natural gas in flame stabilization mode to minimize the potential for boiler upsets and the potential of an

Formatted: Font: Bold

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: (Default) Arial, 10 pt

Formatted: Indent: Left: 0.69"

Formatted: Font: (Default) Arial, 10 pt, Bold

Formatted: Font: Bold

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: (Default) Arial, 10 pt

Formatted: Indent: Left: 0.75"

Formatted: Indent: First line: 0"

Formatted: Font: Bold

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: (Default) Arial, 10 pt

Formatted: Indent: First line: 0.38"

Formatted: Indent: Left: 0.38"

Formatted: Indent: First line: 0.38"

Formatted: Indent: Left: 0.38"

Formatted: Indent: First line: 0.38"

Formatted: Indent: Left: 0.25"

Formatted: Font: (Default) Arial, 10 pt, Bold

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Font: (Default) Arial, 10 pt, Bold

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: (Default) Arial, 10 pt, Bold

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Font: (Default) Arial, 10 pt, Bold

Formatted: Font: (Default) Arial, 10 pt

exceedance or an upset/breakdown ~~(per Rio Bravo correspondence on April 15, 1993 and July 21, 1993).~~

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 34. ~~(per Rio Bravo correspondence on April 15, 1993 and July 21, 1993)~~
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

~~2.3.4. Boiler ESP-~~

The electrostatic precipitator shall be maintained such that the final stage cleaning cycle shall not clean the entire field at any one time.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 25
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

~~2.3.4.1 All three fields of the electrostatic precipitator shall normally be operating whenever the boiler is fired. In the event of a failure of one of the fields, Rio Bravo shall notify the Air Pollution Control Officer within 24-hours and initiate repairs.~~

~~Origin: Rule 501, General Permit Requirements
Authority: Rule 501, General Permit Requirements § 405, § 303 [amended 11/03/94]; HSC § 42301~~

~~2.3.4.2 For each electrostatic precipitator field, secondary voltage and secondary current shall be monitored on a continuous basis. For secondary voltage, secondary current, and secondary output power (determined as the product of the secondary voltage and secondary current), for each field, one hour block averages shall be calculated and electronically recorded.~~

~~Origin: 40 CFR 64
Authority: 40 CFR § 70.6(c)(5)(iii)(C); 40 CFR 64~~

~~2.3.4.3 Alarms shall be programmed into the boiler control room to alert the boiler operator when an electrostatic precipitator excursion has occurred. An electrostatic precipitator excursion occurs when the electrostatic precipitator total secondary output power, determined as the sum of the secondary output power of each field, on a one hour block average basis, when the boiler is at normal operating conditions, falls below 9.6 kW.~~

~~Origin: 40 CFR 64
Authority: 40 CFR § 70.6(c)(5)(iii)(C); 40 CFR 64~~

~~2.3.4.4 When an electrostatic precipitator excursion is detected, the boiler operator shall immediately initiate corrective action, including inspection of the electrostatic precipitator within 4 hours of detection, and needed repairs made as soon as practicable. The excursion shall be documented, and reported to the District within 24 hours of detection.~~

~~Origin: 40 CFR 64
Authority: 40 CFR § 70.6(c)(5)(iii)(C); 40 CFR 64~~

~~2.3.55. Fuel Hoppers/Truck Dumps-~~

The truck dump dust wet-suppression system shall be maintained operational at all times. The water spray system for each truck dump shall be operating when receiving fuel containing sawdust or fine particles which would result in visible emissions greater than 10% opacity. A minimum of 80% of the water spray nozzles must be operational.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 21
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

District Only

~~2.3.66. Wood Fuel Handling-~~

Formatted: Font: (Default) Arial, 10 pt

Formatted: Indent: Left: 0.25"

Formatted: Indent: Left: 0.25"

Formatted: Indent: First line: 0.25"

Formatted: Font: Bold

Formatted: Indent: Left: 0.38"

Formatted: Font: (Default) Arial, 10 pt

Formatted: Indent: First line: 0.25"

Formatted: Indent: Left: 0.25"

Formatted: Indent: First line: 0.25"

Formatted: Indent: First line: 0.25"

a-2.3.6.1 All wood fuel conveying systems shall be enclosed and shall employ an under belt cleaning system subject to the approval of the Air Pollution Control Officer (APCO).
Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 16
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

Formatted: Indent: Left: 0.38"

b-2.3.6.2 All wood fuel transfer points to storage piles shall employ a flexible drop chute, and to limit the free fall of the fuel material as much as practicable, and designed not to clog.
Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 17
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

Formatted: Indent: Left: 0.38"

e-2.3.6.3 The wood secondary material/waste classification and size reduction components shall be completely enclosed.
Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 18
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

Formatted: Font: (Default) Arial

Formatted: Indent: First line: 0.38"

Formatted: Font: (Default) Arial

Formatted: Font: (Default) Arial

Formatted: Indent: Left: 0.38"

2.3.7.7- Ash Handling System

a-2.3.7.1 The ash handling system shall be maintained dust tight to prevent the discharge of collected particulate matter into the ambient air. The system shall be vented only through the ash silo vent filter. Either the wet system with water suppression or the dry ash handling system may be used during ash loadout into trucks.
Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 19; Settlement Agreement dated July 30, 2008
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

Formatted: Indent: Left: 0.25"

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Indent: First line: 0.38"

b-2.3.7.2 Pressure gauges indicating the differential pressure of the Loading Spout filter inlet and outlet plenums shall be installed and shall be operated at all times the Loading Spout is in operation. Gauges shall provide indication in inches of water, and shall be readily accessible for inspection.
Origin: PTO RIOB-90-01 [Issued 12-27-07] Condition 19; AC-02-91 Condition 1
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Font: Bold

e-2.3.7.3 Spare bags shall be kept available for the replacement of torn or otherwise defective bags. Replacement bags shall be made available for District inspection.
Origin: PTO RIOB-90-01 [Issued 12-27-07] Condition 20; AC-02-91 Condition 2
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Font: Bold

e-2.3.7.4 The filter shall be operable whenever the Loading Spout is operated.
Origin: PTO RIOB-90-01 [Issued 12-27-07] Condition 22; AC-02-91 Condition 4
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Font: Bold

2.3.7.5 The ash conveyor transition points shall be controlled by either enclosures, vented through a baghouse or water mist spray nozzles to control fugitive dust emissions. Screening operations shall be vented through a baghouse.
Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 6
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: (Default) Arial, 10 pt

2.3.7.6 Collected particulate matter shall be handled in a manner which prevents reentrainment of the material into the ambient air.
Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 24
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

8- Cooling Tower

The cooling tower shall be operated to minimize drift.

Formatted: Indent: Left: 0.25"

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 20
Authority: Rule 502, New Source Review § 303 [amended 11-03-94]

2.3.8. Sand Recycling System

2.3.8.1 The quantity of material processed by the sand recycling system shall not exceed 13,300.913 tons per quarter.

Origin: PTOAC-15-01-ROIB-90-04 [Issued 9/25/135] Condition 10
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

2.3.8.2 The sand conveyor transition points shall be controlled by either enclosures vented through a baghouse or water mist spray nozzles to control fugitive dust emissions. Screening operations shall be vented through a baghouse.

Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 6
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

2.3.9. Cooling Tower

The cooling tower shall be operated to minimize drift.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 20
Authority: Rule 502, New Source Review § 303 [amended 11/03/94]

2.4. Boiler Energy Assessment

A one-time energy assessment must be completed that meets the requirements of § 63 Subpart DDDDD by January 31, 2016.

Effective January 31, 2016.
Origin: 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.
Authority: 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources, Industrial, Commercial, and Institutional Boilers and Process Heaters.

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Indent: Left: 0.25"

Formatted: Indent: Left: 0.38"

Formatted: Indent: Left: 0.25"

Formatted: Indent: Left: 0.25"

Formatted: Font: Bold

Formatted: Indent: Left: 0.13"

Formatted: Font: Bold

Formatted: Font: Not Bold

Formatted: Font: Not Bold

Formatted: Font: Not Bold

3.0 Facility-Wide Conditions

Formatted: Underline

3.A1 Opacity Rule 202

Formatted: Indent: Left: 0.13"

3.1.1. Emission opacity as dark or darker than Ringelmann No. 1 (20% opacity) for a period or periods aggregating more than three (3) minutes in any one hour is prohibited and is in violation of District Rule 202, Visible Emissions except visible emissions resulting from the startup or shutdown of the boiler are exempt for a period or periods of time aggregating not more than 30 minutes in any 24-hour period per Rule 203, Exceptions to Rule 202. (For the purposes of this exception, "any 24-hour period" means a rolling 24-hour period, incremented by the clock hour). This exception shall not apply to emissions which result from the failure to operate and maintain in good working order any emission control equipment.

Formatted: Indent: Left: 0.25"

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 24 F; PTO RIOB-90-01 Condition 33 [Issued 12/27/07]; Settlement Agreement dated July 30, 2008.

Authority: Rule 202, Visible Emissions [amended 05/20/85]; Rule 203, Exceptions to Rule 202, Section A.12 [amended 10/19/93]

3.1.2. For the purposes of the application of the Rule 203, Section A.12, exceptions to the limitations of Rule 202, Visible Emissions, the following definitions apply:

Formatted: Normal, Left, Indent: Left: 0.25", Border: Top: (Single solid line, White, 0.75 pt Line width), Bottom: (Single solid line, White, 0.75 pt Line width), Left: (Single solid line, White, 0.75 pt Line width), Right: (Single solid line, White, 0.75 pt Line width), Tab stops: Not at 2" + 2.5" + 3" + 3.5" + 4" + 4.5" + 5" + 5.5" + 6" + 6.5" + 7" + 7.5"

a.3.1.2.1 A "startup" is defined as the period of time the facility is in the process of preparing for and heating the boiler to the normal operating temperature of 1500 degrees F following a shutdown. The startup is completed when the boiler reaches the operating temperature of 1500 degrees. The operating temperature is that measured at mid-combustor temperature indicator number 3305. The beginning of a startup is indicated by the startup "toggle switch" being switched to record a startup in CEMS data and by a concurrent log book entry. If a discrepancy arises between the toggle switch CEMS data and the log book entry, the startup shall be considered to begin at the time noted in the log book.

Formatted: Indent: Left: 0.25"

Formatted: Font: Bold

Formatted: Indent: Left: 0.38", No bullets or numbering, Tab stops: Not at 0.25" + 1.58" + 2" + 2.5" + 3" + 3.5" + 4" + 4.5" + 5" + 5.5" + 6" + 6.5" + 7" + 7.5"

b.3.1.2.2 A "shutdown" is defined as starting when fuel feed is curtailed and the boiler begins cooling. A shutdown is defined as ending when the boiler is at a temperature of 90 degrees F or less for at least one hour, or 96 hours has elapsed since the start of the shutdown, or fuel feed resumes, whichever occurs first. The temperature is that measured at mid-combustor temperature indicator number 3305. A "shutdown" is differentiated from normal operational load variations (i.e., operational load variations in fuel feed and/or boiler temperature, which are not subject to Condition 3.H.3.c) by the separation of the generator from the electrical grid.

Formatted: Font: Bold

Formatted: Indent: Left: 0.38", No bullets or numbering, Tab stops: Not at 0.25" + 1.58" + 2" + 2.5" + 3" + 3.5" + 4" + 4.5" + 5" + 5.5" + 6" + 6.5" + 7" + 7.5"

Origin: PTO RIOB-90-01 Condition 43 [Issued 12/27/07]; Settlement Agreement dated July 30, 2008. Authority: Rule 203, Exceptions to Rule 202, Section A.12 [amended 10/19/93]

Formatted: Indent: Left: 0.25"

~~3. All reasonable fugitive dust control measures for the fuel piles are considered to be implemented, and no enforcement action shall be taken in accordance with Rule 228, Fugitive Dust, Section 405, for events where the provisions of Section 300, of Rule 228, are not complied with, if the following requirements are met:~~

Formatted: Font: Arial

~~a. All Rio Bravo Rocklin wood fuel handling vehicles to maintain speeds less than 5 MPH at the facility;~~

Formatted: Font: (Default) Arial, 10 pt

~~b. All wood fuel storage piles to be maintained within side walls no taller than three feet extending above the working fuel pile working fuel pile surface; and~~

~~c. Wind screens are installed to ameliorate wind affects in the wood fuel processing area.~~

Origin: Settlement Agreement dated July 30, 2008.

Authority: Rule 501, General Permit Requirements § 405 [amended 11-03-94]; Rule 228, Fugitive Dust, Sections 300 and 405

District Only

Formatted: Left, Indent: Left: 0.25", Border: Top: (Single solid line, White, 0.75 pt Line width), Bottom: (Single solid line, White, 0.75 pt Line width), Left: (Single solid line, White, 0.75 pt Line width), Right: (Single solid line, White, 0.75 pt Line width)

3.B2. Nuisance Rule 205

Formatted: Indent: Left: 0.13"

3.2.1. General

No emissions are permitted, from any source, which are a nuisance per District Rule 205, Nuisance.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 24 A

Authority: Rule 205, Nuisance [amended 05/24/77]

District Only

Formatted: Underline

3.2.2. Fugitive Dust

Visible emissions resulting from ~~any fugitive dust and wind blown~~ wood ~~secondary waste material, shall not exceed 10% opacity excluding fuel piles addressed in Condition 3.6 are not allowed~~ at Rio Bravo's property line.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 24 H; ~~PTO issued 9/25/2013 Condition 36~~

Authority: Rule 205, Nuisance [amended 05/24/77]

District Only

Formatted: Underline

3.2.3. Stockpiled Sand

~~Wet suppression shall be used on stockpiled sand to control fugitive particulate emissions, unless the stockpiled material does not result in any visible particulate matter emissions.~~

Origin: PTO RIOB-90-01 [Issued 9/25/13] Condition 7

Authority: Rule 205, Nuisance [amended 05/24/77]

Formatted: List Paragraph, Indent: Left: 0.25"

Formatted: Font: Bold

Formatted: Font: (Default) Arial, 10 pt, Bold

Formatted: Font: Not Bold

Formatted: Font: (Default) Arial, 10 pt

3.2.34. Road Dust

All service roads and plant areas shall be maintained in a manner that effectively controls fugitive dust and prevents the violations of the California Health and Safety Code Section 41700 and District Rule 205, Nuisance.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 15

Authority: Rule 205, Nuisance [amended 05/24/77]

District Only

Formatted: Underline

3.C3. PM Limit Rule 207

In accordance with District Rule 207, Particulate Matter, Rio Bravo shall not release or discharge from any source or single processing unit, exclusive of sources emitting combustion contaminants only, particulate matter in excess of 0.1 gr/dscf at standard condition.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 24 B

Authority: Rule 207, Particulate Matter [amended 10/19/93]

District Only

Formatted: Underline

3.D4. Specific Contaminant Limit Rule 210

Rio Bravo shall not discharge into the atmosphere from any source of emissions:

3.4.1. Combustion contaminants (particulate matter) exceeding 0.1 gr/dscf at 12 percent carbon dioxide (CO2) at standard conditions.

3.4.2. Sulfur compounds, calculated as sulfur dioxide, exceeding 0.2 percent by volume.

Origin: Rule 210, Specific Contaminants [amended 10/19/93]

Authority: Rule 210, Specific Contaminants [amended 10/19/93]

3.E5. Process PM Limit Rule 211

Rio Bravo shall not discharge in any one hour on a from any single source of emissions, solid particulate matter in excess of the amount calculated using the following equations:

For Process rates less than 30 tons per hour;

$$E = 3.59 P^{0.62}$$

For Process weight > 30 tons per hour;

$$E = 17.31 P^{0.16}$$

Where:

E = Emission limit in pounds per hour

P = Process weight rate in tons per hour

Origin: PTO RIOB-90-01 [Issued 6/1/97] Condition 24 I

Authority: Rule 211, Process Weight [amended 10/19/93]

Formatted: Indent: First line: 0"

3.6 Fugitive Dust Rule 228

All reasonable fugitive dust control measures for the fuel piles are considered to be implemented, and no enforcement action shall be taken in accordance with Rule 228, Fugitive Dust, Section 405, for events where the provisions of Section 300, of Rule 228, are not complied with, if the following requirements are met:

Formatted: Font: Bold

3.6.1 All Rio Bravo Rocklin wood fuel handling vehicles to maintain speeds less than 5 MPH at the facility;

Formatted: Font: Bold

Formatted: Indent: Left: 0.25"

3.6.2 All wood fuel storage piles to be maintained within side walls no taller than three feet extending above the working fuel pile surface; and

Formatted: Font: Bold

3.6.3 Wind screens are installed to ameliorate wind affects in the wood fuel processing area.

Formatted: Font: Bold

Origin: Settlement Agreement dated July 30, 2008.

Authority: Rule 501, General Permit Requirements § 405 [amended 11/03/94]; Rule 228, Fugitive Dust, Sections 300 and 405

District Only

Formatted: Font: Bold, Underline

3.F7: Report Upsets Rule 404

1-The plant manager or designee shall notify the District (per Rule 404) within two hours of any upset conditions, breakdown or scheduled maintenance which cause emissions in excess of limits established by District Rules and Regulations.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 3

Authority: Rule 404, Upset Conditions, Breakdown, or Scheduled Maintenance § B.1 [amended 06/19/79]

District Only

Formatted: Underline

3.G8: Source Record ~~Keeping~~ and Reporting Rule 408

Upon notification from the District, Rio Bravo shall maintain records of the nature and amounts of emissions from any source and/or any other information as may be deemed necessary by the District to determine whether such source is in compliance with applicable emission limitations or other control measures. The Air Pollution Control Officer may require that such records be certified by a professional engineer, registered in the State of California. Such studies shall be at the expense of the person causing the emissions. The information recorded shall be summarized and reported to the District, on forms or formats as furnished by the District, and shall be submitted within 45 days after the end of the reporting period. Reporting periods are January 1 - June 30 and July 1 - December 31, except that the

initial report period shall commence on the date the District issues notification of the record-keeping requirements. Information reported by Rio Bravo and copies of the summarizing reports submitted to the District shall be retained by Rio Bravo for 5 years after the date on which the pertinent report is submitted

Origin: Rule 408, Source Record Keeping and Reporting [amended 05/24/77]
Authority: Rule 408, Source Record Keeping and Reporting [amended 05/24/77]

3.H9. General District Permit Requirements Rule 501

Formatted: Indent: Left: 0.13"

3.9.1. ATC Required Rule 501

Formatted: Indent: Left: 0.25"

3.9.1.1a. With the exception of replacement equipment as defined in Rule 502 § 242 an Authority to Construct application shall be filed with the District before the modification or replacement of any equipment for which a Permit to Operate has been granted, and before the installation and operation of any equipment for which an Authority to Construct is required pursuant to Health and Safety Code, Section 42300, and District Rule 501, General Permit Requirements, section 300. Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 6
Authority: Rule 501, General Permit Requirements § 300 [amended 11/03/94]

3.9.1.2b. Any alteration of the subject equipment, including a change in the method of operation, shall be reported to the District. Such alterations may require an Authority to Construct permit
Origin: Rule 501, General Permit Requirements § 300 [amended 11/03/94]
Authority: Rule 501, General Permit Requirements § 300 [amended 11/03/94]

Formatted: Indent: Left: 0.25"

3.9.2. Limit Exceedance Prohibited Rule 501

3.9.2.1a. The exceedance of any emission limitation established by this permit or the rules and regulations of the District is prohibited, unless specifically allowed by a granted Variance/Schedule of Compliance, or due to an upset, breakdown, or scheduled maintenance per District Rule 404. Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 9
Authority: Rule 501, General Permit Requirements § 303 [amended 11/03/94]

3.9.2.2b. Exceeding any limiting condition is prohibited without prior application for, and the subsequent granting of a permit modification pursuant to District Rule 501, General Permit Requirements, District Rule 507, Title V Permit to Operate, and, if necessary, a Prevention of Significant Deterioration (PSD) permit. Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 10
Authority: Rule 501, General Permit Requirements § 400 [amended 11/03/94] and Rule 507 § 302.6 and § 302.7 [amended 04/17/01] and Rule 518, PSD Program [adopted 02/10/11]

3.9.3. Maintain Equipment In-in Good Working Condition Rule 501

All equipment, facilities and systems installed or used to achieve compliance with the terms and conditions of this Permit to Operate shall be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 8
Authority: Rule 501, General Permit Requirements § 304.3 [amended 11/03/94]; 40 CFR Part 60

3.9.4. Toxics Hot Spots Compliance Rule 501

Compliance of the permitted facility is required with the provisions of the "Air Toxics 'Hot Spots' Information and Assessment Act" of 1987 (Health and Safety Code Sections 44300 et seq.). Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 12
Authority: Rule 501, General Permit Requirements § 303.1 and California Health and Safety Code

Sections 44300 et seq.

District Only

Formatted: Underline

3.9.5. Change of Ownership Rule 501

3.9.5.1a. In the event of a change of ownership, an application must be submitted to the District.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 7

Authority: Rule 501, General Permit Requirements § 303 [amended 11/-03/-94]

3.9.5.2b. Upon any change in control or ownership of facilities constructed, operate, or modified under authority of this permit, the requirements contained in this Permit to Operate shall be binding on all subsequent owners and operators.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 7

Authority: Rule 501, General Permit Requirements § 303.1 [amended 11/-03/-94]

3.9.6. Permit Revision Rules 501 and 507

Revisions to this permit may be requested pursuant to District Rule 501, General Permit Requirements, Section 400 and District Rule 507, Title V Permit to Operate, Sections 302.6 and 302.7.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 5

Authority: Rule 501, General Permit Requirements § 400 [amended 11/-03/-94]; Rule 507 § 302.6 and § 302.7 [amended 04/-17/-01]

3.9.7. Permit Posting Rule 501

This permit shall be maintained on the premises of the subject equipment.

Origin: Rule 501, General Permit Requirements § 401 [amended 11/-03/-94]

Authority: Rule 501, General Permit Requirements § 401 [amended 11/-03/-94]

3.9.8. Permit Not Permission to Violate Laws Rule 501

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, of the Health and Safety Code of the State of California or the Rules and Regulations of the Air Pollution Control District. The permit(s) cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other governmental agencies.

Origin: Rule 501, General Permit Requirements § 303.6 [amended 11/-03/-94]

Authority: Rule 501, General Permit Requirements § 303.6 [amended 11/-03/-94]

3.9.9. Equipment Must Operate as Specified Rule 501

3.9.9.1a. Operation of equipment must be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise prescribed by conditions. Any operation of equipment or discharge of emissions to the atmosphere not identified by application submittals made to the District or exceeding the limits of the operation pursuant to which a permit is granted, shall be deemed a violation.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 1

Authority: Rule 501, General Permit Requirements § 303.3 [amended 11/-03/-94]

3.9.9.2b. Operation of permitted equipment shall be limited to the maximum rates and schedules of operation, and the specified process materials of approved plans and specifications submitted to the District in application submittals unless otherwise prescribed in the conditions.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 11

Authority: Rule 501, General Permit Requirements § 303.3 [amended 11/-03/-94]

3.9.10. Maintenance Plan Rule 501

The company shall keep an operating and maintenance program subject to the APCO's approval.
Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 23
Authority: Rule 501, General Permit Requirements § 501.c [amended 11/-03/-94]

~~3.10.~~ End Violations Rule 502

Formatted: Indent: Left: 0.13"

~~3.10.1.~~ In the event of any violation of the District Rules and Regulations, Rio Bravo shall take action to end such violation.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 2
Authority: Rule 502, New Source Review [amended 08/-09/-01]

~~3.10.2.~~ Pursuant to District Rule 502, New Source Review, Section 227, the plant manager, or designee, shall report to the District immediately any changes in production rates or operation schedules, changes in operation methods or fuel characteristics, the addition to or removal of permitted equipment, and changes of any facilities or systems installed or used to achieve compliance with the District Rules and Regulations in addition to the terms and conditions of this Permit to Operate.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 4
Authority: Rule 502, New Source Review [amended 08/-09/-01]

~~3.11.~~ Emission Statement Rule 503

Rio Bravo shall provide the District with a written emission statement showing actual emissions of volatile organic compounds and oxides of nitrogen. Pursuant to District Rule 503, Rio Bravo shall submit this emission statement on a form or in a format specified by the Air Pollution Control Officer. The statement shall contain the following information:

~~1. 3.11.1~~ Information contained in the California Air Resources Board's Emission Inventory Turn Around Document as described in Instructions for the Emission Data System Review and Update Report; and

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: Bold

Formatted: Font: (Default) Arial, 10 pt

~~2. 3.11.2~~ Actual emissions of volatile organic compounds and oxides of nitrogen, in tons per year, for the calendar year prior to the preparation of the emission statement; and

Formatted: List Paragraph, Indent: Left: 0.25"

Formatted: Font: (Default) Arial, 10 pt

~~3. 3.11.3~~ Information regarding seasonal or diurnal peaks in the emission of affected pollutants; and

Formatted: Font: Bold

Formatted: Font: (Default) Arial, 10 pt

~~4. 3.11.4~~ Certification by a responsible official of the company that the information contained in the emission statement is accurate to the best knowledge of the individual certifying the emission statement.

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: Bold

Origin: Rule 503, Emission Statement [amended 9/-21/-93]
Authority: Rule 503, Emission Statement [amended 9/-21/-93]

Formatted: Font: (Default) Arial, 10 pt

Formatted: Font: (Default) Arial, 10 pt

~~District Only~~

Formatted: List Paragraph, Indent: Left: 0.63"

Formatted: List Paragraph, Indent: Left: 0.25"

~~3.K12.~~ Federal Operating Permit Program Rule 507

Formatted: Font: Bold

Prior to the transfers of ownership or operational control of a stationary source, the Air Pollution Control Officer must receive a written agreement which specifies a date for the transfer of permit responsibility, coverage, and liability from the current to the prospective owner.

Formatted: Font: (Default) Arial, 10 pt

Origin: Rule 507, Federal Operating Permit Program § 202.4 305 Transfer [amended 04/-17/-01]
Authority: Rule 507, Federal Operating Permit Program § 202.4 Transfer [amended 04/-17/-01]

Formatted: Font: (Default) Arial, 10 pt

Formatted: Underline

~~3.L13.~~ New Source Review (Old) Rule 508

Any source permitted after June 19, 1979, and prior to September 21, 1993, (i.e., was subject to Rule 508, New Source Review, adopted June 19, 1979) is limited to a net increase in emission, after June 19, 1979, of 250 pounds during any day of any pollutant for which there is a national ambient air quality standard, or any precursor of such pollutant, unless BACT and Offsets have been applied and the permit contains enforceable emission limitations.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 24 E
Authority: Rule 508, New Source Review [Adopted 06/19/79]

3.14 National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

Rio Bravo shall comply with the requirements of 40 CFR Part 63 subpart DDDDD.

Effective April 1, 2013 Compliance Date: January 31, 2016.

Origin: 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

Authority: 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources, Industrial, Commercial, and Institutional Boilers and Process Heaters

Formatted: Indent: Left: 0.13"

3.M15: Miscellaneous Federal Requirements

3.15.1. Protection of Stratospheric Ozone

Maintenance, service, repair or disposal of appliances containing ozone depleting compounds as defined in Appendix A and Appendix B to Subpart A of 40 CFR Part 82 shall be performed by persons certified by a technician certification program approved pursuant to 40 CFR Part 82.161.

Origin: 40 CFR Part 82, Protection of Stratospheric Ozone
Authority: 40 CFR Part 82, Protection of Stratospheric Ozone

3.15.2. Chemical Accident Prevention Provisions

If, as defined in 40 CFR Part 68.3, Rio Bravo becomes subject to 40 CFR Part 68, then Rio Bravo shall submit a risk management plan (RMP) by the date specified in 40 CFR Part 68.10. A certification of compliance with this condition shall be included as part of the annual certification required by this Title V permit to operate.

Origin: 40 CFR Part 68, Chemical Accident Prevention Provisions
Authority: 40 CFR Part 68, Chemical Accident Prevention Provisions

3.15.3. National Emission Standards for Hazardous Air Pollutants, Asbestos

For demolition and renovation projects involving material containing Asbestos, Rio Bravo shall comply with the requirements of 40 CFR 61, National Emission Standards for Hazardous Pollutants, Sections 60.145 through 61.147.

Origin: 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants, Subpart M
Authority: 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants, Subpart M

Formatted: Indent: Left: 0.25"

Formatted: Indent: Left: 0.13"

3.N16. Portable Equipment

~~1.~~ Any equipment, including portable equipment, shall comply with all applicable requirements while operating at the facility, including District Permit and Prohibitory Regulations, or be State-registered portable equipment. State-registered portable equipment shall comply with State registration requirements. A copy of the State registration shall be readily available whenever the State-registered portable equipment is at the facility.

Origin: Rule 501, General Permit Requirements and Health and Safety Code Section 41750 et seq.
Authority: Rule 501, General Permit Requirements and Health and Safety Code Section ~~41750~~ 41750 et seq.

District Only

Formatted: Underline

4.0 Standard Terms and Conditions

Formatted: Underline

4.A1. Permit Life/Term

This permit to operate shall expire five years from the time of issuance. Permit expiration terminates Rio Bravo's right to operate unless a timely renewal application is submitted.

Origin: Rule 507, Federal Operating Permit Program § 402.2.p [amended 04/-17/-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.p [amended 04/-17/-01]

4.B2. Payment of Fees

Rio Bravo shall pay all District fees including any supplemental annual fee, as calculated the procedures specified in Section 403 of District Rule 507, on a timely basis. Failure to remit fees on a timely basis shall result in the forfeiture of this permit to operate. Operation without a permit subjects the source to potential enforcement action by the District and the U.S. EPA pursuant to § 502(a) of the Clean Air Act.

Origin: Rule 507, Federal Operating Permit Program § 402.2.o [amended 04/-17/-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.o [amended 04/-17/-01]

4.C3. Right of Entry

The Regional Administrator, the Executive Officer of the California Air Resources Board, the APCO, or their authorized representatives, upon the presentation of credentials, shall be permitted:

4.3.1. 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 to Operate; and

Formatted: Font: Bold

4.3.2. At reasonable times to have access to, inspect and copy any records required to be kept under the terms and conditions of this Permit to Operate; and

Formatted: Font: Bold

4.3.3. To inspect any equipment at the stationary source, operation, work practices, emission-related activities or method required in this Permit to Operate; and

Formatted: Font: Bold

4.3.4. To sample emissions from the source or other monitoring activities.

Formatted: Font: Bold

Origin: Rule 507, Federal Operating Permit Program § 402.2.j [amended 04/-17/-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.j [amended 04/-17/-01]

4.D4. Severability

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

Origin: Rule 507, Federal Operating Permit Program § 402.2.m [amended 04/-17/-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.m [amended 04/-17/-01]

4.E5. Need to Halt or Reduce Activity Not a Defense

Rio Bravo shall not use the "need to halt or reduce a permitted activity in order to maintain compliance" as a defense for non-compliance with any permit condition.

Origin: Rule 507, Federal Operating Permit Program § 402.2.k.4 [amended 04/-17/-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.k.4 [amended 04-17/-01]

4.F6. Modification, Revocation, Reopening for Cause

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a

request by Rio Bravo for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay any permit condition.
Origin: Rule 507, Federal Operating Permit Program § 401.7, 401.8, and 402.2 k.5 [amended 04/-17/-01]
Authority: Rule 507, Federal Operating Permit Program § 401.7, 401.8, and 402.2 k.5 [amended 04/-17/-01]

4.67. Submit Information and Records

Within a reasonable time period, Rio Bravo shall furnish any information requested by the air pollution control officer (APCO) of Placer County Air Pollution Control District, in writing, for the purpose of determining:

4.7.1- Compliance with the permit, or

Formatted: Font: Bold

4.7.2- Whether or not cause exists for a permit or enforcement action.

Formatted: Font: Bold

For information claimed to be confidential, Rio Bravo may furnish such information directly to the APCO along with a claim of confidentiality.

Origin: Rule 507, Federal Operating Permit Program § 402.2.k.6 [amended 04/-17/-01]
Authority: Rule 507, Federal Operating Permit Program § 402.2.k.6 [amended 04/-17/-01]

4.H8. Duty to Comply

Rio Bravo shall comply with provisions of this permit. Any permit noncompliance constitutes grounds for enforcement action; for permit termination, revocation and re-issuance, or modification; or for denial for a permit renewal application.

Origin: Rule 507, Federal Operating Permit Program § 402.2 k.1 and 402.2.k.3 [amended 04/-17/-01]
Authority: Rule 507, Federal Operating Permit Program § 402.2 k.1 and 402.2.k.3 [amended 04/-17/-01]

4.I9. Property Rights

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

Origin: Rule 507, Federal Operating Permit Program § 402.2.k.2 [amended 04/-17/-01]
Authority: Rule 507, Federal Operating Permit Program § 402.2.k.2 [amended 04/-17/-01]

4.J10. Duty to Apply for Renewal

Rio Bravo shall apply for renewal of this permit no earlier than 18 months before the date of expiration nor later than 6 months before the date of expiration.

Origin: Rule 507, Federal Operating Permit Program § 302.4 [amended 04/-17/-01]
Authority: Rule 507, Federal Operating Permit Program § 302.4 [amended 04/-17/-01]

4.K11. Emergency Provisions

4.11.1- Emergency Definition

An "emergency" is any situation arising from a sudden and reasonably unforeseeable event beyond the control of a Rio Bravo (e.g., an act of God) which causes the exceedance of a technology-based emission limitation under a permit and requires immediate corrective action to restore compliance. An "emergency" shall not include noncompliance as a result of improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

Origin: Rule 507, Federal Operating Permit Program §212 [amended 04/-17/-01]
Authority: Rule 507, Federal Operating Permit Program §212[amended 04/-17/-01]

4.11.2. Effect of an Emergency

An emergency constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the reporting requirements have been met.
Origin: 40 CFR 70.6(g)(2)
Authority: 40 CFR 70.6(g)(2)

4.11.3. Affirmative Defense

The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

~~4.11.3.1.~~ Rio Bravo complied with the requirements of Rule 404, Upset conditions, Breakdown and Scheduled Maintenance, and the emergency provisions contained in all applicable federal requirements; and

Formatted: Font: Bold
Formatted: Indent: Left: 0.38"

~~4.11.3.2.~~ That within two weeks of an emergency event, the responsible official submitted to the District a properly signed, contemporaneous log or other relevant evidence which demonstrates that:

Formatted: Font: Bold

~~4.11.3.2.11.~~ An emergency occurred;

Formatted: Font: Bold

~~4.11.3.2.22.~~ Rio Bravo can identify the cause(s) of the emergency;

Formatted: Font: Bold

~~4.11.3.2.33.~~ The facility was being properly operated at the time of the emergency;

Formatted: Font: Bold

~~4.11.3.2.44.~~ All steps were taken to minimize the emissions resulting from the emergency; and

Formatted: Font: Bold

~~4.11.3.2.55.~~ Within two working days of the emergency event, Rio Bravo provided the District with a description of the emergency and any mitigating or corrective actions taken.

Formatted: Font: Bold

Origin: District Rule 507, Federal Operating Permit Program §402.2.1 [amended 04/17/01]
Authority: District Rule 507, Federal Operating Permit Program §402.2.1 [amended 04/17/01]

4.11.4. Burden of Proof

In any enforcement proceeding, Rio Bravo has the burden of proof for establishing that an emergency occurred.

Origin: Rule 507, Federal Operating Permit Program § 402.2.1.3 [amended 04/17/01]
Authority: Rule 507, Federal Operating Permit Program § 402.2.1.3 [amended 04/17/01]

4.12. Voluntary Emissions Caps

To the extent applicable federal requirements provide for averaging emissions increases and decreases within a stationary source without case-by-case approval, a responsible official may request, subject to approval by the Air Pollution Control Officer, to permit one or more emissions unit(s) under a voluntary emissions cap. The permit for each emissions unit shall include federally-enforceable conditions requiring that:

~~4.12.1.~~ All applicable federal requirements, including those authorizing emissions averaging, are complied with;

Formatted: Font: Bold
Formatted: Indent: Left: 0.25"

~~4.12.2.~~ No individual emissions unit shall exceed any emissions limitation, standard, or other requirement;

Formatted: Indent: Left: 0.5", Hanging: 0.19"
Formatted: Font: Bold

~~4.12.3.~~ Any emissions limitation, standard, or other requirement shall be enforced through continuous emission monitoring, where applicable; and

Formatted: Indent: Left: 0.25"
Formatted: Indent: Left: 0.5", Hanging: 0.19"
Formatted: Font: Bold
Formatted: Indent: Left: 0.25"

4.12.4. All affected emissions units under a voluntary emissions cap shall be considered to be operating in violation of the permit, if the voluntary emissions cap is exceeded.

Origin: Rule 507, Federal Operating Permit Program § 402.2.r [amended 04/17/01]
Authority: Rule 507, Federal Operating Permit Program § 402.2.r [amended 04/17/01]

Formatted: Indent: Left: 0.5", Hanging: 0.19"

Formatted: Font: Bold

Formatted: Indent: Left: 0.25"

4.M13. Agency Addresses

Notifications or correspondence as required by this Title V Permit To Operate shall be forwarded to the following addresses:

1. Director, Air and Toxics Division (Attn.: A-3-3)
U.S Environmental Protection Agency 75 Hawthorne Street
San Francisco, CA 94105

Formatted: Indent: Left: 0.75", No bullets or numbering

Formatted: Indent: Left: 0.75"

2. Air Pollution Control Officer
Placer County Air Pollution Control District
~~3091 County Center Drive, Suite 240110 Maple Street~~
Auburn, CA 95603

Formatted: Indent: Left: 0.75", No bullets or numbering

Formatted: Indent: Left: 0.75"

Formatted: Indent: Left: 0.38", First line: 0.38"

Formatted: Indent: Left: 0.75"

Origin: General Information
Authority: General Information

4.N14. Reopening Permit for Cause

This permit shall be reopened and revised under any of the following circumstances including, but are not limited to, the following:

4.14.a1. The need to correct a material mistake or inaccurate statement;

Formatted: Font: Bold

4.14.b2. The need to revise or revoke a permit to operate to assure compliance with applicable federal requirements;

Formatted: Indent: Left: 0.25"

Formatted: Indent: Left: 0.5"

Formatted: Indent: Left: 0.25"

4.14.c3. The need to incorporate any new, revised, or additional applicable federal requirements, if the remaining authorized life of the permit is 3 years or greater, no later than 18 months after the promulgation of such requirement (where less than 3 years remain in the authorized life of the permit, the Air Pollution Control Officer shall incorporate these requirements into the permit to operate upon renewal).

Formatted: Font: Bold

Formatted: Indent: Left: 0.5", Hanging: 0.19"

Formatted: Font: Bold

Formatted: Indent: Left: 0.25"

Origin: Rule 507, Federal Operating Permit Program § 401.8 [amended 04/17/01]
Authority: Rule 507, Federal Operating Permit Program § 402.1.8 [amended 04/17/01]

4.O15. Permit Revision Exemption

No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

Origin: Rule 507, Federal Operating Permit Program § 402.2.u [amended 04/17/01]
Authority: Rule 507, Federal Operating Permit Program § 402.2.u [amended 04/17/01]

4.P16. Permit Shield

Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

~~4.16.1:~~ Such applicable requirements are included and are specifically identified in this permit; or

Formatted: Font: Bold

~~4.16.2:~~ In acting on this permit application or revision, the District determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

Formatted: Indent: Left: 0.25"

Formatted: Font: Bold

Origin: 40 CFR Part 70.6(f)
Authority: 40 CFR Part 70.6(f)

~~4.Q-17 Requirement for an Indemnification Agreement~~

Rio Bravo has an obligation to defend and indemnify the District against third party challenges in accordance with District Rule 411.

Origin: Rule 411, Indemnification of District [Adopted 02/-14/-08]
Authority: Rule 411, Indemnification of District [Adopted 02/-14/-08]

~~District Only~~

Formatted: Underline

Formatted: Indent: Left: 0.13"

5. Alternative Scenarios

5.1 Upset Conditions

The following alternative operating scenario is for equipment experiencing an unforeseen breakdown that may result in excess emissions for a short period of time (i.e. less than 48 hours).

There may be periods when Rio Bravo facility will be operated pursuant to the requirements of the Rule 404 (Upset Conditions, Breakdown or Scheduled Maintenance) and/or the Emergency Provisions under 40 CFR 70.6(g). During these times, Rio Bravo will comply with all the relevant notification, monitoring, reporting and record keeping requirements contained in Rule 404 and 40 CFR 70.6(g).

5.2. Alternative Boiler Fuels

Rio Bravo may operate the boiler firing on three additional alternative boiler fuels. Proposed alternative fuels include:

1. Refuse derived fuel (RDF) or RDF co-fired with biomass;
2. Landfill gas or landfill gas co-fired with biomass; and
3. Petroleum coke or petroleum coke co-fired with biomass.

Before using alternative fuel, Rio Bravo will seek and receive authorization from the District. In addition, Rio Bravo will maintain a contemporaneous log to record each change of fuels being fired. Rio Bravo will comply with all applicable requirements at all times with the boiler operating on all approved fuels.

Origin: Rule 507, Federal Operating Permit Program § 402.2.q [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.q [amended 04-17-01]

6. Monitoring, Testing, and Recordkeeping

6.A1. General Monitoring Frequency, Record Keeping and Reporting and Testing Requirements

All monitoring, analytical methods, compliance certification, test methods, equipment management, and statistical procedures shall be consistent with any applicable federal requirement, including those pursuant to Sections 114(a)(3) and 504(b) of the Federal Clean Air Act, and 40 CFR Part 64.

56.1.1. Monitoring Frequency

Monitoring (sampling, testing, recording) shall be performed at a frequency sufficient to yield accurate, reliable, and representative data with which the source's compliance with applicable limits or conditions can be demonstrated.

~~56.1.1.1~~ All monitoring data and records must be kept during startup and shutdown, including the duration of startup and shutdown.

~~Effective January 31, 2016.~~

~~Origin: 40 CFR Part 63 Subpart DDDDD. National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.~~

~~Authority: 40 CFR Part 63 Subpart DDDDD. National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.~~

Formatted: Font: Bold

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Indent: Left: 0.38"

56.1.2. Record Keeping

~~a.56.1.2.1~~ Rio Bravo shall:

~~(1)1-~~ Maintain records of all required monitoring data and support information associated with any applicable federal requirement in form suitable for inspection including:

- ~~(a)1-~~ Date, place, and time of sampling;
- ~~(b)1-~~ Operating conditions at the time of sampling;
- ~~(c)1-~~ Date, place, and method of analysis; and
- ~~(d)1-~~ The company or entity that performed the analyses;
- ~~(e)1-~~ Results of the analysis;
- ~~(f)1-~~ Copies of all reports as required by applicable federal requirements; and

Formatted: Indent: Left: 1", Hanging: 0.25"

Formatted: Indent: Left: 1.13"

~~(2)2-~~ Comply with all record-keeping requirements deemed necessary by the Air Pollution Control Officer to ensure compliance with all applicable federal requirements.

Formatted: Indent: Left: 1", Hanging: 0.25"

Note: Support information includes information on Continuous Monitoring Equipment operations including:

- ~~(a)1-~~ All calibration and maintenance records; and
- ~~(b)1-~~ All original recordings for continuous monitoring instrumentation; and
- ~~(c)1-~~ Performance and all other information required by 40 CFR 60.

Formatted: Indent: Left: 0.88", Hanging: 0.31"

Formatted: Indent: Left: 0.88", Hanging: 0.38"

Formatted: Indent: Left: 0.75", Hanging: 0.38"

Formatted: Indent: Left: 1.13"

Origin: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]
Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

~~b.56.1.2.2~~ All records shall be made available to the District's inspector upon request.

Origin: Rule 501, General Permit Requirements § 503.1 [amended 11/03/94]
Authority: Rule 501, General Permit Requirements § 503.1 [amended 11/03/94]

~~e56.1.2.3:~~ All required monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application.

Origin: Rule 507, Federal Operating Permit Program § 402.2.f.3 [amended 04/17/01]
Authority: Rule 507, Federal Operating Permit Program § 402.2.f.3 [amended 04/17/01]

56.1.3. Reporting

56.1.3.1 Rio Bravo shall:

(a1-) Promptly report to the Air Pollution Control Officer any deviation from permit requirements, including that attributable to upset conditions (as defined in District Rule 404). All reports of a deviation from permit requirements shall include the probable cause of the deviation and any preventative or corrective action taken.

(b2-) Submit monitoring reports at least every six months identifying deviation from permit requirements, including those previously reported to the Air Pollution Control Officer in accordance with Subsection **656.A1.3.a1.(1)**. Monitoring reports shall be submitted within 45 days of the end of the reporting period (Reporting periods are January 1 - June 30 and July 1 - December 31). Each monitoring report shall be accompanied by a written statement from the responsible official **whichwho** certifies the truth, accuracy, and completeness of the report.

(e3-) Submit compliance schedule progress reports on any compliance schedule at least semi-annually. Progress schedule reports shall include;

(1a-) The date when compliance will be achieved,

(2b-) An explanation of why compliance was not, or will not be, achieved by the scheduled date, and

(3c-) A log of any preventative or corrective action taken.

Origin: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/-17/-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/-17/-01]

56.1.3.1 Reports will be submitted to EPA Region 9 and the District with information required in 40 CFR Part 63, Subpart DDDDD (including § 63.7550(c)(1) through (5)). Effective January 31, 2016.

Origin: 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources, Industrial, Commercial, and Institutional Boilers and Process Heaters.

Authority: 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources, Industrial, Commercial, and Institutional Boilers and Process Heaters.

56.1.4- Testing

56.1.4.a1- The District may require the conduct of any emissions testing or analysis deemed necessary to demonstrate compliance with applicable requirements. If the District determines that tests are required, a written notice will be provided to Rio Bravo.

Origin: Rule 501, General Permit Requirements § 303 [amended 11/-03/-94]

Authority: Rule 501, General Permit Requirements § 303 [amended 11/-03/-94]

56.1.4.b2- Except as otherwise specified in District rules, regulations, or permit conditions the test methods used for determining compliance with emission limits shall be from:

156.1.4.2.1- Methods adopted by the California Air Resources Board and cited in Title 17, California Code of Regulations, Division 3, Subchapter 8, Compliance with Non-vehicular Emission Standards; or

256.1.4.2.2- Methods identified in 40 CFR part 50, Appendix M, Recommended Test Methods for State Implementation Plans; or

356.1.4.2.3- Methods identified in 40 CFR part 60, Appendix A, Test Methods; or

456.1.4.2.4- Any alternative method approved by the Air Pollution Control Officer.

Note: The Air Pollution Control Officer shall request the review of the alternate test methods by the U.S. Environmental Protection Agency and the California Air Resources Board.

Origin: Rule 501, General Permit Requirements § 501.1 [amended 11/-03/-94]

Formatted: Font: Bold

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Indent: Left: 1", Hanging: 0.25"

Formatted: Indent: Left: 1", Hanging: 0.25"

Formatted: Indent: Left: 1", Hanging: 0.25"

Formatted: Indent: Left: 1.13", Hanging: 3"

Formatted: Indent: Left: 1.13", Hanging: 0.19"

Formatted: Indent: Left: 1.13", Hanging: 3"

Formatted: Font: Bold

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Font: Not Bold

Formatted: Font: Bold

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Font: Not Bold

Formatted: Font: Bold

Authority: Rule 501, General Permit Requirements § 501.1 [amended 11/03/94]

~~56.1.4.e3:~~ All required testing shall be subject to the following:

~~156.1.4.3.1:~~ At least thirty (30) days prior to the actual testing, a written test plan shall be submitted to the Air Pollution Control Officer detailing the sampling methods, analytical methods or detection principles to be used. The prior written approval of the Air Pollution Control Officer is required for the use of alternate test methods.

~~256.1.4.3.2:~~ Independent testing contractors and analytical laboratories shall be Air Resources Board certified to perform the test or analysis conducted.

~~356.1.4.3.3:~~ Testing shall be conducted as close as achievable to the maximum process rates or the permitted rates resulting in maximized air pollutant emission rates.

~~456.1.4.3.4:~~ The conditions and equipment in operation during testing shall be recorded. Installed instrumentation readings for parameters affecting emission character or extent shall be recorded.

~~565.1.4.3.5:~~ The test evaluation results shall be reported to the District within sixty (60) days of testing.

Origin: Rule 501, General Permit Requirements § 501.1 [amended 11/03/94]
Authority: Rule 501, General Permit Requirements § 501.1 [amended 11/03/94]

656.B2- Specific Monitoring

56.2.1- Boiler Continuous Emissions Monitoring Systems (CEMS)

~~a.56.2.1.1~~ The following Continuous Emissions Monitoring System (CEMS) instruments shall be calibrated, maintained, and operated in accordance with the manufacturer's recommendations, 40 CFR 60.13, and District Rules 408, Source Record Keeping and Reporting and 501, General Permit Requirement:

- ~~(1):~~ A transmissometer with data acquisition system for the measurement and recording of opacity in the boiler stack discharge.
- ~~(2):~~ An oxygen concentration monitor in the boiler stack discharge with data recorder.
- ~~(3):~~ An oxides of nitrogen concentration monitor in the boiler stack discharge with data recorder.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 29
Authority: Rule 233, Biomass Boilers § 502 [amended 10/6/14/9412]

~~b.56.2.1.2~~ The nitrogen oxides emission rates measured by the continuous nitrogen oxides monitor shall be expressed in ng/J or lb/million Btu heat input and shall be used to calculate the 1-hour average emission rates. The 1-hour averages shall be calculated using at least 2 data points for each 1-hour average.

Origin: 40 CFR §60.48b(d)
Authority: 40 CFR §60.48b(d)

~~e.56.2.1.3~~ When the CEMS is not operational, NOx emissions are to be measured by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.
Origin: 40 CFR §60.48b(f)

Formatted: Font: Bold

Formatted: Font: Not Bold

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Indent: Left: 0.5", First line: 0"

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Indent: Left: 0.5", First line: 0"

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Indent: Left: 0.5", First line: 0"

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Indent: Left: 0.13"

Formatted: Indent: Left: 0.25"

Formatted: Indent: Left: 1", Hanging: 0.25"

Formatted: Indent: Left: 1"

Formatted: Indent: Left: 1", Hanging: 0.19"

Authority: 40 CFR §60.48b(f)

4-56.2.1.4 In the event of a breakdown of monitoring equipment, Rio Bravo shall notify the District and initiate repairs. Rio Bravo shall notify the District of the intent to shut down any monitoring equipment at least 24 hours prior to the event (Rule 507). A breakdown of monitoring equipment or shutdown for scheduled maintenance which persists longer than ninety-six (96) hours shall constitute a violation of any applicable emission limitation or restriction prescribed by District Rules and Regulations, unless Rio Bravo has obtained an Emergency Variance pursuant to Rule 404.

Origin: Rule 233, Biomass Boilers § 502 [amended [406/-614/-9412](#)]
Authority: Rule 233, Biomass Boilers § 502 [amended [406/-614/-9412](#)]

56.2.2. Boiler Sampling Port, Platforms, and Access

For performance test purposes, sampling ports, platforms, and access shall be provided by Rio Bravo on the boiler exhaust system in accordance with 40 CFR 60.8(e).

Origin: 40 CFR 60.8(e)
Authority: 40 CFR 60.8(e)

656.C3- Logs

56.3.1- Rio Bravo shall maintain the following logs:

Equipment	Process logged
Facility	schedule of operation hours/day, days/week, and weeks/year
Boiler	Total hours of boiler operation.
Boiler	Total solid fuel consumed, wood secondary material waste (or RDF or petroleum coke, if approved) in dry tons, estimated average BTU value and average moisture content (in % H2O by weight) and total natural gas (landfill gas if approved) in dry standard cubic feet and estimated average BTU value.
Boiler	Total hours of boiler operation (excluding periods of upset and violations) and the estimated total emission and average daily emission of particulate matter, oxides of nitrogen, sulfur oxides, non-methane hydrocarbon, and carbon monoxide.
Facility	Total hours of upset operation pursuant to District Rule 404 and hours in violation of emission limits (identify violation). Total estimated emission, average daily emission, and average hourly emission, of particulate matter, oxides of nitrogen, sulfur oxides, non-methane hydrocarbon, and carbon monoxide, for upsets and violations.
Facility	Total wood secondary material waste fuel in inventory onsite, in dry tons, and the estimated average moisture content (in percent-% H2O by weight).
Ammonia injection system	Total anhydrous ammonia consumed in pounds and the average ammonia injection rate in pounds NH3 per hour.
<u>Sand Recycling System</u>	<u>Daily quantity of material processed.</u>

Formatted: Indent: Left: 0.13"

Formatted: Indent: Left: 0.25"

Formatted: Space After: 2.9 pt, Line spacing: single

Formatted Table

Formatted: Centered

Formatted: Space After: 2.9 pt, Line spacing: single

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 33
Authority: Rule 501, General Permit Requirements § 503.1.a [amended 11/03/94]

56.3.2- Data shall be maintained and summary reports submitted to the District on forms or formats furnished by the District.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 31
Authority: Rule 501, General Permit Requirements § 503.1.a [amended 11/03/94]

56.3.3- Rio Bravo shall establish and maintain a log book or other record detailing the performance and date of preventive maintenance, corrective maintenance, and inspections, as well as reporting breakdowns (per District Rule 404, Upset, Breakdown and Scheduled Maintenance).

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 14
Authority: Rule 501, General Permit Requirements § 503.1.a [amended 11/03/94]

56.3.4- Boiler Logs

a.56.3.4.1 Rio Bravo shall keep/log (for 5 years) the following boiler information:

- (1)- Calendar date of record.
- (2)- Number of hours the unit is operated during each day.
- (3)- Boiler load.
- (4)- Fuel types, including supplementary gaseous or liquid fuels.
- (5)- Duration of startups and shutdowns.
- (6)- Type and duration of maintenance and repairs.
- (7)- Results of compliance tests.
- (8)- Three-hour average NOx emission concentration (expressed as NO2 and corrected to 12 percent by volume stack gas CO2).
- (9)- Three-hour average CO emission concentration (corrected to 12 percent by volume stack gas CO2). Identification of time periods during which NOx and CO emission limitations are exceeded, the reason for the exceedance, and a description of corrective action taken.
- (10)- Identification of time periods during which operating condition and pollutant emission data were not obtained, the reason for not obtaining this information, and a description of corrective action taken.

Origin: Rule 233, Biomass Boilers § 502 [amended 106/614/9412]
Authority: Rule 233, Biomass Boilers § 502 [amended 106/614/9412]

b.56.3.4.2 Rio Bravo shall keep/log (for 5 years) the following boiler information:

- (1)- Calendar date.
- (2)- The average hourly nitrogen oxides emission rates (expressed as NO2) (ng/J or lb/million Btu heat input) measured or predicted.
- (3)- The 30-day average nitrogen oxides emission rates (ng/J or lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.
- (4)- Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emissions limit, with the reasons for such excess emissions as well as a description of corrective actions taken.
- (5)- Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.
- (6)- Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.
- (7)- Identification of "F" factor used for calculations, method of determination, and type

Formatted: Indent: Left: 0.38"

Formatted: Indent: Left: 1"

Formatted: Indent: Left: 1", Hanging: 0.25"

Formatted: Indent: Left: 0.38"

Formatted: Indent: Left: 0.38"

Formatted: Indent: Left: 1"

Formatted: Indent: Left: 1", Hanging: 0.25"

of fuel combusted.

- (8) - Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system.
- (9) - Description of any modifications to the continuous monitoring system that could affect the ability of the continuous monitoring system to comply with Performance Specification 2 or 3.
- (10) - Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40 CFR 60 appendix F, Procedure 1.

Origin: 40 CFR 60.49(b)g
Authority: 40 CFR 60.49(b)g

Formatted: Indent: Left: 1", Hanging: 0.31"

Formatted: Indent: Left: 0.38"

656.D4.- Compliance Assurance

Formatted: Indent: Left: 0.13"

56.4.1- Boiler Compliance

The Continuous Emissions Monitoring System may be used to demonstrate compliance or noncompliance with applicable emissions limitations.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 30
Authority: Rule 233, Biomass Boilers § 502 [amended 106/-614/-9412]

56.4.2- Boiler Opacity

The transmissometer and its records may constitute proof of compliance or noncompliance with District Rule 202, Visible Emissions notwithstanding visible emissions evaluation determinations made by enforcement authorities.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 30
Authority: Rule 233, Biomass Boilers § 502 [amended 106/-614/-9412]

56.4.3- Annual Boiler Performance Tests

a. 56.4.3.1 Rio Bravo shall conduct or cause to be conducted, performance tests to determine compliance with District Rules and Regulations.

Formatted: Indent: Left: 0.38"

Formatted: Font: Bold

b. 56.4.3.2 Boiler performance tests for NOx, CO, and PM shall be conducted on an annual basis while the boiler is operated within 10% of the maximum steady-state steam production rate of 230,000 pounds per hour.

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Indent: Left: 0.38"

c. 56.4.3.3 Upon written request, the District may approve testing the emission unit(s) at a lower operating capacity.

Formatted: Font: 10 pt

Formatted: Indent: Left: 0.38"

Origin: Rule 501, General Permit Requirements § 304 [amended 11/-03/-94]
Authority: Rule 501, General Permit Requirements § 304 [amended 11/-03/-94]

Formatted: Font: Bold

Formatted: Font: Bold

56.4.4 40 CFR Part 63 Subpart DDDDD Performance Testing

Formatted: Font: Bold

56.4.4.1 Conduct annual performance testing to meet filterable PM, HCl, and Hg emission limits. Testing must be completed no more than 13 months after the previous test. Performance testing may be conducted every 37 months for a given pollutant if, for at least 2 consecutive annual tests, emissions are less than 75% of the limit.

Formatted: Font: Not Bold

Formatted: Indent: Left: 0.38"

56.4.4.2 Performance testing must be conducted under representative conditions while burning fuels that have the highest content of chlorine and mercury. Effective January 31, 2016.

Formatted: Font: Bold

Formatted: Font: Bold

Origin: 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources, Industrial, Commercial, and Institutional Boilers and Process Heaters.

Formatted: Font: Not Bold

Authority: 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources, Industrial, Commercial, and Institutional Boilers and Process Heaters.

Formatted: Indent: Left: 0.38"

Formatted: Font: Not Bold

56.4.45. Compliance Assurance Monitoring Plan

Rio Bravo shall comply with the monitoring provisions contained in the most recent Compliance Assurance Monitoring Plan approved in writing by the District.

Origin: 40 CFR Part 64

Authority: 40 CFR 70.6(c)(5)(iii)(C); 40 CFR Part 64

656.E5. Reports

56.5.1. Quarterly CEM Excess Emissions and Performance Reporting

56.5.1.1a. Rio Bravo shall submit an excess emissions and monitoring systems performance report to the Air Pollution Control Officer within 30 days of the end of each calendar quarter in accordance with 40 CFR 60, Section 60.7(c) and (d) and Section 60.13.

Origin: Rule 233, Biomass Boilers § 502.3 [amended 106/-614/-9412]

Authority: Rule 233, Biomass Boilers § 502.3 [amended 106/-614/-9412]

56.5.1.2b. The information obtained by oxides of nitrogen concentration monitor in the boiler stack shall be reduced to hourly emissions and shall be subject to the reporting requirements of Rule 408, Source Record Keeping and Reporting.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 29

Authority: Rule 233, Biomass Boilers § 502 [amended 106/-614/-9412]

56.5.2. Annual Fuel Use and Capacity Factor Report

Rio Bravo a written report to EPA and the District of annual fuel use and capacity factors as required by 40 CFR §60.49b(d).

Origin: 40 CFR §60.49b(d)

Authority: 40 CFR §60.49b(d)

56.5.3 NOx/CO Alternative Compliance Limits for Startup and Shutdown

All startup and shutdown periods, as defined in Rule 233, during which the NOx emissions exceed 115 ppmv corrected to 12% CO2 on a three hour rolling average, or CO emissions exceed fifty-six (56) pounds per hour on a three hour rolling average; and all startup and shutdown periods, as defined in Conditions 2.1.1.5.1 and 2.1.1.5.2, when there is a violation of Rule 202, shall be reported to the District in a report submitted quarterly. The report shall identify time periods and dates of shutdowns and startups, and the reason for each shutdown. If the alternative emission limits provided by Rule 233 Section 302 (a) or (b), and/or Rule 203 A.12 are exceeded, the report shall also identify the corrective action taken. The report shall be submitted to the Air Pollution Control Officer within 30 days of the end of each calendar quarter and may be submitted concurrently with the excess emissions and monitoring systems performance report required by 40 CFR 60, Section 60.7 (c) and (d) and Section 60.13.

Origin: PTO RIOB-90-01 [Issued 1/13/00] Condition 30

Authority: Rule 233, Biomass Boilers [amended 6/14/12]

Formatted: Indent: Left: 0.13"

Formatted: Indent: Left: 0.25"

Formatted: Indent: Left: 0.25"

Formatted: Font: (Default) Arial, 10 pt

7. Compliance Plan and Certification

76.A1. Compliance Plan

Rio Bravo shall follow the compliance plan as submitted with the Title V Permit application. A copy of this compliance plan shall be attached and posted along with this permit.
Origin: Rule 507, Federal Operating Permit Program § 402.2.h [amended 04/17/01]
Authority: Rule 507, Federal Operating Permit Program § 402.2.h [amended 04/17/01]

Formatted: Indent: Left: 0.13"

Formatted: Indent: Left: 0.13"

767.B2. Compliance Certification

Rio Bravo shall submit compliance certification reports to the U.S. EPA and the APCO every twelve (12) months. The certification report shall:

Formatted: Indent: Left: 0.13"

Formatted: Indent: Left: 0.13"

67.2.1. Identify all permit terms or conditions and the means of monitoring each term or condition.

Formatted: Font: Bold

67.2.2. Include the compliance status and method(s) used to determine compliance for the current time period and over the entire reporting period of each term or condition.

Formatted: Indent: Left: 0.25"

Formatted: Font: Bold

67.2.3. Include any additional inspection, monitoring, or entry requirement that may be promulgated pursuant to Sections 114(a) and 504(b) of the Federal Clean Air Act between reports.

Formatted: Font: Bold

67.2.4. Be submitted on District approved forms for the compliance certification.

Formatted: Font: Bold

67.2.5. Be submitted within 45 days after the end of the reporting period of January 1-December 31.

Formatted: Font: Bold

Formatted: Font: Bold

The responsible official will certify in writing the truth, accuracy, and completeness of the certification report.

Formatted: Font: Bold

Origin: Rule 507, Federal Operating Permit Program § 402.2.n [amended 04/17/01]
Authority: Rule 507, Federal Operating Permit Program § 402.2.n [amended 04/17/01]

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Indent: Left: 0.13"

767.C3. Compliance Schedules

Formatted: Indent: Left: 0.13"

67.3.1. Should any emissions unit in compliance with applicable federal requirements become non-compliant during the certification period, Rio Bravo shall develop and submit to the District a compliance schedule. The compliance schedule shall:

Formatted: Font: Bold

Formatted: Indent: Left: 0.25"

Formatted: Font: Bold

67.3.1.1. Resemble and be at least as stringent as that contained in any judicial consent decree, administrative order, or schedule approved by the District hearing board.

Formatted: Font: Bold

Formatted: Indent: Left: 0.38"

67.3.1.2. Include:

Formatted: Font: Bold

- (1): A statement that the emissions unit will continue to comply with those federal requirements with which it is still in compliance;
- (2): A statement that the emissions unit will comply, on a timely basis, with any applicable federal requirement that may become effective during the remaining term of this permit.
- (3): A list of all preventative or corrective actions or activities taken or proposed to be taken, and the dates when these activities have or will be performed and completed.

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Indent: Left: 1.25"

Formatted: Indent: Left: 1.25"

The compliance schedule, once approved by the District, shall be incorporated into the compliance certification plan and the revised plan affixed to this permit.

Formatted: Indent: Left: 1.25"

Formatted: Indent: Left: 0.25"

67.3.2. Rio Bravo shall submit progress reports consistent with the applicable compliance schedule at least semiannually, or more frequently if specified in the applicable schedule requirements or requested by the District. Progress reports shall include:

(a1). Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and; ~~and The the dates performed and completed when compliance will be achieved;~~

(b2). A log or record of dates when such activities, milestones or compliance were achieved; and

~~(c3).~~ An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted or taken.

Origin: Rule 507, Federal Operating Permit Program § 402.2.i [amended 04/17/01]
Authority: Rule 507, Federal Operating Permit Program § 402.2.i [amended 04/17/01]

Formatted: Font: Bold

Formatted: Indent: Left: 0.25"

Formatted: Font: Bold

Formatted: Indent: Left: 0.38", Hanging: 0.25"

Formatted: Indent: Left: 0.38"

Formatted: Indent: Left: 0.38", Hanging: 0.25"

Formatted: Indent: Left: 0.13"

Page 10: [1] Formatted	dbuck	5/22/2014 10:54:00 AM
Font: Not Bold		
Page 10: [2] Formatted	dbuck	9/9/2014 9:04:00 AM
List Paragraph, Indent: Left: 0.88"		
Page 10: [3] Formatted	dbuck	9/9/2014 9:05:00 AM
Font: Bold		
Page 10: [4] Formatted	dbuck	9/9/2014 9:06:00 AM
List Paragraph		
Page 10: [5] Formatted	dbuck	5/22/2014 10:54:00 AM
Font: Not Bold		
Page 10: [5] Formatted	dbuck	5/22/2014 10:54:00 AM
Font: Not Bold		
Page 10: [5] Formatted	dbuck	5/22/2014 10:54:00 AM
Font: Not Bold		
Page 10: [6] Formatted	dbuck	9/9/2014 9:05:00 AM
Normal, Indent: Left: 0.88", No bullets or numbering		
Page 10: [7] Formatted	dbuck	9/9/2014 9:05:00 AM
Font: (Default) Arial, 10 pt, Bold		
Page 10: [8] Formatted	dbuck	9/9/2014 12:27:00 PM
Normal, Indent: Left: 0.5", No bullets or numbering		
Page 10: [9] Formatted	dbuck	9/9/2014 9:04:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [9] Formatted	dbuck	9/9/2014 9:04:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [9] Formatted	dbuck	9/9/2014 9:04:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [9] Formatted	dbuck	9/9/2014 9:04:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [9] Formatted	dbuck	9/9/2014 9:04:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [10] Formatted	dbuck	9/9/2014 9:05:00 AM
List Paragraph, Indent: Left: 0.88"		
Page 10: [11] Formatted	dbuck	9/9/2014 9:05:00 AM
Font: Bold		
Page 10: [12] Formatted	dbuck	9/9/2014 9:06:00 AM
List Paragraph		

Page 10: [13] Formatted	dbuck	9/2/2014 3:52:00 PM
Font: (Default) Arial, 10 pt		
Page 10: [13] Formatted	dbuck	9/2/2014 3:52:00 PM
Font: (Default) Arial, 10 pt		
Page 10: [13] Formatted	dbuck	9/2/2014 3:52:00 PM
Font: (Default) Arial, 10 pt		
Page 10: [13] Formatted	dbuck	9/2/2014 3:52:00 PM
Font: (Default) Arial, 10 pt		
Page 10: [13] Formatted	dbuck	9/2/2014 3:52:00 PM
Font: (Default) Arial, 10 pt		
Page 10: [14] Formatted	dbuck	5/22/2014 10:54:00 AM
Font: Not Bold		
Page 10: [15] Formatted	dbuck	5/15/2014 1:45:00 PM
Indent: Left: 0.38"		
Page 10: [16] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [16] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [17] Formatted	dbuck	9/9/2014 9:16:00 AM
List Paragraph, Indent: Left: 0.88"		
Page 10: [18] Formatted	dbuck	9/9/2014 9:16:00 AM
Font: Bold		
Page 10: [19] Formatted	dbuck	9/9/2014 9:17:00 AM
List Paragraph		
Page 10: [20] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [20] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [20] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [21] Formatted	dbuck	9/9/2014 9:16:00 AM
List Paragraph, Indent: Left: 0.88"		
Page 10: [22] Formatted	dbuck	9/9/2014 9:16:00 AM
Font: Bold		
Page 10: [23] Formatted	dbuck	9/9/2014 9:17:00 AM
List Paragraph		
Page 10: [24] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		

Page 10: [24] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [24] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [25] Formatted	dbuck	9/9/2014 9:16:00 AM
List Paragraph, Indent: Left: 0.88"		
Page 10: [26] Formatted	dbuck	9/9/2014 9:16:00 AM
Font: Bold		
Page 10: [27] Formatted	dbuck	9/9/2014 9:17:00 AM
List Paragraph		
Page 10: [28] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [28] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [28] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [29] Formatted	dbuck	9/9/2014 9:16:00 AM
List Paragraph, Indent: Left: 0.88"		
Page 10: [30] Formatted	dbuck	9/9/2014 9:17:00 AM
Font: Bold		
Page 10: [31] Formatted	dbuck	9/9/2014 9:17:00 AM
List Paragraph		
Page 10: [32] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [32] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [32] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [33] Formatted	dbuck	9/9/2014 9:16:00 AM
List Paragraph, Indent: Left: 0.88"		
Page 10: [34] Formatted	dbuck	9/9/2014 9:17:00 AM
Font: Bold		
Page 10: [35] Formatted	dbuck	9/9/2014 9:17:00 AM
List Paragraph		
Page 10: [36] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [36] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		

Page 10: [36] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [36] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [37] Formatted	dbuck	9/9/2014 9:16:00 AM
List Paragraph, Indent: Left: 0.88"		
Page 10: [38] Formatted	dbuck	9/9/2014 9:17:00 AM
Font: Bold		
Page 10: [39] Formatted	dbuck	9/9/2014 9:17:00 AM
List Paragraph		
Page 10: [40] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [40] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [40] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [40] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [41] Formatted	dbuck	9/2/2014 3:11:00 PM
List Paragraph, Indent: Left: 0.63", Hanging: 0.25"		
Page 10: [42] Formatted	dbuck	9/9/2014 9:17:00 AM
Font: Bold		
Page 10: [43] Formatted	dbuck	9/9/2014 9:18:00 AM
List Paragraph		
Page 10: [44] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [44] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [44] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [44] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [45] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: Not Bold		
Page 10: [46] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		
Page 10: [46] Formatted	dbuck	5/22/2014 10:55:00 AM
Font: (Default) Arial, 10 pt		

Page 10: [46] Formatted dbuck 5/22/2014 10:55:00 AM

Font: (Default) Arial, 10 pt

Page 10: [46] Formatted dbuck 5/22/2014 10:55:00 AM

Font: (Default) Arial, 10 pt

Page 10: [46] Formatted dbuck 5/22/2014 10:55:00 AM

Font: (Default) Arial, 10 pt

Page 10: [46] Formatted dbuck 5/22/2014 10:55:00 AM

Font: (Default) Arial, 10 pt

Page 10: [46] Formatted dbuck 5/22/2014 10:55:00 AM

Font: (Default) Arial, 10 pt

Page 10: [46] Formatted dbuck 5/22/2014 10:55:00 AM

Font: (Default) Arial, 10 pt

Page 10: [46] Formatted dbuck 5/22/2014 10:55:00 AM

Font: (Default) Arial, 10 pt