



DEC 21 2009

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

Re: **Proposed Authority to Construct / Certificate of Conformity (Minor Mod)**
District Facility # N-257
Project # N-1093304

Dear Mr. Rios:

Enclosed for your review is the District's engineering evaluation of an application for Authority to Construct for Dart Container Corporation, located at 1400 E. Victor Road in Lodi, which has been issued a Title V permit. Dart Container Corporation is requesting that a Certificate of Conformity, with the procedural requirements of 40 CFR Part 70, be issued with this project. The modifications will consist of limiting the NOx emissions and the fuel oil sulfur content for compliance with District Rule 4320.

Enclosed is the engineering evaluation of this application, a copy of the current Title V permit, and proposed Authority to Construct # N-257-5-7 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. Rupi Gill, Permit Services Manager, at (209) 557-6400.

Thank you for your cooperation in this matter.

Sincerely,



David Warner
Director of Permit Services

DW: MK/cm

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)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585



DEC 21 2009

Ron Crookham
Dart Container Corporation
1400 E. Victor Road
Lodi, CA 95240

**Re: Proposed Authority to Construct / Certificate of Conformity (Minor Mod)
District Facility # N-257
Project # N-1093304**

Dear Mr. Crookham:

Enclosed for your review is the District's analysis of your application for Authority to Construct for the facility identified above. You have requested that a Certificate of Conformity with the procedural requirements of 40 CFR Part 70 be issued with this project. The modifications will consist of limiting the NOx emissions and the fuel oil sulfur content for compliance with District Rule 4320.

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. Rupi Gill, Permit Services Manager, at (209) 557-6400.

Thank you for your cooperation in this matter.

Sincerely,



David Warner
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Authority to Construct Application Review

Facility Name: Dart Container Corporation
Mailing Address: 1400 E. Victor Road
Lodi, CA 95240

Date: December 8, 2009

Contact Person: Ron Crookham
Telephone: (209) 333-8088

Engineer: Mark Schonhoff
Application #: N-257-5-7
Project #: N-1093304

Deemed Complete: August 12, 2009

I. Proposal

The applicant is proposing to receive an Authority to Construct to limit the NOx emissions to 7 ppmvd @ 3% O₂ for compliance with District Rule 4320. Compliance with the required emission levels has already been shown by source testing so no equipment modifications are necessary.

On August 4, 2009, the unit was source tested to determine whether or not the unit was in compliance with its permitted NOx and CO limits of 9 ppmvd and 50 ppmvd respectively (both @ 3% O₂). The test showed a NOx level of 5.22 ppmvd and a CO level of 0.33 ppmvd (both at 3% O₂). Since the applicant is not proposing any increases in permitted emissions and compliance with the proposed limits has already been demonstrated, this permitting action is not subject to Rule 2201 per District guidance document FYI-111.

The facility is currently operating under a Title V permit and this permitting action is a Minor Modification to that permit. The applicant has proposed to proceed with a Certificate of Conformity.

II. Applicable Rules

- 2201 New and Modified Stationary Source Review Rule (9/21/06)
- 2520 Federally Mandated Operating Permits (6/21/01)
- 2550 Federally Mandated Preconstruction Review for Major Sources of Air Toxics (6/18/98)
- 4001 New Source Performance Standards (4/14/99)
- 4002 National Emission Standards for Hazardous Air Pollutants (5/20/04)
- 4101 Visible Emissions (11/15/01)
- 4102 Nuisance (12/17/92)
- 4201 Particulate Matter Concentration (12/17/92)

- 4301 Fuel Burning Equipment (12/17/92)
 - 4304 Equipment Tuning Procedure for Boilers, Steam Generators and process Heaters (10/19/09)
 - 4305 Boilers, Steam Generators and Process Heaters.– Phase 2 (12/19/96)
 - 4306 Boilers, Steam Generators and Process Heaters – Phase 3 (10/16/08)
 - 4320 Advanced Emission Reduction Options for Boilers, Steam Generators and Process Heaters Greater than 5.0 MMBtu/hr (10/16/08)
 - 4801 Sulfur Compounds (12/17/92)
- CH&SC 41700
CH&SC 42301.6

III. Project Location

1400 Victor Road
Lodi, CA

The equipment is not located within 1,000 feet of a K-12 school.

IV. Process Description

The unit burns natural gas (and #2 fuel oil during natural gas curtailments) for the purpose of heating water for use in processes at the plant. The unit is also utilized to combust VOC's from other processes at the plant.

V. Equipment Listing

Premodification:

29.3 MMBTU/HR CLEAVER BROOKS BOILER MODEL #CB 400-700-150 WITH A CLEAVER BROOKS MODEL #CB-NTI-9PPM ULTRA LOW-NOX BURNER AND FLUE GAS RECIRCULATION

Postmodification:

29.3 MMBTU/HR CLEAVER BROOKS BOILER MODEL #CB 400-700-150 WITH A CLEAVER BROOKS MODEL #CB-NTI ULTRA LOW-NOX BURNER AND FLUE GAS RECIRCULATION

VI. Emission Control Technology Evaluation

The unit currently meets the applicable Rule 4320 emission limits, therefore no changes to the emission control systems will be made. Since no changes to the emission control systems will occur, an emission control technology evaluation is not necessary.

VII. General Calculations

A. Assumptions

Assumptions will be stated as they are made.

Emission Calculations:

As explained in section VIII (Rule 2201 Compliance), this unit is not subject to Rule 2201, therefore, it is only necessary to determine the daily post modification and the annual pre and post modification emission rates. The daily emission rates are required for completion of the daily emission field of the Permit Administration System (PAS) Emission Profile and the annual emission rates are necessary for completion of the quarterly IPE and annual emission rate fields of the PAS Emission Profile.

B. Emission Factors

Premodification:

	Natural Gas		#2 Fuel Oil	
	ppmvd @ 3% O ₂	lb/MMBtu	ppmvd @ 3% O ₂	Lb/MMBtu
NOx	9	0.011	40	0.052
CO	50	0.037 (Note 1)	50	0.039
VOC	N/A	0.0042	N/A	0.0045
SOx	N/A	0.00285	N/A	0.052
PM10	N/A	0.0076	N/A	0.015

Postmodification:

	Natural Gas		#2 Fuel Oil	
	ppmvd @ 3% O ₂	lb/MMBtu	ppmvd @ 3% O ₂	Lb/MMBtu
NOx	7	0.008	40	0.052
CO	50	0.037	50	0.039
VOC	N/A	0.0042	N/A	0.0045
SOx	N/A	0.00285	N/A	0.0016 (Note 2)
PM10	N/A	0.0076	N/A	0.015

Note 1:

During the processing of the application for project N-1041191, the NOx and CO emissions, during the firing of each fuel, were limited in the terms of both ppmvd @ 3% O₂ and lb/MMBtu. The lb/MMBtu equivalent of the natural gas CO ppmvd value was incorrectly calculated and will be corrected at this time. In accordance

with District policy APR-1110, the corrected factor will be utilized for both pre and postmodification calculations.

To make the conversion, the following equation will be utilized:

$$\text{Lb/MMBtu} = (\text{ppm})(\text{MW})(2.63 \times 10^{-9} \text{ lb-mol/dscf})(\text{ff})(20.0 / (20.9 - \text{O}_2\%))$$

Where: ppm is the concentration of the pollutant, in parts per million
MW is the molecular weight of the pollutant
 $\text{MW}_{\text{CO}} = 28 \text{ lb/lb-mol}$
 $2.63 \times 10^{-9} \text{ lb-mol}$ is a constant (corrected to 60 degrees F)
ff is the f-factor of the fuel
 $\text{ff}_{\text{Natural Gas}} = 8,578 \text{ dscf/MMBtu}$ (corrected to 60 degrees F)
 $\text{O}_2\%$ is the stack O_2 concentration to which the exhaust is corrected (3%)

$$\text{EF}_{\text{CO}} (\text{Natural Gas}) = (50)(28 \text{ lb/lb-mol})(2.63 \times 10^{-9} \text{ lb-mol/dscf}) \\ \times (8,578 \text{ dscf/MMBtu})(20.9/(20.9-3)) = 0.037 \text{ lb/MMBtu}$$

Note 2:

Section 5.4.2 of District Rule 4320 limits the sulfur content of the fuel burned to 15 ppm by weight. That equates to the following emission factor:

Fuel Oil Heat Content: 137,000 Btu/gal (0.137 MMBtu/gal)
Fuel Oil Density: 7.1 lb/gal

$$\text{EF}_{\text{SO}_x} = (15 \text{ lb S}/10^6 \text{ lb fuel})(1 \text{ gal}/0.137 \text{ MMBtu})(7.1 \text{ lb/gal})(2 \text{ lb SO}_2/\text{lb S}) \\ = 0.0016 \text{ lb/MMBtu}$$

C. Potential to Emit (PE)

1. Daily PE

Premodification PE:

As stated above, premodification daily potential to emit calculations are not necessary.

Post Modification PE:

The unit is permitted to operate for up to 8,760 hr/yr but is limited by its permit from operating for more than 216 hr/yr on #2 fuel oil. The unit could therefore operate for an entire day on either fuel. It will therefore be assumed the unit operates for 24 hours per day on the highest emitting fuel.

$$\text{NOx} = (29.3 \text{ MMBtu/hr})(24 \text{ hr/day})(0.052 \text{ lb/MMBtu}) = 36.6 \text{ lb/day}$$

$$\text{CO} = (29.3 \text{ MMBtu/hr})(24 \text{ hr/day})(0.039 \text{ lb/MMBtu}) = 27.4 \text{ lb/day}$$

$$\text{VOC} = (29.3 \text{ MMBtu/hr})(24 \text{ hr/day})(0.0045 \text{ lb/MMBtu}) = 3.2 \text{ lb/day}$$

$$\text{SOx} = (29.3 \text{ MMBtu/hr})(24 \text{ hr/day})(0.00285 \text{ lb/MMBtu}) = 2.0 \text{ lb/day}$$

$$\text{PM}_{10} = (29.3 \text{ MMBtu/hr})(24 \text{ hr/day})(0.015 \text{ lb/MMBtu}) = 10.5 \text{ lb/day}$$

2. Annual PE

Premodification PE:

The unit is currently permitted to operate for up to 216 hours per year on #2 fuel oil and no change has been proposed. If the highest emission factor represents the emissions during #2 fuel oil combustion, it will be assumed that the unit operates at 8,760 hr/yr – 216 hr/yr = 8544 hr/yr on natural gas and 216 hr/yr on #2 fuel oil.

$$\begin{aligned} \text{NOx} &= (29.3 \text{ MMBtu/hr})(8,544 \text{ hr/yr})(0.011 \text{ lb/MMBtu}) \\ &+ (29.3 \text{ MMBtu/hr})(216 \text{ hr/yr})(0.052 \text{ lb/MMBtu}) = 3,083 \text{ lb/yr} \end{aligned}$$

$$\begin{aligned} \text{CO} &= (29.3 \text{ MMBtu/hr})(8,544 \text{ hr/yr})(0.037 \text{ lb/MMBtu}) \\ &+ (29.3 \text{ MMBtu/hr})(216 \text{ hr/yr})(0.039 \text{ lb/MMBtu}) = 9,509 \text{ lb/yr} \end{aligned}$$

$$\begin{aligned} \text{VOC} &= (29.3 \text{ MMBtu/hr})(8,544 \text{ hr/yr})(0.0042 \text{ lb/MMBtu}) \\ &+ (29.3 \text{ MMBtu/hr})(216 \text{ hr/yr})(0.0045 \text{ lb/MMBtu}) = 1,080 \text{ lb/yr} \end{aligned}$$

$$\begin{aligned} \text{SOx} &= (29.3 \text{ MMBtu/hr})(8,544 \text{ hr/yr})(0.00285 \text{ lb/MMBtu}) \\ &+ (29.3 \text{ MMBtu/hr})(216 \text{ hr/yr})(0.052 \text{ lb/MMBtu}) = 1,043 \text{ lb/yr} \end{aligned}$$

$$\begin{aligned} \text{PM}_{10} &= (29.3 \text{ MMBtu/hr})(8,544 \text{ hr/yr})(0.0076 \text{ lb/MMBtu}) \\ &+ (29.3 \text{ MMBtu/hr})(216 \text{ hr/yr})(0.015 \text{ lb/MMBtu}) = 1,998 \text{ lb/yr} \end{aligned}$$

Post Modification PE:

The unit is currently permitted to operate for up to 216 hours per year on #2 fuel oil and no change has been proposed. If the highest emission factor represents the emissions during #2 fuel oil combustion, it will be assumed that the unit operates at 8,760 hr/yr – 216 hr/yr = 8544 hr/yr on natural gas and 216 hr/yr on #2 fuel oil.

$$\text{NOx} = (29.3 \text{ MMBtu/hr})(8,544 \text{ hr/yr})(0.008 \text{ lb/MMBtu}) + (29.3 \text{ MMBtu/hr})(216 \text{ hr/yr})(0.052 \text{ lb/MMBtu}) = 2,332 \text{ lb/yr}$$

$$\text{CO} = 9,509 \text{ lb/yr (no change)}$$

$$\text{VOC} = 1,080 \text{ lb/yr (no change)}$$

$$\text{SOx} = (29.3 \text{ MMBtu/hr})(8,760 \text{ hr/yr})(0.00285 \text{ lb/MMBtu}) = 732 \text{ lb/yr}$$

$$\text{PM}_{10} = 1,998 \text{ lb/yr (no change)}$$

D. Increase in Permitted Emissions (IPE)

1. Quarterly IPE

As can be seen, there will be a change only in NOx and SOx emissions. Therefore, the IPE of CO, VOC and PM10 will be zero.

$$\text{IPE}_{\text{NOx}} = (2,332 \text{ lb/yr} - 3,083 \text{ lb/yr}) / (4 \text{ qtr/yr}) = -187.75 \text{ lb/qtr}$$

$$\text{IPE}_{\text{SOx}} = (732 \text{ lb/yr} - 1,043 \text{ lb/yr}) / (4 \text{ qtr/yr}) = -77.75 \text{ lb/qtr}$$

The emission profile for this ATC will include the following:

	NOx (lb)	SOx (lb)	PM10 (lb)	CO (lb)	VOC (lb)
Annual PE	2,332	732	1,998	9,509	1,080
Daily PE	36.6	2.0	10.5	27.4	3.2
Δ PE (Qtr 1)	-187	-77	0	0	0
Δ PE (Qtr 2)	-188	-78	0	0	0
Δ PE (Qtr 3)	-188	-78	0	0	0
Δ PE (Qtr 4)	-188	-78	0	0	0

VIII. Compliance

Rule 2201 New and Modified Stationary Source Review Rule

Applicability:

The modifications to this permits will consist solely of limiting the NO_x emissions to the Rule 4320 level of 7 ppmvd @ 3% O₂ and limiting the #2 fuel oil sulfur content to the Rule 4320 level of 15 ppm by weight. The unit has been source tested and compliance with that NO_x and level has been shown, therefore, per District Guidance Document FYI-111, the units are not subject to this rule.

Compliance Assurance

1. Source Testing

Source testing is required by District Rule 4320 (Advanced Emission Reduction Options for Boilers, Steam Generators and Process Heaters Greater than 5.0 MMBtu/hr) and the ATC's and PTO's will reflect those requirements.

Compliance with the NO_x and CO limits this permit and of Rule 4320 has been demonstrated, therefore an initial source test is not required and the facility may continue with its current testing schedule.

2. Monitoring

Refer to section VIII (Rule 4320 Compliance) for a discussion of monitoring requirements.

3. Record Keeping

The permit will limit operation of the unit on #2 fuel oil to 216 hours per year. To allow the District verify compliance with this limit, records of the hours of operation on #2 fuel oil will be required.

The operator is subject to the periodic emission monitoring of District Rule 4320. The rule requires that records of the monitoring be kept, therefore the ATC and the PTO will require records.

The unit is subject to 40 CFR Part 60 Subpart Dc. For a discussion of the required record keeping, refer to Section VIII (Subpart Dc Compliance) for a discussion of the record keeping requirements.

4. Reporting

The unit is subject to 40 CFR Part 60 Subpart Dc. For a discussion of the required reporting, refer to Section VIII (Subpart Dc Compliance) for a discussion of the record keeping requirements.

Rule 2520 Federally Mandated Operating Permits

The facility is currently operating under a Title V permit and this permitting action will be a Minor Modification to that permit.

The applicant has proposed to receive the Authority to Construct with a Certificate of Conformity so the following conditions will be placed on the Authority to Construct.

{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 NSR Rule] Y

{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] Y

Rule 2550 Federally Mandated Preconstruction Review for Major Sources of Air Toxics

This rule applies to applications to construct or reconstruct a Major Air Toxics Sources. The facility will not be a newly constructed source, nor will it be a reconstructed source as defined in section 3.2 of this rule. This rule does not apply.

Rule 4001 New Source Performance Standards

40 CFR Part 60 Subpart Dc:

This subpart applies to the units rated at 100 MMBtu/hr or less, therefore it applies to the unit currently under consideration.

Emission Standards:

SOx Emission Standard (60.42c):

Section 60.42c applies only to units that combust coal or oil. The unit will burn oil, therefore, this section applies.

Section 60.42c(g) limits the SOx emissions to 0.50 lb/MMBtu. As shown in section VII.B of this document, the SOx emissions, during fuel oil firing, will be 0.0016 lb/MMBtu. Therefore, compliance is expected.

Particulate Matter Emission Standard (60.43c):

Section 60.43c applies to units that combust coal, wood or oil. This unit will burn oil, therefore, this section applies.

Sections 60.43c(c) and 60.43c(e)(1) apply to units that burn oil. However, they apply only to units rated at 30 MMBtu/hr or greater. The subject unit is rated at less than this, therefore, these sections do not apply.

Compliance Testing for SOx (60.44c):

SOx Compliance Testing:

While firing on oil, the unit is subject to the emission limit specified in section 60.42c(g), therefore, the testing requirements of section 60.44c must be satisfied. Sections 60.44c(h) and 60.42c(h) state that a fuel supplier certification is acceptable for showing compliance with the SOx emission limit of this subpart. The facility will be required to acquire and maintain such certifications.

Particulate Matter Testing:

This subpart does not include a particulate matter standard to test for compliance with, therefore, particulate matter testing is not required.

Emission Monitoring for SOx (60.46c):

Except as provided in paragraphs (d) and (e), the monitoring requirements of this section apply.

Per section 60.46c(e), the monitoring requirements of this section do not apply because the unit is subject to the requirements of section 60.42c(h)(1), which allows compliance with the SOx limit to be shown based on the fuel supplier's certification of sulfur content.

Emission Monitoring for Particulate Matter (60.47c):

This subpart does not include a PM standard that applies to this unit, therefore, PM monitoring is not required.

Reporting and Record Keeping (60.48c):

Section 60.48c(a) states that the owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by §60.7 of this part. This notification shall include:

Section 60.48c(a)(1):

The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.

The design heat input capacity and type of fuel combusted at the facility will be listed on the unit's equipment description. No conditions are required to show compliance with this requirement.

Section 60.48c(a)(2):

If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel mixture of fuels under §60.42c or §40.43c.

The facility's Title V permit will continue to limit the amount of time the unit may burn oil to 216 hours per year. The facility is therefore required to include this information on the required report.

Section 60.48c(a)(3):

The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

The facility is required to submit this information.

Section 60.48c(a)(4):

Notification if an emerging technology will be used for controlling SO₂ emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of §60.42c(a) or (b)(1), unless and until this determination is made by the Administrator.

This requirement is not applicable since the units will not be equipped with an emerging technology used to control SO₂ emissions.

Section 60.48c(b):

This section requires the submission of SO_x and PM₁₀ source test data (if testing is required). As stated in the section 60.44c compliance section above, performance testing is not required provided that fuel sulfur content data is acquired and maintained. The facility will be acquiring, maintaining and submitting such data, therefore, the requirements of this section will be satisfied.

Section 60.48c(c):

This section applies to units that are subject to a visible emission standard of this subpart. No such standard applies to this unit, therefore, this section does not apply.

Section 60.48c(d, e and f):

These sections specify the items that must be included in the required report. Such reporting will be required.

Section 60.48c(g):

Section 60.48c(g)(1) requires that the owner or operator of each affected facility maintain records of the amount of each fuel combusted during each day. Section 60.48c(g)(2) however states that if the unit will fire solely on natural gas, wood, other fuels using the fuel certification in section 60.48c(f), fuels not subject to an emission standard (except opacity) or a mixture of these fuels, only monthly records are required. The unit will burn natural gas & pentane or #2 fuel oil (using the certification in section 60.48c(f)) & pentane. Since this subpart does not include an emission standard for pentane, monthly records of fuel use will be required.

Section 60.48c(i) states that all records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record. District Rule 4320 requires that records be kept for five years. In cases such as this, the most stringent standard is applied. Therefore, a record retention period of at least 5 years will be required.

To enforce these requirements, the following conditions will be included on the Authority to Construct and the Permit to Operate:

Monthly records of the amount of each fuel (natural gas, #2 fuel oil and pentane) shall be kept. [District Rule 4320 and 40 CFR Part 60.42c(g)]

All records shall be maintained for at least 5 years and shall be made available to the District upon request. [District Rule 4320 and 40 CFR Part 60.48c(i)]

Rule 4002 National Emission Standards for Hazardous Air Pollutants

40 CFR Part 63 Subpart DDDDD

This subpart was vacated in July of 2007.

Rule 4101 Visible Emissions

As long as the equipment is properly maintained and operated, the visible emissions are not expected to exceed 20% opacity for a period or periods aggregating more than 3 minutes in any one hour. Compliance with the provisions of this rule is expected.

Rule 4102 Nuisance

A. California Health & Safety Code 41700 (Risk Management Review)

There will be no increases in fuel usage or emissions as a result of the proposed modifications. Therefore, a Risk Management Review (RMR) is not required.

B. Toxics BACT (T-BACT)

There will not be an increase in toxic emissions, therefore, T-BACT is not required.

Rule 4201 Particulate Matter Concentration

This rule limits the particulate matter concentration to 0.1 gr/dscf of flow.

EF _{PM10} :	0.015 lb/MMBtu
Rating:	29.3 MMBtu/hr
f-factor for #2 fuel oil:	9,051 dscf/MMBtu

$$PE = (0.015 \text{ lb/MMBtu})(29.3 \text{ MMBtu/hr}) = 0.44 \text{ lb/hr}$$

$$\text{Flow Rate} = (9,051 \text{ dscf/MMBtu})(29.3 \text{ MMBtu/hr}) = 265,194 \text{ dscf/hr (4,420 dscfm)}$$

$$\text{Concentration} = (0.44 \text{ lb/hr})(7,000 \text{ gr/lb})(1 \text{ hr}/60 \text{ min})(\text{min}/4,420 \text{ ft}^3) = 0.012 \text{ gr/ft}^3$$

The unit is expected to comply with the PM limit of 0.1 gr/dscf of exhaust flow.

Rule 4304 Equipment Tuning Procedure for Boilers, Steam Generators and Process Heaters

Per section 6.3.1.2 of District Rule 4320, tune-ups are not required. Therefore, this rule does not apply.

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

Pursuant to Section 2.0 of District Rule 4305, this unit is subject to District Rule 4305, *Boilers, Steam Generators and Process Heaters – Phase 2*.

Since the requirements of District Rule 4320 are either equivalent or more stringent than the requirements of District Rule 4305, compliance with District Rule 4320 requirements will satisfy requirements of District Rule 4305. Therefore, no further discussion is required.

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

Pursuant to Section 2.0 of District Rule 4306, this unit is subject to District Rule 4306, *Boilers, Steam Generators and Process Heaters – Phase 3*.

Since the requirements of District Rule 4320 are either equivalent or more stringent than the requirements of District Rule 4306, compliance with District Rule 4320 requirements

will satisfy requirements of District Rule 4306. Therefore, no further discussion is required.

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

Applicability:

The rule applies to any gaseous fuel or liquid fuel fired boiler, steam generator or process heater with a heat input rating of greater than 5 MMBtu/hr. The unit under consideration is therefore subject to this rule.

Emission Limits:

NOx Limit:

The unit operates primarily on natural gas/pentane but is permitted to burn #2 fuel oil/pentane for up to 216 hours per year as allowed by section 4.2.1 of this rule (this unit serves as a control device for pentane generated elsewhere at the plant). It is rated at more than 20 MMBtu/hr and is subject to the Category B NOx emission limit of Table 1 while firing on natural gas and is subject to the section 4.2.2 NOx limit while firing #2 fuel oil. Those limits are 7 ppmvd @ 3% O₂ (0.008 lb/MMBtu) and 150 ppmv (0.215 lb/MMBtu) respectively. The applicant is proposing to limit the NOx emissions to 7 ppmvd @ 3% O₂ while firing on natural gas and 40 ppmvd while firing on #2 fuel oil. Therefore, compliance with the NOx emission limits of this rule is expected.

CO Limit:

Per section 5.2.1, the CO emission limit is 400 ppmvd @ 3% O₂ while the unit is firing on natural gas. The applicant is proposing a CO limit of much less than this, therefore, compliance with the CO emission limit of this rule is expected.

For units that operate on fuel oil for a period or periods aggregating no more than 216 hours per year as allowed by section 4.2.1 there is not an applicable CO limit.

Control Requirements:

Particulate Matter Control:

Natural Gas:

Section 5.4.1 requires that particulate matter be controlled by one of the methods specified in sections 5.4.1.1 through 5.4.1.4.

Section 5.4.1.1 states that compliance may be met by operating the units solely on PUC-quality natural gas, commercial propane, butane, liquefied petroleum gas, or a combination of such gasses. The applicant is proposing to fire the units

solely on such fuels, therefore compliance with the particulate matter control requirement of this rule is expected.

Fuel Oil:

Per section 5.4.2, units fired on liquid fuel during natural gas curtailments, may fire only on liquid fuel with a sulfur content of 15 ppm by weight, or less. The permit will include the conditions necessary to enforce this requirement.

Monitoring:

NO_x, CO and O₂ Monitoring:

Section 5.7.1 requires the operator of a unit subject to section 5.2 of this rule to install and maintain Continuous Emission Monitoring (CEM) equipment for NO_x, CO and O₂, or to conduct alternate District approved monitoring.

To satisfy the applicable monitoring requirements, the applicant is proposing to continue with the monthly monitoring of NO_x, CO and O₂. The monitoring will be conducted utilizing a District approved portable analyzer (monitoring scheme A of District Policy SSP-1105).

SO_x Emission Monitoring:

Facilities complying with sections 5.4.1.1 or 5.4.1.2 of this rule are required by section 5.7.6.1 to provide a fuel analysis to the District on at least an annual basis. The unit will fire solely on PUC quality natural gas/pentane or #2 fuel oil/pentane.

Natural Gas:

Per District Policy APR 1720, the District assumes that natural gas has a sulfur content not exceeding 1.0 grains/100 scf. Therefore, the District will accept analyses or other equivalent certification documents from the fuel supplier for demonstrating compliance with the SO_x emission monitoring requirement.

#2 Fuel Oil:

This rule does not require sulfur content monitoring for the fuel oil, however, it is required by 40 CFR Parts 60.44c and 60.46c.

Monitoring Requirement:

To satisfy the applicable requirements, the following condition will be placed on the ATC and the PTO.

On and after July 1, 2010, the permittee shall submit an analysis showing the sulfur content of each fuel 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]

Record Keeping:

Section 6.1.3 requires the operator to maintain the records necessary to verify that the required tune-ups have been conducted and that the operational characteristics of the units have been monitored as required.

The NO_x, CO and O₂ will be measured with a portable analyzer in accordance with Scheme A of District Policy SSP-1105, therefore, per section 6.3.1.2 of this rule, tune-ups are not required.

Section 6.1.3 requires the operator to monitor relevant operational characteristics to ensure that the emission limits of section 5.2 are met during 36-month source testing intervals. Monitoring of operational characteristics will be required.

Section 6.1.4 requires that records of the duration of each start-up and shut-down period be kept. Such records will be required.

Section 6.1 requires that all records be maintained for a period of at least 5 years and that they be made available to the District and to the EPA upon request. Such a requirement will be placed on the Authorities to Construct and the Permits to Operate.

Source Testing:

Section 6.3.1 of this rule requires that subject units be source tested to determine compliance with the applicable emission limits of this rule at least once every 12 months. Once compliance is shown on two consecutive 12-month tests, the testing frequency may decrease to once every 36 months. This section further states that if compliance is not shown during a 36 month test, the testing frequency shall revert to once every 12 months. The ATC and the PTO will require that testing be conducted at this frequency.

Section 6.2 of this rule specifies the source test methods that may be utilized. The ATC and the PTO will include conditions specifying the test methods to be used.

Tune-ups:

Section 6.3.1.2 states that if the equipment is equipped with a CEMS or if the NO_x and CO emissions are periodically monitored, then tune-ups are not required. Since the NO_x and CO emissions will be periodically monitored in accordance with Scheme A of District Policy SSP-1105, tune-ups are not required.

California Health & Safety Code 42301.6 (School Notice)

The equipment will not be located within 1,000 feet of a K-12 school, therefore, a school notice is not required.

IX. Recommendation

Issue an Authority to Construct with the conditions on the attached Draft Authority to Construct.

X. Billing Information

Premodification:

Permit #	Description	Fee Schedule
N-257-5-5	29.3 MMBtu/hr	3020-H

Post modification:

No change.

Appendices

- Appendix A: Draft ATC's
- Appendix B: Current PTO's

Appendix A
Draft ATC's

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT
DRAFT

PERMIT NO: N-257-5-7

LEGAL OWNER OR OPERATOR: DART CONTAINER CORPORATION
MAILING ADDRESS: 1400 EAST VICTOR ROAD
LODI, CA 95240

LOCATION: 1400 EAST VICTOR ROAD
LODI, CA 95240

EQUIPMENT DESCRIPTION:

29.3 MMBTU/HR CLEAVER BROOKS BOILER MODEL #CB 400-700-150 WITH A CLEAVER BROOKS MODEL #CB-NTI ULTRA LOW-NOX BURNER AND FLUE GAS RECIRCULATION. MODIFICATION TO LOWER THE NOX EMISSION LIMIT AND THE #2 FUEL OIL SULFUR CONTENT LIMIT FOR RULE 4320 COMPLIANCE.

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 NSR Rule] 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. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
4. 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
5. 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
6. The pentane emissions collected from the pre-expanders shall be ducted to the boilers permitted under N-257-4 or N-257-5. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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 VAPCO

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DAVID WARNER, Director of Permit Services
N-257-6-7 : Dec 8 2009 12:01PM - SCHOONHOM : Joint Inspection NOT Required

7. 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 Rule 2201] Federally Enforceable Through Title V Permit
8. The boiler shall be fired only on natural gas or fuel oil #2. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Fuel oil #2 shall only be used during a natural gas curtailment for a period not to exceed 168 cumulative hours during any one calendar year plus 48 cumulative hours during any one calendar year for equipment testing and maintenance. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
10. The sulfur content of the fuel oil #2 shall not exceed 15 ppm by weight. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
11. The NOx emissions, while firing on natural gas, shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
12. The CO emissions, while firing on natural gas shall not exceed 50 ppmvd @ 3% O2 or 0.037 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
13. The VOC emissions, while firing on natural gas, shall not exceed 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The SOx emissions, while firing on natural gas, shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
15. The PM10 emissions, while firing on natural gas, shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The NOx emissions, while firing on #2 fuel oil, shall not exceed 40 ppmvd @ 3% O2 or 0.052 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
17. The CO emissions, while firing on #2 fuel oil, shall not exceed 50 ppmvd @ 3% O2 or 0.039 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
18. The VOC emissions, while firing on #2 fuel oil, shall not exceed 0.0045 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
19. The SOx emissions, while firing on #2 fuel oil, shall not exceed 0.0016 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
20. The PM10 emissions, while firing on #2 fuel oil, shall not exceed 0.015 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Operational characteristics recommended by the manufacturer and approved by the District shall be monitored on at least a monthly basis. [District Rule 4320, 5.7.2] Federally Enforceable Through Title V Permit
22. The permittee shall monitor and record the stack concentration of NOX, CO, and O2 at least once every month (in which a source test is not performed) using a portable analyzer that meets District specifications. 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 monitoring has been performed within the last month. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
23. If either the NOX or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after 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 has occurred, subject to enforcement action. 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 performing the notification and testing required by this condition. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

24. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operation 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 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
25. The permittee shall maintain records of: (1) the date and time of NOX, CO, and O2 measurements, (2) the O2 concentration in percent by volume and the measured NOX and CO concentrations 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 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
26. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
27. Source testing to measure natural gas-combustion NOx and CO emissions from this unit shall be conducted at least once every twelve months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. If the result of a 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 months. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
28. 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, 7.1] Federally Enforceable Through Title V Permit
29. The source test 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
30. 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
31. 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
32. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.3] Federally Enforceable Through Title V Permit
33. Source testing to measure NOx emissions shall be conducted using EPA Method 7E, EPA Method 19, or CARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
34. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
35. 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
36. Stack gas velocities shall be determined using EPA Method 2. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
37. The fuel oil sulfur content shall be determined utilizing ASTM method D-6920-03, ASTM method D-5453-99 or a District approved equivalent. [District Rule 4320] Federally Enforceable Through Title V Permit
38. On and after July 10, 2010, and at least once every year thereafter, the permittee shall submit an analysis showing the sulfur content of each fuel. 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] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

39. A daily record of the duration of each start-up and shutdown period shall be kept. [District Rules 4306 and 4320] Federally Enforceable Through Title V Permit
40. An annual record of the cumulative number of hours of operation on #2 fuel oil and of the reason for this operation shall be kept. The record shall be updated at least monthly. [District Rules 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
41. A record of the monthly quantity of each fuel burned shall be kept. [40 CFR Part 60.42c(g)] Federally Enforceable Through Title V Permit
42. All records shall be maintained and retained on-site for a minimum of 5 years, and shall be made available for District inspection upon request. [District Rules 1070, 4.0, 2520, 9.4.2, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit
43. This unit is subject to the requirements of 40 CFR Part 60, Subpart Dc: Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. [40 CFR Part 60, Subpart Dc] Federally Enforceable Through Title V Permit
44. The permittee shall comply with the reporting and record keeping requirements of 40 CFR Part 60.48c. [40 CFR Part 60, Subpart Dc] Federally Enforceable Through Title V Permit

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Appendix B
Current PTO's

San Joaquin Valley Air Pollution Control District

FACILITY: N-257-0-1

EXPIRATION DATE: 04/30/2009

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (3/21/02). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: DART CONTAINER CORPORATION
Location: 1400 EAST VICTOR ROAD, LODI, CA 95240
N-257-0-1 : Dec 7 2009 5:05PM - SCHONHOM

10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (11/15/01). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

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

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (10/31/01) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (10/31/01). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR 82, Subpart B. [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), and Rule 111 (Kern, Tulare, Kings). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (11/15/01); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (10/31/01); 8021 (11/15/01); 8031 (11/15/01); 8041 (11/15/01); 8051 (11/15/01); 8061 (11/15/01); and 8071 (11/15/01). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. On November 30, 2004, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. The total NOx emissions from the entire stationary source shall not exceed 150 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
44. The total VOC emissions from the entire stationary source excluding the warehouse emissions shall not exceed 250 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-257-5-5

EXPIRATION DATE: 04/30/2009

EQUIPMENT DESCRIPTION:

29.3 MMBTU/HR CLEAVER BROOKS BOILER MODEL #CB 400-700-150 WITH A CLEAVER BROOKS MODEL #CB-NTI-9PPM ULTRA LOW-NOX BURNER AND FLUE GAS RECIRCULATION

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. 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
3. 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
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 Rule 2201] Federally Enforceable Through Title V Permit
5. The boiler shall be fired on natural gas or fuel oil #2, only. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The sulfur content of the fuel oil #2 shall not exceed 0.25% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Fuel oil #2 shall only be used during a natural gas curtailment for a period not to exceed 168 cumulative hours during any one calendar year plus 48 cumulative hours during any one calendar year for equipment testing and maintenance. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
8. Maintain a log of the cumulative annual hours of operation on #2 fuel oil during natural gas curtailment and during testing. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
9. The pentane emissions collected from the pre-expanders shall be ducted to the boilers permitted under N-257-4 or N-257-5. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Emissions rates from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmv NO_x @ 3% O₂ or 0.011 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 50 ppmv CO @ 3% O₂ or 0.039 lb-CO/MMBtu, or 0.0042 lb-VOC/MMBtu. [District Rules 2201, 4305, and 4306] Federally Enforceable Through Title V Permit
11. Emissions rates from firing on fuel oil #2 shall not exceed any of the following limits: 40 ppmv NO_x @ 3% O₂ or 0.0512 lb-NO_x/MMBtu, 0.052 lb-SO_x/MMBtu, 0.015 lb-PM₁₀/MMBtu, 50 ppmv CO @ 3% O₂ or 0.039 lb-CO/MMBtu, or 0.0045 lb-VOC/MMBtu. [District Rules 2201, 4305, and 4306] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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12. 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 and 4306] Federally Enforceable Through Title V Permit
13. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081 and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. Source testing to measure natural gas-combustion NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, 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 Rules 4305 and 4306] Federally Enforceable Through Title V Permit
15. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
16. Source testing to measure natural gas-combustion NOx and CO emissions from this unit shall be conducted within 60 days of initial start-up. [District Rules 2201, 4305 and 4306] Federally Enforceable Through Title V Permit
17. 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
18. NOx 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 and 4306] Federally Enforceable Through Title V Permit
19. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
20. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
21. 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 and 4306] Federally Enforceable Through Title V Permit
22. If water vapor is not removed prior to measurement, the absolute humidity in the gas stream must be determined so that the gas concentrations may be reported on a dry basis. [District Rule 4305] Federally Enforceable Through Title V Permit
23. If water vapor creates an interference with the measurement of any component, then the water vapor must be removed from the gas stream prior to concentration measurements. [District Rule 4305] Federally Enforceable Through Title V Permit
24. 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] Federally Enforceable Through Title V Permit
25. Nitrogen oxide (NOx) and (CO) 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] Federally Enforceable Through Title V Permit
26. Operator shall maintain copies of fuel invoices and supplier certifications. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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28. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. 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 monitoring has been performed within the last month. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
29. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after 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 has occurred, subject to enforcement action. 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 4305 and 4306] Federally Enforceable Through Title V Permit
30. All alternate monitoring parameter 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 4305 and 4306] Federally Enforceable Through Title V Permit
31. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations 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 4305 and 4306] Federally Enforceable Through Title V Permit
32. Operator shall maintain all records for at least five years and conform to the recordkeeping requirements described in District Rule 2520. [District Rule 1070 and District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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