



APR 16 2012

Mark de Castro
Madera Power, LLC
PO Box 305
Firebaugh, CA 93622-0305

Re: Notice of Minor Title V Permit Modification
District Facility # C-799
Project # C-1102181

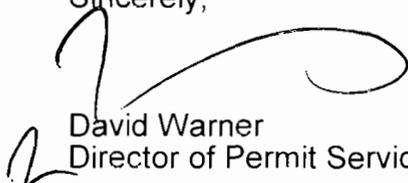
Dear Mr. de Castro:

Enclosed is the District's analysis of your application for minor Title V permit modification for the facility identified above. You proposed a Title V minor permit modification to incorporate recently issued Authorities to Construct C-799-1-6, -1-7, -3-14, -3-15, -6-0, -6-1, -7-0, -7-1, -8-0 and -8-1 into the Title V operating permit. The facility proposes to modify the existing fuel storage and feed system (Permit Unit -1) by installing a grinding operation served by a dust collection system and including the unit in a specific limiting condition with units -3, -6, -7 and -8 and modifying the existing boiler/generator (Permit Unit -3) by including the unit in a specific limiting condition with units -1, -6, -7 and -8. The facility also proposes to add a new wood waste fuel grinding and handling operation (Permit Unit -6) and include it in a specific limiting condition with units -1, -3, -7 and -8, add a wood waste fuel grinding and handling operation (Permit Unit -7) and include it in a specific limiting condition with units -1, -3, -6 and -8 and add a transportable IC engine powering screening operations listed in Permit Unit -6 (Permit Unit -8) and include it in a specific limiting condition with units -1, -3, -6 and -7.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued Authorities to Construct C-799-1-6, -1-7, -3-14, -3-15, -6-0, -6-1, -7-0, -7-1, -8-0 and -8-1, emission increases, application, and previous Title V permit. This project will be subject to a 45-day EPA commenting period prior to the District taking final action.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Jim Swaney at (559) 230-5900.

Sincerely,



David Warner
Director of Permit Services

Enclosures

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
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APR 16 2012

Gerardo C. Rios, Chief
Permits Office
Air Division
U.S. EPA - Region IX
75 Hawthorne St
San Francisco, CA 94105

Re: **Notice of Minor Title V Permit Modification**
District Facility # C-799
Project # C-1102181

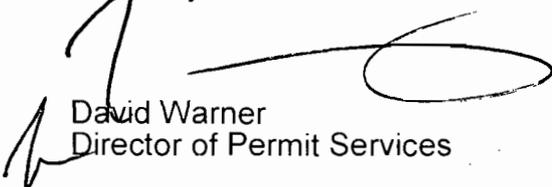
Dear Mr. Rios:

Enclosed for you to review is an application for minor Title V permit modification for the facility identified above. Madera Power, LLC is proposing a Title V minor permit modification to incorporate the recently issued Authorities to Construct C-799-1-6, -1-7, -3-14, -3-15, -6-0, -6-1, -7-0, -7-1, -8-0 and -8-1 into the Title V operating permit. The facility proposes to modify the existing fuel storage and feed system (Permit Unit -1) by installing a grinding operation served by a dust collection system and including the unit in a specific limiting condition with units -3, -6, -7 and -8 and modifying the existing boiler/generator (Permit Unit -3) by including the unit in a specific limiting condition with units -1, -6, -7 and -8. The facility also proposes to add a new wood waste fuel grinding and handling operation (Permit Unit -6) and include it in a specific limiting condition with units -1, -3, -7 and -8, add a wood waste fuel grinding and handling operation (Permit Unit -7) and include it in a specific limiting condition with units -1, -3, -6 and -8 and add a transportable IC engine powering screening operations listed in Permit Unit -6 (Permit Unit -8) and include it in a specific limiting condition with units -1, -3, -6 and -7.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued Authorities to Construct C-799-1-6, -1-7, -3-14, -3-15, -6-0, -6-1, -7-0, -7-1, -8-0 and -8-1, emission increases, application, and previous Title V permit. Please submit your written comments on this project within the 45-day comment period that begins on the date you receive this letter.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Jim Swaney at (559) 230-5900.

Sincerely,


David Warner
Director of Permit Services

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TITLE V APPLICATION REVIEW

Minor Modification
Project #: C-1102181

Engineer: Jesse A. Garcia
Date: February 7, 2012

Facility Number: C-799
Facility Name: Madera Power, LLC
Mailing Address: PO Box 305
Firebaugh, CA 93622-0305

Contact Name: Mark de Castro
Phone: (559) 659-4791

Responsible Official: Mark de Castro
Title: Plant Engineer

I. PROPOSAL

Madera Power, LLC is proposing a Title V minor permit modification to incorporate the recently issued Authority to Construct Permits C-799-1-6, -1-7, -3-14, -3-15, -6-0, -6-1, -7-0, -7-1, -8-0 and -8-1 into the Title V operating permit. The facility proposes to modify the existing fuel storage and feed system (Permit Unit -1) by installing a grinding operation served by a dust collection system and including the unit in a specific limiting condition with units -3, -6, -7 and -8 and modifying the existing boiler/generator (Permit Unit -3) by including the unit in a specific limiting condition with units -1, -6, -7 and -8. The facility also proposes to add a new wood waste fuel grinding and handling operation (Permit Unit -6) and include it in a specific limiting condition with units -1, -3, -7 and -8, add a wood waste fuel grinding and handling operation (Permit Unit -7) and include it in a specific limiting condition with units -1, -3, -6 and -8 and add a transportable IC engine powering screening operations listed in Permit Unit -6 (Permit Unit -8) and include it in a specific limiting condition with units -1, -3, -6 and -7.

The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with the applicable requirements and to provide the legal and factual basis for the proposed revisions.

Authority to Construct (ATC) permits C-799-1-7, -3-15, -6-1, -7-1 and -8-1 state that Authority to Construct permits C-799-1-6, -3-14, -6-0, -7-0 and -8-0 respectively, shall be implemented concurrently or prior to the modification and

startup of the equipment authorized by the ATCs. ATCs C-799-1-6, -3-14, -6-0, -7-0 and -8-0 will be included in Attachment B.

II. FACILITY LOCATION

The facility is located at 11427 Firebaugh Blvd. near Firebaugh, CA.

III. EQUIPMENT DESCRIPTION

C-799-1-9: FUEL STORAGE AND FEED SYSTEM CONSISTING OF: TRUCK WEIGH SCALE, FUEL STORAGE BLDG., TRUCK TIPPER, 2 RECLAIM CONVEYORS (RC1A, RC2A), FUEL RECLAIM, COLLECTION, TRANSFER CONVEYORS WITH A DUST COLLECTION SYSTEM INCLUDING FOUR PICKUP POINTS SERVED BY A BAGHOUSE, AND FUEL HOG GRINDING SYSTEM

C-799-3-16: 28.5 MW RESOURCE RECOVERY FACILITY BOILER/GENERATOR INCLUDING: 460 MMBTU/HR ATMOSPHERIC FLUIDIZED BED BOILER, MULTICLONE, BAGHOUSE, REAGENT INJECTION SYSTEM, AMMONIA INJECTION SYSTEM, PROPANE OR NATURAL GAS-FIRED START-UP PREHEATER, WITH CONTINUOUS EMISSION MONITORS

C-799-6-3: WOOD WASTE FUEL SCREENING AND HANDLING OPERATION WITH WET SUPPRESSION SYSTEM

C-799-7-2: TRANSPORTABLE PETERSON POWER CORP MODEL 4710 SERIAL NO 29B-56-1404 WOOD WASTE FUEL GRINDING AND HANDLING OPERATION WITH PERMIT EXEMPT ENGINE (PER RULE 2020, SECTION 4.3, DEFINED AS MOTOR VEHICLE)

C-799-8-2: TRANSPORTABLE 315 BHP JOHN DEERE MODEL 6068HF485T S/N PE6068L001281X TIER 3 DIESEL-FIRED IC ENGINE POWERING SCREENING OPERATIONS LISTED IN PERMITS C-799-6 OR S-285-10

IV. SCOPE OF EPA AND PUBLIC REVIEW

This change to a Title V permit is considered to be a minor modification and, as such, requires no public review.

V. APPLICABLE REQUIREMENTS

District Rule 2520, Federally Mandated Operating Permits (Adopted June 21, 2001)

VI. DESCRIPTION OF PROPOSED MODIFICATIONS

Madera Power, LLC is proposing a Title V minor permit modification to incorporate requested changes to permits C-799-1-6, -1-7, -3-14 and -3-15 and incorporate the new equipment in permits C-799-6-1, -7-1 and -8-1 into the Title V operating permit. There is no increase of emissions as a result of this project as all permit units addressed in this evaluation are part of a specific limiting condition.

ATC Condition Changes:

C-799-1

ATC condition 1 has been removed and not included in the requirements for this revised permit as Madera Power, LLC has submitted the appropriate Title V applications to incorporate this ATC into their operating permit.

ATC condition 2 has been removed and not included in the requirements for this revised permit as ATC C-799-1-6 will be implemented with ATC C-799-1-7.

ATC condition 5 and 6 have been removed and not included in the requirements for this revised permit as those requirements are on facility-wide permit C-799-0-2.

C-799-3

ATC condition 1 has been removed and not included in the requirements for this revised permit as Madera Power, LLC has submitted the appropriate Title V applications to incorporate this ATC into their operating permit.

ATC condition 2 has been removed and not included in the requirements for this revised permit as ATC C-799-3-14 will be implemented with ATC C-799-3-15.

C-799-6

ATC condition 1 has been removed and not included in the requirements for this revised permit as Madera Power, LLC has submitted the appropriate Title V applications to incorporate this ATC into their operating permit.

ATC condition 2 has been removed and not included in the requirements for this revised permit as ATC C-799-6-0 will be implemented with ATC C-799-6-1.

ATC conditions 4 and 6 have been removed and not included in the requirements for this revised permit as those requirements are on facility-wide permit C-799-0-2.

C-799-7

ATC condition 1 has been removed and not included in the requirements for this revised permit as Madera Power, LLC has submitted the appropriate Title V applications to incorporate this ATC into their operating permit.

ATC condition 2 has been removed and not included in the requirements for this revised permit as ATC C-799-7-0 will be implemented with ATC C-799-7-1.

ATC conditions 4 and 6 have been removed and not included in the requirements for this revised permit as those requirements are on facility-wide permit C-799-0-2.

C-799-8

ATC condition 1 has been removed and not included in the requirements for this revised permit as Madera Power, LLC has submitted the appropriate Title V applications to incorporate this ATC into their operating permit.

ATC condition 2 has been removed and not included in the requirements for this revised permit as ATC C-799-8-0 will be implemented with ATC C-799-8-1.

ATC conditions 13 and 15 have been removed and not included in the requirements for this revised permit as those requirements are on facility-wide permit C-799-0-2.

Existing PTO Changes:

C-799-1

Permit condition 3 was removed from the current Permit to Operate as the throughput limit and emission factor ensures compliance with Rule 4202.

Permit conditions 1, 2 and 4 through 6 from the current Permit to Operate will be included in the proposed Permit to Operate.

C-799-6, -7 and -8

ATCs C-799-6-1, -7-1 and -8-1 are new permit units; therefore, there is no existing Title V PTO that they will be modifying.

New Conditions:

C-799-1

Proposed condition 1 was added to ensure no increase in emissions from units - 1, -3, -6, -7 and -8.

Proposed condition 2 was added to ensure compliance with District Rule 4201.

Proposed condition 3 was added to the proposed Permit to Operate to ensure that the baghouse is maintained and operated correctly that limiting opacity to less than 5% from the baghouse exhaust.

Proposed conditions 9 through 17 are added to the proposed Permit to Operate to ensure proper baghouse operation, maintenance and recordkeeping.

Proposed conditions 18 through 25 and 27 are added to the proposed Permit to Operate that specifies the emissions at different emission points and limits the daily emissions from baghouse exhaust and entire operation.

Proposed condition 26 was added to the proposed Permit to Operate to keep records to ensure compliance with the specific limiting condition that was added.

Proposed condition 28 are added to the proposed Permit to Operate to keep record of daily and annual throughput and make all maintained records available for at least five years.

C-799-3

Proposed condition 1 was added to ensure no increase in emissions from units - 1, -3, -6, -7 and -8.

Proposed condition 82 was added to the proposed Permit to Operate to keep records to ensure compliance with the specific limiting condition that was added.

VII. COMPLIANCE

In accordance with Rule 2520, 3.20, these modifications:

1. Do not violate requirements of any applicable federally enforceable local or federal requirement;
2. Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions;
3. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;
4. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include;

- a. A federally enforceable emission cap assumed to avoid classification as a modification under any provisions of Title I of the Federal Clean Air Act; and
 - b. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Federal Clean Air Act; and
5. Are not Title I modifications as defined in District Rule 2520 or modifications as defined in section 111 or 112 of the Federal Clean Air Act; and
 6. Do not seek to consolidate overlapping applicable requirements.

In accordance with Rule 2520, the application meets the procedural requirements of section 11.4 by including;

1. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
2. The source's suggested draft permit; and
3. Certification by a responsible official that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used.

VIII. ATTACHMENTS

- A. Proposed Modified Title V Operating Permits C-799-1-9, -3-16, -6-3, -7-2, -8-2
- B. Authorities to Construct C-799-1-6, -1-7, -3-14, -3-15, -6-0, -6-1, -7-0, -7-1, -8-0, -8-1
- C. Emissions Increases
- D. Application
- E. Previous Title V Operating Permits C-799-1-3, -3-13

ATTACHMENT A

Proposed Modified Title V Operating Permits
C-799-1-9, -3-16, -6-3, -7-2, -8-2

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-799-1-9

EXPIRATION DATE: 05/31/2012

EQUIPMENT DESCRIPTION:

FUEL STORAGE AND FEED SYSTEM CONSISTING OF: TRUCK WEIGH SCALE, FUEL STORAGE BLDG., TRUCK TIPPER, 2 RECLAIM CONVEYORS (RC1A, RC2A), FUEL RECLAIM, COLLECTION, TRANSFER CONVEYORS WITH A DUST COLLECTION SYSTEM INCLUDING FOUR PICKUP POINTS SERVED BY A BAGHOUSE, AND FUEL HOG GRINDING SYSTEM

PERMIT UNIT REQUIREMENTS

1. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NOx/year, 54,000 lb-SOx/year, 83,520 lb-PM10/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Visible emissions from baghouse serving the fuel receiving operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Fugitive dust emissions shall be controlled by water sprays, dust suppressants, enclosures, fencing, or other wind barriers. [District Rule 4102]
5. Mobile equipment, except their propulsion motors, shall be subject to all applicable conditions of this permit. [District Rule 4102]
6. Visible emissions shall be inspected annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Records of visible emission checks, emission control system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. The baghouse shall be maintained and operated according to manufacturer's specifications. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

13. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
14. A spare set of bags shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
15. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District NSR Rule] Federally Enforceable Through Title V Permit
18. Throughput of fuel shall not exceed 100 tons per hour nor 2,400 tons per day for each of the following emissions points: north reclaimer, south reclaimer, reclaimer to weigh belt transfer point, weigh belt to transfer conveyor (oversizers) transfer point, weigh belt to disk screen transfer point, disk screen to inclined conveyor transfer point, transfer conveyor to return conveyor transfer point, inclined conveyor to red conveyor transfer point, disc screen overs conveyor to fuel hog, fuel hog grinder, and fuel hog to hog transfer conveyor. [District NSR Rule]
19. Emissions shall not exceed 0.012 lb PM10/ton for each of the north and south reclaimers. [District NSR Rule] Federally Enforceable Through Title V Permit
20. Emissions shall not exceed 0.005 lb PM10/ton for each of the following emissions points: transfer conveyor to return conveyor transfer point and inclined conveyor to red conveyor transfer point. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Controlled emissions shall not exceed 0.001 lb PM10/ton for each of the following emissions points: reclaimer to weigh belt transfer point, weigh belt to transfer conveyor (oversizers) transfer point, weigh belt to disk screen transfer point, and disk screen to inclined conveyor transfer point. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Emissions shall not exceed 0.000046 lb PM10/ton for each of the following emissions points: disc screen overs to fuel hog and fuel hog to hog transfer conveyor. [District Rule 2201]
23. Emission shall not exceed 0.0012 lb PM10/ton for the fuel hog grinder. [District Rule 2201]
24. Emissions of PM10 shall not exceed 110.8 lb PM10/day from the entire operation. [District NSR Rule] Federally Enforceable Through Title V Permit
25. Emissions of PM10 shall not exceed 2.1 lb PM10/day from the baghouse exhaust. [District NSR Rule] Federally Enforceable Through Title V Permit
26. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District NSR Rule] Federally Enforceable Through Title V Permit
27. Permittee shall keep daily and annual records of fuel throughput in tons. [District NSR Rule] Federally Enforceable Through Title V Permit
28. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made readily available for District inspection upon request. [District NSR Rule and Rule 1070] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-799-3-16

EXPIRATION DATE: 05/31/2012

EQUIPMENT DESCRIPTION:

28.5 MW RESOURCE RECOVERY FACILITY BOILER/GENERATOR INCLUDING: 460 MMBTU/HR ATMOSPHERIC FLUIDIZED BED BOILER, MULTICLONE, BAGHOUSE, REAGENT INJECTION SYSTEM, AMMONIA INJECTION SYSTEM, PROPANE OR NATURAL GAS-FIRED START-UP PREHEATER, WITH CONTINUOUS EMISSION MONITORS

PERMIT UNIT REQUIREMENTS

1. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NO_x/year, 54,000 lb-SO_x/year, 83,520 lb-PM₁₀/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule] Federally Enforceable Through Title V Permit
2. {233} The APCO or any authorized representative, upon request, shall have access to, and copies of, any records required to be kept under the terms and conditions of this permit. [C11&SC 42303]
3. The APCO or any authorized representative, upon request, shall have access to inspect any equipment, operation, or method required in this permit, and to sample emissions from the source or require samples to be taken. [District Rule 1081] Federally Enforceable Through Title V Permit
4. The atmospheric fluidized bed (AFB) boiler shall not operate in excess of 348 days per calendar year. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Natural gas or propane burners shall be used during start-up and for combustor stabilization throughout the chamber prior to the introduction of solid fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Particulate matter concentrations shall not exceed 0.024 grains/dscf. [District NSR Rule and District Rules 4201 and 4301, 5.1] Federally Enforceable Through Title V Permit
7. Expected emissions of combustion contaminants from the fluidized bed boiler, as particulate matter (PM), will not exceed 10 lb/hr, as measured by EPA Method 5. [District Rule 4301] Federally Enforceable Through Title V Permit
8. Ash sample testing for substances not considered to be combustion contaminants using ion chromatography shall be performed at least once every 12 calendar months. [District NSR Rule] Federally Enforceable Through Title V Permit
9. A representative sample of ash shall be collected during source testing and analyzed by ion chromatography to determine the percentage of combustion contaminants exiting the stack. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The PM source test result may be adjusted based on the fraction of combustion contaminants from the ash sample test results to determine the hourly combustion contaminant emission rate. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Total PM₁₀ shall not exceed 11.2 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Emissions from this unit shall not exceed any of the following limits: 50 lb-NO₂/hr (1,200 lb-NO₂/day), 24 lb-ROG/hr (576 lb-ROG/day), 29 lb-SO₂/hr (696 lb-SO₂/day), 240 lb-PM/day, or 60 lb-CO/hr (1,440 lb-CO/day). [District Rules 2201 and 4301, 5.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. Ammonia emissions shall not exceed 100 parts per million. [District NSR Rule] Federally Enforceable Through Title V Permit
14. A quarterly report of the daily fuel usage and type shall be submitted to the District by the 30th day of the following month. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Offset creditable fuels are limited to the following: alfalfa straw, almond prunings, apple prunings, apricot prunings, barley straw, bean straw/stalks, cherry prunings, citrus prunings, corn stalks, fig prunings, forest slash/cull, grape prunings, generic orchard prunings, milo sorghum, nectarine prunings, olive prunings, peach prunings, pecan prunings, pistachio prunings, plum prunings, rice straw, wheat straw, walnut prunings, and generic field crops historically open burned in the San Joaquin Valley air basin. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Fuels for the AFB boiler are limited to the following: alfalfa straw, almond prunings, almond shells, apple prunings, apricot prunings, barley straw, bean straw/stalks, cedar bark, cherry pits, cherry prunings, citrus prunings, coffee grounds, corn stalks, cotton gin trash, cotton stalks, ditchbank or canal weeds, fig prunings, forest slash/cull, grape pomace, grape prunings, generic orchard prunings, hog fuel (mill residue), landscape tree trimmings, milo sorghum, nectarine pits, nectarine prunings, olive pits, olive pomace, olive prunings, pallet/bins wood, peach pits, peach prunings, peanut shells, pecan prunings, pecan shells, pistachio prunings, pistachio shells, plum prunings, prune pits, raisin pomace, rice straw, sawdust, tomato pomace, tumbleweeds, turkey (wood) shavings, urban development clearing trees, walnut prunings, walnut shells, wheat straw, unburned fuel, and paper. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Urban wood waste (construction, demolition, and landfill derived wood wastes) is approved as fuel so long as there is less than 1% by weight, of plastic, rubber and other non-wood combustibles (other than dirt or ash). [District Rule 4102]
18. All stack emissions shall be offset with creditable biomass on an annual basis. [District NSR Rule] Federally Enforceable Through Title V Permit
19. Emission offset credits shall be calculated using the following formula: $EC(y) = \text{Summation}[1/DF(i) \times T(i) \times EF(i)]$, where $EC(y)$ = the amount of offset credit available for the year, i = the i th load of biomass combusted for the offset year, $DF(i)$ = the distance factor for the i th load of biomass, $T(i)$ = the number of tons of biomass in the i th load, and $EF(i)$ = the emission factor for the type of biomass in the i th load. [District NSR Rule] Federally Enforceable Through Title V Permit
20. The biomass offset Distance Factor shall be 1.2 for sources within a 15-mile radius and 2.0 for sources outside the 15-mile radius. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Open burn emission factors used to determine the quantity of offsets available from the diversion of biomass from open-burning shall be obtained from District Policy SSP 2005 "Open Burn Emission Factors." [District NSR Rule] Federally Enforceable Through Title V Permit
22. Daily records of biomass consumption shall be maintained which include the type, mass and geographic origin of all creditable biomass received and used. Records shall include certifications that any creditable biomass has historically been openly burned in the San Joaquin Valley air basin. [District NSR Rule and District Rule 4352, 6.2.1] Federally Enforceable Through Title V Permit
23. Monthly records of all fuel consumption (including biomass and all other permitted fuels) shall be kept. Records shall include type, quantity, and higher heating value (HHV) for each fuel used. [District Rule 4352, 6.2.1] Federally Enforceable Through Title V Permit
24. Annual records shall be maintained which quantify the total amount of stack emissions and the total amount of offsets claimed from the diversion of creditable biomass from open-burning, and which include calculations demonstrating that the total amount of annual offsets claimed is sufficient to fully offset the annual stack emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
25. Amount of paper used for fuel shall not exceed 50% of the total fuel consumption. [District Rule 4102]
26. No fuel shall be chemically treated, painted, or oil stained. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

27. Fuel feed rate shall not exceed a maximum of 460 MMBtu/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
28. Gross power production shall not exceed 28.5 Megawatts. [District NSR Rule] Federally Enforceable Through Title V Permit
29. Steam production shall not exceed 6,700,000 pounds per day at 900 °F and 850 psig. [District NSR Rule] Federally Enforceable Through Title V Permit
30. If urban wood wastes have been burned during the 365 day period prior to October 31 of any year, fuel testing shall be conducted by December 31 of that year. [District Rule 4102]
31. Fuel testing shall be conducted as follows: one truckload of urban wood waste fuel shall be weighed, dumped, and all contaminants shall be sorted from the fuel, identified and weighed. The report for this test shall be forwarded to the District by January 31 (one month after fuel testing deadline). [District Rule 4102]
32. The District shall be contacted and notified of the proposed date of any fuel testing. [District NSR Rule] Federally Enforceable Through Title V Permit
33. In addition to the scheduled annual fuel testing, testing shall also be performed on urban wood waste on-site within 24 hours of any such request of District staff. [District NSR Rule] Federally Enforceable Through Title V Permit
34. Permittee shall provide a toxics emissions test plan and protocol within 120 operating days of restarting facility and will initiate testing within 60 days of ARB and SJVAPCD approval of the protocol. [District Rule 4102]
35. In accordance with the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (amended June 1993), the facility shall be source tested for the following while fired on the maximum proposed mix of urban wood waste: full set of metals, PAHs, dioxins, furans, formaldehyde, acetaldehyde, PCBs and POM. The ratio of urban wood waste to other fuel combusted during the toxics testing will become the maximum ratio allowed for all subsequent combustion, unless otherwise revised under future Authorities to Construct. [District Rule 4102]
36. Urban woodwaste combustion shall cease within 462 days of operation, beginning the date of facility restart, unless an application for Authority to Construct (ATC), based on refined health risk assessment is filed and approved. [District Rule 4102]
37. Records shall be maintained of the number of days of operation since "restart" occurred. [District Rule 4102]
38. The baghouse shall consist of 2,310 bags with a rating of 226,000 acfm. [District NSR Rule] Federally Enforceable Through Title V Permit
39. All modules of the baghouse shall be equipped with a manometer which shall be calibrated on an annual or more frequent basis. [District NSR Rule] Federally Enforceable Through Title V Permit
40. The multiclone shall consist of a 1,500 hp motor with 200-11.5 inch collector tubes. [District NSR Rule] Federally Enforceable Through Title V Permit
41. The reagent injection system shall consist of a 2,540 cubic foot silo. [District NSR Rule] Federally Enforceable Through Title V Permit
42. The reagent bin for the dry additive injection system shall be under negative pressure whenever reagent is being loaded into the bin. [District NSR Rule] Federally Enforceable Through Title V Permit
43. The ammonia injection system includes 36 nozzles. [District NSR Rule] Federally Enforceable Through Title V Permit
44. The air flow rate and ammonia injection rate shall be monitored continuously and recorded. [District NSR Rule] Federally Enforceable Through Title V Permit
45. Particulate matter emissions in the exhaust gas from this unit shall not exceed 0.03 lb/MMBtu heat input. [40 CFR 60.42Da(a)(1) and (2)] Federally Enforceable Through Title V Permit
46. The opacity of the exhaust gas from this unit shall not exceed 20 percent based on a 6-minute average except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.42Da(b) and 40 CFR 64.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
 These terms and conditions are part of the Facility-wide Permit to Operate.

47. Sulfur dioxide (SO₂) emissions from the biomass unit shall not exceed 1.20 lb/MMBtu heat input. [40 CFR 60.43Da(d)(2)] Federally Enforceable Through Title V Permit
48. Sulfur compound emissions shall not exceed 0.2% by volume, 2,000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Madera County Rule 404] Federally Enforceable Through Title V Permit
49. SO₂ emissions shall be calculated based on the arithmetic average of all hourly emissions rates for SO₂ for the 30 successive boiler operating days. [40 CFR 60.48Da(g)] Federally Enforceable Through Title V Permit
50. Except for periods of start-up or shutdown, emissions concentrations in the exhaust from the unit shall not exceed any of the following limits based on a block 24 hour average : 115 ppmv NO_x at 3% O₂ or 400 ppmv CO at 3% O₂. [40 CFR 60.44Da(a) and District Rule 4352, 5.1 & 5.2] Federally Enforceable Through Title V Permit
51. The duration of each shutdown shall not exceed twelve (12) hours except as provided in Section 5.3.4 of District Rule 4352. [District Rule 4352, 5.3.1] Federally Enforceable Through Title V Permit
52. Except as provided in Section 5.3.4 of District Rule 4352, the duration of each start-up shall not exceed 96 hours, or 192 hours if curing of the refractory is required after a modification. [District Rule 4352, 5.3.2] Federally Enforceable Through Title V Permit
53. When two or more fuels are combusted simultaneously, NO_x emissions shall not exceed the prorated emissions calculated using the following formula: $E_n = [86w + 260z]/100$, where: E_n is the applicable standard for nitrogen oxides when multiple fuels are combusted simultaneously (ng/J heat input); w is the percentage of total heat input derived from the combustion of gaseous fuels; and z is the percentage of total heat input derived from the combustion of solid fuels. [40 CFR 60.44Da(c)] Federally Enforceable Through Title V Permit
54. Applicable emissions standards of 40 CFR part 60 for PM, SO₂, and NO_x apply at all times except during the startup, shutdown, or malfunction. [40 CFR 60.48Da(c)] Federally Enforceable Through Title V Permit
55. Continuous Emission Monitoring systems (CEMs) shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7 (c) and 60.13. CEMs must also satisfy the Performance Specifications of 40 CFR Part 51 Appendix P and 40 CFR Part 60 Appendix B, Performance Specifications 2, 3, and 4, and the Relative Accuracy Test Audit of Appendix F. [District NSR Rule, District Rules 1080, 6.0 and 4352, 5.5, 40 CFR 49Da(w) and 40 CFR 64.3] Federally Enforceable Through Title V Permit
56. The continuous emissions monitoring systems (CEMs) for NO_x, SO₂, and CO and continuous monitoring system for opacity and O₂ concentration shall be calibrated and maintained operational at all times including the periods of startup, shutdown, malfunction, and emergency conditions, except for the CEMs breakdowns, repairs, calibrate checks, and zero and span adjustments. [40 CFR 60.49Da(a), (b), (c), (d), and (e), 40 CFR 64.3 and District Rule 4352] Federally Enforceable Through Title V Permit
57. Hourly emissions for NO_x (as NO₂), SO₂, and CO shall be based on a consecutive three-hour average as determined by the CEM system. [District Rule 1080] Federally Enforceable Through Title V Permit
58. The owner or operator shall obtain emission data for at least 18 hours in at least 22 hours out of the 30 successive boiler operating days. If this minimum data cannot be obtained, the operator or owner shall supplement emission data with alternate monitoring system approved by the APCO or methods and procedures described in section 60.47a(h) of 40 CFR 60, Subpart Da. [40CFR 60.49Da(f) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
59. The owner or operator shall use methods and procedures described in 40 CFR 60.47a(i) to conduct monitoring system performance evaluations and calibrate checks under subpart 60.13(c) and (d). Alternate methods and procedures described under section 60.47a(j) may also be used. [40 CFR 60.49Da(i) and (j) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
60. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2 and 40 CFR 64.9] Federally Enforceable Through Title V Permit
61. A violation of NO_x emission standards indicated by the NO_x-CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

62. Operator shall notify the APCO shall be notified no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0] Federally Enforceable Through Title V Permit
63. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess occurred. [40 CFR 60.51Da, 40 CFR 64.9 and District Rule 1080, 8.0] Federally Enforceable Through Title V Permit
64. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [40 CFR 64.3] Federally Enforceable Through Title V Permit
65. The baghouse shall operate at all times with a minimum differential pressure of 3 inches water column and a maximum differential pressure of 10 inches water column. [40 CFR Part 64.3] Federally Enforceable Through Title V Permit
66. Differential operating pressure shall be monitored and recorded on each day that the combustor operates. [40 CFR 64.3] Federally Enforceable Through Title V Permit
67. During each day of operation, the permittee shall record the pressure drop of the baghouse, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR 64.7] Federally Enforceable Through Title V Permit
68. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64.7] Federally Enforceable Through Title V Permit
69. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64.9] Federally Enforceable Through Title V Permit
70. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64.8] Federally Enforceable Through Title V Permit
71. Source testing for PM10, SO_x, NO_x, CO, VOC, and ammonia slip shall be performed at least once every 12 calendar months. [District NSR Rule, District Rule 1081, and District Rule 4352, 6.3.1] Federally Enforceable Through Title V Permit
72. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
73. Stack gas velocity shall be determined using EPA Method 2. Stack gas oxygen shall be determine using EPA Method 3 or 3A (or ARB Method 100). Stack gas moisture content shall be determined using EPA Method 4. Solid fuel higher heating value (hhv) shall be determined using ASTM Method D 2015 or E 711. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
74. Source testing shall be conducted using the following methods: EPA Method 7E (or CARB Method 100) for NO_x (ppmv); EPA Method 19 for NO_x (lb/MMBtu heat input); EPA Method 5 for particulate matter (PM); EPA Method 19 for SO₂; EPA Method 9 for opacity; EPA method 10 (or CARB method 100) for CO; and EPA Method 18 (or CARB Method 100) for VOC. [District Rule 4352, 6.4.1 and 40 CFR 60.50Da] Federally Enforceable Through Title V Permit
75. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352, 6.3.2 and 6.3.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

76. The results of each source test and ash sample ion chromatography test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
77. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3.1, 40 CFR 60.7 (b) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
78. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NOx and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
79. Enclosure and dust collection system shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
80. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
81. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
82. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District NSR Rule] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-799-6-3

EXPIRATION DATE: 05/31/2012

EQUIPMENT DESCRIPTION:

WOOD WASTE FUEL SCREENING AND HANDLING OPERATION WITH WET SUPPRESSION SYSTEM

PERMIT UNIT REQUIREMENTS

1. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NO_x/year, 54,000 lb-SO_x/year, 83,520 lb-PM₁₀/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The wet suppression system shall be maintained in good operating condition and shall be operated at all times when screening equipment is in operation. [District Rule 2201] Federally Enforceable Through Title V Permit
3. PM₁₀ emissions rate from this unit shall not exceed 0.001062 lb-PM₁₀/ton of fuel processed. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The quantity of material processed through the equipment shall not exceed 800 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. A daily log shall be maintained and shall include the total quantity of material processed (in tons) and maintenance or modifications performed. [District Rule 2201] Federally Enforceable Through Title V Permit
6. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District NSR Rule] Federally Enforceable Through Title V Permit
7. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-799-7-2

EXPIRATION DATE: 05/31/2012

EQUIPMENT DESCRIPTION:

TRANSPORTABLE PETERSON POWER CORP MODEL 4710 SERIAL NO 29B-56-1404 WOOD WASTE FUEL GRINDING AND HANDLING OPERATION WITH PERMIT EXEMPT ENGINE (PER RULE 2020, SECTION 4.3, DEFINED AS MOTOR VEHICLE)

PERMIT UNIT REQUIREMENTS

1. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NO_x/year, 54,000 lb-SO_x/year, 83,520 lb-PM₁₀/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The wet suppression system shall be maintained in good operating condition and shall be operated at all times when grinding equipment is in operation. [District Rule 2201] Federally Enforceable Through Title V Permit
3. PM₁₀ emissions rate from this unit shall not exceed 0.347 lb-PM₁₀/ton of fuel processed. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The quantity of material processed through the equipment shall not exceed 800 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of the dates and locations where the wood waste grinding equipment operates. [District Rule 1070] Federally Enforceable Through Title V Permit
6. A daily log shall be maintained and shall include the following for each location the equipment is operated: the total quantity of material processed (in tons) and maintenance or modifications performed. [District Rule 2201] Federally Enforceable Through Title V Permit
7. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District NSR Rule] Federally Enforceable Through Title V Permit
8. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-799-8-2

EXPIRATION DATE: 05/31/2012

EQUIPMENT DESCRIPTION:

TRANSPORTABLE 315 BHP JOHN DEERE MODEL 6068HF485T S/N PE6068L001281X TIER 3 DIESEL-FIRED IC ENGINE POWERING SCREENING OPERATIONS LISTED IN PERMITS C-799-6 OR S-285-10

PERMIT UNIT REQUIREMENTS

1. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NO_x/year, 54,000 lb-SO_x/year, 83,520 lb-PM₁₀/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule] Federally Enforceable Through Title V Permit
2. When operating at facility S-285, annual emissions from the boiler/generator listed under permit S-285-2-6 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 140,880 lb-NO_x/year, 78,200 lb-SO_x/year, 45,420 lb-PM₁₀/year, 498,000 lb-CO/year, or 104,800 lb-VOC/year. [District NSR Rule] Federally Enforceable Through Title V Permit
3. This transportable engine shall be only operated at the facilities C-799 and S-285. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Permittee shall notify the District Compliance Division every time the engine is moved to a new location for more than 24 hours. Such notification shall be made within 48 hours after the engine is moved [District Rule 1070] Federally Enforceable Through Title V Permit
5. This engine shall be operated at one location or site at a facility for no more than 12 consecutive months, or if at a seasonal source, the engine shall not be operated at one location or site at a facility for more than the duration of the season. [District Rule 2201 and 13 CCR 2421 and 17 CCR 93116] Federally Enforceable Through Title V Permit
6. {1898} The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
7. The engine shall not operate within 5000 feet of the nearest receptor when operating at facility C-799. [District Rule 4201] Federally Enforceable Through Title V Permit
8. Operation of the engine shall not exceed 1352 hours per calendar year when operating at facility C-799 (this limit is to enforce the zero equivalency threshold for greenhouse gas emission). [District Rules 2201 and 4702 and 17 CCR 93116 and California Environmental Quality Act] Federally Enforceable Through Title V Permit
9. The engine shall not operate within 750 feet of the nearest receptor when operating at facility S-285. [District Rule 4201] Federally Enforceable Through Title V Permit
10. Operation of the engine shall not exceed 500 hours per calendar year when operating at facility S-285. [District Rules 2201 and 4702 and 17 CCR 93116] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

12. Emissions from this IC engine shall not exceed any of the following limits: 2.37 g-NOx/bhp-hr, 0.45 g-CO/bhp-hr, or 0.17 g-VOC/bhp-hr. [District Rule 2201 and 40 CFR Part 89 and 13 CCR 2423 and 17 CCR 93116] Federally Enforceable Through Title V Permit
13. Emissions from this IC engine shall not exceed 0.08 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rule 2201 and 4102 and 40 CFR Part 89 and 13 CCR 2423 and 17 CCR 93116] Federally Enforceable Through Title V Permit
14. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
16. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
17. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
18. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rule 4702] Federally Enforceable Through Title V Permit
19. The permittee shall maintain records of each location where the engine is operated, including dates and duration of residency at each location, and shall update those records each time the engine is moved. [District Rule 2201 and 17 CCR 93116] Federally Enforceable Through Title V Permit
20. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 18, 25A or 25B, or ARB Method 100. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
21. The permittee shall record the total time the engine operates at each facility, in hours per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
22. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District NSR Rule] Federally Enforceable Through Title V Permit
23. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

ATTACHMENT B

Authorities to Construct

C-799-1-6, -1-7, -3-14, -3-15, -6-0, -6-1, -7-0,
-7-1, -8-0, -8-1



AUTHORITY TO CONSTRUCT

PERMIT NO: C-799-1-6

ISSUANCE DATE: 05/26/2010

LEGAL OWNER OR OPERATOR: MADERA POWER, LLC
MAILING ADDRESS: PO BOX 305
FIREBAUGH, CA 93622

LOCATION: 11427 FIREBAUGH BLVD
P O BOX 305
FIREBAUGH, CA 93622

EQUIPMENT DESCRIPTION:

MODIFICATION OF FUEL STORAGE AND FEED SYSTEM CONSISTING OF TRUCK WEIGH SCALE, FUEL STORAGE BLDG., TRUCK TIPPER, 2 RECLAIM CONVEYORS (RC1A, RC2A), FUEL RECLAIM, COLLECTION, AND TRANSFER CONVEYORS. INSTALL DUST COLLECTION SYSTEM INCLUDING FOUR PICKUP POINTS SERVED BY A BAGHOUSE

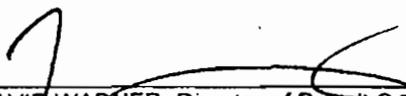
CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. This Authority to Construct (ATC) cancels and supersedes ATC C-799-1-4. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. Except as otherwise required in this permit, no air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
6. Visible emissions from baghouse serving the fuel receiving operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services
C-799-1-6 : 05/26/2010 9:04AM - TOMS : Joint Inspection NOT Required

7. Fugitive dust emissions shall be controlled by water sprays, dust suppressants, enclosures, fencing, or other wind barriers. [District Rule 4102]
8. Mobile equipment, except their propulsion motors, shall be subject to all applicable conditions of this permit. [District Rule 4102]
9. Visible emissions shall be inspected annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Records of visible emission checks, emission control system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. The baghouse shall be maintained and operated according to manufacturer's specifications. [District NSR Rule] Federally Enforceable Through Title V Permit
13. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
14. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
17. A spare set of bags shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
18. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule] Federally Enforceable Through Title V Permit
19. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District NSR Rule] Federally Enforceable Through Title V Permit
20. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Throughput of fuel shall not exceed 100 tons per hour nor 2,400 tons per day for each of the following emissions points: north reclaimer, south reclaimer, reclaimer to weigh belt transfer point, weigh belt to transfer conveyor (oversizers) transfer point, weigh belt to disk screen transfer point, disk screen to inclined conveyor transfer point, transfer conveyor to return conveyor transfer point and inclined conveyor to red conveyor transfer point. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Emissions shall not exceed 0.012 lb PM10/ton for each of the north and south reclaimers. [District NSR Rule] Federally Enforceable Through Title V Permit
23. Emissions shall not exceed 0.005 lb PM10/ton for each of the following emissions points: transfer conveyor to return conveyor transfer point and inclined conveyor to red conveyor transfer point. [District NSR Rule] Federally Enforceable Through Title V Permit
24. Controlled emissions shall not exceed 0.001 lb PM10/ton for each of the following emissions points: reclaimer to weigh belt transfer point, weigh belt to transfer conveyor (oversizers) transfer point, weigh belt to disk screen transfer point, and disk screen to inclined conveyor transfer point. [District NSR Rule] Federally Enforceable Through Title V Permit
25. Emissions of PM10 shall not exceed 107.7 lb PM10/day from the entire operation. [District NSR Rule] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

26. Emissions of PM10 shall not exceed 2.1 lb PM10/day from the baghouse exhaust. [District NSR Rule] Federally Enforceable Through Title V Permit
27. Permittee shall keep daily and annual records of fuel throughput in tons. [District NSR Rule] Federally Enforceable Through Title V Permit
28. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made readily available for District inspection upon request. [District NSR Rule and Rule 1070] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: C-799-1-7

ISSUANCE DATE: 05/26/2010

LEGAL OWNER OR OPERATOR: MADERA POWER, LLC

MAILING ADDRESS: PO BOX 305
FIREBAUGH, CA 93622

LOCATION: 11427 FIREBAUGH BLVD
P O BOX 305
FIREBAUGH, CA 93622

EQUIPMENT DESCRIPTION:

MODIFICATION OF FUEL STORAGE AND FEED SYSTEM CONSISTING OF: TRUCK WEIGH SCALE, FUEL STORAGE BLDG., TRUCK TIPPER, 2 RECLAIM CONVEYORS (RC1A, RC2A), FUEL RECLAIM, COLLECTION, AND TRANSFER CONVEYORS WITH A DUST COLLECTION SYSTEM INCLUDING FOUR PICKUP POINTS SERVED BY A BAGHOUSE; INSTALL A FUEL HOG GRINDING SYSTEM CONSISTING OF ENCLOSED DISC SCREEN OVERS CONVEYOR, FUEL HOG GRINDER, ENCLOSED HOG TRANSFER CONVEYOR, AND TWO MAGNETS, ADD PERMIT C-799-1 TO PM10 SPECIFIC LIMITING CONDITION WITH PERMITS C-799-3, 6, 7, 8

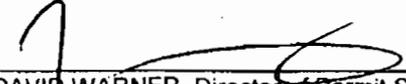
CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Authority to Construct (ATC) C-799-1-6 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NOx/year, 54,000 lb-SOx/year, 83,520 lb-PM10/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services
Printed: May 26 2010 11:17AM - TOMS - Joint Inspection NOT Required

6. Except as otherwise required in this permit, no air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
7. Visible emissions from baghouse serving the fuel receiving operation shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Fugitive dust emissions shall be controlled by water sprays, dust suppressants, enclosures, fencing, or other wind barriers. [District Rule 4102]
9. Mobile equipment, except their propulsion motors, shall be subject to all applicable conditions of this permit. [District Rule 4102]
10. Visible emissions shall be inspected annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Records of visible emission checks, emission control system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. The baghouse shall be maintained and operated according to manufacturer's specifications. [District NSR Rule] Federally Enforceable Through Title V Permit
14. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
18. A spare set of bags shall be maintained on the premises at all times. [District NSR Rule] Federally Enforceable Through Title V Permit
19. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule] Federally Enforceable Through Title V Permit
20. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Throughput of fuel shall not exceed 100 tons per hour nor 2,400 tons per day for each of the following emissions points: north reclaimer, south reclaimer, reclaimer to weigh belt transfer point, weigh belt to transfer conveyor (oversizers) transfer point, weigh belt to disk screen transfer point, disk screen to inclined conveyor transfer point, transfer conveyor to return conveyor transfer point, inclined conveyor to red conveyor transfer point, disc screen overs conveyor to fuel hog, fuel hog grinder, and fuel hog to hog transfer conveyor. [District NSR Rule]
23. Emissions shall not exceed 0.012 lb PM10/ton for each of the north and south reclaimers. [District NSR Rule] Federally Enforceable Through Title V Permit
24. Emissions shall not exceed 0.005 lb PM10/ton for each of the following emissions points: transfer conveyor to return conveyor transfer point and inclined conveyor to red conveyor transfer point. [District NSR Rule] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

25. Controlled emissions shall not exceed 0.001 lb PM10/ton for each of the following emissions points: reclaimer to weigh belt transfer point, weigh belt to transfer conveyor (oversizers) transfer point, weigh belt to disk screen transfer point, and disk screen to inclined conveyor transfer point. [District NSR Rule] Federally Enforceable Through Title V Permit
26. Emissions shall not exceed 0.000046 lb PM10/ton for each of the following emissions points: disc screen overs to fuel hog and fuel hog to hog transfer conveyor. [District Rule 2201]
27. Emission shall not exceed 0.0012 lb PM10/ton for the fuel hog grinder. [District Rule 2201]
28. Emissions of PM10 shall not exceed 110.8 lb PM10/day from the entire operation. [District NSR Rule] Federally Enforceable Through Title V Permit
29. Emissions of PM10 shall not exceed 2.1 lb PM10/day from the baghouse exhaust. [District NSR Rule] Federally Enforceable Through Title V Permit
30. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District NSR Rule]
31. Permittee shall keep daily and annual records of fuel throughput in tons. [District NSR Rule] Federally Enforceable Through Title V Permit
32. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made readily available for District inspection upon request. [District NSR Rule and Rule 1070] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: C-799-3-14

ISSUANCE DATE: 03/23/2010

LEGAL OWNER OR OPERATOR: MADERA POWER, LLC

MAILING ADDRESS: PO BOX 305
FIREBAUGH, CA 93622

LOCATION: 11427 FIREBAUGH BLVD
P O BOX 305
FIREBAUGH, CA 93622

EQUIPMENT DESCRIPTION:

MODIFICATION OF 28.5 MW RESOURCE RECOVERY FACILITY BOILER/GENERATOR INCLUDING: 460 MMBTU/HR ATMOSPHERIC FLUIDIZED BED BOILER, MULTICLONE, BAGHOUSE, REAGENT INJECTION SYSTEM, AMMONIA INJECTION SYSTEM, PROPANE OR NATURAL GAS-FIRED START-UP PREHEATER, WITH CONTINUOUS EMISSION MONITORS: ADD SPECIFIC LIMITING CONDITION FOR UNITS -3, -6, -7 AND -8

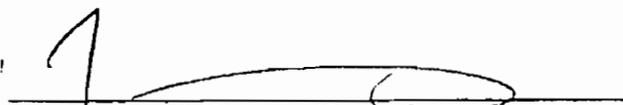
CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. The APCO or any authorized representative, upon request, shall have access to, and copies of, any records required to be kept under the terms and conditions of this permit. [CH&SC 42303]
3. The APCO or any authorized representative, upon request, shall have access to inspect any equipment, operation, or method required in this permit, and to sample emissions from the source or require samples to be taken. [District Rule 1081] Federally Enforceable Through Title V Permit
4. The atmospheric fluidized bed (AFB) boiler shall not operate in excess of 348 days per calendar year. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Natural gas or propane burners shall be used during start-up and for combustor stabilization throughout the chamber prior to the introduction of solid fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Particulate matter concentrations shall not exceed 0.024 grains/dscf. [District NSR Rule and District Rules 4201 and 4301, 5.1] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO


DAVID WARNER, Director of Permit Services
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7. Expected emissions of combustion contaminants from the fluidized bed boiler, as particulate matter (PM), will not exceed 10 lb/hr. as measured by EPA Method 5. [District Rule 4301] Federally Enforceable Through Title V Permit
8. Ash sample testing for substances not considered to be combustion contaminants using ion chromatography shall be performed at least once every 12 calendar months. [District NSR Rule] Federally Enforceable Through Title V Permit
9. A representative sample of ash shall be collected during source testing and analyzed by ion chromatography to determine the percentage of combustion contaminants exiting the stack. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The PM source test result may be adjusted based on the fraction of combustion contaminants from the ash sample test results to determine the hourly combustion contaminant emission rate. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Total PM10 shall not exceed 11.2 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Emissions from this unit shall not exceed any of the following limits: 50 lb-NO₂/hr (1,200 lb-NO₂/day), 24 lb-ROG/hr (576 lb-ROG/day), 29 lb-SO₂/hr (696 lb-SO₂/day), 240 lb-PM/day, or 60 lb-CO/hr (1,440 lb-CO/day). [District Rules 2201 and 4301, 5.2] Federally Enforceable Through Title V Permit
13. Specific Limiting Condition (SLC) limiting the annual emissions from the boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NO_x/year, 54,000 lb-SO_x/year, 83,520 lb-PM10/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule]
14. Ammonia emissions shall not exceed 100 parts per million. [District NSR Rule] Federally Enforceable Through Title V Permit
15. A quarterly report of the daily fuel usage and type shall be submitted to the District by the 30th day of the following month. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Offset creditable fuels are limited to the following: alfalfa straw, almond prunings, apple prunings, apricot prunings, barley straw, bean straw/stalks, cherry prunings, citrus prunings, corn stalks, fig prunings, forest slash/cull, grape prunings, generic orchard prunings, milo sorghum, nectarine prunings, olive prunings, peach prunings, pecan prunings, pistachio prunings, plum prunings, rice straw, wheat straw, walnut prunings, and generic field crops historically open burned in the San Joaquin Valley air basin. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Fuels for the AFB boiler are limited to the following: alfalfa straw, almond prunings, almond shells, apple prunings, apricot prunings, barley straw, bean straw/stalks, cedar bark, cherry pits, cherry prunings, citrus prunings, coffee grounds, corn stalks, cotton gin trash, cotton stalks, ditchbank or canal weeds, fig prunings, forest slash/cull, grape pomace, grape prunings, generic orchard prunings, hog fuel (mill residue), landscape tree trimmings, milo sorghum, nectarine pits, nectarine prunings, olive pits, olive pomace, olive prunings, pallet/bins wood, peach pits, peach prunings, peanut shells, pecan prunings, pecan shells, pistachio prunings, pistachio shells, plum prunings, prune pits, raisin pomace, rice straw, sawdust, tomato pomace, tumbleweeds, turkey (wood) shavings, urban development clearing trees, walnut prunings, walnut shells, wheat straw, unburned fuel, and paper. [District NSR Rule] Federally Enforceable Through Title V Permit
18. Urban wood waste (construction, demolition, and landfill derived wood wastes) is approved as fuel so long as there is less than 1% by weight, of plastic, rubber and other non-wood combustibles (other than dirt or ash). [District Rule 4102]
19. All stack emissions shall be offset with creditable biomass on an annual basis. [District NSR Rule] Federally Enforceable Through Title V Permit
20. Emission offset credits shall be calculated using the following formula: $EC(y) = \text{Summation}[1/DF(i) \times T(i) \times EF(i)]$, where $EC(y)$ = the amount of offset credit available for the year, i = the i th load of biomass combusted for the offset year, $DF(i)$ = the distance factor for the i th load of biomass, $T(i)$ = the number of tons of biomass in the i th load, and $EF(i)$ = the emission factor for the type of biomass in the i th load. [District NSR Rule] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

21. The biomass offset Distance Factor shall be 1.2 for sources within a 15-mile radius and 2.0 for sources outside the 15-mile radius. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Open burn emission factors used to determine the quantity of offsets available from the diversion of biomass from open-burning shall be obtained from District Policy SSP 2005 "Open Burn Emission Factors." [District NSR Rule] Federally Enforceable Through Title V Permit
23. Daily records of biomass consumption shall be maintained which include the type, mass and geographic origin of all creditable biomass received and used. Records shall include certifications that any creditable biomass has historically been openly burned in the San Joaquin Valley air basin. [District NSR Rule and District Rule 4352, 6.2.1] Federally Enforceable Through Title V Permit
24. Monthly records of all fuel consumption (including biomass and all other permitted fuels) shall be kept. Records shall include type, quantity, and higher heating value (HHV) for each fuel used. [District Rule 4352, 6.2.1] Federally Enforceable Through Title V Permit
25. Annual records shall be maintained which quantify the total amount of stack emissions and the total amount of offsets claimed from the diversion of creditable biomass from open-burning, and which include calculations demonstrating that the total amount of annual offsets claimed is sufficient to fully offset the annual stack emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
26. Amount of paper used for fuel shall not exceed 50% of the total fuel consumption. [District Rule 4102]
27. No fuel shall be chemically treated, painted, or oil stained. [District Rule 4102]
28. Fuel feed rate shall not exceed a maximum of 460 MMBtu/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
29. Gross power production shall not exceed 28.5 Megawatts. [District NSR Rule] Federally Enforceable Through Title V Permit
30. Steam production shall not exceed 6,700,000 pounds per day at 900 °F and 850 psig. [District NSR Rule] Federally Enforceable Through Title V Permit
31. If urban wood wastes have been burned during the 365 day period prior to October 31 of any year, fuel testing shall be conducted by December 31 of that year. [District Rule 4102]
32. Fuel testing shall be conducted as follows: one truckload of urban wood waste fuel shall be weighed, dumped, and all contaminants shall be sorted from the fuel, identified and weighed. The report for this test shall be forwarded to the District by January 31 (one month after fuel testing deadline). [District Rule 4102]
33. The District shall be contacted and notified of the proposed date of any fuel testing. [District NSR Rule] Federally Enforceable Through Title V Permit
34. In addition to the scheduled annual fuel testing, testing shall also be performed on urban wood waste on-site within 24 hours of any such request of District staff. [District NSR Rule] Federally Enforceable Through Title V Permit
35. Permittee shall provide a toxics emissions test plan and protocol within 120 operating days of restarting facility and will initiate testing within 60 days of ARB and SJVAPCD approval of the protocol. [District Rule 4102]
36. In accordance with the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (amended June 1993), the facility shall be source tested for the following while fired on the maximum proposed mix of urban wood waste full set of metals, PAHs, dioxins, furans, formaldehyde, acetaldehyde, PCBs and POM. The ratio of urban wood waste to other fuel combusted during the toxics testing will become the maximum ratio allowed for all subsequent combustion, unless otherwise revised under future Authorities to Construct. [District Rule 4102]
37. Urban woodwaste combustion shall cease within 462 days of operation, beginning the date of facility restart, unless an application for Authority to Construct (ATC), based on refined health risk assessment is filed and approved. [District Rule 4102]
38. Records shall be maintained of the number of days of operation since "restart" occurred. [District Rule 4102]
39. The baghouse shall consist of 2,310 bags with a rating of 226,000 acfm. [District NSR Rule] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

40. All modules of the baghouse shall be equipped with a manometer which shall be calibrated on an annual or more frequent basis. [District NSR Rule] Federally Enforceable Through Title V Permit
41. The multiclone shall consist of a 1,500 hp motor with 200-11.5 inch collector tubes. [District NSR Rule] Federally Enforceable Through Title V Permit
42. The reagent injection system shall consist of a 2,540 cubic foot silo. [District NSR Rule] Federally Enforceable Through Title V Permit
43. The reagent bin for the dry additive injection system shall be under negative pressure whenever reagent is being loaded into the bin. [District NSR Rule] Federally Enforceable Through Title V Permit
44. The ammonia injection system includes 36 nozzles. [District NSR Rule] Federally Enforceable Through Title V Permit
45. The air flow rate and ammonia injection rate shall be monitored continuously and recorded. [District NSR Rule] Federally Enforceable Through Title V Permit
46. Particulate matter emissions in the exhaust gas from this unit shall not exceed 0.03 lb/MMBtu heat input. [40 CFR 60.42Da(a)(1) and (2)] Federally Enforceable Through Title V Permit
47. The opacity of the exhaust gas from this unit shall not exceed 20 percent based on a 6-minute average except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.42Da(b) and 40 CFR 64.3] Federally Enforceable Through Title V Permit
48. Sulfur dioxide (SO₂) emissions from the biomass unit shall not exceed 1.20 lb/MMBtu heat input. [40 CFR 60.43Da(d)(2)] Federally Enforceable Through Title V Permit
49. Sulfur compound emissions shall not exceed 0.2% by volume, 2,000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Madera County Rule 404] Federally Enforceable Through Title V Permit
50. SO₂ emissions shall be calculated based on the arithmetic average of all hourly emissions rates for SO₂ for the 30 successive boiler operating days. [40 CFR 60.48Da(g)] Federally Enforceable Through Title V Permit
51. Except for periods of start-up or shutdown, emissions concentrations in the exhaust from the unit shall not exceed any of the following limits based on a block 24 hour average : 115 ppmv NO_x at 3% O₂ or 400 ppmv CO at 3% O₂. [40 CFR 60.44Da(a) and District Rule 4352, 5.1 & 5.2] Federally Enforceable Through Title V Permit
52. The duration of each shutdown shall not exceed twelve (12) hours except as provided in Section 5.3.4 of District Rule 4352. [District Rule 4352, 5.3.1] Federally Enforceable Through Title V Permit
53. Except as provided in Section 5.3.4 of District Rule 4352, the duration of each start-up shall not exceed 96 hours, or 192 hours if curing of the refractory is required after a modification. [District Rule 4352, 5.3.2] Federally Enforceable Through Title V Permit
54. When two or more fuels are combusted simultaneously, NO_x emissions shall not exceed the prorated emissions calculated using the following formula: $E_n = [86w + 260z]/100$, where: E_n is the applicable standard for nitrogen oxides when multiple fuels are combusted simultaneously (ng/J heat input); w is the percentage of total heat input derived from the combustion of gaseous fuels; and z is the percentage of total heat input derived from the combustion of solid fuels. [40 CFR 60.44Da(c)] Federally Enforceable Through Title V Permit
55. Applicable emissions standards of 40 CFR part 60 for PM, SO₂, and NO_x apply at all times except during the startup, shutdown, or malfunction. [40 CFR 60.48Da(c)] Federally Enforceable Through Title V Permit
56. Continuous Emission Monitoring systems (CEMs) shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7 (c) and 60.13. CEMs must also satisfy the Performance Specifications of 40 CFR Part 51 Appendix P and 40 CFR Part 60 Appendix B, Performance Specifications 2, 3, and 4, and the Relative Accuracy Test Audit of Appendix F. [District NSR Rule, District Rules 1080, 6.0 and 4352, 5.5. 40 CFR 49Da(w) and 40 CFR 64.3] Federally Enforceable Through Title V Permit
57. The continuous emissions monitoring systems (CEMs) for NO_x, SO₂, and CO and continuous monitoring system for opacity and O₂ concentration shall be calibrated and maintained operational at all times including the periods of startup, shutdown, malfunction, and emergency conditions, except for the CEMs breakdowns, repairs, calibrate checks, and zero and span adjustments. [40 CFR 60.49Da(a), (b), (c), (d), and (e), 40 CFR 64.3 and District Rule 4352] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

58. Hourly emissions for NO_x (as NO₂), SO₂, and CO shall be based on a consecutive three-hour average as determined by the CEM system. [District Rule 1080] Federally Enforceable Through Title V Permit
59. The owner or operator shall obtain emission data for at least 18 hours in at least 22 hours out of the 30 successive boiler operating days. If this minimum data cannot be obtained, the operator or owner shall supplement emission data with alternate monitoring system approved by the APCO or methods and procedures described in section 60.47a(h) of 40 CFR 60, Subpart Da. [40CFR 60.49Da(f) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
60. The owner or operator shall use methods and procedures described in 40 CFR 60.47a(i) to conduct monitoring system performance evaluations and calibrate checks under subpart 60.13(c) and (d). Alternate methods and procedures described under section 60.47a(j) may also be used. [40 CFR 60.49Da(i) and (j) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
61. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2 and 40 CFR 64.9] Federally Enforceable Through Title V Permit
62. A violation of NO_x emission standards indicated by the NO_x CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit
63. Operator shall notify the APCO shall be notified no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0] Federally Enforceable Through Title V Permit
64. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess occurred. [40 CFR 60.51Da, 40 CFR 64.9 and District Rule 1080, 8.0] Federally Enforceable Through Title V Permit
65. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [40 CFR 64.3] Federally Enforceable Through Title V Permit
66. The baghouse shall operate at all times with a minimum differential pressure of 3 inches water column and a maximum differential pressure of 10 inches water column. [40 CFR Part 64.3] Federally Enforceable Through Title V Permit
67. Differential operating pressure shall be monitored and recorded on each day that the combustor operates. [40 CFR 64.3] Federally Enforceable Through Title V Permit
68. During each day of operation, the permittee shall record the pressure drop of the baghouse, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR 64.7] Federally Enforceable Through Title V Permit
69. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64.7] Federally Enforceable Through Title V Permit
70. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64.9] Federally Enforceable Through Title V Permit
71. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64.8] Federally Enforceable Through Title V Permit
72. Source testing for PM₁₀, SO_x, NO_x, CO, VOC, and ammonia slip shall be performed at least once every 12 calendar months. [District NSR Rule, District Rule 1081, and District Rule 4352, 6.3.1] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

73. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
74. Stack gas velocity shall be determined using EPA Method 2. Stack gas oxygen shall be determined using EPA Method 3 or 3A (or ARB Method 100). Stack gas moisture content shall be determined using EPA Method 4. Solid fuel higher heating value (hhv) shall be determined using ASTM Method D 2015 or E 711. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
75. Source testing shall be conducted using the following methods: EPA Method 7E (or CARB Method 100) for NO_x (ppmv); EPA Method 19 for NO_x (lb/MMBtu heat input); EPA Method 5 for particulate matter (PM); EPA Method 19 for SO₂; EPA Method 9 for opacity; EPA method 10 (or CARB method 100) for CO; and EPA Method 18 (or CARB Method 100) for VOC. [District Rule 4352, 6.4.1 and 40 CFR 60.50Da] Federally Enforceable Through Title V Permit
76. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352, 6.3.2 and 6.3.3] Federally Enforceable Through Title V Permit
77. The results of each source test and ash sample ion chromatography test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
78. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3.1, 40 CFR 60.7 (b) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
79. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NO_x and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
80. Enclosure and dust collection system shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
81. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
82. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
83. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District NSR Rule]



AUTHORITY TO CONSTRUCT

PERMIT NO: C-799-3-15

ISSUANCE DATE: 05/26/2010

LEGAL OWNER OR OPERATOR: MADERA POWER, LLC
MAILING ADDRESS: PO BOX 305
FIREBAUGH, CA 93622

LOCATION: 11427 FIREBAUGH BLVD
P O BOX 305
FIREBAUGH, CA 93622

EQUIPMENT DESCRIPTION:

MODIFICATION OF 28.5 MW RESOURCE RECOVERY FACILITY BOILER/GENERATOR INCLUDING: 460 MMBTU/HR ATMOSPHERIC FLUIDIZED BED BOILER, MULTICLONE, BAGHOUSE, REAGENT INJECTION SYSTEM, AMMONIA INJECTION SYSTEM, PROPANE OR NATURAL GAS-FIRED START-UP PREHEATER, WITH CONTINUOUS EMISSION MONITORS: ADD PERMIT C-799-1 TO PM10 SPECIFIC LIMITING CONDITION WITH PERMITS C-799-3, 6, 7, 8

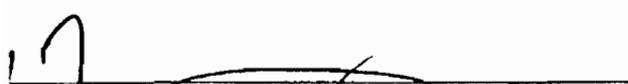
CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Authority to Construct (ATC) C-799-3-14 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201]
3. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NOx/year, 54,000 lb-SOx/year, 83,520 lb-PM10/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule]
4. The APCO or any authorized representative, upon request, shall have access to, and copies of, any records required to be kept under the terms and conditions of this permit. [CH&SC 42303]
5. The APCO or any authorized representative, upon request, shall have access to inspect any equipment, operation, or method required in this permit, and to sample emissions from the source or require samples to be taken. [District Rule 1081] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO


DAVID WARNER, Director of Permit Services
C-799-3-15: May 26, 2010 11:17AM - TOMS - Joint Inspection NOT Required

6. The atmospheric fluidized bed (AFB) boiler shall not operate in excess of 348 days per calendar year. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Natural gas or propane burners shall be used during start-up and for combustor stabilization throughout the chamber prior to the introduction of solid fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Particulate matter concentrations shall not exceed 0.024 grains/dscf. [District NSR Rule and District Rules 4201 and 4301, 5.1] Federally Enforceable Through Title V Permit
9. Expected emissions of combustion contaminants from the fluidized bed boiler, as particulate matter (PM), will not exceed 10 lb/hr, as measured by EPA Method 5. [District Rule 4301] Federally Enforceable Through Title V Permit
10. Ash sample testing for substances not considered to be combustion contaminants using ion chromatography shall be performed at least once every 12 calendar months. [District NSR Rule] Federally Enforceable Through Title V Permit
11. A representative sample of ash shall be collected during source testing and analyzed by ion chromatography to determine the percentage of combustion contaminants exiting the stack. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The PM source test result may be adjusted based on the fraction of combustion contaminants from the ash sample test results to determine the hourly combustion contaminant emission rate. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Total PM10 shall not exceed 11.2 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
14. Emissions from this unit shall not exceed any of the following limits: 50 lb-NO2/hr (1,200 lb-NO2/day), 24 lb-ROG/hr (576 lb-ROG/day), 29 lb-SO2/hr (696 lb-SO2/day), 240 lb-PM/day, or 60 lb-CO/hr (1,440 lb-CO/day). [District Rules 2201 and 4301, 5.2] Federally Enforceable Through Title V Permit
15. Ammonia emissions shall not exceed 100 parts per million. [District NSR Rule] Federally Enforceable Through Title V Permit
16. A quarterly report of the daily fuel usage and type shall be submitted to the District by the 30th day of the following month. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Offset creditable fuels are limited to the following: alfalfa straw, almond prunings, apple prunings, apricot prunings, barley straw, bean straw/stalks, cherry prunings, citrus prunings, corn stalks, fig prunings, forest slash/cull, grape prunings, generic orchard prunings, milo sorghum, nectarine prunings, olive prunings, peach prunings, pecan prunings, pistachio prunings, plum prunings, rice straw, wheat straw, walnut prunings, and generic field crops historically open burned in the San Joaquin Valley air basin. [District NSR Rule] Federally Enforceable Through Title V Permit
18. Fuels for the AFB boiler are limited to the following: alfalfa straw, almond prunings, almond shells, apple prunings, apricot prunings, barley straw, bean straw/stalks, cedar bark, cherry pits, cherry prunings, citrus prunings, coffee grounds, corn stalks, cotton gin trash, cotton stalks, ditchbank or canal weeds, fig prunings, forest slash/cull, grape pomace, grape prunings, generic orchard prunings, hog fuel (mill residue), landscape tree trimmings, milo sorghum, nectarine pits, nectarine prunings, olive pits, olive pomace, olive prunings, pallet/bins wood, peach pits, peach prunings, peanut shells, pecan prunings, pecan shells, pistachio prunings, pistachio shells, plum prunings, prune pits, raisin pomace, rice straw, sawdust, tomato pomace, tumbleweeds, turkey (wood) shavings, urban development clearing trees, walnut prunings, walnut shells, wheat straw, unburned fuel, and paper. [District NSR Rule] Federally Enforceable Through Title V Permit
19. Urban wood waste (construction, demolition, and landfill derived wood wastes) is approved as fuel so long as there is less than 1% by weight, of plastic, rubber and other non-wood combustibles (other than dirt or ash). [District Rule 4102]
20. All stack emissions shall be offset with creditable biomass on an annual basis. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Emission offset credits shall be calculated using the following formula: $EC(y) = \text{Summation}[1/DF(i) \times T(i) \times EF(i)]$, where $EC(y)$ = the amount of offset credit available for the year, i = the i th load of biomass combusted for the offset year, $DF(i)$ = the distance factor for the i th load of biomass, $T(i)$ = the number of tons of biomass in the i th load, and $EF(i)$ = the emission factor for the type of biomass in the i th load. [District NSR Rule] Federally Enforceable Through Title V Permit

22. The biomass offset Distance Factor shall be 1.2 for sources within a 15-mile radius and 2.0 for sources outside the 15-mile radius. [District NSR Rule] Federally Enforceable Through Title V Permit
23. Open burn emission factors used to determine the quantity of offsets available from the diversion of biomass from open-burning shall be obtained from District Policy SSP 2005 "Open Burn Emission Factors." [District NSR Rule] Federally Enforceable Through Title V Permit
24. Daily records of biomass consumption shall be maintained which include the type, mass and geographic origin of all creditable biomass received and used. Records shall include certifications that any creditable biomass has historically been openly burned in the San Joaquin Valley air basin. [District NSR Rule and District Rule 4352, 6.2.1] Federally Enforceable Through Title V Permit
25. Monthly records of all fuel consumption (including biomass and all other permitted fuels) shall be kept. Records shall include type, quantity, and higher heating value (HHV) for each fuel used. [District Rule 4352, 6.2.1] Federally Enforceable Through Title V Permit
26. Annual records shall be maintained which quantify the total amount of stack emissions and the total amount of offsets claimed from the diversion of creditable biomass from open-burning, and which include calculations demonstrating that the total amount of annual offsets claimed is sufficient to fully offset the annual stack emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
27. Amount of paper used for fuel shall not exceed 50% of the total fuel consumption. [District Rule 4102]
28. No fuel shall be chemically treated, painted, or oil stained. [District Rule 4102]
29. Fuel feed rate shall not exceed a maximum of 460 MMBtu/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
30. Gross power production shall not exceed 28.5 Megawatts. [District NSR Rule] Federally Enforceable Through Title V Permit
31. Steam production shall not exceed 6,700,000 pounds per day at 900 °F and 850 psig. [District NSR Rule] Federally Enforceable Through Title V Permit
32. If urban wood wastes have been burned during the 365 day period prior to October 31 of any year, fuel testing shall be conducted by December 31 of that year. [District Rule 4102]
33. Fuel testing shall be conducted as follows: one truckload of urban wood waste fuel shall be weighed, dumped, and all contaminants shall be sorted from the fuel, identified and weighed. The report for this test shall be forwarded to the District by January 31 (one month after fuel testing deadline). [District Rule 4102]
34. The District shall be contacted and notified of the proposed date of any fuel testing. [District NSR Rule] Federally Enforceable Through Title V Permit
35. In addition to the scheduled annual fuel testing, testing shall also be performed on urban wood waste on-site within 24 hours of any such request of District staff. [District NSR Rule] Federally Enforceable Through Title V Permit
36. Permittee shall provide a toxics emissions test plan and protocol within 120 operating days of restarting facility and will initiate testing within 60 days of ARB and SJVAPCD approval of the protocol. [District Rule 4102]
37. In accordance with the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (amended June 1993), the facility shall be source tested for the following while fired on the maximum proposed mix of urban wood waste: full set of metals, PAHs, dioxins, furans, formaldehyde, acetaldehyde, PCBs and POM. The ratio of urban wood waste to other fuel combusted during the toxics testing will become the maximum ratio allowed for all subsequent combustion, unless otherwise revised under future Authorities to Construct. [District Rule 4102]
38. Urban woodwaste combustion shall cease within 462 days of operation, beginning the date of facility restart, unless an application for Authority to Construct (ATC), based on refined health risk assessment is filed and approved. [District Rule 4102]
39. Records shall be maintained of the number of days of operation since "restart" occurred. [District Rule 4102]
40. The baghouse shall consist of 2,310 bags with a rating of 226,000 acfm. [District NSR Rule] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

41. All modules of the baghouse shall be equipped with a manometer which shall be calibrated on an annual or more frequent basis. [District NSR Rule] Federally Enforceable Through Title V Permit
42. The multiclone shall consist of a 1,500 hp motor with 200-11.5 inch collector tubes. [District NSR Rule] Federally Enforceable Through Title V Permit
43. The reagent injection system shall consist of a 2,540 cubic foot silo. [District NSR Rule] Federally Enforceable Through Title V Permit
44. The reagent bin for the dry additive injection system shall be under negative pressure whenever reagent is being loaded into the bin. [District NSR Rule] Federally Enforceable Through Title V Permit
45. The ammonia injection system includes 36 nozzles. [District NSR Rule] Federally Enforceable Through Title V Permit
46. The air flow rate and ammonia injection rate shall be monitored continuously and recorded. [District NSR Rule] Federally Enforceable Through Title V Permit
47. Particulate matter emissions in the exhaust gas from this unit shall not exceed 0.03 lb/MMBtu heat input. [40 CFR 60.42Da(a)(1) and (2)] Federally Enforceable Through Title V Permit
48. The opacity of the exhaust gas from this unit shall not exceed 20 percent based on a 6-minute average except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.42Da(b) and 40 CFR 64.3] Federally Enforceable Through Title V Permit
49. Sulfur dioxide (SO₂) emissions from the biomass unit shall not exceed 1.20 lb/MMBtu heat input. [40 CFR 60.43Da(d)(2)] Federally Enforceable Through Title V Permit
50. Sulfur compound emissions shall not exceed 0.2% by volume, 2,000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Madera County Rule 404] Federally Enforceable Through Title V Permit
51. SO₂ emissions shall be calculated based on the arithmetic average of all hourly emissions rates for SO₂ for the 30 successive boiler operating days. [40 CFR 60.48Da(g)] Federally Enforceable Through Title V Permit
52. Except for periods of start-up or shutdown, emissions concentrations in the exhaust from the unit shall not exceed any of the following limits based on a block 24 hour average : 115 ppmv NO_x at 3% O₂ or 400 ppmv CO at 3% O₂. [40 CFR 60.44Da(a) and District Rule 4352, 5.1 & 5.2] Federally Enforceable Through Title V Permit
53. The duration of each shutdown shall not exceed twelve (12) hours except as provided in Section 5.3.4 of District Rule 4352. [District Rule 4352, 5.3.1] Federally Enforceable Through Title V Permit
54. Except as provided in Section 5.3.4 of District Rule 4352, the duration of each start-up shall not exceed 96 hours, or 192 hours if curing of the refractory is required after a modification. [District Rule 4352, 5.3.2] Federally Enforceable Through Title V Permit
55. When two or more fuels are combusted simultaneously, NO_x emissions shall not exceed the prorated emissions calculated using the following formula: $E_n = [86w + 260z]/100$, where: E_n is the applicable standard for nitrogen oxides when multiple fuels are combusted simultaneously (ng/J heat input); w is the percentage of total heat input derived from the combustion of gaseous fuels; and z is the percentage of total heat input derived from the combustion of solid fuels. [40 CFR 60.44Da(c)] Federally Enforceable Through Title V Permit
56. Applicable emissions standards of 40 CFR part 60 for PM, SO₂, and NO_x apply at all times except during the startup, shutdown, or malfunction. [40 CFR 60.48Da(c)] Federally Enforceable Through Title V Permit
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CONDITIONS CONTINUE ON NEXT PAGE

59. Hourly emissions for NO_x (as NO₂), SO₂, and CO shall be based on a consecutive three-hour average as determined by the CEM system. [District Rule 1080] Federally Enforceable Through Title V Permit
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67. The baghouse shall operate at all times with a minimum differential pressure of 3 inches water column and a maximum differential pressure of 10 inches water column. [40 CFR Part 64.3] Federally Enforceable Through Title V Permit
68. Differential operating pressure shall be monitored and recorded on each day that the combustor operates. [40 CFR 64.3] Federally Enforceable Through Title V Permit
69. During each day of operation, the permittee shall record the pressure drop of the baghouse, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR 64.7] Federally Enforceable Through Title V Permit
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74. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
75. Stack gas velocity shall be determined using EPA Method 2. Stack gas oxygen shall be determined using EPA Method 3 or 3A (or ARB Method 100). Stack gas moisture content shall be determined using EPA Method 4. Solid fuel higher heating value (hhv) shall be determined using ASTM Method D 2015 or E 711. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
76. Source testing shall be conducted using the following methods: EPA Method 7E (or CARB Method 100) for NO_x (ppmv); EPA Method 19 for NO_x (lb/MMBtu heat input); EPA Method 5 for particulate matter (PM); EPA Method 19 for SO₂; EPA Method 9 for opacity; EPA method 10 (or CARB method 100) for CO; and EPA Method 18 (or CARB Method 100) for VOC. [District Rule 4352, 6.4.1 and 40 CFR 60.50Da] Federally Enforceable Through Title V Permit
77. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352, 6.3.2 and 6.3.3] Federally Enforceable Through Title V Permit
78. The results of each source test and ash sample ion chromatography test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
79. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3.1, 40 CFR 60.7 (b) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
80. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NO_x and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
81. Enclosure and dust collection system shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
82. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
83. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
84. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District NSR Rule]



AUTHORITY TO CONSTRUCT

PERMIT NO: C-799-6-0

ISSUANCE DATE: 03/23/2010

LEGAL OWNER OR OPERATOR: MADERA POWER, LLC
MAILING ADDRESS: PO BOX 305
FIREBAUGH, CA 93622

LOCATION: 11427 FIREBAUGH BLVD
P O BOX 305
FIREBAUGH, CA 93622

EQUIPMENT DESCRIPTION:
WOOD WASTE FUEL SCREENING AND HANDLING OPERATION WITH WET SUPPRESSION SYSTEM

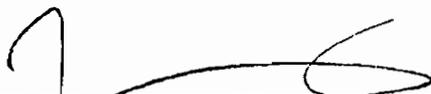
CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Annual emissions from the boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NO_x/year, 54,000 lb-SO_x/year, 83,520 lb-PM₁₀/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District Rule 2201]
3. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
4. The wet suppression system shall be maintained in good operating condition and shall be operated at all times when screening equipment is in operation. [District Rule 2201]
5. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rules 2201 and 4101]
6. PM₁₀ emissions rate from this unit shall not exceed 0.001062 lb-PM₁₀/ton of fuel processed. [District Rule 2201]
7. Particulate Matter (PM₁₀) emissions from this fuel handling, processing, and storage operation shall not exceed 0.3 lb/day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services
C-799-6-0 Mail 03/23/2010 9:15AM - DARCLAU JOHN INSPECTION NOT REQUIRED

8. The quantity of material processed through the equipment shall not exceed 300 tons in any one day. [District Rule 2201]
9. A daily log shall be maintained and shall include the total quantity of material processed (in tons) and maintenance or modifications performed. [District Rule 2201]
10. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]



AUTHORITY TO CONSTRUCT

PERMIT NO: C-799-6-1

ISSUANCE DATE: 05/26/2010

LEGAL OWNER OR OPERATOR: MADERA POWER, LLC

MAILING ADDRESS: PO BOX 305
FIREBAUGH, CA 93622

LOCATION: 11427 FIREBAUGH BLVD
P O BOX 305
FIREBAUGH, CA 93622

EQUIPMENT DESCRIPTION:

MODIFICATION OF WOOD WASTE FUEL SCREENING AND HANDLING OPERATION WITH WET SUPPRESSION SYSTEM. ADD PERMIT C-799-1 TO PM10 SPECIFIC LIMITING CONDITION WITH PERMITS C-799-3, 6, 7, 8

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Authority to Construct (ATC) C-799-6-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201]
3. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NOx/year, 54,000 lb-SOx/year, 83,520 lb-PM10/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The wet suppression system shall be maintained in good operating condition and shall be operated at all times when screening equipment is in operation. [District Rule 2201]
6. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rules 2201 and 4101]
7. PM10 emissions rate from this unit shall not exceed 0.001062 lb-PM10/ton of fuel processed. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-6950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO


DAVID WARNER, Director of Permit Services
07/29/2010 11:17AM - TOMS Joint Inspection NOT Required

8. The quantity of material processed through the equipment shall not exceed 800 tons in any one day. [District Rule 2201]
9. A daily log shall be maintained and shall include the total quantity of material processed (in tons) and maintenance or modifications performed. [District Rule 2201]
10. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District NSR Rule]
11. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]



AUTHORITY TO CONSTRUCT

PERMIT NO: C-799-7-0

ISSUANCE DATE: 03/23/2010

LEGAL OWNER OR OPERATOR: MADERA POWER, LLC

MAILING ADDRESS: PO BOX 305
FIREBAUGH, CA 93622

LOCATION: 11427 FIREBAUGH BLVD
P O BOX 305
FIREBAUGH, CA 93622

EQUIPMENT DESCRIPTION:

TRANSPORTABLE PETERSON POWER CORP MODEL 4710 SERIAL NO 29B-56-1404 WOOD WASTE FUEL GRINDING AND HANDLING OPERATION WITH PERMIT EXEMPT ENGINE (PER RULE 2020, SECTION 4.3, DEFINED AS MOTOR VEHICLE)

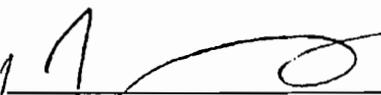
CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Annual emissions from the boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NOx/year, 54,000 lb-SOx/year, 83,520 lb-PM10/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule]
3. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
4. The wet suppression system shall be maintained in good operating condition and shall be operated at all times when grinding equipment is in operation. [District Rule 2201]
5. No air contaminant shall be discharged into the atmosphere from the grinding & handling of the process material for a period or periods aggregating more than 3 minutes in any one hour which is dark or darker than Ringelmann 1/4 or equivalent to 5% opacity. [District Rules 2201 and 4101]
6. PM10 emissions rate from this unit shall not exceed 0.347 lb-PM10/ton of fuel processed. [District Rule 2201]
7. Particulate Matter (PM10) emissions from this fuel handling, processing, and storage operation shall not exceed 97.2 lb/day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO


DAVID WARNER, Director of Permit Services
C-799-7-0 MAR 23 2010 9 15AM - GARCIAJ - JOHN INSPECTION NOT RECEIVED

8. The quantity of material processed through the equipment shall not exceed 800 tons in any one day. [District Rule 2201]
9. The permittee shall maintain records of the dates and locations where the wood waste grinding equipment operates. [District Rule 1070]
10. A daily log shall be maintained and shall include the following for each location the equipment is operated: the total quantity of material processed (in tons) and maintenance or modifications performed. [District Rule 2201]
11. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]



AUTHORITY TO CONSTRUCT

PERMIT NO: C-799-7-1

ISSUANCE DATE: 05/26/2010

LEGAL OWNER OR OPERATOR: MADERA POWER, LLC

MAILING ADDRESS: PO BOX 305
FIREBAUGH, CA 93622

LOCATION: 11427 FIREBAUGH BLVD
P O BOX 305
FIREBAUGH, CA 93622

EQUIPMENT DESCRIPTION:

MODIFICATION OF TRANSPORTABLE PETERSON POWER CORP MODEL 4710 SERIAL NO 29B-56-1404 WOOD WASTE FUEL GRINDING AND HANDLING OPERATION WITH PERMIT EXEMPT ENGINE (PER RULE 2020, SECTION 4.3, DEFINED AS MOTOR VEHICLE); ADD PERMIT C-799-1 TO PM10 SPECIFIC LIMITING CONDITION WITH PERMITS C-799-3, 6, 7, 8

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Authority to Construct (ATC) C-799-7-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201]
3. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NOx/year, 54,000 lb-SOx/year, 83,520 lb-PM10/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The wet suppression system shall be maintained in good operating condition and shall be operated at all times when grinding equipment is in operation. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5960 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services
5/26/09 7:11:11 AM - TOMS - Joint Inspection NOT Required

6. No air contaminant shall be discharged into the atmosphere from the grinding & handling of the process material for a period or periods aggregating more than 3 minutes in any one hour which is dark or darker than Ringelmann 1/4 or equivalent to 5% opacity. [District Rules 2201 and 4101]
7. PM10 emissions rate from this unit shall not exceed 0.347 lb-PM10/ton of fuel processed. [District Rule 2201]
8. The quantity of material processed through the equipment shall not exceed 800 tons in any one day. [District Rule 2201]
9. The permittee shall maintain records of the dates and locations where the wood waste grinding equipment operates. [District Rule 1070]
10. A daily log shall be maintained and shall include the following for each location the equipment is operated: the total quantity of material processed (in tons) and maintenance or modifications performed. [District Rule 2201]
11. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District NSR Rule]
12. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]



AUTHORITY TO CONSTRUCT

PERMIT NO: C-799-8-0

ISSUANCE DATE: 03/23/2010

LEGAL OWNER OR OPERATOR: MADERA POWER, LLC

MAILING ADDRESS: PO BOX 305
FIREBAUGH, CA 93622

LOCATION: 11427 FIREBAUGH BLVD
P O BOX 305
FIREBAUGH, CA 93622

EQUIPMENT DESCRIPTION:

TRANSPORTABLE 315 BHP JOHN DEERE MODEL 6068HF485T S/N PE6068L001281X TIER 3 DIESEL-FIRED IC ENGINE POWERING SCREENING OPERATIONS LISTED IN PERMITS C-799-6 OR S-285-10

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. This transportable engine shall be only operated at the facilities C-799 and S-285. [District Rule 2201]
3. Permittee shall notify the District Compliance Division every time the engine is moved to a new location for more than 24 hours. Such notification shall be made within 48 hours after the engine is moved [District Rule 1070]
4. This engine shall be operated at one location or site at a facility for no more than 12 consecutive months, or if at a seasonal source, the engine shall not be operated at one location or site at a facility for more than the duration of the season. [District Rule 2201 and 13 CCR 2421 and 17 CCR 93116]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. The engine shall not operate within 5000 feet of the nearest receptor when operating at facility C-799. [District Rule 4201]
7. Operation of the engine shall not exceed 1352 hours per calendar year when operating at facility C-799 (this limit is to enforce the zero equivalency threshold for greenhouse gas emission). [District Rules 2201 and 4702 and 17 CCR 93116 and California Environmental Quality Act]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services

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8. The engine shall not operate within 750 feet of the nearest receptor when operating at facility S-258. [District Rule 4201]
9. Operation of the engine shall not exceed 500 hours per calendar year when operating at facility S-258. [District Rules 2201 and 4702 and 17 CCR 93116]
10. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
11. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
12. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
13. When operating at facility C-799, annual emissions from the boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NO_x/year, 54,000 lb-SO_x/year, 83,520 lb-PM₁₀/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule]
14. When operating at facility S-285, annual emissions from the boiler/generator listed under permit S-285-2-6 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 140,880 lb-NO_x/year, 78,200 lb-SO_x/year, 45,420 lb-PM₁₀/year, 498,000 lb-CO/year, or 104,800 lb-VOC/year. [District NSR Rule]
15. Emissions from this IC engine shall not exceed any of the following limits: 2.37 g-NO_x/bhp-hr, 0.45 g-CO/bhp-hr, or 0.17 g-VOC/bhp-hr. [District Rule 2201 and 40 CFR Part 89 and 13 CCR 2423 and 17 CCR 93116]
16. Emissions from this IC engine shall not exceed 0.08 g-PM₁₀/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rule 2201 and 4102 and 40 CFR Part 89 and 13 CCR 2423 and 17 CCR 93116]
17. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
18. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
19. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
20. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
21. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rule 4702]
22. The permittee shall maintain records of each location where the engine is operated, including dates and duration of residency at each location, and shall update those records each time the engine is moved. [District Rule 2201 and 17 CCR 93116]
23. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 18, 25A or 25B, or ARB Method 100. [District Rules 1081, 4701, and 4702]
24. The permittee shall record the total time the engine operates at each facility, in hours per calendar year. [District Rule 2201]
25. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]



AUTHORITY TO CONSTRUCT

PERMIT NO: C-799-8-1

ISSUANCE DATE: 05/26/2010

LEGAL OWNER OR OPERATOR: MADERA POWER, LLC

MAILING ADDRESS: PO BOX 305
FIREBAUGH, CA 93622

LOCATION: 11427 FIREBAUGH BLVD
P O BOX 305
FIREBAUGH, CA 93622

EQUIPMENT DESCRIPTION:

MODIFICATION OF TRANSPORTABLE 315 BHP JOHN DEERE MODEL 6068HF485T S/N PE6068L001281X TIER 3 DIESEL-FIRED IC ENGINE POWERING SCREENING OPERATIONS LISTED IN PERMITS C-799-6 OR S-285-10. ADD PERMIT C-799-1 TO PM10 SPECIFIC LIMITING CONDITION WITH PERMITS C-799-3, 6, 7, 8

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Authority to Construct (ATC) C-799-8-0 shall be implemented concurrently, or prior to the modification and startup of the equipment authorized by this Authority to Construct. [District Rule 2201]
3. Specific Limiting Condition (SLC) limiting the annual emissions from the fuel handling listed under permit C-799-1, boiler/generator listed under permit C-799-3, the screening operation listed under permit C-799-6, the grinding operation listed under permit C-799-7 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 417,600 lb-NOx/year, 54,000 lb-SOx/year, 83,520 lb-PM10/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule]
4. When operating at facility S-285, annual emissions from the boiler/generator listed under permit S-285-2-6 and the transportable IC engine listed under permit C-799-8 calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: 140,880 lb-NOx/year, 78,200 lb-SOx/year, 45,420 lb-PM10/year, 498,000 lb-CO/year, or 104,800 lb-VOC/year. [District NSR Rule]
5. This transportable engine shall be only operated at the facilities C-799 and S-285. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5960 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services
C-799-8-1 May 26 2010 11:17AM - 10MS Joint Inspection NOT Required

6. Permittee shall notify the District Compliance Division every time the engine is moved to a new location for more than 24 hours. Such notification shall be made within 48 hours after the engine is moved [District Rule 1070]
7. This engine shall be operated at one location or site at a facility for no more than 12 consecutive months, or if at a seasonal source, the engine shall not be operated at one location or site at a facility for more than the duration of the season. [District Rule 2201 and 13 CCR 2421 and 17 CCR 93116]
8. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
9. The engine shall not operate within 5000 feet of the nearest receptor when operating at facility C-799. [District Rule 4201]
10. Operation of the engine shall not exceed 1352 hours per calendar year when operating at facility C-799 (this limit is to enforce the zero equivalency threshold for greenhouse gas emission). [District Rules 2201 and 4702 and 17 CCR 93116 and California Environmental Quality Act]
11. The engine shall not operate within 750 feet of the nearest receptor when operating at facility S-258. [District Rule 4201]
12. Operation of the engine shall not exceed 500 hours per calendar year when operating at facility S-258. [District Rules 2201 and 4702 and 17 CCR 93116]
13. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
14. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
15. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
16. Emissions from this IC engine shall not exceed any of the following limits: 2.37 g-NO_x/bhp-hr, 0.45 g-CO/bhp-hr, or 0.17 g-VOC/bhp-hr. [District Rule 2201 and 40 CFR Part 89 and 13 CCR 2423 and 17 CCR 93116]
17. Emissions from this IC engine shall not exceed 0.08 g-PM₁₀/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rule 2201 and 4102 and 40 CFR Part 89 and 13 CCR 2423 and 17 CCR 93116]
18. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
19. The engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
20. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
21. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
22. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rule 4702]
23. The permittee shall maintain records of each location where the engine is operated, including dates and duration of residency at each location, and shall update those records each time the engine is moved. [District Rule 2201 and 17 CCR 93116]
24. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 18, 25A or 25B, or ARB Method 100. [District Rules 1081, 4701, and 4702]
25. The permittee shall record the total time the engine operates at each facility, in hours per calendar year. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

26. For each unit subject to the Specific Limiting Condition (SLC), the permittee shall maintain all necessary records in order to show compliance with the annual SLC limits. [District NSR Rule]
27. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

ATTACHMENT C

Emissions Increases

	SSIPE (lb/yr)				
	NOx	VOC	CO	SOx	PM10
C-799-1-7	0	0	0	0	0
C-799-3-15	0	0	0	0	0
C-799-6-1	0	0	0	0	0
C-799-7-1	0	0	0	0	0
C-799-8-1	0	0	0	0	0
TOTAL	0	0	0	0	0

ATTACHMENT D

Application

ATTACHMENT E

Previous Title V Operating Permits
C-799-1-3, -3-13

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-799-1-3

EXPIRATION DATE: 05/31/2012

EQUIPMENT DESCRIPTION:

FUEL STORAGE AND FEED SYSTEM CONSISTING OF: TRUCK WEIGH SCALE, FUEL STORAGE BLDG., TRUCK TIPPER, 2 RECLAIM CONVEYORS (RC1A, RC2A), FUEL RECLAIM, COLLECTION, AND TRANSFER CONVEYORS.

PERMIT UNIT REQUIREMENTS

1. Fugitive dust emissions shall be controlled by water sprays, dust suppressants, enclosures, fencing, or other wind barriers. [District Rule 4102]
2. Mobile equipment, except their propulsion motors, shall be subject to all applicable conditions of this permit. [District Rule 4102]
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$; P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$; P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
4. Visible emissions shall be inspected annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Records of visible emission checks, emission control system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-799-3-13

EXPIRATION DATE: 05/31/2012

EQUIPMENT DESCRIPTION:

28.5 MW RESOURCE RECOVERY FACILITY BOILER/GENERATOR INCLUDING: 460 MMBTU/HR ATMOSPHERIC FLUIDIZED BED BOILER, MULTICLONE, BAGHOUSE, REAGENT INJECTION SYSTEM, AMMONIA INJECTION SYSTEM, PROPANE OR NATURAL GAS-FIRED START-UP PREHEATER, WITH CONTINUOUS EMISSION MONITORS

PERMIT UNIT REQUIREMENTS

1. The APCO or any authorized representative, upon request, shall have access to, and copies of, any records required to be kept under the terms and conditions of this permit. [CH&SC 42303]
2. The APCO or any authorized representative, upon request, shall have access to inspect any equipment, operation, or method required in this permit, and to sample emissions from the source or require samples to be taken. [District Rule 1081] Federally Enforceable Through Title V Permit
3. The atmospheric fluidized bed (AFB) boiler shall not operate in excess of 348 days per calendar year. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Natural gas or propane burners shall be used during start-up and for combustor stabilization throughout the chamber prior to the introduction of solid fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Particulate matter concentrations shall not exceed 0.024 grains/dscf. [District NSR Rule and District Rules 4201 and 4301, 5.1] Federally Enforceable Through Title V Permit
6. Expected emissions of combustion contaminants from the fluidized bed boiler, as particulate matter (PM), will not exceed 10 lb/hr, as measured by EPA Method 5. [District Rule 4301] Federally Enforceable Through Title V Permit
7. Ash sample testing for substances not considered to be combustion contaminants using ion chromatography shall be performed at least once every 12 calendar months. [District NSR Rule] Federally Enforceable Through Title V Permit
8. A representative sample of ash shall be collected during source testing and analyzed by ion chromatography to determine the percentage of combustion contaminants exiting the stack. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The PM source test result may be adjusted based on the fraction of combustion contaminants from the ash sample test results to determine the hourly combustion contaminant emission rate. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Total PM10 shall not exceed 11.2 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Emissions from this unit shall not exceed any of the following limits: 50 lb-NO2/hr (1,200 lb-NO2/day), 24 lb-ROG/hr (576 lb-ROG/day), 29 lb-SO2/hr (696 lb-SO2/day), 240 lb-PM/day, or 60 lb-CO/hr (1,440 lb-CO/day). [District Rules 2201 and 4301, 5.2] Federally Enforceable Through Title V Permit
12. Annual emissions from this unit shall not exceed any of the following limits: 417,600 lb-NOx/year, 54,000 lb-SOx/year, 83,520 lb-PM10/year, 501,120 lb-CO/year, or 200,448 lb-VOC/year. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Ammonia emissions shall not exceed 100 parts per million. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

14. A quarterly report of the daily fuel usage and type shall be submitted to the District by the 30th day of the following month. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Offset creditable fuels are limited to the following: alfalfa straw, almond prunings, apple prunings, apricot prunings, barley straw, bean straw/stalks, cherry prunings, citrus prunings, corn stalks, fig prunings, forest slash/cull, grape prunings, generic orchard prunings, milo sorghum, nectarine prunings, olive prunings, peach prunings, pecan prunings, pistachio prunings, plum prunings, rice straw, wheat straw, walnut prunings, and generic field crops historically open burned in the San Joaquin Valley air basin. [District NSR Rule] Federally Enforceable Through Title V Permit
16. Fuels for the AFB boiler are limited to the following: alfalfa straw, almond prunings, almond shells, apple prunings, apricot prunings, barley straw, bean straw/stalks, cedar bark, cherry pits, cherry prunings, citrus prunings, coffee grounds, corn stalks, cotton gin trash, cotton stalks, ditchbank or canal weeds, fig prunings, forest slash/cull, grape pomace, grape prunings, generic orchard prunings, hog fuel (mill residue), landscape tree trimmings, milo sorghum, nectarine pits, nectarine prunings, olive pits, olive pomace, olive prunings, pallet/bins wood, peach pits, peach prunings, peanut shells, pecan prunings, pecan shells, pistachio prunings, pistachio shells, plum prunings, prune pits, raisin pomace, rice straw, sawdust, tomato pomace, tumbleweeds, turkey (wood) shavings, urban development clearing trees, walnut prunings, walnut shells, wheat straw, unburned fuel, and paper. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Urban wood waste (construction, demolition, and landfill derived wood wastes) is approved as fuel so long as there is less than 1% by weight, of plastic, rubber and other non-wood combustibles (other than dirt or ash). [District Rule 4102]
18. All stack emissions shall be offset with creditable biomass on an annual basis. [District NSR Rule] Federally Enforceable Through Title V Permit
19. Emission offset credits shall be calculated using the following formula: $EC(y) = \text{Summation}[1/DF(i) \times T(i) \times EF(i)]$, where $EC(y)$ = the amount of offset credit available for the year, i = the i th load of biomass combusted for the offset year, $DF(i)$ = the distance factor for the i th load of biomass, $T(i)$ = the number of tons of biomass in the i th load, and $EF(i)$ = the emission factor for the type of biomass in the i th load. [District NSR Rule] Federally Enforceable Through Title V Permit
20. The biomass offset Distance Factor shall be 1.2 for sources within a 15-mile radius and 2.0 for sources outside the 15-mile radius. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Open burn emission factors used to determine the quantity of offsets available from the diversion of biomass from open-burning shall be obtained from District Policy SSP 2005 "Open Burn Emission Factors." [District NSR Rule] Federally Enforceable Through Title V Permit
22. Daily records of biomass consumption shall be maintained which include the type, mass and geographic origin of all creditable biomass received and used. Records shall include certifications that any creditable biomass has historically been openly burned in the San Joaquin Valley air basin. [District NSR Rule and District Rule 4352, 6.2.1] Federally Enforceable Through Title V Permit
23. Monthly records of all fuel consumption (including biomass and all other permitted fuels) shall be kept. Records shall include type, quantity, and higher heating value (HHV) for each fuel used. [District Rule 4352, 6.2.1] Federally Enforceable Through Title V Permit
24. Annual records shall be maintained which quantify the total amount of stack emissions and the total amount of offsets claimed from the diversion of creditable biomass from open-burning, and which include calculations demonstrating that the total amount of annual offsets claimed is sufficient to fully offset the annual stack emissions. [District NSR Rule] Federally Enforceable Through Title V Permit
25. Amount of paper used for fuel shall not exceed 50% of the total fuel consumption. [District Rule 4102]
26. No fuel shall be chemically treated, painted, or oil stained. [District Rule 4102]
27. Fuel feed rate shall not exceed a maximum of 460 MMBtu/hr. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

28. Gross power production shall not exceed 28.5 Megawatts. [District NSR Rule] Federally Enforceable Through Title V Permit
29. Steam production shall not exceed 6,700,000 pounds per day at 900 oF and 850 psig. [District NSR Rule] Federally Enforceable Through Title V Permit
30. If urban wood wastes have been burned during the 365 day period prior to October 31 of any year, fuel testing shall be conducted by December 31 of that year. [District Rule 4102]
31. Fuel testing shall be conducted as follows: one truckload of urban wood waste fuel shall be weighed, dumped, and all contaminants shall be sorted from the fuel, identified and weighed. The report for this test shall be forwarded to the District by January 31 (one month after fuel testing deadline). [District Rule 4102]
32. The District shall be contacted and notified of the proposed date of any fuel testing. [District NSR Rule] Federally Enforceable Through Title V Permit
33. In addition to the scheduled annual fuel testing, testing shall also be performed on urban wood waste on-site within 24 hours of any such request of District staff. [District NSR Rule] Federally Enforceable Through Title V Permit
34. Permittee shall provide a toxics emissions test plan and protocol within 120 operating days of restarting facility and will initiate testing within 60 days of ARB and SJVAPCD approval of the protocol. [District Rule 4102]
35. In accordance with the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (amended June 1993), the facility shall be source tested for the following while fired on the maximum proposed mix of urban wood waste: full set of metals, PAHs, dioxins, furans, formaldehyde, acetaldehyde, PCBs and POM. The ratio of urban wood waste to other fuel combusted during the toxics testing will become the maximum ratio allowed for all subsequent combustion, unless otherwise revised under future Authorities to Construct. [District Rule 4102]
36. Urban woodwaste combustion shall cease within 462 days of operation, beginning the date of facility restart, unless an application for Authority to Construct (ATC), based on refined health risk assessment is filed and approved. [District Rule 4102]
37. Records shall be maintained of the number of days of operation since "restart" occurred. [District Rule 4102]
38. The baghouse shall consist of 2,310 bags with a rating of 226,000 acfm. [District NSR Rule] Federally Enforceable Through Title V Permit
39. All modules of the baghouse shall be equipped with a manometer which shall be calibrated on an annual or more frequent basis. [District NSR Rule] Federally Enforceable Through Title V Permit
40. The multiclone shall consist of a 1,500 hp motor with 200-11.5 inch collector tubes. [District NSR Rule] Federally Enforceable Through Title V Permit
41. The reagent injection system shall consist of a 2,540 cubic foot silo. [District NSR Rule] Federally Enforceable Through Title V Permit
42. The reagent bin for the dry additive injection system shall be under negative pressure whenever reagent is being loaded into the bin. [District NSR Rule] Federally Enforceable Through Title V Permit
43. The ammonia injection system includes 36 nozzles. [District NSR Rule] Federally Enforceable Through Title V Permit
44. The air flow rate and ammonia injection rate shall be monitored continuously and recorded. [District NSR Rule] Federally Enforceable Through Title V Permit
45. Particulate matter emissions in the exhaust gas from this unit shall not exceed 0.03 lb/MMBtu heat input. [40 CFR 60.42Da(a)(1) and (2)] Federally Enforceable Through Title V Permit
46. The opacity of the exhaust gas from this unit shall not exceed 20 percent based on a 6-minute average except for one 6-minute period per hour of not more than 27 percent opacity. [40 CFR 60.42Da(b) and 40 CFR 64.3] Federally Enforceable Through Title V Permit
47. Sulfur dioxide (SO₂) emissions from the biomass unit shall not exceed 1.20 lb/MMBtu heat input. [40 CFR 60.43Da(d)(2)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

48. Sulfur compound emissions shall not exceed 0.2% by volume, 2,000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Madera County Rule 404] Federally Enforceable Through Title V Permit
49. SO₂ emissions shall be calculated based on the arithmetic average of all hourly emissions rates for SO₂ for the 30 successive boiler operating days. [40 CFR 60.48Da(g)] Federally Enforceable Through Title V Permit
50. Except for periods of start-up or shutdown, emissions concentrations in the exhaust from the unit shall not exceed any of the following limits based on a block 24 hour average : 115 ppmv NO_x at 3% O₂ or 400 ppmv CO at 3% O₂. [40 CFR 60.44Da(a) and District Rule 4352, 5.1 & 5.2] Federally Enforceable Through Title V Permit
51. The duration of each shutdown shall not exceed twelve (12) hours except as provided in Section 5.3.4 of District Rule 4352. [District Rule 4352, 5.3.1] Federally Enforceable Through Title V Permit
52. Except as provided in Section 5.3.4 of District Rule 4352, the duration of each start-up shall not exceed 96 hours, or 192 hours if curing of the refractory is required after a modification. [District Rule 4352, 5.3.2] Federally Enforceable Through Title V Permit
53. When two or more fuels are combusted simultaneously, NO_x emissions shall not exceed the prorated emissions calculated using the following formula: $E_n = [86w + 260z]/100$, where: E_n is the applicable standard for nitrogen oxides when multiple fuels are combusted simultaneously (ng/J heat input); w is the percentage of total heat input derived from the combustion of gaseous fuels; and z is the percentage of total heat input derived from the combustion of solid fuels. [40 CFR 60.44Da(c)] Federally Enforceable Through Title V Permit
54. Applicable emissions standards of 40 CFR part 60 for PM, SO₂, and NO_x apply at all times except during the startup, shutdown, or malfunction. [40 CFR 60.48Da(c)] Federally Enforceable Through Title V Permit
55. Continuous Emission Monitoring systems (CEMs) shall be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7 (c) and 60.13. CEMs must also satisfy the Performance Specifications of 40 CFR Part 51 Appendix P and 40 CFR Part 60 Appendix B, Performance Specifications 2, 3, and 4, and the Relative Accuracy Test Audit of Appendix F. [District NSR Rule, District Rules 1080, 6.0 and 4352, 5.5, 40 CFR 49Da(w) and 40 CFR 64.3] Federally Enforceable Through Title V Permit
56. The continuous emissions monitoring systems (CEMs) for NO_x, SO₂, and CO and continuous monitoring system for opacity and O₂ concentration shall be calibrated and maintained operational at all times including the periods of startup, shutdown, malfunction, and emergency conditions, except for the CEMs breakdowns, repairs, calibrate checks, and zero and span adjustments. [40 CFR 60.49Da(a), (b), (c), (d), and (e), 40 CFR 64.3 and District Rule 4352] Federally Enforceable Through Title V Permit
57. Hourly emissions for NO_x (as NO₂), SO₂, and CO shall be based on a consecutive three-hour average as determined by the CEM system. [District Rule 1080] Federally Enforceable Through Title V Permit
58. The owner or operator shall obtain emission data for at least 18 hours in at least 22 hours out of the 30 successive boiler operating days. If this minimum data cannot be obtained, the operator or owner shall supplement emission data with alternate monitoring system approved by the APCO or methods and procedures described in section 60.47a(h) of 40 CFR 60, Subpart Da. [40CFR 60.49Da(f) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
59. The owner or operator shall use methods and procedures described in 40 CFR 60.47a(i) to conduct monitoring system performance evaluations and calibrate checks under subpart 60.13(c) and (d). Alternate methods and procedures described under section 60.47a(j) may also be used. [40 CFR 60.49Da(i) and (j) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
60. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, 7.2 and 40 CFR 64.9] Federally Enforceable Through Title V Permit
61. A violation of NO_x emission standards indicated by the NO_x CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

62. Operator shall notify the APCO shall be notified no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0] Federally Enforceable Through Title V Permit
63. Operators of CEM's installed at the direction of the APCO shall submit a written report for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess occurred. [40 CFR 60.51Da, 40 CFR 64.9 and District Rule 1080, 8.0] Federally Enforceable Through Title V Permit
64. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [40 CFR 64.3] Federally Enforceable Through Title V Permit
65. The baghouse shall operate at all times with a minimum differential pressure of 3 inches water column and a maximum differential pressure of 10 inches water column. [40 CFR Part 64.3] Federally Enforceable Through Title V Permit
66. Differential operating pressure shall be monitored and recorded on each day that the combustor operates. [40 CFR 64.3] Federally Enforceable Through Title V Permit
67. During each day of operation, the permittee shall record the pressure drop of the baghouse, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR 64.7] Federally Enforceable Through Title V Permit
68. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64.7] Federally Enforceable Through Title V Permit
69. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64.9] Federally Enforceable Through Title V Permit
70. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64.8] Federally Enforceable Through Title V Permit
71. Source testing for PM10, SOx, NOx, CO, VOC, and ammonia slip shall be performed at least once every 12 calendar months. [District NSR Rule, District Rule 1081, and District Rule 4352, 6.3.1] Federally Enforceable Through Title V Permit
72. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
73. Stack gas velocity shall be determined using EPA Method 2. Stack gas oxygen shall be determine using EPA Method 3 or 3A (or ARB Method 100). Stack gas moisture content shall be determined using EPA Method 4. Solid fuel higher heating value (hhv) shall be determined using ASTM Method D 2015 or E 711. [District Rule 4352, 6.4.1] Federally Enforceable Through Title V Permit
74. Source testing shall be conducted using the following methods: EPA Method 7E (or CARB Method 100) for NOx (ppmv); EPA Method 19 for NOx (lb/MMBtu heat input); EPA Method 5 for particulate matter (PM); EPA Method 19 for SO2; EPA Method 9 for opacity; EPA method 10 (or CARB method 100) for CO; and EPA Method 18 (or CARB Method 100) for VOC. [District Rule 4352, 6.4.1 and 40 CFR 60.50Da] Federally Enforceable Through Title V Permit
75. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is zero, or is shut off for 30 minutes or longer. [District Rule 4352, 6.3.2 and 6.3.3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

76. The results of each source test and ash sample ion chromatography test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
77. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [District Rule 1080, 7.3.1, 40 CFR 60.7 (b) and 40 CFR 64.9] Federally Enforceable Through Title V Permit
78. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 forty-minute test runs for NOx and CO. This mean shall be multiplied by the appropriate factor. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
79. Enclosure and dust collection system shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
80. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
81. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.