



MAR 04 2011

Philip Halpin  
Building Materials Mfg. Corp. (DBA GAF)  
6505 Zerker Rd  
Shafter, CA 93263

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit  
District Facility # S-3461  
Project # S-1061176**

Dear Mr. Halpin:

Enclosed for your review and comment is the District's analysis of Building Materials Mfg. Corp's application for the Federally Mandated Operating Permit for its fiberglass insulation manufacturing facility located at 6506 Zerker Road in Shafter, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

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

Sincerely,

David Warner  
Director of Permit Services

cc: Vanesa Gonzalez, Permit Services Engineer

Attachments

**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



MAR 04 2011

Gerardo C. Rios, Chief  
Permits Office (AIR-3)  
U.S. EPA - Region IX  
75 Hawthorne St  
San Francisco, CA 94105

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit  
District Facility # S-3461  
Project # S-1061176**

Dear Mr. Rios:

Enclosed for your review and comment is the District's analysis of Building Materials Mfg. Corp's application for the Federally Mandated Operating Permit for its fiberglass insulation manufacturing facility located at 6506 Zerker Road in Shafter, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 45-day comment period which begins on the date of publication of the public notice.

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

Sincerely,

David Warner  
Director of Permit Services

cc: Vanesa Gonzalez, Permit Services Engineer

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MAR 04 2011

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

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit  
District Facility # S-3461  
Project # S-1061176**

Dear Mr. Tollstrup:

Enclosed for your review and comment is the District's analysis of Building Materials Mfg. Corp's application for the Federally Mandated Operating Permit for its fiberglass insulation manufacturing facility located at 6506 Zerker Road in Shafter, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

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

Sincerely,

David Warner  
Director of Permit Services

cc: Vanesa Gonzalez, Permit Services Engineer

Attachments

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Bakersfield Californian

**NOTICE OF PRELIMINARY DECISION  
FOR THE PROPOSED ISSUANCE OF  
FEDERALLY MANDATED OPERATING PERMITS**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed issuance of the Federally Mandated Operating permits to Building Materials Mfg. Corp. (DBA GAF) for its fiberglass insulation manufacturing facility located at 6506 Zerker Road in Shafter, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1061176, is available for public inspection at [http://www.valleyair.org/notices/public\\_notices\\_idx.htm](http://www.valleyair.org/notices/public_notices_idx.htm) and the District office at the address below. There are no emission changes associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the proposed Federally Mandated Operating initial permits. If requested by the public, the District will hold a public hearing regarding issuance of this initial permit. 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, CALIFORNIA 93726-0244.

**SAN JOAQUIN VALLEY  
UNIFIED AIR POLLUTION CONTROL DISTRICT**

*Building Materials Mfg. Corp. (DBA GAF)*

**PROPOSED ENGINEERING EVALUATION  
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# TITLE V APPLICATION REVIEW

Project #: S-1061164  
Deemed Complete: April 7, 2006

Engineer: Vanesa Gonzalez  
Date: August 9, 2010

Facility Number: S-3461  
Facility Name: Building Materials Mfg. Corp (DBA GAF)  
Mailing Address: 6505 Zerker Rd  
Shafter, CA 93263

Contact Name: Philip Halpin  
Phone: (661) 387-1110 ext 109

Responsible Official: Philip Halpin  
Title: Plant Manager

## I. PROPOSAL

Building Materials Mfg. Corp (DBA GAF) is proposing that an initial Title V permit be issued for its existing fiberglass insulation manufacturing facility in Shafter, CA. The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with those applicable requirements, and to provide the legal and factual basis for proposed permit conditions.

## II. FACILITY LOCATION

Building Materials Mfg. Corp (DBA GAF) is located at 6505 Zerker Road in Shafter, CA.

## III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is shown in Attachment A.

A summary of the exempt equipment categories which describe the insignificant activities or equipment at the facility not requiring a permit is shown in Attachment B. This equipment is not exempt from facility-wide requirements.

#### **IV. GENERAL PERMIT TEMPLATE USAGE**

The applicant is requesting to use the following model general permit templates:

##### **A. SJV-UM-0-3, Umbrella Template**

The applicant has requested to utilize template #SJV-UM-0-3, *Umbrella Template* for unit S-3461-0-1. Based on the information submitted on the Template Qualification Form, the applicant qualifies for the use of this template.

#### **V. SCOPE OF EPA AND PUBLIC REVIEW**

Certain segments of the proposed Operating Permit are based on model general permit templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and are not subject to further EPA and public review.

For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template, and the applicable procedural requirements for issuance of Title V Operating Permits.

The following permit conditions, including their underlying applicable requirements, originate from model general permit templates and are not subject to further EPA or public review.

Conditions 1 through 42 of the requirements for permit unit S-3461-0-1.

#### **VI. APPLICABLE REQUIREMENTS ADDRESSED BY GENERAL PERMIT TEMPLATES**

District Rule 1100, Equipment Breakdown (December 17, 1992)

District Rule 1160, Emission Statements (November 18, 1992)

District Rule 2010, Permits Required (December 17, 1992)

District Rule 2020, Exemptions (December 20, 2007)

District Rule 2031, Transfer of Permits (December 17, 1992)

District Rule 2040, Applications (December 17, 1992)

District Rule 2070, Standards for Granting Applications (June 21, 2001)

District Rule 2080, Conditional Approval (December 17, 1992)

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

District Rule 4101, Visible Emissions (February 17, 2005)

District Rule 4601, Architectural Coatings (December 17, 2009)

District Rule 8021, Construction, Demolition, Excavation, Extraction, and other Earthmoving (August 19, 2004)

District Rule 8031, Bulk Materials (August 19, 2004)

District Rule 8041, Carryout and Trackout (August 19, 2004)

District Rule 8051, Open Areas (August 19, 2004)

District Rule 8061, Paved and Unpaved Roads (August 19, 2004)

District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (September 16, 2004)

40 CFR 82 Subpart B and F, Stratospheric Ozone

40 CFR 61 Subpart M, National Emission Standards for Asbestos

## **VII. APPLICABLE REQUIREMENTS NOT ADDRESSED BY GENERAL PERMIT TEMPLATES**

District Rule 1070, Inspections (December 17, 1992)

District Rule 1081, Source Sampling (December 16, 1993)

District Rule 2201, New and Modified Stationary Source Review Rule (amended December 18, 2008)

District Rule 4201, Particulate Matter Concentration (December 17, 1992)

District Rule 4309, Dryers, Dehydrators, and Ovens (December 12, 2005)

District Rule 4702, Internal Combustion Engines – Phase 2 (January 18, 2007)

40 CFR Part 64, Compliance Assurance Monitoring (CAM)

## VIII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits. The terms and conditions that are part of the facility's Title V permit are designated as Federally Enforceable Through Title V Permit.

This facility is subject to the following rules that are not currently federally enforceable:

- District Rule 4102, Nuisance (amended December 17, 1992)

For this facility, condition 41 of the requirements for permit unit S-3461-0-1 are based on the rules listed above and are not Federally Enforceable through Title V.

- Title 13 California Code of Regulations (CCR), Section 2423, Exhaust Emission Standards and Test Procedures, Off-Road Compression-Ignition Engines and Equipment

For this facility, conditions 5 and 6 of the requirements for permit unit S-3461-2-2 are based on the rules listed above and are not Federally Enforceable through Title V. However, these conditions also show compliance with several SIP Approved District Rules as discussed below. Therefore, these conditions are listed as Federally Enforceable on the permit requirements.

- Title 17 CCR, Section 93115, Airborne Toxic Control Measure for Stationary Compression Ignition (CI) Engines

For this facility, conditions 5 through 10, 12, and 13 of the requirements for permit unit S-3461-2-2 are based on the rules listed above and are not Federally Enforceable through Title V. However, these conditions also show compliance with several SIP Approved District Rules as discussed below. Therefore, these conditions are listed as Federally Enforceable on the permit requirements.

## IX. COMPLIANCE

### A. Requirements Addressed by Model General Permit Templates

#### 1. Facility Wide Requirements

The applicant is proposing to use a general permit template to address federally applicable facility-wide requirements. Section IV of template SJV-UM-0-3 includes a demonstration of compliance for all applicable requirements. Template conditions have been added to the facility wide requirements as condition numbers 1 through 40 to assure compliance with these requirements.

### B. Requirements Not Addressed by Model General Permit Templates

#### 1. District Rule 1070 – Inspections

The purpose of this rule is to explain the District's authority in determining compliance with the requirements of these rules and regulations.

- a. *S-3461-1-4: FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR NATURAL GAS-FIRED HOT WATER HEATER (COMPLIANT DORMANT EMISSIONS UNIT)*
  - Conditions 1 and 46 through 49 of the requirements for this permit unit assure compliance with this rule.
- c. *S-3461-3-1: VACUUM SYSTEM FOR GENERAL HOUSEKEEPING INCLUDING 24" CYCLONE, DUROVAC DV 3000 BAGHOUSE, AND BLOWER*
  - Condition 4 of the requirements for this permit unit assures compliance with this rule.

## 2. District Rule 1081 - Source Sampling

This rule ensures that any source operation which emits or may emit air contaminants provides adequate and safe facilities for use in sampling to determine compliance. The rule also specifies methods and procedures for source testing, sample collection, and compliance determination.

a. S-3461-1-4: FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR NATURAL GAS-FIRED HOT WATER HEATER (COMPLIANT DORMANT EMISSIONS UNIT)

- Conditions 5, 33, 34, 35, 42, 43, and 44 of the requirements for this permit unit assure compliance with this rule.

b. S-3461-3-1: VACUUM SYSTEM FOR GENERAL HOUSEKEEPING INCLUDING 24" CYCLONE, DUROVAC DV 3000 BAGHOUSE, AND BLOWER

- Conditions 5 and 6 of the requirements for this permit unit assure compliance with this rule.

## 3. New and Modified Stationary Source Review Rule (District NSR Rule)

The permit units are subject to the District NSR Rule upon application for Authority to Construct (ATC). In accordance with the White Paper for Streamlined Development of Part 70 Permit Applications, dated July 10, 1995, conditions from the resulting Permit to Operate (PTO) were addressed to define how NSR permit terms should be incorporated into the Title V permit.

a. S-3461-1-4: FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT

**WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR NATURAL GAS-FIRED HOT WATER HEATER (COMPLIANT DORMANT EMISSIONS UNIT)**

- Condition 1 from the current PTO has been included as condition 41 of the facility wide requirements.
  - Conditions 2 through 7 from the current PTO have been included as conditions 1 through 6 of the requirements for the proposed permit.
  - Condition 8 from the current PTO has been included as condition 22 of the facility wide requirements.
  - Conditions 9 through 51 from the current PTO have been included as conditions 7 through 49 of the requirements for the proposed permit.
- b. S-3461-2-2: 130 BHP CUMMINS MODEL 6BTA5.9F2 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE WATER PUMP
- Condition 1 from the current PTO has been included as condition 41 of the facility wide requirements.
  - Condition 2 from the current PTO has been included as condition 1 of the requirements for the proposed permit.
  - Condition 3 from the current PTO has been included as condition 22 of the facility wide requirements.
  - Conditions 4 through 14 from the current PTO have been included as conditions 2 through 12 of the requirements for the proposed permit.
  - Condition 13 has been added to this permit requirements to ensure compliance with District Rule 4702.
- c. S-3461-3-1: VACUUM SYSTEM FOR GENERAL HOUSEKEEPING INCLUDING 24" CYCLONE, DUROVAC DV 3000 BAGHOUSE, AND BLOWER
- Condition 1 from the current PTO has been included as condition 41 of the facility wide requirements.
  - Conditions 2 through 7 from the current PTO have been included as conditions 1 through 6 of the requirements for the proposed permit.

**4. District Rule 2520 – Federally Mandated Operating Permits**

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas

Reporting rule (40CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

## 5. District Rule 4201 - Particulate Matter Concentration

The purpose of this rule is to protect the ambient air quality by establishing a particulate matter emission standard. Section 3.1 requires emissions to be at or below 0.1 grains of particulate matter per dry standard cubic foot of exhaust gas.

- a. S-3461-1-4: FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR NATURAL GAS-FIRED HOT WATER HEATER (COMPLIANT DORMANT EMISSIONS UNIT)

The particulate matter concentration for the natural gas fired equipment on this permit is calculated as follows.

$$\begin{aligned} F\text{-Factor for NG:} & \quad 8,578 \text{ dscf/MMBtu at } 60 \text{ }^\circ\text{F} \\ PM_{10} \text{ Emission Factor:} & \quad 0.0076 \text{ lb-PM}_{10}\text{/MMBtu} \\ \text{Percentage of PM as PM}_{10} \text{ in Exhaust:} & \quad 100\% \\ \text{Exhaust Oxygen (O}_2\text{) Concentration:} & \quad 3\% \\ \text{Excess Air Correction to F Factor} & = \frac{20.9}{(20.9 - 3)} = 1.17 \end{aligned}$$

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

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

- Condition 6 of the requirements for this permit unit ensures compliance with this rule.
- b. S-3461-2-2: 130 BHP CUMMINS MODEL 6BTA5.9F2 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE WATER PUMP

The PM<sub>10</sub> emission factor for this unit is 0.25 g-PM<sub>10</sub>/bhp-hr. The corresponding particulate matter concentration is calculated below.

$$0.25 \frac{g - PM_{10}}{bhp - hr} \times \frac{1g - PM}{0.96g - PM_{10}} \times \frac{1bhp - hr}{2,542.5 Btu} \times \frac{10^6 Btu}{9,051 dscf} \times \frac{0.35 Btu_{out}}{1 Btu_{in}} \times \frac{15.43 grain}{g} = 0.06 \frac{grain - PM}{dscf}$$

- Condition 1 of the requirements for this permit unit ensures compliance with this rule.

c. S-3461-3-1: VACUUM SYSTEM FOR GENERAL HOUSEKEEPING INCLUDING 24" CYCLONE, DUROVAC DV 3000 BAGHOUSE, AND BLOWER

From the current permit daily emissions for this unit is 1.0 lb-PM<sub>10</sub>/day. The flow rate for this system is 1,200 cfm. Assuming PM<sub>10</sub> = 100% PM.

$$\text{Emissions (grain/dscf)} = \frac{1.0 \text{ lb-PM/day} \times 7,000 \text{ grain/lb}}{1,200 \text{ dscf/min} \times 60 \text{ min/hr} \times 24 \text{ hr/day}}$$

PM emissions = 0.004 grain/dscf

- Condition 7 of the requirements for this permit unit assures compliance with this rule.

**6. District Rule 4309 - Dryers, Dehydrators, and Ovens**

The purpose of this rule is to limit emissions of oxides of nitrogen (NO<sub>x</sub>) and carbon monoxide (CO) from dryers, dehydrators, and ovens. This rule applies to any dryer, dehydrator, or oven that is fired on gaseous fuel, liquid fuel, or is fired on gaseous and liquid fuel sequentially, and the total rated heat input for the unit is 5.0 million British thermal units per hour (5.0 MMBtu/hr) or greater.

Table 1 in Section 5.2 specifies NO<sub>x</sub> and CO emissions limits.

Table 1 – NO <sub>x</sub> and CO Limits for Rule 4309 (Referenced @ 19% O <sub>2</sub> )				
Process Description	NO <sub>x</sub> Limit (ppmv)		CO Limit (ppmv)	
	Gaseous Fuel Fired	Liquid Fuel Fired	Gaseous Fuel Fired	Liquid Fuel Fired
Asphalt/Concrete Plants	4.3	12.0	42	64
Milk, Cheese, and Dairy Processing < 20 MMBtu/hr	3.5	3.5	42	42
Milk, Cheese, and Dairy Processing ≥ 20 MMBtu/hr	5.3	5.3	42	42
Other processes not described above	4.3	4.3	42	42

- a. S-3461-1-4: FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR NATURAL GAS-FIRED HOT WATER HEATER (COMPLIANT DORMANT EMISSIONS UNIT)
- Condition 23 of the requirements for this permit unit assures compliance with this rule.

Section 5.3 includes provisions to exclude emissions limits from Section 5.2, Table 1 during start-up and shutdown. This operation does not include start-up and shutdown provisions. Therefore, this section does not apply.

Section 5.4 requires the operator of unit subject to the emissions limits specified in Section 5.2 to install continuous emissions monitoring or an alternate monitoring system approved by the APCO. The dryer and oven are using an APCO approved alternate monitoring system.

- a. S-3461-1-4: FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR NATURAL GAS-FIRED HOT WATER HEATER (COMPLIANT DORMANT EMISSIONS UNIT)
- Conditions 28 and 29 of the requirements for this permit unit assure compliance with this rule.

Section 5.5.1 states that 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.

Section 5.5.2 states that except as provided in Section 5.5.3, 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.

Section 5.5.3 states that notwithstanding the requirements of Section 5.5.2, the APCO, ARB, and US EPA may approve a longer or shorter period before compliance determination, if an operator submits an application for a Permit to Operate condition which provides justification for the requested duration. The facility has not requested a longer or shorter period of compliance determination therefore this section is not applicable.

Section 5.5.4 pertains to units equipped with continuous emissions monitoring systems. The dryer and oven are not equipped with continuous emissions monitoring systems. Therefore this section is not applicable.

Section 5.5.5 states that emission readings of NO<sub>x</sub> exhaust concentrations 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 space out over the 15-consecutive-minute period.

Section 5.5.6 states that for emissions source testing pursuant to Section 6.3.1 to determine compliance with an applicable emissions limit of this rule, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of the three runs individually demonstrate emissions above the applicable limit, the test cannot be used to demonstrate compliance for the unit, even if the averaged emissions of all three test runs is less than the applicable limit.

- a. *S-3461-1-4: FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR NATURAL GAS-FIRED HOT WATER HEATER (COMPLIANT DORMANT EMISSIONS UNIT)*

- Conditions 30, 32, and 38 of the requirements for this permit unit assure compliance with this rule.

Section 6.1.1 lists the recordkeeping requirements for a unit that uses a continuous emissions monitoring system. The dryer and oven do not use a continuous emissions monitoring system. Therefore this section is not applicable.

Section 6.1.2 states that operators using an alternate emissions monitoring system shall maintain the following records on a periodic basis:

- Total hours of operation.
- Type and quantity of fuel used during operations.
- Measurement for each surrogate parameter.
- Range of allowed values for each surrogate parameter.
- The period for recordkeeping shall be specified in the PTO conditions.

Section 6.1.3 only applies to dehydrators. Therefore this section is not applicable.

Section 6.1.4 states that the operator of a unit subject to Section 5.2 and performing start-up or shutdown of that unit shall keep records of the duration of each start-up and each shutdown. The facility has not proposed start-up or shutdown periods. Therefore this section is not applicable.

Section 6.1.5 lists the recordkeeping requirements for an operator of any unit operated under the exemption of Section 4.3. The dryer and oven do not operate under the exemption in Section 4.3. Therefore the requirements in this section do not apply.

Section 6.1.6 states the records and manufacturer's specifications required by Sections 6.1.1 through 6.1.5 shall meet all of the following requirements.

- The records shall be maintained for five (5) calendar years,
  - The records shall be made available on-site during normal business hours, and
  - The records shall be submitted to the APCO upon request.
- a. *S-3461-1-4: FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR*

**NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR NATURAL GAS-FIRED HOT WATER HEATER (COMPLIANT DORMANT EMISSIONS UNIT)**

- Conditions 31 and 49 of the requirements for this permit unit assure compliance with this rule.

Section 6.2 identifies the following test methods as District-approved source testing methods for the pollutants listed:

<b>Pollutant</b>	<b>Units</b>	<b>Test Method Required</b>
NO <sub>x</sub>	ppmv	EPA Method 7E or ARB Method 100
CO	ppmv	EPA Method 10 or ARB Method 100
Stack Gas O <sub>2</sub>	%	EPA Method 3 or 3A, or ARB Method 100
Stack Gas Velocities	ft/min	EPA Method 2
Stack Gas Moisture Content	%	EPA Method 4

- a. **S-3461-1-4: FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR NATURAL GAS-FIRED HOT WATER HEATER (COMPLIANT DORMANT EMISSIONS UNIT)**

- Conditions 39 through 41 of the requirements for this permit unit assure compliance with this rule.

Section 6.3 contains compliance determination requirements.

Section 6.3.1 applies to dehydrators. There are no dehydrators at the facility. Therefore, this section is not applicable.

Section 6.3.2 states that after initial source testing, each unit subject to Section 5.2 emission limits shall be source tested at least once every 24 months.

Section 6.3.3 states source testing requirements for units that operate less than 50 days per calendar year. The dryer and oven are expected to operate more than 50 days per calendar year. Therefore this section is not applicable.

Section 6.3.4 states that each exhaust stack of a unit subject to the requirements of Section 4.3 or 5.2 shall be source-tested to demonstrate compliance with the applicable emission limits.

Section 6.3.5 states the APCO shall be notified according to the provisions of Rule 1081 (Source Sampling).

Section 6.3.6 states that emissions source testing shall be conducted with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate.

Section 6.3.7 states that all test results for NO<sub>x</sub> and CO shall be reported in ppmv, corrected to dry stack conditions and adjusted using the oxygen correction factor.

Section 6.3.8 states that for the purpose of determining compliance with an applicable emission limit, the arithmetic average of three 30-consecutive-minute test runs shall apply.

Section 6.3.9 states that if two of the three runs specified by Section 6.3.8 individually demonstrate emissions above the applicable limit, the test cannot be used to demonstrate compliance for the unit, even if the averaged emissions of all three runs is less than the applicable limit.

a. S-3461-1-4: *FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR NATURAL GAS-FIRED HOT WATER HEATER (COMPLIANT DORMANT EMISSIONS UNIT)*

- Conditions 36, 38, 39, 42, and 43 of the requirements for this permit unit assure compliance with this rule.

Section 6.4 lists the source testing requirements for asphalt/concrete plants. Since this facility is not an asphalt or concrete plant, the requirements of this section do not apply.

Section 7.1 lists the dates that dryers are required to be in compliance with Rule 4309. The dryer at this facility is required to be in compliance with Rule 4309 by December 1, 2008. As demonstrated in the above rule analysis, the dryer and oven at the facility is in compliance with Rule 4309.

## **7. District Rule 4702, Internal Combustion Engines--Phase 2**

The purpose of this rule is to limit the emissions of nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines. This rule applies to any internal combustion (IC) engine with a rated brake horsepower greater than 50 horsepower.

Pursuant to Section 4.3, except for the requirements of Section 6.2.3, the requirements of this rule shall not apply to an internal combustion engine that meets the following conditions:

- 1) The engine is operated exclusively to preserve or protect property, human life, or public health during a disaster or state of emergency, such as a fire or flood, and
- 2) Except for operations associated with Section 4.3.1.1, the engine is limited to operate no more than 100 hours per calendar year as determined by an operational nonresettable elapsed operating time meter, for periodic maintenance, periodic readiness testing, and readiness testing during and after repair work of the engine, and
- 3) The engine is operated with a nonresettable elapsed operating time meter. In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions.

Section 6.2.3 requires that an owner claiming an exemption under Section 4.2 or Section 4.3 shall maintain annual operating records. This information shall be retained for at least five years, shall be readily available, and submitted to the APCO upon request and at the end of each calendar year in a manner and form approved by the APCO.

- a. S-3461-2-2: 130 BHP CUMMINS MODEL 6BTA5.9F2 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE WATER PUMP

Conditions 7 and 9 through 12 of the permit requirements for this unit ensures compliance with this rule.

**8. 40 CFR Part 60, Subpart III, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

This subpart applies to owners and operators of stationary compression ignition (CI) internal combustion engines (ICE) that commences construction, modify, or reconstruct their stationary CI ICE after July 11, 2005.

Permit unit S-3461-2-2 was installed prior to July 11, 2005 and is not subject to this subpart.

**9. 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

This subpart establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions.

The facility is not a major or area source of HAP emissions and is not subject to this subpart.

**10.40 CFR 64 – Compliance Assurance Monitoring (CAM)**

40 CFR Part 64 requires CAM for units that meet the following three criteria:

- 1) the unit must have an emission limit for the pollutant;
- 2) the unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers; and
- 3) the unit must have a pre-control potential to emit of greater than the major source thresholds.

- a. *S-3461-1-4: FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE*

**STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR  
NATURAL GAS-FIRED HOT WATER HEATER (COMPLIANT  
DORMANT EMISSIONS UNIT)**

This permit unit does not have emissions limits for SO<sub>x</sub>, or PM<sub>10</sub>. This permit unit has emissions limits for NO<sub>x</sub>, and CO but it does not have add-on controls for these criteria pollutants. Therefore, this unit is not subject to CAM for NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub> or CO.

The permit includes an emissions limit for VOC producing equipment. The forming/impregnation section, oven and dryer are served by the thermal oxidizer. Therefore calculations to determine if this unit is subject to CAM for VOC will be performed as follows.

VOC emissions from the forming/impregnation section, dryer, oven, and thermal oxidizer shall not exceed 56.2 lb/day.

$$\begin{aligned}\text{Controlled PE} &= \text{Daily Emissions} \times 365 \text{ day/year} \\ &= 56.2 \text{ lb-VOC/day} \times 365 \text{ day/year} \\ &= 20,513 \text{ lb-VOC/day}\end{aligned}$$

Since, the controlled emissions are already above the major source threshold of 20,000 lb-VOC this unit triggers CAM for VOC. Upon recommencing operation of this unit the facility will meet the requirements of CAM by continuously monitoring the operational temperature of the thermal oxidizer. In addition annual source test will be conducted to ensure the VOC reduction across the thermal oxidizer is 98%.

Conditions 5, 13, 14, 17, 35, 44, 50, 51, and 52 ensures compliance with CAM.

- b. S-3461-2-2: 130 BHP CUMMINS MODEL 6BTA5.9F2 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE WATER PUMP

This permit unit has emissions limits for all criteria pollutants. However, it is not equipped with add-on controls for these pollutants. Therefore, this unit does not trigger CAM.

- c. S-3461-3-1: VACUUM SYSTEM FOR GENERAL HOUSEKEEPING INCLUDING 24" CYCLONE, DUROVAC DV 3000 BAGHOUSE, AND BLOWER

This unit contains an emission limit for PM<sub>10</sub> and is equipped with an add control in the form of a cyclone and baghouse. However, as shown below, the pre-control potential to emit is not greater than the

major source threshold of 140,000 pounds PM<sub>10</sub>/year. Therefore, this permit unit is not subject to CAM.

The PM<sub>10</sub> emission limit is 1.0 lb-PM<sub>10</sub>/day. It will be assumed the cyclone and baghouse have a combined control efficiency of 99%. Assuming this unit operates 365 day/year.

$$\begin{aligned} PE_{\text{uncontrolled}} &= 1.0 \text{ lb-PM}_{10}/\text{day} \times (1/(1 - 99\%)) \times 365 \text{ day/year} \\ &= 36,500 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

## **X. PERMIT CONDITIONS**

See draft operating permit beginning on the following page.

# San Joaquin Valley Air Pollution Control District

FACILITY: S-3461-0-1

EXPIRATION DATE: 06/30/2010

## FACILITY-WIDE REQUIREMENTS

1. {4362} 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. {4363} 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. {4364} 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. {4365} 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 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} 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, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} 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. {4368} 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. {4369} 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

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: BUILDING MATERIALS MFG. CORP. (DBA GAF)

Location: 6505 ZERKER RD, SHAFTER, CA 93263

S-3461-0-1: Aug 6 2010 4:49PM - GONZALEZ

9. {4370} 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
10. {4371} 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. {4372} 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. {4373} 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. {4374} 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. {4375} 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. {4376} 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. {4377} 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. {4378} 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. {4379} 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. {4380} 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. {4381} 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. {4382} 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

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

22. {4383} 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 (02/17/05). 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
23. {4384} 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 Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. {4387} 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. {4388} 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 Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. {4389} 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 Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. {4390} 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 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. {4391} 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 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. {4392} 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 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. {4393} 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 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. {4394} 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 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] 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.

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 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 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. {4396} 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
36. {4397} 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. {4398} 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. {4399} 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. {4400} 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), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. {4401} 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 (2/17/05); 4601 (12/1709); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. On {Month} {Day}, 200x, 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 of the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

DRAFT

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-3461-1-4

EXPIRATION DATE: 06/30/2015

SECTION: 15 TOWNSHIP: 28S RANGE: 26E

## EQUIPMENT DESCRIPTION:

FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR NATURAL GAS-FIRED HOT WATER HEATER (COMPLIANT DORMANT EMISSIONS UNIT)

## PERMIT UNIT REQUIREMENTS

1. The permittee shall notify the District at least seven calendar days prior to the designation of this permit unit as a dormant emissions unit or an active emissions unit. [District Rule 1070] Federally Enforceable Through Title V Permit
2. When designated as a dormant emissions unit, the permittee shall not be required to perform source testing or monitoring requirements otherwise required by this permit. [District Rule 4309] Federally Enforceable Through Title V Permit
3. When designated as a dormant emissions unit the fuel supply line shall be physically disconnected from the emissions unit. [District Rule 4309] Federally Enforceable Through Title V Permit
4. A source test to demonstrate compliance with the NO<sub>x</sub> and CO emission limits shall be performed within 60 days of recommencing operation of the dormant emissions unit. [District Rule 4309] Federally Enforceable Through Title V Permit
5. A source test to demonstrate the VOC reduction efficiency across the thermal oxidizer shall be performed within 60 days of recommencing operation of the dormant emissions unit. [District Rule 1081 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Mat forming/impregnation section shall include: mat forming/impregnation unit, vacuum pump, two pulper agitators, 100 HP transfer roll exhaust fan, 100 HP holding roll exhaust fan, and various liquid transfer pumps. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Dryer and oven shall include: 150 HP drive motor, four 150 HP and two 75 HP circulation fans, 20 hp transfer fan, and 125 HP exhaust fan. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Thermal oxidizer shall include a 300 HP fan motor. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Trimmer/winding/baling operation shall include Kampf GmbH trimmer/winder, two trim fans, rewinder, two cyclones or two expansion chambers, and two scrap balers. [District Rule 2201] 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.

11. Operation shall include 19 storage vessels: two 6,500 gal. pulpers, two 31,700 gal. machine chests, 5,500 gal. couch chest, 71,000 gal. white water tank, 900 gal. white water sump, two 250,000 gal. deaeration tanks, 20,000 gal. latex tank, three 20,300 gal. resin tanks, 4,080 gal. surge/mix tank, 20,700 gal. extraction tank, 150,000 gal. Saveall tank, two 121 gal. zinc sulfate tanks, and 4,400 gal. vacuum seal tank. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Thermal oxidizer shall be equipped with a non-resettable natural gas fuel flow meter. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Upon recommencing operation thermal oxidizer shall be equipped with an operational temperature indicator reading and continuously recording the combustion chamber temperature. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
14. Thermal oxidizer combustion chamber temperature shall be maintained at or above 1,500 degrees F. whenever mat is in the dryer or oven. [District 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. All dryer and oven exhaust gases shall be vent only to the thermal oxidizer except during startup when no mat is being processed in the dryer or curing oven. [District Rule 2201] Federally Enforceable Through Title V Permit
16. All burners shall be fueled with natural gas consisting principally of methane with a sulfur content less than 1.0 grains per 100 scf and no more than 5% by weight hydrocarbons heavier than butane. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Upon recommencing operation VOC reduction across thermal oxidizer shall be no less than 98%. [District Rule 2201 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
18. Annual natural gas heat input to thermal oxidizer shall not exceed 59.15 billion BTU's. [District Rule 2201] Federally Enforceable Through Title V Permit
19. The urea-formaldehyde resin shall not have a formaldehyde content in excess of 0.25% by weight or a methanol content in excess of 0.45% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Urea-formaldehyde usage shall not exceed 21,000 gallons/day. [District Rule 2201] Federally Enforceable Through Title V Permit
21. No more than 247 tons per day of fiberglass mat shall be manufactured. [District Rule 2201] Federally Enforceable Through Title V Permit
22. PM10 emissions from the forming/impregnation section transfer roll fan exhaust, the holding roll fan exhaust, and the vacuum pump exhaust shall not exceed 0.083 lb/hr each. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Combined emissions from the natural gas-fired dryer and oven shall not exceed any of the following limits: 4.3 ppmvd NOx @ 19% O2 (equivalent to 0.04925 lb-NOx/MMBtu) and 42 ppmvd CO @ 19% O2 (equivalent to 0.29278 lb-CO/MMBtu). If measured O2 concentration is greater than 19%, the corrected NOx or CO concentration is equal to the measured NOx or CO concentration. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
24. Total emissions from the forming/impregnation section, dryer, oven and thermal oxidizer shall not exceed any of the following: PM10 - 0.61 lb/hr (14.7 lb/day), SOx (as SO2) - 0.046 lb/hr (1.1 lb/day), NOx (as NO2) - 7.61 lb/hr (182.6 lb/day), VOC 2.34 lb/hr (56.2 lb/day), or CO - 4.54 lb/hr (108.9 lb/day). [District Rule 2201] Federally Enforceable Through Title V Permit
25. Total VOC emissions from the forming/impregnation section shall not exceed 23.5 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
26. VOC emissions from each storage vessel shall not exceed 0.5 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Upon recommencing operation total VOC emissions from the storage tanks, forming/impregnation section, dryer, oven, and thermal oxidizer covered by this permit and the emergency IC engine covered by permit unit S-3461-1 shall not exceed 19,960 lb per year. Compliance with this limit will be shown each year in the annual emissions inventory. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

28. Upon recommencing operation the permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> from the natural gas-fired dryer and oven combined exhaust upstream of the thermal oxidizer 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 Rule 4309] Federally Enforceable Through Title V Permit
29. If either the NO<sub>x</sub> or CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>), 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 Rule 4309] Federally Enforceable Through Title V Permit
30. Upon recommencing operation 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 Rule 4309] Federally Enforceable Through Title V Permit
31. Upon recommencing operation the permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>), (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 Rule 4309] Federally Enforceable Through Title V Permit
32. Upon recommencing operation 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 4309. [District Rule 4309] Federally Enforceable Through Title V Permit
33. Sampling provisions for source testing shall be installed in accordance with Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
34. Upon recommencing operation source testing shall be conducted using the methods and procedures approved by the District, the District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
35. Upon recommencing operation source testing to demonstrate compliance with the VOC reduction efficiency across thermal oxidizer shall be conducted at least once every 12 months. [District Rule 1081 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
36. Upon recommencing operation source testing to measure NO<sub>x</sub> and CO emissions from the combined dryer and oven exhaust shall be conducted at least once every 24 months. [District Rules 2201 and 4309] Federally Enforceable Through Title V Permit
37. All test results for NO<sub>x</sub> and CO emissions from the combined dryer and oven exhaust shall be reported in ppmv @ 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>), corrected to dry stack conditions. [District Rule 4309] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

38. 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 Rule 4309] Federally Enforceable Through Title V Permit
39. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis. [District Rule 4309] Federally Enforceable Through Title V Permit
40. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rule 4309] Federally Enforceable Through Title V Permit
41. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4309] Federally Enforceable Through Title V Permit
42. Upon recommencing operation 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 Rules 1081 and 4309] Federally Enforceable Through Title V Permit
43. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rules 1081 and 4309] Federally Enforceable Through Title V Permit
44. Upon recommencing operation the following test methods shall be used for measuring the thermal oxidizer VOC reductions efficiency: EPA method 316 for measuring VOCs (as formaldehyde) at the inlet and outlet, and EPA method 2 for measuring the flow rates. [District Rule 1081 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
45. If the transfer roll fan exhaust, holding roll fan exhaust, or vacuum pump exhaust of the forming and impregnation operation exhibits visible emissions equal or greater than 5% opacity for a period or periods aggregating more than 3 minutes in any one hour, compliance testing shall be conducted on the unit(s) exhibiting visible emissions by District-witnessed sample collection within 60 days of District determination. [District Rule 2201] Federally Enforceable Through Title V Permit
46. Upon recommencing operation permittee shall maintain records of monthly and annual fuel consumption for the thermal oxidizer and shall make such records readily available for District inspection upon request for a period of five years. [District Rule 1070] Federally Enforceable Through Title V Permit
47. Upon recommencing operation permittee shall maintain records of the VOC and methanol contents of the urea-formaldehyde resin and daily mat production weight and shall make such records readily available for District inspection upon request for a period of five years. [District Rule 1070] Federally Enforceable Through Title V Permit
48. Upon recommencing operation permittee shall maintain annual records of VOC emissions from this operation and from the entire facility and shall make such records readily available for District inspection upon request for a period of five years. [District Rule 1070] Federally Enforceable Through Title V Permit
49. 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 and 4309] Federally Enforceable Through Title V Permit
50. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
51. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
52. If the District or EPA determine that a Quality improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-3461-2-2

EXPIRATION DATE: 06/30/2015

SECTION: 15 TOWNSHIP: 28S RANGE: 26E

## EQUIPMENT DESCRIPTION:

130 BHP CUMMINS MODEL 6BTA5.9F2 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE WATER PUMP

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102] Federally Enforceable Through Title V Permit
3. Engine shall be equipped with a turbocharger. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Engine shall be equipped with an aftercooler or intercooler. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 5.0 g-NOx/bhp-hr, 2.96 g-CO/bhp-hr, or 0.61 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.25 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] 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.

Facility Name: BUILDING MATERIALS MFG. CORP. (DBA GAF)

Location: 6505 ZERKER RD, SHAFTER, CA 93263

S-3461-2-2; Aug 19 2010 4:23PM - GONZALEV

12. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-3461-3-1

**EXPIRATION DATE:** 06/30/2015

**EQUIPMENT DESCRIPTION:**

VACUUM SYSTEM FOR GENERAL HOUSEKEEPING INCLUDING 24" CYCLONE, DUROVAC DV 3000 BAGHOUSE, AND BLOWER

## PERMIT UNIT REQUIREMENTS

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1. Dust collector shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Material removed from dust collector(s) shall be disposed of in a manner preventing emissions darker than 5% opacity for a period or periods aggregating more than 3 minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. PM10 emission rate of from this operation shall not exceed 1.0 lbs per day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. If the baghouse exhibits visible emissions greater than 5% opacity, District-witnessed compliance particulate matter emissions testing shall be conducted by an independent testing laboratory within 30 days after the emissions are observed. [District Rule 1070] Federally Enforceable Through Title V Permit
5. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
6. 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
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit

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

# Attachment A

## Detailed Facility Printout

**Detailed Facility Report**  
For Facility=3461 and excluding Deleted Permits  
Sorted by Facility Name and Permit Number

<b>BUILDING MATERIALS MFG. CORP. (DBA GAF)</b> 6505 ZERKER RD SHAFTER, CA 93263	FAC # STATUS: TELEPHONE:	<b>S 3461</b> <b>A</b> <b>6613871110</b>	TYPE: TOXIC ID:	TitleV	EXPIRE ON: AREA: INSP. DATE:	06/30/2010 5 / 02/11
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-3461-1-7	75.5 MMBTU/HR	3020-02 H	1	1,030.00	1,030.00	A	FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR NATURAL GAS-FIRED HOT WATER HEATER
S-3461-2-1	130 BHP IC ENGINE	3020-10 B	1	117.00	117.00	A	130 BHP CUMMINS MODEL 6BTA5.9F2 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE WATER PUMP
S-3461-3-0	30 BHP	3020-01 B	1	117.00	117.00	A	VACUUM SYSTEM FOR GENERAL HOUSEKEEPING INCLUDING 24" CYCLONE, DUROVAC DV 3000 BAGHOUSE, AND BLOWER

Number of Facilities Reported: 1

**Attachment B**

**Exempt Equipment**

**San Joaquin Valley  
Unified Air Pollution Control District  
Title V Application - INSIGNIFICANT ACTIVITIES**

COMPANY NAME: **Building Materials Mfg Corp dba GAF Materials Corp**

FACILITY ID: **S-3461**

Check the box next to the exemption category from Rule 2020 which describes any insignificant activity or equipment at your facility not requiring a permit.

Exemption Category	Rule 2020 Citation	√	Exemption Category	Rule 2020 Citation	√
Structure or incinerator assoc. with a structure designed as a dwelling for 4 families or less	4.1		Containers used to store refined lubricating oils	6.6.8	√
Locomotives, airplanes, and watercraft used to transport passengers or freight	4.4		Unvented pressure vessels used exclusively to store liquified gases or assoc with exempt equipment	6.6.9 or 6.13	√
Natural gas or LPG-fired boilers or other indirect heat transfer units of 5 MMBtu/hr or less	6.1.1	√	Portable tanks used exclusively to store produced fluids for ≤ six months	6.6.10	
Piston-type i.c. engine with maximum continuous rating of 50 braking horsepower (bhp) or less	6.1.2	√	Mobile transport tanks on delivery vehicles of VOCs	6.6.11	
Gas turbine engines with maximum heat input rating of 3 MMBtu/hr or less	6.1.3		Loading racks used for the transfer of less than 4,000 gal/day of unheated organic material with initial boiling point ≥ 302 F or of fuel oil with specific gravity ≥ 0.8251	6.7.1.1	
Space heating equipment other than boilers	6.1.4	√	Loading racks used for the transfer of asphalt, crude or residual oil stored in exempt tanks, or crude oil with specific gravity ≥ 0.8762	6.7.1.2	
Cooling towers with a circulation rate less than 10,000 gal/min, and that are not used for cooling of process water, or water from barometric jets or condensers++	6.2		Equipment used exclusively for the transfer of refined lubricating oil	6.7.2	
Use of less than 2 gal/day of graphic arts materials	6.3	√	Equipment used to apply architectural coatings	6.8.1	√
Equipment at retail establishments used to prepare food for human consumption	6.4.1		Unheated, non-conveyORIZED cleaning equipment with < 10 ft <sup>2</sup> open area; using solvents with initial boiling point ≥ 248 F; and < 25 gal/yr. evaporative losses	6.9	
Ovens at bakeries with total daily production less than 1,000 pounds and exempt by sec. 6.1.1	6.4.3		Brazing, soldering, or welding equipment	6.10	√
Equipment used exclusively for extruding or compression molding of rubber or plastics, where no plastisizer or blowing agent is used	6.5		Equipment used to compress natural gas	6.11	
Containers used to store clean produced water	6.6.1		Fugitive emissions sources assoc. with exempt equipment	6.12	
Containers ≤ 100 bbl used to store oil with specific gravity ≥ 0.8762	6.6.2		Pits and Ponds as defined in Rule 1020	6.15	
Containers ≤ 100 bbl installed prior to 6/1/89 used to store oil with specific gravity ≥ 0.8762	6.6.3		On-site roadmix manufacturing and the application of roadmix as a road base material	6.17	
Containers with a capacity ≤ 250 gallons used to store organic material where the actual storage temperature < 150 F	6.6.4	√	Emissions: less than 2 lb/day from units not included above	6.19	√
Containers used to store unheated organic material with an initial boiling point ≥ 302 F	6.6.5		Venting PUC quality natural gas from for sole purpose of pipeline and compressor repair and or maintenance	7.2	√
Containers used to store fuel oils or non-air-blown asphalt with specific gravity ≥ 0.9042	6.6.6		Non-structural repairs & maintenance to permitted equipment	7.3	√
Containers used to store petroleum distillates used as motor fuel with specific gravity ≥ 0.8251	6.6.7	√	Detonation of explosives ≤ 100 lb/day and 1,000 lb/year	7.4	

No insignificant activities (Check this box if no equipment in the above categories exist at your facility.)

# Attachment C

## Template Qualifications

**San Joaquin Valley  
Air Pollution Control District**

**TITLE V COMPLIANCE CERTIFICATION FORM**

**I. TYPE OF PERMIT ACTION (Check appropriate box)**

INITIAL TITLE V PERMIT

PERMIT RENEWAL

NEW TITLE V PERMIT

COMPANY NAME: Building Materials Mfg. Corp. (dba GAF Materials Corp.)	FACILITY ID: S-3461
1. Type of Organization: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Sole Ownership <input type="checkbox"/> Government <input type="checkbox"/> Partnership <input type="checkbox"/> Utility	
2. Owner's Name: Building Materials Mfg. Corp. (dba GAF Materials Corp.)	
3. Agent to the Owner: Philip Halpin	
4. Compliance Certifications will be submitted on: year 1: <u>4 / 1 / 07</u> year 2: <u>4 / 1 / 08</u> year 3: <u>4 / 1 / 09</u> year 4: <u>4 / 1 / 10</u> year 5: <u>4 / 1 / 11</u> Other dates if required by regulations or compliance schedule: _____	

**II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial each circle for confirmation):**

- Based on information and belief formed after reasonable inquiry, the source identified in this application will continue to comply with the applicable federal requirement(s) which the source is in compliance as identified in the Compliance Plan.
- Based on information and belief formed after reasonable inquiry, the source identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term as identified in the Compliance Plan, on a timely basis.
- Based on information and belief formed after reasonable inquiry, the source identified in this application is not in compliance at the time of permit issuance with the applicable federal requirement(s), as identified in the Compliance Plan, and I have attached a compliance schedule.
- Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.
- Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:

Philip Halpin  
Signature of Responsible Official

3/28/06  
Date

Philip Halpin

\_\_\_\_\_  
Name of Responsible Official (please print)

Plant Manager

\_\_\_\_\_  
Title of Responsible Official (please print)

# Attachment D

## SVVUAPCD Permits



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



**HEALTHY AIR LIVING™**

**COPY**

# Permit to Operate

**FACILITY:** S-3461

**EXPIRATION DATE:** 06/30/2010

**LEGAL OWNER OR OPERATOR:**  
**MAILING ADDRESS:**

BUILDING MATERIALS MFG. CORP. (DBA GAF)  
6505 ZERKER RD  
SHAFTER, CA 93263

**FACILITY LOCATION:**

6505 ZERKER RD  
SHAFTER, CA 93263

**FACILITY DESCRIPTION:**

FIBERGLASS INSULATION MANUFACTURING

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

**Seyed Sadredin**  
Executive Director / APCO

**David Warner**  
Director of Permit Services

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-3461-1-7

EXPIRATION DATE: 06/30/2010

SECTION: 15 TOWNSHIP: 28S RANGE: 26E

## EQUIPMENT DESCRIPTION:

FIBERGLASS MAT MANUFACTURING OPERATION INCLUDING MAT FORMING/IMPREGNATION SECTION, 60 MMBTU/HR NATURAL GAS FIRED DRYER, 8 MMBTU/HR NATURAL GAS FIRED OVEN EXHAUSTING TO 7.5 MMBTU/HR NATURAL GAS FIRED REGENERATIVE THERMAL OXIDIZER, TRIMMING, WINDING, AND BALING UNIT, AND THE FOLLOWING PERMIT EXEMPT EQUIPMENT: COOLING WATER TANK, HOT WATER TANK, DEFECT DYE TANK, <250 GALLON GASOLINE STORAGE TANK, PLANT AIR COMPRESSOR, AND <2 MMBTU/HR NATURAL GAS-FIRED HOT WATER HEATER

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall notify the District at least seven calendar days prior to the designation of this permit unit as a dormant emissions unit or an active emissions unit. [District Rule 1070]
3. When designated as a dormant emissions unit, the permittee shall not be required to perform source testing or monitoring requirements otherwise required by this permit. [District Rule 4309]
4. When designated as a dormant emissions unit the fuel supply line shall be physically disconnected from the emissions unit. [District Rule 4309]
5. A source test to demonstrate compliance with the NO<sub>x</sub> and CO emission limits shall be performed within 60 days of recommencing operation of the dormant emissions unit. [District Rule 4309]
6. A source test to demonstrate the VOC reduction efficiency across the thermal oxidizer shall be performed within 60 days of recommencing operation of the dormant emissions unit. [District Rule 1081]
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
8. 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]
9. Mat forming/impregnation section shall include: mat forming/impregnation unit, vacuum pump, two pulper agitators, 100 HP transfer roll exhaust fan, 100 HP holding roll exhaust fan, and various liquid transfer pumps. [District Rule 2201]
10. Dryer and oven shall include: 150 HP drive motor, four 150 HP and two 75 HP circulation fans, 20 hp transfer fan, and 125 HP exhaust fan. [District Rule 2201]
11. Thermal oxidizer shall include a 300 HP fan motor. [District Rule 2201]
12. Trimmer/winding/baling operation shall include Kampf GmbH trimmer/winder, two trim fans, rewinder, two cyclones or two expansion chambers, and two scrap balers. [District Rule 2201]
13. Operation shall include 19 storage vessels: two 6,500 gal. pulpers, two 31,700 gal. machine chests, 5,500 gal. couch chest, 71,000 gal. white water tank, 900 gal. white water sump, two 250,000 gal. deaeration tanks, 20,000 gal. latex tank, three 20,300 gal. resin tanks, 4,080 gal. surge/mix tank, 20,700 gal. extraction tank, 150,000 gal. Saveall tank, two 121 gal. zinc sulfate tanks, and 4,400 gal. vacuum seal tank. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. Thermal oxidizer shall be equipped with a non-resettable natural gas fuel flow meter. [District Rule 2201]
15. Upon recommencing operation thermal oxidizer shall be equipped with an operational temperature indicator reading and continuously recording the combustion chamber temperature. [District Rule 2201]
16. Thermal oxidizer combustion chamber temperature shall be maintained at or above 1,500 degrees F. whenever mat is in the dryer or oven. [District 2201]
17. All dryer and oven exhaust gases shall be vent only to the thermal oxidizer except during startup when no mat is being processed in the dryer or curing oven. [District Rule 2201]
18. All burners shall be fueled with natural gas consisting principally of methane with a sulfur content less than 1.0 grains per 100 scf and no more than 5% by weight hydrocarbons heavier than butane. [District Rule 2201]
19. Upon recommencing operation VOC reduction across thermal oxidizer shall be no less than 98%. [District Rule 2201]
20. Annual natural gas heat input to thermal oxidizer shall not exceed 59.15 billion BTU's. [District Rule 2201]
21. The urea-formaldehyde resin shall not have a formaldehyde content in excess of 0.25% by weight or a methanol content in excess of 0.45% by weight. [District Rule 2201]
22. Urea-formaldehyde usage shall not exceed 21,000 gallons/day. [District Rule 2201]
23. No more than 247 tons per day of fiberglass mat shall be manufactured. [District Rule 2201]
24. PM10 emissions from the forming/impregnation section transfer roll fan exhaust, the holding roll fan exhaust, and the vacuum pump exhaust shall not exceed 0.083 lb/hr each. [District Rule 2201]
25. Combined emissions from the natural gas-fired dryer and oven shall not exceed any of the following limits: 4.3 ppmvd NOx @ 19% O2 (equivalent to 0.04925 lb-NOx/MMBtu) and 42 ppmvd CO @ 19% O2 (equivalent to 0.29278 lb-CO/MMBtu). If measured O2 concentration is greater than 19%, the corrected NOx or CO concentration is equal to the measured NOx or CO concentration. [District Rules 2201 and 4309]
26. Total emissions from the forming/impregnation section, dryer, oven and thermal oxidizer shall not exceed any of the following: PM10 - 0.61 lb/hr (14.7 lb/day), SOx (as SO2) - 0.046 lb/hr (1.1 lb/day), NOx (as NO2) - 7.61 lb/hr (182.6 lb/day), VOC 2.34 lb/hr (56.2 lb/day), or CO - 4.54 lb/hr (108.9 lb/day). [District Rule 2201]
27. Total VOC emissions from the forming/impregnation section shall not exceed 23.5 lb/day. [District Rule 2201]
28. VOC emissions from each storage vessel shall not exceed 0.5 pounds per day. [District Rule 2201]
29. Upon recommencing operation total VOC emissions from the storage tanks, forming/impregnation section, dryer, oven, and thermal oxidizer covered by this permit and the emergency IC engine covered by permit unit S-3461-1 shall not exceed 19,960 lb per year. Compliance with this limit will be shown each year in the annual emissions inventory. [District Rule 2201]
30. Upon recommencing operation the permittee shall monitor and record the stack concentration of NOx, CO, and O2 from the natural gas-fired dryer and oven combined exhaust upstream of the thermal oxidizer 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 Rule 4309]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

31. If either the NO<sub>x</sub> or CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>), 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 Rule 4309]
32. Upon recommencing operation 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 Rule 4309]
33. Upon recommencing operation the permittee shall maintain records of: (1) the date and time of NO<sub>x</sub>, CO, and O<sub>2</sub> measurements, (2) the O<sub>2</sub> concentration in percent and the measured NO<sub>x</sub> and CO concentrations corrected to 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>), (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 Rule 4309]
34. Upon recommencing operation 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 4309. [District Rule 4309]
35. Sampling provisions for source testing shall be installed in accordance with Rule 1081 (Source Sampling). [District Rule 1081]
36. Upon recommencing operation source testing shall be conducted using the methods and procedures approved by the District, the District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081]
37. Upon recommencing operation source testing to demonstrate compliance with the VOC reduction efficiency across thermal oxidizer shall be conducted at least once every 12 months. [District Rule 1081]
38. Upon recommencing operation source testing to measure NO<sub>x</sub> and CO emissions from the combined dryer and oven exhaust shall be conducted at least once every 24 months. [District Rules 2201 and 4309]
39. All test results for NO<sub>x</sub> and CO emissions from the combined dryer and oven exhaust shall be reported in ppmv @ 19% O<sub>2</sub> (or no correction if measured above 19% O<sub>2</sub>), corrected to dry stack conditions. [District Rule 4309]
40. 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 Rule 4309]
41. NO<sub>x</sub> emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis. [District Rule 4309]
42. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rule 4309]
43. Stack gas oxygen (O<sub>2</sub>) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rule 4309]
44. Upon recommencing operation 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]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

45. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
46. Upon recommencing operation the following test methods shall be used for measuring the thermal oxidizer VOC reductions efficiency: EPA method 316 for measuring VOCs (as formaldehyde) at the inlet and outlet, and EPA method 2 for measuring the flow rates. [District Rule 1081]
47. If the transfer roll fan exhaust, holding roll fan exhaust, or vacuum pump exhaust of the forming and impregnation operation exhibits visible emissions equal or greater than 5% opacity for a period or periods aggregating more than 3 minutes in any one hour, compliance testing shall be conducted on the unit(s) exhibiting visible emissions by District-witnessed sample collection within 60 days of District determination. [District Rule 2201]
48. Upon recommencing operation permittee shall maintain records of monthly and annual fuel consumption for the thermal oxidizer and shall make such records readily available for District inspection upon request for a period of five years. [District Rule 1070]
49. Upon recommencing operation permittee shall maintain records of the VOC and methanol contents of the urea-formaldehyde resin and daily mat production weight and shall make such records readily available for District inspection upon request for a period of five years. [District Rule 1070]
50. Upon recommencing operation permittee shall maintain annual records of VOC emissions from this operation and from the entire facility and shall make such records readily available for District inspection upon request for a period of five years. [District Rule 1070]
51. 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 and 4309]

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-3461-2-1

EXPIRATION DATE: 06/30/2010

SECTION: 15 TOWNSHIP: 28S RANGE: 26E

## EQUIPMENT DESCRIPTION:

130 BHP CUMMINS MODEL 6BTA5.9F2 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE WATER PUMP

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
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]
4. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
5. Engine shall be equipped with a turbocharger. [District Rule 2201]
6. Engine shall be equipped with an aftercooler or intercooler. [District Rule 2201]
7. Emissions from this IC engine shall not exceed any of the following limits: 5.0 g-NOx/bhp-hr, 2.96 g-CO/bhp-hr, or 0.61 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115]
8. Emissions from this IC engine shall not exceed 0.25 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115]
9. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115]
10. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
11. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 17 CCR 93115]
12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
13. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

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

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-3461-3-0

**EXPIRATION DATE:** 06/30/2010

**EQUIPMENT DESCRIPTION:**

VACUUM SYSTEM FOR GENERAL HOUSEKEEPING INCLUDING 24" CYCLONE, DUROVAC DV 3000 BAGHOUSE, AND BLOWER

## PERMIT UNIT REQUIREMENTS

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1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Dust collector shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201]
3. Material removed from dust collector(s) shall be disposed of in a manner preventing emissions darker than 5% opacity for a period or periods aggregating more than 3 minutes in one hour. [District Rule 2201]
4. PM10 emission rate of from this operation shall not exceed 1.0 lbs per day. [District Rule 2201]
5. If the baghouse exhibits visible emissions greater than 5 % opacity, District-witnessed compliance particulate matter emissions testing shall be conducted by an independent testing laboratory within 30 days after the emissions are observed. [District Rule 1070]
6. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081]
7. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]

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