



NOV 10 2011

Mr. Dennis Tristao
J.G. Boswell Company Oil Mill
P.O. Box 457
Corcoran, CA 93212

**Re: Proposed ATC / Certificate of Conformity (Significant Mod)
District Facility # C-1555
Project # C-1113223**

Dear Mr. Tristao:


Enclosed for your review is the District's analysis of an application for Authority to Construct for the facility identified above. The applicant is requesting that a Certificate of Conformity with the procedural requirements of 40 CFR Part 70 be issued with this project. The applicant proposes to correct the equipment description and remove No. 2 fuel oil as a backup fuel and associated conditions.

After addressing any EPA comments made during the 45-day comment period, the Authority to Construct will be issued to the facility with a Certificate of Conformity. Prior to operating with modifications authorized by the Authority to Construct, the facility must submit an application to modify the Title V permit as an administrative amendment, in accordance with District Rule 2520, Section 11.5.

If you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Thank you for your cooperation in this matter.

Sincerely,



David Warner
Director of Permit Services

Enclosures

c: Jesse A. Garcia, Permit Services

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)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
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Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585



NOV 10 2011

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

**Re: Proposed ATC / Certificate of Conformity (Significant Mod)
District Facility # C-1555
Project # C-1113223**

Dear Mr. Rios:

Enclosed for your review is the District's engineering evaluation of an application for Authority to Construct for J.G. Boswell Company Oil Mill 710 Bainum Ave in Corcoran, which has been issued a Title V permit. J.G. Boswell Company Oil Mill is requesting that a Certificate of Conformity, with the procedural requirements of 40 CFR Part 70, be issued with this project. The applicant proposes to correct the equipment description and remove No. 2 fuel oil as a backup fuel and associated conditions.

Enclosed is the engineering evaluation of this application with a copy of the current Title V permit and proposed Authority to Construct # C-1555-11-10 with Certificate of Conformity. After demonstrating compliance with the Authority to Construct, the conditions will be incorporated into the facility's Title V permit through an administrative amendment.

Please submit your written comments on this project within the 45-day comment period that begins on the date you receive this letter. If you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Thank you for your cooperation in this matter.

Sincerely,



David Warner
Director of Permit Services

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c: Jesse A. Garcia, Permit Services

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NOV 10 2011

Mike Tollstrup, Chief
Project Assessment Branch
Air Resources Board
P O Box 2815
Sacramento, CA 95812-2815

**Re: Proposed ATC / Certificate of Conformity (Significant Mod)
District Facility # C-1555
Project # C-1113223**

Dear Mr. Tollstrup:

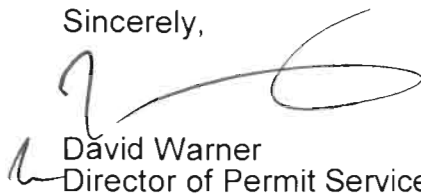
Enclosed for your review is the District's analysis of an application for Authority to Construct for the facility identified above. The applicant is requesting that a Certificate of Conformity with the procedural requirements of 40 CFR Part 70 be issued with this project. The applicant proposes to correct the equipment description and remove No. 2 fuel oil as a backup fuel and associated conditions.

Enclosed is the engineering evaluation of this application with a copy of the current Title V permit and proposed Authority to Construct # C-1555-11-10 with Certificate of Conformity. After demonstrating compliance with the Authority to Construct, the conditions will be incorporated into the facility's Title V permit through an administrative amendment.

Please submit your written comments on this project within the 30-day comment period that begins on the date you receive this letter. If you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Thank you for your cooperation in this matter.

Sincerely,



David Warner
Director of Permit Services

Enclosures

c: Jesse A. Garcia, Permit Services

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Executive Director/Air Pollution Control Officer

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**NOTICE OF PRELIMINARY DECISION
FOR THE ISSUANCE OF AUTHORITY TO CONSTRUCT AND
THE PROPOSED SIGNIFICANT MODIFICATION OF FEDERALLY
MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed significant modification of J.G. Boswell Company Oil Mill for its vegetable oil refinery plant 710 Bainum Ave in Corcoran, California. The applicant proposes to correct the equipment description and remove No. 2 fuel oil as a backup fuel and associated conditions.

The District's analysis of the legal and factual basis for this proposed action, project #C-1113223, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. There are no emission increases associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the modification. If requested by the public, the District will hold a public hearing regarding issuance of this modification. For additional information, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900. Written comments on the proposed initial permit must be submitted within 30 days of the publication date of this notice to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CA 93726-0244.

- Rule 4102** Nuisance (12/17/92)
 - Rule 4201** Particulate Matter Concentration (12/17/92)
 - Rule 4301** Fuel Burning Equipment (12/17/92)
 - Rule 4305** Boilers, Steam Generators, and Process Heaters – Phase 2 (08/21/03)
 - Rule 4306** Boilers, Steam Generators, and Process Heaters – Phase 3 (03/17/05)
 - Rule 4320** Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater Than 5.0 MMBtu/hr (10/16/08)
 - Rule 4351** Boilers, Steam Generators, and Process Heaters – Reasonably Available Control Technology (10/19/95)
 - Rule 4801** Sulfur Compounds (12/17/92)
 - CH&SC 41700** Health Risk Assessment
 - CH&SC 42301.6** School Notice
- Public Resources Code 21000-21177: California Environmental Quality Act (CEQA)
California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000-15387: CEQA Guidelines

III. Project Location

This facility is not located within 1,000 feet of a school. Regardless, there is no increase in emissions of any hazardous air pollutants with this project; therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project.

IV. Process Description

J G Boswell Company operates a natural or propane gas-fired boiler used in the extraction and processing of vegetable seed oil.

The applicant has indicated the boiler will perform 52 cycles of start-up and shutdown. Each cycle consisting of start-up and shutdown will last 2 hours.

The operating schedule is 24 hr/day, 7 days/week, and 52 weeks/year.

V. Process Description

Pre-Project Equipment Description:

C-1555-11-8: 34.8 MMBTU/HR SUPERIOR SEMINOLE MODEL 6C-4000 NATURAL GAS-FIRED OR PROPANE-FIRED BOILER EQUIPPED WITH A LOW NOX BURNER SERVED BY A SELECTIVE CATALYTIC REDUCTION SYSTEM AND WITH NO 2 FUEL OIL AS BACKUP FUEL

ATC Equipment Description:

C-1555-11-10: MODIFICATION OF 34.8 MMBTU/HR SUPERIOR SEMINOLE MODEL 6C-4000 NATURAL GAS-FIRED OR PROPANE-FIRED BOILER EQUIPPED WITH A LOW NOX BURNER SERVED BY A SELECTIVE

CATALYTIC REDUCTION SYSTEM AND WITH NO 2 FUEL OIL AS BACKUP FUEL: REMOVE FUEL OIL #2 AS BACKUP FUEL

Post Project Equipment Description:

C-1555-11-10: 34.8 MMBTU/HR SUPERIOR SEMINOLE MODEL 6C-4000 NATURAL GAS-FIRED OR PROPANE-FIRED BOILER EQUIPPED WITH A LOW NOX BURNER SERVED BY A SELECTIVE CATALYTIC REDUCTION SYSTEM AND WITH NO 2 FUEL OIL AS BACKUP FUEL

VI. Emission Control Technology Evaluation

Selective Catalytic Reduction (SCR) operates as an external control device where flue gas and a reagent, ammonia or urea, are passed through an appropriate catalyst. Ammonia, or urea, is injected upstream of the catalyst where it reacts and reduces NO_x, over the catalyst bed, to form elemental nitrogen and other by-products. The use of a catalyst allows the reactions to occur at lower temperatures. NO_x reduction efficiencies are typically about 90%.

VII. General Calculations

This project does not meet the criteria for a Rule 2201 Modification, as defined in Section 3.25, and is therefore not subject to the requirements of Rule 2201. Therefore, formal calculations for Rule 2201 are not required and only the Potential to Emit (PE) will be calculated for reference purposes. The calculation are taken from project C-1051100 and are modified as follows:

A. Assumptions

- The unit is fired on PUC regulated natural gas as the primary fuel and propane as the secondary fuel
- Propane combustion limited to 4,400 gal/day (per current permit)
- Annual pre-project and post-project potential to emit is calculated based on 8,760 hours of operation per year
- Annual emissions for back up fuel is based on 216 hours per year (per current permit)
- Start-up/shutdown cycles to last 2 hours total with a frequency of 52 times per year
- Start-up/shutdown emissions are the expected emissions without benefit of the SCR and therefore only NO_x emissions will revert to pre-project emission factors since it is the only pollutant reduced by the use of an SCR system
- Natural Gas Heating Value: 1,000 Btu/scf (AP 42 Section 1.4)
- F-Factor for Natural Gas: 8,710 dscf/MMBtu at 68°F (40 CFR 60)
- Propane Heating Value: 91.5 MMBtu/10³ gallons (AP 42 Section 1.5)
- F-Factor for Propane: 8,710 dscf/MMBtu at 68°F (40 CFR 60)

B. Emission Factors

Pollutant	Natural Gas as Primary Fuel		Source
NO _x	0.007 lb-NO _x /MMBtu	6 ppmv NO _x (@ 3%O ₂)	Current Permit
SO _x	0.00285 lb-SO _x /MMBtu		Current Permit
PM ₁₀	0.005 lb-PM ₁₀ /MMBtu		Current Permit
CO	0.031 lb-CO/MMBtu	42 ppmv CO (@ 3%O ₂)	Current Permit
VOC	0.00067 lb-VOC/MMBtu		Current Permit

Pollutant	Propane as Alternate Primary Fuel		Source
NO _x	0.007 lb-NO _x /MMBtu	6 ppmv NO _x (@ 3%O ₂)	Current Permit
SO _x	0.0109 lb-SO _x /MMBtu		Current Permit
PM ₁₀	0.0066 lb-PM ₁₀ /MMBtu		Current Permit
CO	0.035 lb-CO/MMBtu	48 ppmv CO (@ 3%O ₂)	Current Permit
VOC	0.00139 lb-VOC/MMBtu		Current Permit

Pollutant	Natural Gas/Propane without SCR		Source
NO _x	0.036 lb-NO _x /MMBtu	30 ppmv NO _x (@ 3%O ₂)	Current Permit

C. Calculations

The annual emissions are based on the unit cycling through 52 start-up/shutdowns each cycle lasting a maximum of 2 hours.

The Post-Project Potential to Emit (PE2) is calculated as follows:

Pollutant	Daily Potential to Emit (PE2) - Primary Fuel (Natural Gas)			
	Emission Factors	Heat input	Hours per day	Total
NO _x	0.0070 (lb-NO _x /MMBtu)	x 34.8 (MMBtu/hr)	x 24 (hr/day)	= 5.8 (lb-NO _x /day)
SO _x	0.00285 (lb-SO _x /MMBtu)	x 34.8 (MMBtu/hr)	x 24 (hr/day)	= 2.4 (lb-SO _x /day)
PM ₁₀	0.0050 (lb-PM ₁₀ /MMBtu)	x 34.8 (MMBtu/hr)	x 24 (hr/day)	= 4.2 (lb-PM ₁₀ /day)
CO	0.0310 (lb-CO/MMBtu)	x 34.8 (MMBtu/hr)	x 24 (hr/day)	= 25.9 (lb-CO/day)
VOC	0.00067 (lb-VOC/MMBtu)	x 34.8 (MMBtu/hr)	x 24 (hr/day)	= 0.6 (lb-VOC/day)

Pollutant	Daily Potential to Emit (PE2) - Alternate Fuel (Propane)			
	Emission Factors	Heat input	Hours per day	Total
NO _x	0.0070 (lb-NO _x /MMBtu)	x 34.8 (MMBtu/hr)	x 12 (hr/day)	= 2.9 (lb-NO _x /day)
SO _x	0.01090 (lb-SO _x /MMBtu)	x 34.8 (MMBtu/hr)	x 12 (hr/day)	= 4.6 (lb-SO _x /day)
PM ₁₀	0.0066 (lb-PM ₁₀ /MMBtu)	x 34.8 (MMBtu/hr)	x 12 (hr/day)	= 2.8 (lb-PM ₁₀ /day)
CO	0.0350 (lb-CO/MMBtu)	x 34.8 (MMBtu/hr)	x 12 (hr/day)	= 14.6 (lb-CO/day)
VOC	0.00139 (lb-VOC/MMBtu)	x 34.8 (MMBtu/hr)	x 12 (hr/day)	= 0.6 (lb-VOC/day)

The facility has the potential to use any combination of the available fuels to give the highest potential to emit. The worst case is made up of using the fuel with the highest emission factor and then, if there is any remaining hours left, burning the fuel with the next highest emission factor. The start-up/shutdown cycle of two hours are included in the estimations for NO_x since emissions will revert to pre-SCR use. The table below will summarize the worst case scenario for each pollutant.

Pollutant	Daily Worst Case Calculation	Daily PE2
NO _x	34.8 MMBtu/hr (0.036 lb/MMBtu x 2 hr + 0.007 lb/MMBtu x 22 hr)	7.9 lb-NO _x /day
SO _x	34.8 MMBtu/hr (0.0109 lb/MMBtu x 12 hr + 0.00285 lb/MMBtu x 12 hr)	5.7 lb-SO _x /day
PM ₁₀	34.8 MMBtu/hr (0.0066 lb/MMBtu x 12 hr + 0.0050 lb/MMBtu x 12 hr)	4.8 lb-PM ₁₀ /day
CO	34.8 MMBtu/hr (0.0350 lb/MMBtu x 12 hr + 0.0310 lb/MMBtu x 12 hr)	27.6 lb-CO ₀ /day
VOC	34.8 MMBtu/hr (0.00139 lb/MMBtu x 12 hr + 0.00067 lb/MMBtu x 12 hr)	0.9 lb-VOC/day

Annual PE2

Similarly the annual potential to emit may involve combusting propane for some portion of the total hours of use and the remainder of the time for burning natural gas. The following calculations detail each pollutants worst case scenario for maximizing emissions from the combustion of the primary fuels, natural gas or propane.

NO_x

The worst case scenario is burning 104 hours (52 shutdown/start-up cycles x 2 hrs/cycle) on natural gas or propane without the use of the SCR system, and the remainder on natural gas or propane with the SCR, therefore:

$$\begin{aligned} PE_{NO_x} &= 34.8 \text{ MMBtu/hr} \times [(0.007 \text{ lb/MMBtu} \times 8,656 \text{ hr/yr}) + (0.036 \text{ lb/MMBtu} \times 104 \text{ hr/yr})] \\ &= 2,239 \text{ lb/yr} \end{aligned}$$

SO_x

The worst case scenario is burning the allotted 4,380 hours (12 hr/day x 365 days) on propane and the remainder of 4,380 hours on natural gas, therefore:

$$\begin{aligned} PE_{SO_x} &= 34.8 \text{ MMBtu/hr} \times [(0.0109 \text{ lb/MMBtu} \times 4,380 \text{ hr/yr}) \\ &\quad + (0.00285 \text{ lb/MMBtu} \times 4,380 \text{ hr/yr})] \\ &= 2,096 \text{ lb/yr} \end{aligned}$$

PM₁₀

The worst case scenario is burning the allotted 4,380 hours (12 hr/day x 365 days) on propane and the remainder of 4,380 hours on natural gas, therefore:

$$\begin{aligned} PE_{PM_{10}} &= 34.8 \text{ MMBtu/hr} \times [(0.0066 \text{ lb/MMBtu} \times 4,380 \text{ hr/yr}) \\ &\quad + (0.0050 \text{ lb/MMBtu} \times 4,380 \text{ hr/yr})] \\ &= 1,768 \text{ lb/yr} \end{aligned}$$

CO

The worst case scenario is burning the allotted 4,380 hours (12 hr/day x 365 days) on propane and the remainder of 4,380 hours on natural gas, therefore:

$$\begin{aligned} PE_{CO} &= 34.8 \text{ MMBtu/hr} \times [(0.035 \text{ lb/MMBtu} \times 4,380 \text{ hr/yr}) + (0.031 \text{ lb/MMBtu} \times 4,380 \text{ hr/yr})] \\ &= 9,827 \text{ lb/yr} \end{aligned}$$

VOC

The worst case scenario is burning the allotted 4,380 hours (12 hr/day x 365 days) on propane and the remainder of 4,380 hours on natural gas, therefore:

$$\begin{aligned} PE_{VOC} &= 34.8 \text{ MMBtu/hr} \times [(0.00139 \text{ lb/MMBtu} \times 4,380 \text{ hr/yr}) \\ &\quad + (0.00067 \text{ lb/MMBtu} \times 4,380 \text{ hr/yr})] \\ &= 313 \text{ lb/yr} \end{aligned}$$

The annual PE2 is summarized below.

Pollutant	Annual PE2
NO _x	2,239 lb-NO _x /yr
SO _x	2,096 lb-SO _x /yr
PM ₁₀	1,768 lb-PM ₁₀ /yr
CO	9,827 lb-CO ₀ /yr
VOC	313 lb-VOC/yr

VIII. COMPLIANCE

Rule 2201 New and Modified Stationary Source Review Rule

Rule 2201 applies to all new stationary sources and all modifications to existing stationary sources which are subject to District permit requirements and after construction emit or may emit one or more affected pollutant. Per Section 3.25, a modification is defined as the following:

- Any change in hours of operation, production rate, or method of operation of an existing emissions unit, which would necessitate a change in permit conditions.
- Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions. Routine replacement shall not be considered to be a structural change.
- An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation.
- Addition of any new emissions unit which is subject to District permitting requirements.
- A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject.

As shown above, the proposed project only deals with correcting the equipment description to remove fuel oil #2 as backup. The proposed changes do not result in an increase in the hours of operation or warrant a change in their method of operation. In addition, there will not be any structural changes as a result of this project. There will not be any new emission units or any increases in emissions from any emissions units operated at this facility. The applicant is not proposing these changes to obtain an exemption from any applicable requirement to which the source would otherwise be subject. Therefore, the proposed project does not meet the definition of a modification within Rule 2201 and the requirements of this rule are not applicable to this project. No further discussion is required.

Rule 2520 Federally Mandated Operating Permits

This facility is subject to this Rule, and has received their Title V Operating Permit. Section 3.29 defines a significant permit modification as a "permit amendment that does not qualify as a minor permit modification or administrative amendment."

Section 3.20.2 states that a minor permit modifications “Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions”. The recordkeeping requirements will no longer require that no. 2 fuel oil records be kept, which is a relaxation in recordkeeping conditions. As a result, the proposed project constitutes a Significant Modification to the Title V Permit pursuant to Section 3.29.

As discussed above, the facility has applied for a Certificate of Conformity (COC); therefore, the facility must apply to modify their Title V permit with an administrative amendment, prior to operating with the proposed modifications. Continued compliance with this rule is expected. The facility shall not implement the changes requested until the final permit is issued.

Rule 4001 New Source Performance Standards NSPS Subparts Db Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (> 100 MMBtu/hr) and Dc Standards of Performance for Small Industrial-Commercial Institutional Steam Generating Units (> 10 MMBtu/hr and < 100 MMBtu/hr)

NSPS Subparts Db and Dc apply to steam generating units that are constructed, reconstructed, or modified after 6/19/84 and 6/9/89, respectively. No newly constructed or reconstructed units are proposed in this project. Furthermore, the units are not modified (as defined in NSPS Subpart A), because there is no increase in emissions for pollutants regulated by the applicable standards, in this case SO_x, PM₁₀, or NO_x. Subpart Db has standards SO_x, PM₁₀, and NO_x, and Subpart Dc has standards for PM₁₀.

Therefore, the subject units are not subject to NSPS as a result of this project.

Rule 4101 Visible Emissions

Rule 4101 states that 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.

The existing permit conditions will be retained on the proposed permit to ensure compliance.

Rule 4102 Nuisance

Section 4.0 prohibits discharge of air contaminants which could cause injury, detriment, nuisance or annoyance to the public. Public nuisance conditions are not expected as a result of these operations, provided the equipment is well maintained as required by permit conditions. Therefore, compliance with this rule is expected.

Rule 4201 Particulate Matter Concentration

Section 3.1 prohibits discharge of dust, fumes, or total particulate matter into the atmosphere from any single source operation in excess of 0.1 grain per dry standard cubic foot.

Natural Gas Combustion:

F-Factor for Natural Gas: 8,710 dscf/MMBtu at 68 °F, equivalent to

$$\text{Corrected } F - \text{factor} = \left(\frac{8,710 \text{ dscf}}{\text{MMBtu}} \right) \times \left(\frac{60^\circ F + 459.6}{68^\circ F + 459.6} \right) = 8,578 \frac{\text{dscf}}{\text{MMBtu}} \text{ at } 60^\circ F$$

PM ₁₀ Emission Factor:	0.0076 lb-PM ₁₀ /MMBtu
Percentage of PM as PM ₁₀ in Exhaust:	100%
Exhaust Oxygen (O ₂) Concentration:	3%
Excess Air Correction to F Factor =	$\frac{20.9}{(20.9 - 3)} = 1.17$

$$GL = \left(\frac{0.0076 \text{ lb} - \text{PM}}{\text{MMBtu}} \times \frac{7,000 \text{ grain}}{\text{lb} - \text{PM}} \right) / \left(\frac{8,578 \text{ ft}^3}{\text{MMBtu}} \times 1.17 \right)$$

$$GL = 0.0053 \text{ grain/dscf} < 0.1 \text{ grain/dscf}$$

Propane Combustion:

F-Factor for Propane: 8,710 dscf/MMBtu at 68 °F, equivalent to

$$\text{Corrected } F - \text{factor} = \left(\frac{8,710 \text{ dscf}}{\text{MMBtu}} \right) \times \left(\frac{60^\circ F + 459.6}{68^\circ F + 459.6} \right) = 8,578 \frac{\text{dscf}}{\text{MMBtu}} \text{ at } 60^\circ F$$

$$\begin{aligned}
 & \text{PM}_{10} \text{ Emission Factor:} && 0.0066 \text{ lb-PM}_{10}/\text{MMBtu} \\
 & \text{Percentage of PM as PM}_{10} \text{ in Exhaust:} && 100\% \\
 & \text{Exhaust Oxygen (O}_2\text{) Concentration:} && 3\% \\
 & \text{Excess Air Correction to F Factor} = && \frac{20.9}{(20.9 - 3)} = 1.17
 \end{aligned}$$

$$GL = \left(\frac{0.0066 \text{ lb-PM}}{\text{MMBtu}} \times \frac{7,000 \text{ grain}}{\text{lb-PM}} \right) / \left(\frac{8,578 \text{ ft}^3}{\text{MMBtu}} \times 1.17 \right)$$

$$GL = 0.0046 \text{ grain/dscf} < 0.1 \text{ grain/dscf}$$

Therefore, compliance with District Rule 4201 requirements is expected and the existing permit conditions will be retained on the proposed permit to ensure compliance.

Rule 4301 Fuel Burning Equipment

This rule specifies maximum emission rates in lb/hr for SO₂, NO₂, and combustion contaminants (defined as total PM in Rule 1020). This rule also limits combustion contaminants to ≤ 0.1 gr/scf. According to AP 42 (Table 1.4-2, footnote c), all PM emissions from natural gas combustion are less than 1 μm in diameter.

District Rule 4301 Limits			
Pollutant	NO ₂	Total PM	SO ₂
Natural Gas	0.2	0.2	0.1
Propane	0.2	0.23	0.4
Rule Limit (lb/hr)	140	10	200

The above table indicates compliance with the maximum lb/hr emissions in this rule; therefore, continued compliance is expected.

Rule 4305 Boilers, Steam Generators, and Process Heaters – Phase 2

The subject unit is subject to Rule 4305, *Boilers, Steam Generators and Process Heaters – Phase 2*.

In addition, the unit is also subject to District Rule 4320. Since emissions limits of Rule 4320 and all other requirements are equivalent or more stringent than District Rule 4305 requirements, compliance with District Rule 4320 requirements will satisfy requirements of District Rule 4305.

Therefore, compliance with District Rule 4305 requirements is expected and no further discussion is required.

Rule 4306 Boilers, Steam Generators, and Process Heaters – Phase 3

The unit is subject to District Rule 4306, *Boilers, Steam Generators and Process Heaters – Phase 3*.

Since emissions limits of District Rule 4320 and all other requirements are equivalent or more stringent than District Rule 4306 requirements, compliance with District Rule 4320 requirements will satisfy requirements of District Rule 4306.

Therefore, compliance with District Rule 4306 requirements is expected and no further discussion is required.

Rule 4320 Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr

Section 5.2 NOx and CO Emission Limits

The unit is subject to the following NOx limits in Table 2, as shown below.

The applicant has proposed to meet the standard schedule NOx emission limit.

Rule 4320 Emissions Limits				
Category	Operated on gaseous fuel		Operated on liquid fuel	
	NO _x Limit	CO Limit	NO _x Limit	CO Limit
A. Units with a total rated heat input > 5.0 MMBtu/hr to < 20.0 MMBtu/hr, except for Categories C through G units	a) Standard Schedule 9 ppmv or 0.011 lb/MMBtu; or	400 ppmv	40 ppmv or 0.052 lb/MMBtu	400 ppmv
	b) Enhanced Schedule 6 ppmv or 0.007 lb/MMBtu			
B. Units with a total rated heat input > 20.0 MMBtu/hr, except for Categories C through G units	a) Standard Schedule 7 ppmv or 0.008 lb/MMBtu; or	400 ppmv	40 ppmv or 0.052 lb/MMBtu	400 ppmv
	b) Enhanced Schedule 5 ppmv or 0.0062 lb/MMBtu			

- the existing NO_x emission factor is 6 ppmvd @ 3% O₂ (0.007 lb/MMBtu), and
- the existing CO emission factor is 42 ppmvd @ 3% O₂ (0.031 lb/MMBtu)

Therefore, continued compliance with Sections 4.2 and 5.2 of District Rule 4320 is expected.

The existing permit conditions will be retained on the proposed permit to ensure compliance.

Section 5.4 Particulate Matter Control Requirements

Section 5.4 of the rule requires one of four options for control of particulate matter: 1) combustion of PUC-quality natural gas, commercial propane, butane, or liquefied petroleum gas, or a combination of such gases, 2) limit fuel sulfur content to no more than five (5) grains of total sulfur per one hundred (100) standard cubic, 3) install and properly operate an emission control system that reduces SO₂ emissions by at least 95% by weight; or limit exhaust SO₂ to less than or equal to 9 ppmv corrected to 3.0% O₂ or 4) refinery units, which require modification of refinery equipment to reduce sulfur emissions, shall be in compliance with the applicable requirement in Section 5.4.1 no later than July 1, 2013.

The applicant proposes to comply by firing on PUC-quality natural gas or LPG.

The following conditions ensure compliance with this section:

- The unit shall only be fired on PUC-regulated natural gas or propane. [District NSR Rule, District Rules 4301, 5.2.1, and 4320 and 40 CFR § 60.42c(d)]

Section 5.6, Startup and Shutdown Provisions

Applicable emissions limits are not required during startup and shutdown provided The duration of each start-up or each shutdown shall not exceed two hours, the emission control system shall be in operation and emissions shall be minimized insofar as technologically feasible during start-up or shutdown or operator has submitted an application for a Permit to Operate condition to allow more than two hours for each start-up or each shutdown provided the operator meets all of the conditions specified in Sections 5.6.3.1 through 5.6.3.3.

The existing permit conditions will be retained on the proposed permit to ensure compliance.

Section 5.7, Monitoring Provisions

Section 5.7 requires either use of a APCO approved Continuous Emissions Monitoring System (CEMS) for NO_x, CO, and oxygen, or implementation of an APCO-approved Alternate Monitoring System.

In order to satisfy the requirements of District Rule 4320, the applicant has proposed to continue use pre-approved alternate monitoring scheme H (pursuant to District Policy SSP-1105), which requires that monitoring of NO_x, CO, NH₃ and O₂ exhaust concentrations shall be conducted at least once per month (in which a source test is not performed) using a portable analyzer.

The existing permit conditions will be retained on the proposed permit to ensure compliance.

5.7.6 Monitoring SO_x Emissions

Section 5.7.6.1 Operators complying with Sections 5.4.1.1 or 5.4.1.2 shall provide an annual fuel analysis to the District unless a more frequent sampling and reporting period is included in the Permit To Operate. Sulfur analysis shall be performed in accordance with the test methods in Section 6.2.

Section 5.7.6.2 Operators complying with Section 5.4.1.3 by installing and operating a control device with 95% SO_x reduction shall propose the key system operating parameters and frequency of the monitoring and recording. The monitoring option proposed shall be submitted for approval by the APCO.

Section 5.7.6.3 Operators complying with Section 5.4.1.3 shall perform an annual source test unless a more frequent sampling and reporting period is included in the Permit To Operate. Source tests shall be performed in accordance with the test methods in Section 6.2.

The existing permit conditions will be retained on the proposed permit to ensure compliance.

Section 5.8, Compliance Determination

The unit currently operates in compliance with the Compliance Determination requirements of Section 5.8. No proposed changes to these requirements are proposed.

Section 6.1 Recordkeeping

No proposed changes to recordkeeping requirements are proposed.

Section 6.2 Test Methods

No proposed changes to test methods are proposed.

Section 6.3 Compliance Testing

Section 6.3.1 requires that this unit be tested to determine compliance with the applicable requirements of section 5.2 not less than once every 12 months (no more than 30 days before or after the required annual source test date). Upon demonstrating compliance on two consecutive compliance source tests, the following source test may be deferred for up to thirty-six months.

Section 6.3.1.1 Units that demonstrate compliance on two consecutive 12-month source tests may defer the following 12-month source test for up to 36 months (no more than 30 days before or after the required 36-month source test date). During the 36-month source testing interval, the operator shall tune the unit in accordance with the provisions of Section 5.5.1, and shall monitor, on a monthly basis, the unit's operational characteristics recommended by the manufacturer to ensure compliance with the applicable emission limits specified in Section 5.2.

Section 6.3.1.2 Tune-ups required by Sections 5.5.1 and 6.3.1 do not need to be performed for units that operate and maintain an APCO approved CEMS or an APCO approved Alternate Monitoring System where the applicable emission limits are periodically monitored.

Section 6.3.1.3 If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits specified in Section 5.2, the source testing frequency shall revert to at least once every 12 months.

The existing permit conditions will be retained on the proposed permit to ensure compliance.

Sections 6.3.2.1 through 6.3.2.7 address the requirements of group testing which is not proposed in this project. Therefore these sections are not applicable.

Conclusion

Conditions will be incorporated into the permit in order to ensure compliance with each section of this rule, see attached draft permit(s). Therefore, compliance with District Rule 4320 requirements is expected.

Rule 4351 Boilers, Steam Generators, and Process Heaters – Reasonably Available Control Technology

This rule applies to boilers, steam generators, and process heaters at NO_x Major Sources that are not located west of Interstate 5 in Fresno, Kings, or Kern counties. If applicable, the emission limits, monitoring provisions, and testing requirements of this rule are satisfied when the unit is operated in compliance with Rules 4306 and 4320. Therefore, compliance with this rule is expected.

Rule 4801 Sulfur Compounds

A person shall not discharge into the atmosphere sulfur compounds, which would exist as a liquid or gas at standard conditions, exceeding in concentration at the point of discharge: 0.2 % by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes.

Using the ideal gas equation and the emission factors presented in Section VII, the sulfur compound emissions are calculated as follows:

$$\text{Volume SO}_2 = \frac{n RT}{P}$$

With:

N = moles SO₂

T (Standard Temperature) = 60°F = 520°R

P (Standard Pressure) = 14.7 psi

R (Universal Gas Constant) = $\frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{mol} \cdot ^\circ\text{R}}$

Natural Gas Combustion:

EPA F-Factor for Natural Gas: 8,710 dscf/MMBtu at 68 °F, equivalent to

$$\text{Corrected F - factor} = \left(\frac{8,710 \text{ dscf}}{\text{MMBtu}} \right) \times \left(\frac{60^\circ \text{F} + 459.6}{68^\circ \text{F} + 459.6} \right) = 8,578 \frac{\text{dscf}}{\text{MMBtu}} \text{ at } 60^\circ \text{F}$$

$$\frac{0.00285 \text{ lb} - \text{SO}_x}{\text{MMBtu}} \times \frac{\text{MMBtu}}{8,578 \text{ dscf}} \times \frac{1 \text{ lb} \cdot \text{mol}}{64 \text{ lb}} \times \frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{mol} \cdot ^\circ\text{R}} \times \frac{520^\circ \text{R}}{14.7 \text{ psi}} \times \frac{1,000,000 \cdot \text{parts}}{\text{million}} = 1.97 \frac{\text{parts}}{\text{million}}$$

$$\text{Sulfur Concentration} = 1.97 \frac{\text{parts}}{\text{million}} < 2,000 \text{ ppmv (or 0.2\%)}$$

Propane Combustion:

F-Factor for Propane: 8,710 dscf/MMBtu at 68 °F, equivalent to

$$\text{Corrected } F - \text{factor} = \left(\frac{8,710 \text{ dscf}}{\text{MMBtu}} \right) \times \left(\frac{60^\circ F + 459.6}{68^\circ F + 459.6} \right) = 8,578 \frac{\text{dscf}}{\text{MMBtu}} \text{ at } 60^\circ F$$

$$\frac{0.0164 \text{ lb} - \text{SOx}}{\text{MMBtu}} \times \frac{\text{MMBtu}}{8,578 \text{ dscf}} \times \frac{1 \text{ lb} \cdot \text{mol}}{64 \text{ lb}} \times \frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{mol} \cdot ^\circ R} \times \frac{520^\circ R}{14.7 \text{ psi}} \times \frac{1,000,000 \cdot \text{parts}}{\text{million}} = 11 \frac{\text{parts}}{\text{million}}$$

$$\text{Sulfur Concentration} = 11 \frac{\text{parts}}{\text{million}} < 2,000 \text{ ppmv (or 0.2\%)}$$

Therefore, compliance with District Rule 4801 requirements is expected.

California Health & Safety Code 42301.6 (School Notice)

The District has verified that this site is not located within 1,000 feet of a K-12 school. Therefore, pursuant to California Health & Safety Code 42301.6, a school notice is not required.

California Environmental Quality Act (CEQA)

The California Environmental Quality Act (CEQA) requires each public agency to adopt objectives, criteria, and specific procedures consistent with CEQA Statutes and the CEQA Guidelines for administering its responsibilities under CEQA, including the orderly evaluation of projects and preparation of environmental documents. The San Joaquin Valley Unified Air Pollution Control District (District) adopted its *Environmental Review Guidelines* (ERG) in 2001. The basic purposes of CEQA are to:

- Inform governmental decision-makers and the public about the potential, significant environmental effects of proposed activities;
- Identify the ways that environmental damage can be avoided or significantly reduced;
- Prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives or mitigation measures when the governmental agency finds the changes to be feasible; and
- Disclose to the public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.

The District performed an Engineering Evaluation (this document) for the proposed project and determined that all project specific emission unit(s) are exempt from Best Available Control Technology (BACT) requirements. Furthermore, the District conducted a Risk Management Review and concludes that potential health impacts are less than significant.

Issuance of permits for emissions units not subject to BACT requirements and with health impact less than significant is a matter of ensuring conformity with applicable District rules and regulations and does not require discretionary judgment or deliberation. Thus, the District concludes that this permitting action constitutes a ministerial approval. Section 21080 of the Public Resources Code exempts from the application of CEQA those projects over which a public agency exercises only ministerial approval. Therefore, the District finds that this project is exempt from the provisions of CEQA.

IX. Recommendation

Issue Authority to Construct C-1555-11-10 subject to the permit conditions listed on the draft Authority to Construct.

X. Billing Information

Permit Number	Fee Schedule	Fee Description	Annual Fee
C-1555-11-10	3020-2-H	34.8 MMBtu/hr	\$1030

Appendices

- I. Current Permit to Operate
- II. Draft ATC

Appendix I

Current Permit to Operate

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-1555-11-8

EXPIRATION DATE: 11/30/2007

EQUIPMENT DESCRIPTION:

34.8 MMBTU/HR SUPERIOR SEMINOLE MODEL 6C-4000 BOILER EQUIPPED WITH LO NOX FGR AND SELECTIVE CATALYTIC REDUCTION DESIGNED TO OPERATE ON NATURAL GAS WITH NO 2 FUEL OIL AS BACKUP

PERMIT UNIT REQUIREMENTS

1. On and after July 1, 2010, the permittee shall submit an analysis showing the fuel's sulfur content at least once every year. Valid purchase contracts, supplier certifications, tariff sheets, or transportation contracts may be used to satisfy this requirement, provided they establish the fuel parameters mentioned above. [District Rule 4320]
2. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
3. 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
4. The unit shall only be fired on PUC-regulated natural gas, propane, or fuel oil #2 as a backup fuel with a sulfur content not to exceed 0.05%. [District NSR Rule, District Rule 4301, 5.2.1, and 40 CFR § 60.42c(d)] Federally Enforceable Through Title V Permit
5. Propane consumption shall not exceed 4,400 gallons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
6. In the event #2 fuel oil must be used, no more than 5,239 gallons per day may be burned. [District NSR Rule] Federally Enforceable Through Title V Permit
7. In the event #2 fuel oil is burned, the applicant shall notify the District within 24 hours of firing with #2 fuel oil. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Further testing of the equipment as necessary for the determination of compliance with the rule and regulations of the District may be required at any time. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The owner/operator shall perform a visible emissions check using EPA Method 9 upon initial firing with fuel oil. Additional checks shall be performed using EPA Method 9 during any year in which fuel oil firing exceeds 200 hours. [District Rule 2520, 9.4.2 and District Rule 4101] Federally Enforceable Through Title V Permit
10. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO₂, nor 10 lb/hr. [District Rule 4201 and District Rule 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
11. Operator shall ensure that all required source testing conforms to the compliance testing procedures described in District Rule 1081. [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)] Federally Enforceable Through Title V Permit
12. If the unit is fired on diesel fuel that is not supplier-certified 0.05% sulfur content or less, then the sulfur content of the fuel being fired in the unit shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] 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. If the unit has a heat input capacity greater than 30 MMBtu/hr, and is at any time fired on oil, the operator shall, while fired on oil, limit the opacity of any discharged gases to 20% opacity (6 minute average) except for one 6 minute period per hour of not more than 27% opacity; Method 9 shall be used for determining the opacity of stack emissions at annual inspections while firing on diesel fuel. [40 CFR [±] 60.43c (c)(d) and 60.45c(a)(7)] Federally Enforceable Through Title V Permit
14. If the unit is fired on diesel fuel that is not supplier-certified 0.05% sulfur content or less, the sulfur content of each fuel source shall be tested weekly, except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be semi-annually. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
15. Operator shall maintain copies of fuel invoices and supplier certifications. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Operator shall provide that fuel hhv be certified by third party fuel supplier or determined annually by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2520, 9.3.2; 4305, 6.2.1; and 4351, 6.2.1] Federally Enforceable Through Title V Permit
17. Nitrogen oxide (NO_x) emission concentrations in ppmv referenced at dry stack emissions shall be corrected to 3% O₂ and lb/MMBtu rates shall be calculated as lb NO₂/MMBtu of heat input (hhv). [District Rule 4305, 8.1 and 4351, 8.1] Federally Enforceable Through Title V Permit
18. Operator of units simultaneously firing gaseous and liquid fuels shall install and maintain totalizing mass or volumetric flow rate meters in each fuel line to each unit. Volumetric flow rate meters shall be installed in conjunction with temperature and pressure measurement devices. [District Rule 4305, 5.3.1 and District Rule 4351, 5.6.1] Federally Enforceable Through Title V Permit
19. Operator shall monitor and record for each unit the hhv and cumulative annual use of each fuel. [District Rule 4305, 6.1.1 and District Rule 4351, 6.1.1] Federally Enforceable Through Title V Permit
20. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 405 (Madera), 408 and 409 (Kern), and 408 (all six remaining counties in the San Joaquin Valley); Rule 404 (Madera) 406 (Fresno), and 407 (all six remaining counties in the San Joaquin Valley); SJVUAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
21. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 4201 and 4301. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
22. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
23. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 4305, Sec. 4.2, 5.1.1, 5.1.2., 5.4, 6.1.1, 6.2 (excepting 6.2.3), 6.3, 8.1 and Rule 4351 Sec 4.2, 5.2.2.1, 5.2.2.2, 6.1.1, 6.2 (excepting 6.2.3), 8.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
24. The requirements of 40 CFR 72.6(b) are not applicable because this is not an affected unit under the acid rain provisions. The requirements of 40 CFR 60.40c do not apply to this source because it is not used to produce electricity for sale. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
25. The unit shall be fired on fuel oil #2 only during natural gas curtailment for no more than 168 cumulative hours in a calendar year plus 48 hours per calendar year for equipment testing. [District NSR Rule and District Rules 4306, and 4320] 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.

26. If the unit is fired on back-up fuel for a period exceeding 48 cumulative hours in a calendar year, the permittee shall monitor and record the stack concentration of NO_x at least once during that year using an APCO approved portable NO_x analyzer. Monitoring for back-up fuel NO_x emissions shall not be required when the unit is operating on primary fuel, i.e. the unit need not be fired on back-up fuel solely to perform monitoring. [District Rules 4306, and 4320] Federally Enforceable Through Title V Permit
27. Back-up fuel NO_x emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4306, and 4320] Federally Enforceable Through Title V Permit
28. The permittee shall maintain records of: (1) the date and time of back-up fuel NO_x measurements, (2) the measured back-up fuel NO_x concentration (in ppmv or lb/MMBtu) corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4306, and 4320] Federally Enforceable Through Title V Permit
29. Except during start-up and shutdown, when fired on natural gas, emissions rates from the unit shall not exceed any of the following limits: 6 ppmv NO_x @ 3% O₂ or 0.007 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.005 lb-PM10/MMBtu, 42 ppmv CO @ 3% O₂ or 0.031 lb-CO/MMBtu, or 0.00067 lb-VOC/MMBtu. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
30. Except during start-up and shutdown, when fired on propane, emissions rates from the unit shall not exceed any of the following limits: 6 ppmv NO_x @ 3% O₂ or 0.007 lb-NO_x/MMBtu, 0.0109 lb-SO_x/MMBtu, 0.0066 lb-PM10/MMBtu, 48 ppmv CO @ 3% O₂ or 0.035 lb-CO/MMBtu, or 0.00139 lb-VOC/MMBtu. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
31. When fired on fuel oil #2, emissions rates from the unit shall not exceed any of the following limits: 112 ppmv NO_x @ 3% O₂ or 0.143 lb-NO_x/MMBtu, 0.0507 lb-SO_x/MMBtu, 0.0143 lb-PM10/MMBtu, 46 ppmv CO @ 3% O₂ or 0.0357 lb-CO/MMBtu, or 0.0018 lb-VOC/MMBtu. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
32. During start-up and shutdown, when fired on natural gas, emissions from the unit shall not exceed 30 ppmv NO_x @ 3% O₂ or 0.036 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.005 lb-PM10/MMBtu, 42 ppmv CO @ 3% O₂ or 0.031 lb-CO/MMBtu, or 0.00067 lb-VOC/MMBtu. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
33. During start-up and shutdown, when fired on propane, emissions from the unit shall not exceed 30 ppmv NO_x @ 3% O₂ or 0.036 lb-NO_x/MMBtu, 0.0109 lb-SO_x/MMBtu, 0.0066 lb-PM10/MMBtu, 48 ppmv CO @ 3% O₂ or 0.035 lb-CO/MMBtu, or 0.00139 lb-VOC/MMBtu. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
34. The total duration of startup and shutdown time combined shall not exceed either of the following limits: 2.0 hours per day or 104 hours per year. [District NSR Rule, and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
35. The ammonia emission rate shall not exceed 10 ppmvd @ 3% O₂ over a 15 minute averaging period. [District Rule 4102] Federally Enforceable Through Title V Permit
36. The permittee shall monitor and record the stack concentration of NO_x, CO, NH₃ and O₂ at least once during each month in which source testing is not performed. NO_x, CO and O₂ monitoring shall be conducted utilizing a portable analyzer that meets District specifications. NH₃ monitoring shall be conducted utilizing Draeger tubes or a District approved equivalent method. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless it has been performed within the last month. [District Rules 4102, 4305, 4306, and 4320] 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.

37. If the NO_x, CO or NH₃ concentrations, as measured by the portable analyzer and Draeger tubes or the District approved ammonia monitoring equipment, exceed the permitted levels the permittee shall return the emissions to compliant levels as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer or the ammonia monitoring equipment continue to show emission limit violations after 1 hour of operation following detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation that is subject to enforcement action has occurred. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
38. 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 shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
39. All NO_x, CO, O₂ and NH₃ emission readings shall be taken with the unit operating at conditions representative of normal operation or under the conditions specified in the Permit to Operate. The NO_x, CO and O₂ analyzer as well as the NH₃ emission monitoring equipment shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Analyzer readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
40. NH₃ emission readings shall be conducted at the time the NO_x, CO and O₂ readings are taken. The readings shall be converted to ppmvd @ 3% O₂. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
41. The permittee shall maintain records of: (1) the date and time of NO_x, CO, NH₃ and O₂ measurements, (2) the O₂ concentration in percent by volume and the measured NO_x, CO and NH₃ concentrations corrected to 3% O₂, (3) make and model of the portable analyzer, (4) portable analyzer calibration records, (5) the method of determining the NH₃ emission concentration, and (6) a description of any corrective action taken to maintain the emissions at or below the acceptable levels. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
42. Source testing to measure natural gas combustion NO_x, CO, and NH₃ emissions from this unit shall be conducted within 60 days of initial start-up. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
43. Source testing to measure natural gas combustion NO_x, CO, and NH₃ emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests when unit is fired on natural gas, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District NSR Rule and District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
44. The District shall be notified upon initial usage of propane fuel. The initial source test for propane shall be conducted within 60 days of initial start-up and to determine compliance with NO_x, CO, VOC, PM₁₀, SO_x, and NH₃ emission limits in this permit. [District NSR Rule and District Rules 4102, 4305, 4306, and 4320] 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.

45. Source testing to measure propane combustion NO_x, CO and NH₃ emissions shall be required when propane usage exceeds 100 hours during the previous 12 months from the date of the proposed source test. After demonstrating compliance on two (2) consecutive annual source tests when unit is fired on propane, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District NSR Rule and District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
46. The source plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
47. 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
48. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
49. CO emissions for source test purposes shall be determined using EPA Method 10 or EPA Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
50. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
51. Source testing for ammonia slip shall be conducted utilizing BAAQMD method ST-1B. [District Rule 1081] Federally Enforceable Through Title V Permit
52. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
53. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
54. Daily and annual records of fuel oil, natural gas, and propane usage shall be kept. [District NSR Rule and District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
55. Operator shall record all dates on which the unit is fired on any fuel other than PUC-regulated natural gas. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
56. Daily and annual records of start-up and shutdown durations and number of occurrences of each shall be kept. [District NSR Rule and District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
57. The permittee shall monitor and record the cumulative annual hours of operation when fired on fuel oil #2 during curtailment and testing. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
58. 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 Rules 1070, 2520, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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

Appendix II

Draft ATC

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT
DRAFT

PERMIT NO: C-1555-11-10

LEGAL OWNER OR OPERATOR: J G BOSWELL COMPANY OIL MILL

MAILING ADDRESS: PO BOX 457
CORCORAN, CA 93212

LOCATION: 710 BAINUM AVE
CORCORAN, CA 93212

EQUIPMENT DESCRIPTION:

MODIFICATION OF 34.8 MMBTU/HR SUPERIOR SEMINOLE MODEL 6C-4000 NATURAL GAS-FIRED OR PROPANE-FIRED BOILER EQUIPPED WITH A LOW NOX BURNER SERVED BY A SELECTIVE CATALYTIC REDUCTION SYSTEM AND WITH NO 2 FUEL OIL AS BACKUP FUEL: REMOVE FUEL OIL #2 AS BACKUP FUEL

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. On and after July 1, 2010, the permittee shall submit an analysis showing the fuel's sulfur content at least once every year. Valid purchase contracts, supplier certifications, tariff sheets, or transportation contracts may be used to satisfy this requirement, provided they establish the fuel parameters mentioned above. [District Rule 4320]
4. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
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 Rule 4101] Federally Enforceable Through Title V Permit
6. The unit shall only be fired on PUC-regulated natural gas or propane. [District NSR Rule, District Rule 4301, 5.2.1, and 40 CFR § 60.42c(d)]

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-1555-11-10: Nov 8 2011 4:37PM -- GARCIAJ : Joint Inspection NOT Required

7. Propane consumption shall not exceed 4,400 gallons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Further testing of the equipment as necessary for the determination of compliance with the rule and regulations of the District may be required at any time. [District NSR Rule] Federally Enforceable Through Title V Permit
9. {450} Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO₂, nor 10 lb/hr. [District Rule 4201 and District Rule 4301, 5.1 and 5.2.3] Federally Enforceable Through Title V Permit
10. {2811} Operator shall ensure that all required source testing conforms to the compliance testing procedures described in District Rule 1081. [District Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera)] Federally Enforceable Through Title V Permit
11. {2804} Operator shall maintain copies of fuel invoices and supplier certifications. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
12. {2798} Operator shall provide that fuel hhv be certified by third party fuel supplier or determined annually by: ASTM D 240 or D 2382 for liquid hydrocarbon fuels; ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2520, 9.3.2; 4305, 6.2.1; and 4351, 6.2.1] Federally Enforceable Through Title V Permit
13. {2800} Nitrogen oxide (NO_x) emission concentrations in ppmv referenced at dry stack emissions shall be corrected to 3% O₂ and lb/MMBtu rates shall be calculated as lb NO₂/MMBtu of heat input (hhv). [District Rule 4305, 8.1 and 4351, 8.1] Federally Enforceable Through Title V Permit
14. {2803} Operator shall monitor and record for each unit the hhv and cumulative annual use of each fuel. [District Rule 4305, 6.1.1 and District Rule 4351, 6.1.1] Federally Enforceable Through Title V Permit
15. {2807} Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rule 405 (Madera), 408 and 409 (Kern), and 408 (all six remaining counties in the San Joaquin Valley); Rule 404 (Madera) 406 (Fresno), and 407 (all six remaining counties in the San Joaquin Valley); SJVUAPCD Rule 4801. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
16. {2814} Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 4201 and 4301. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
17. {2809} Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 1081, and County Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), and 110 (Madera). [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
18. {2815} Compliance with permit conditions in the Title V permit shall be deemed compliance with the following requirements: SJVUAPCD Rule 4305, Sec. 4.2, 5.1.1, 5.1.2., 5.4, 6.1.1, 6.2 (excepting 6.2.3), 6.3, 8.1 and Rule 4351 Sec 4.2, 5.2.2.1, 5.2.2.2, 6.1.1, 6.2 (excepting 6.2.3), 8.1. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
19. {2810} The requirements of 40 CFR 72.6(b) are not applicable because this is not an affected unit under the acid rain provisions. The requirements of 40 CFR 60.40c do not apply to this source because it is not used to produce electricity for sale. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
20. Except during start-up and shutdown, when fired on natural gas, emissions rates from the unit shall not exceed any of the following limits: 6 ppmv NO_x @ 3% O₂ or 0.007 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.005 lb-PM₁₀/MMBtu, 42 ppmv CO @ 3% O₂ or 0.031 lb-CO/MMBtu, or 0.00067 lb-VOC/MMBtu. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
21. Except during start-up and shutdown, when fired on propane, emissions rates from the unit shall not exceed any of the following limits: 6 ppmv NO_x @ 3% O₂ or 0.007 lb-NO_x/MMBtu, 0.0109 lb-SO_x/MMBtu, 0.0066 lb-PM₁₀/MMBtu, 48 ppmv CO @ 3% O₂ or 0.035 lb-CO/MMBtu, or 0.00139 lb-VOC/MMBtu. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

22. During start-up and shutdown, when fired on natural gas, emissions from the unit shall not exceed 30 ppmv NO_x @ 3% O₂ or 0.036 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.005 lb-PM₁₀/MMBtu, 42 ppmv CO @ 3% O₂ or 0.031 lb-CO/MMBtu, or 0.00067 lb-VOC/MMBtu. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. During start-up and shutdown, when fired on propane, emissions from the unit shall not exceed 30 ppmv NO_x @ 3% O₂ or 0.036 lb-NO_x/MMBtu, 0.0109 lb-SO_x/MMBtu, 0.0066 lb-PM₁₀/MMBtu, 48 ppmv CO @ 3% O₂ or 0.035 lb-CO/MMBtu, or 0.00139 lb-VOC/MMBtu. [District NSR Rule and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. The total duration of startup and shutdown time combined shall not exceed either of the following limits: 2.0 hours per day or 104 hours per year. [District NSR Rule, and District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
25. The ammonia emission rate shall not exceed 10 ppmvd @ 3% O₂ over a 15 minute averaging period. [District Rule 4102] Federally Enforceable Through Title V Permit
26. The permittee shall monitor and record the stack concentration of NO_x, CO, NH₃ and O₂ at least once during each month in which source testing is not performed. NO_x, CO and O₂ monitoring shall be conducted utilizing a portable analyzer that meets District specifications. NH₃ monitoring shall be conducted utilizing Draeger tubes or a District approved equivalent method. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless it has been performed within the last month. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
27. If the NO_x, CO or NH₃ concentrations, as measured by the portable analyzer and Draeger tubes or the District approved ammonia monitoring equipment, exceed the permitted levels the permittee shall return the emissions to compliant levels as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer or the ammonia monitoring equipment continue to show emission limit violations after 1 hour of operation following detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation that is subject to enforcement action has occurred. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
28. 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 shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
29. All NO_x, CO, O₂ and NH₃ emission readings shall be taken with the unit operating at conditions representative of normal operation or under the conditions specified in the Permit to Operate. The NO_x, CO and O₂ analyzer as well as the NH₃ emission monitoring equipment shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Analyzer readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
30. NH₃ emission readings shall be conducted at the time the NO_x, CO and O₂ readings are taken. The readings shall be converted to ppmvd @ 3% O₂. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
31. The permittee shall maintain records of: (1) the date and time of NO_x, CO, NH₃ and O₂ measurements, (2) the O₂ concentration in percent by volume and the measured NO_x, CO and NH₃ concentrations corrected to 3% O₂, (3) make and model of the portable analyzer, (4) portable analyzer calibration records, (5) the method of determining the NH₃ emission concentration, and (6) a description of any corrective action taken to maintain the emissions at or below the acceptable levels. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

32. Source testing to measure natural gas combustion NO_x, CO, and NH₃ emissions from this unit shall be conducted within 60 days of initial start-up. [District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
33. Source testing to measure natural gas combustion NO_x, CO, and NH₃ emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests when unit is fired on natural gas, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District NSR Rule and District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
34. The District shall be notified upon initial usage of propane fuel. The initial source test for propane shall be conducted within 60 days of initial start-up and to determine compliance with NO_x, CO, VOC, PM₁₀, SO_x, and NH₃ emission limits in this permit. [District NSR Rule and District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
35. Source testing to measure propane combustion NO_x, CO and NH₃ emissions shall be required when propane usage exceeds 100 hours during the previous 12 months from the date of the proposed source test. After demonstrating compliance on two (2) consecutive annual source tests when unit is fired on propane, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District NSR Rule and District Rules 4102, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
36. The source plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
37. 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
38. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
39. CO emissions for source test purposes shall be determined using EPA Method 10 or EPA Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
40. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
41. Source testing for ammonia slip shall be conducted utilizing BAAQMD method ST-1B. [District Rule 1081] Federally Enforceable Through Title V Permit
42. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
43. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
44. Daily and annual records of natural gas and propane usage shall be kept. [District NSR Rule and District Rule 2520, 9.4.2]
45. {2813} Operator shall record all dates on which the unit is fired on any fuel other than PUC-regulated natural gas. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
46. Daily and annual records of start-up and shutdown durations and number of occurrences of each shall be kept. [District NSR Rule and District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
47. 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 Rules 1070, 2520, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

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