



APR 20 2016

Mr. Philip Halpin
Building Materials Mfg. Corp
6505 Zerker Road
Shafter, CA 93263

**Re: Notice of Final Action - Title V Permit Renewal
District Facility # S-3461
Project # 1144254**

Dear Mr. Halpin:

The District has issued the Final Renewed Title V Permit for Building Materials Mfg. Corp. The preliminary decision for this project was made on 2/22/16. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation. These permits address all deficiencies cited by the EPA in their objection.

The public notice for issuance of the Final Title V Permit will be published approximately three days from the date of this letter.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Sincerely,



Arnaud Marjollet
Director of Permit Services

Enclosures

cc: Tung Le, CARB (w/enclosure) via email
cc: Gerardo C. Rios, EPA (w/enclosure) via email

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
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Central Region (Main Office)
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**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT**

**Title V Permit Renewal Evaluation
S-3461: Building Materials Manufacturing**

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Title V Permit Renewal Evaluation

Fiberglass Mat Manufacturing Operation

Engineer: Steve Roeder
Date: 2/8/16
Amended: 4/6/16

Facility Number: S-3461
Facility Name: Building Materials Manufacturing Corporation
Mailing Address: 6505 Zerker Road
Shafter, CA 93263

Contact Name: Philip Halpin, Plant Manager
Phone: (661) 387-1110

Responsible Official: Philip Halpin
Title: Plant Manager

Project # : 1144254
Deemed Complete: 12/17/14

I. Proposal

Building Materials Manufacturing Corporation was issued a Title V permit on April 19, 2011. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit (Project S-1061176).

The purpose of this evaluation is to provide the legal and factual basis for all updated applicable requirements and to determine if the facility will comply with these updated requirements. It also specifically identifies all additions, deletions, and/or changes made to permit conditions or equipment descriptions.

II. Facility Location

Building Materials Manufacturing is located at 6505 Zerker Road in Shafter.

III. Equipment Listing

Please see the equipment listing (detailed facility report) in Appendix C. Equipment at this facility includes a 75.5 MMBtu/hr fiber glass mat manufacturing unit, one emergency diesel engine powering a firewater pump, and one vacuum system.

IV. General Permit Template Usage

The applicant has authorized the use of Umbrella Permit UM-03, which is currently in-use and will remain in the facility-wide conditions to ensure compliance.

V. Scope of EPA and Public Review

The facility-wide permit (S-3461-0-2) is based on the model general permit template UM-03. Since this template has been previously approved by the EPA during the EPA and public review period, this part of the permit is not subject to further EPA review.

Conditions 1-40 of facility-wide permit S-3461-0-2 are based on permit template UM-03.

VI. Applicable Federally Enforceable Requirements

A. Applicable District Rules Updated Since 4/19/2011

- Rule 2201 New and Modified Stationary Source Review Rule (amended 4/21/11)
- Rule 4702 Internal Combustion Engines (amended 11/14/13)

B. Applicable Rules Removed Since 4/19/2011

- No District Rules listed on the original Title V permit have been removed.

C. Applicable Rules Added Since 4/19/2011

- Rule 2410 Prevention of Significant Deterioration (Adopted 1/16/11, Effective 11/26/12)

D. Applicable Rules Not Updated Since 4/19/2011

- Rule 1070 Inspections (amended 12/17/92)
- Rule 1100 Equipment Breakdown (amended 12/17/92)
- Rule 1160 Emission Statements (adopted 11/18/92)
- Rule 1081 Source Sampling (amended 12/16/93)
- Rule 2010 Permits Required (amended 12/17/92)
- Rule 2031 Transfer of Permits (amended 12/17/92)
- Rule 2040 Applications (amended 12/17/92)
- Rule 2070 Standards for Granting Applications (amended 12/17/92)
- Rule 2080 Conditional Approval (amended 12/17/92)
- Rule 2520 Federally Mandated Operating Permits (amended 6/21/01)
- Rule 4201 Particulate Matter Concentration (amended 12/17/92)

- Rule 4301 Fuel Burning Equipment (amended 12/17/92)
- Rule 4101 Visible Emissions (amended 2/17/05)
- Rule 4309 Dryers, Dehydrators and Ovens (adopted 12/15/05)
- Rule 4601 Architectural Coatings (amended 12/17/09)
- Rule 8011 General Requirements (amended 8/19/04)
- Rule 8021 Construction, Demolition, Excavation, Extraction, and other Earthmoving Activities (amended 8/19/04)
- Rule 8031 Bulk Materials (amended 8/19/04)
- Rule 8041 Carryout and Trackout (amended 8/19/04)
- Rule 8051 Open Areas (amended 8/19/04)
- Rule 8061 Paved and Unpaved Roads (amended 8/19/04)
- Rule 8071 Unpaved Vehicle/Equipment Traffic Areas (amended 9/16/04)
- Rule 4801, Sulfur Compounds (amended 12/17/92)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos
- 40 CFR Part 82, Subpart F, Stratospheric Ozone

VII. Applicable Non-Federally Enforceable Requirements

Pursuant to the discussion of Rule 2520 below, the applicable federal and District requirements appear on a single permit.

The federally enforceable conditions are enforced by the EPA and are each denoted with the following language: "Federally Enforceable through Title V Permit".

The non-federally enforceable conditions are not enforced by the EPA, and are local laws that are enforced by the District. The following Rules are not federally enforceable and will not be discussed beyond this section.

- District Rule 4102, Nuisance

Condition 41 on the facility-wide permit identifies the requirements of Rule 4102.

VIII. Permit Requirements

The purpose of this evaluation is to review any changes to federally enforceable requirements. Therefore, this compliance section will address relevant *rules that have been amended or added since the issuance of the initial Title V permit.*

Please note that the facility-wide permit conditions include the latest EPA-approved Umbrella Permit UM-0-3. These conditions are applicable to every facility. Since the initial Title V permit also includes the umbrella template UM-0-3, no changes are included for this renewal.

New and Amended Applicable District Rules

A. District Rule 2201, New and Modified Stationary Source Review Rule

District Rule 2201 has been amended since this facility's initial Title V permit was issued.

The purpose of this rule is to provide for the following:

- 1.1 The review of new and modified Stationary Sources of air pollution and to provide mechanisms including emission trade-offs by which Authorities to Construct such sources may be granted, without interfering with the attainment or maintenance of Ambient Air Quality Standards; and
- 1.2 No net increase in emissions above specified thresholds from new and modified Stationary Sources of all nonattainment pollutants and their precursors.

The requirements of Rule 2201 are only triggered at the time the source undergoes a modification (pursuant to Section 3.25). All applicable requirements from all previous NSR actions have been incorporated into the current renewed Title V permit.

Continued compliance with Rule 2201 is expected.

B. District Rule 2410 Prevention of Significant Deterioration

District Rule 2410 has been made effective since this facility's initial Title V permit was issued.

The purpose of this rule is incorporate the federal PSD rule requirements into the District's Rules and Regulations by incorporating the federal requirements by reference, and is applicable to new major sources and major modifications to existing major sources.

No projects have been proposed at this facility since Rule 2410 has been made effective.

C. District Rule 4702, Internal Combustion Engines

District Rule 4702 has been amended since this facility's initial Title V permit was issued. The purpose of Rule 4702 is to limit the emissions of NO_x, SO_x, CO and VOC from internal combustion engines.

The Rule had been amended on 11/14/13 and the changes include adding/changing Definitions in Section 3, re-writing various Exemptions in Section 4, adding Requirements for engines rates at 25-50 hp to Section 5 and various other changes.

Since the only engine located at this facility is a diesel-fired emergency IC engine powering an electrical generator, no changes are required on the Title V permit.

The requirements for engine S-3461-2 are listed below.

Pursuant to Section 4.2, except for the requirements of Sections 5.9 (Monitoring) and 6.2.3 (Recordkeeping), the requirements of this rule shall not apply to an emergency standby engine.

Conditions 9 and 11 on permit S-3461-2-3 limits this engine to testing, maintenance and emergency-use-only and define emergency use.

Section 5.9 requires the use of a non-resettable hour meter.

Condition 7 on permit S-3461-2-3 requires the use of a non-resettable hour meter.

Section 6.2.3 specifies the recordkeeping requirements.

Conditions 10, 12 and 13 on permit S-3461-2-3 list all of the recordkeeping requirements.

Continued compliance with Rule 4702 is expected.

IX. Permit Shield

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit. Compliance with the terms and conditions of the Operating Permit is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed.

Requirements Addressed by Model General Permit Templates

No general templates have been proposed. However, facility-wide conditions from umbrella permit UM-03 have been used. These contain standard permit shields.

A. Requirements not Addressed by Model General Permit Templates

No extra permit shields have been proposed. The standard permit shields that were already on the steam generator permits remain on the permits.

B. Obsolete Permit Shields from Existing Permit Requirements

There are no obsolete permit shields on the permit.

X. Permit Conditions

See Attachment A - Renewed Title V Operating Permit.

XI. Appendixes

- A. Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Facility Report
- D. Comments Received and District Responses

ATTACHMENT A

Renewed Title V Operating Permit



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT



Permit to Operate

FACILITY: S-3461

EXPIRATION DATE: 06/30/2020

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 MAT MANUFACTURING OPERATION

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

Arnaud Marjollet
Director of Permit Services

San Joaquin Valley Air Pollution Control District

FACILITY: S-3461-0-2

EXPIRATION DATE: 06/30/2020

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

Location: 8505 ZERKER RD, SHAFTER, CA 93283

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in 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. 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. 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. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. 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 Rules 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), 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. 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 (12/17/09); 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. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. On April 19, 2011, 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.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-3461-1-10

EXPIRATION DATE: 06/30/2020

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

1. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] 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 2080] Federally Enforceable Through Title V Permit
3. While dormant, the fuel supply line shall be physically disconnected from the emissions unit. [District Rule 2080] Federally Enforceable Through Title V Permit
4. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
7. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
8. 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
9. 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
10. Thermal oxidizer shall include a 300 HP fan motor. [District Rule 2201] Federally Enforceable Through Title V Permit
11. 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.

12. 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
13. Thermal oxidizer shall be equipped with a non-resettable natural gas fuel flow meter. [District Rule 2201] Federally Enforceable Through Title V Permit
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. Urea-formaldehyde usage shall not exceed 21,000 gallons/day. [District Rule 2201] Federally Enforceable Through Title V Permit
22. No more than 247 tons per day of fiberglass mat shall be manufactured. [District Rule 2201] Federally Enforceable Through Title V Permit
23. 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
24. Particulate matter emissions from this unit shall not exceed 0.1 grain/dscf. [District Rule 4201] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
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] Federally Enforceable Through Title V Permit
27. Total VOC emissions from the forming/impregnation section shall not exceed 23.5 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
28. VOC emissions from each storage vessel shall not exceed 0.5 pounds per day. [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.

29. The total VOC emissions from this operation 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
30. The permittee shall monitor and record the stack concentration of NO_x, 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] Federally Enforceable Through Title V Permit
31. If either the NO_x or CO concentrations corrected to 19% O₂ (or no correction if measured above 19% O₂), as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4309] Federally Enforceable Through Title V Permit
32. 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
33. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 19% O₂ (or no correction if measured above 19% O₂), (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range [District Rule 4309] Federally Enforceable Through Title V Permit
34. 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
35. Sampling provisions for source testing shall be installed in accordance with Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
36. 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
37. 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
38. Source testing to measure NO_x 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
39. All test results for NO_x and CO emissions from the combined dryer and oven exhaust shall be reported in ppmv @ 19% O₂ (or no correction if measured above 19% O₂), corrected to dry stack conditions. [District Rule 4309] 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.

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] Federally Enforceable Through Title V Permit
41. 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
42. 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
43. 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
44. 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
45. 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
46. 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
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] Federally Enforceable Through Title V Permit
48. 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
49. 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
50. 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
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] Federally Enforceable Through Title V Permit
52. 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
53. 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
54. 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.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-3461-2-3

EXPIRATION DATE: 06/30/2020

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.

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 Rules 4702 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-3461-3-2

EXPIRATION DATE: 06/30/2020

EQUIPMENT DESCRIPTION:

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

PERMIT UNIT REQUIREMENTS

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 B

Previous Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: S-3461-0-1

EXPIRATION DATE: 06/30/2015

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

S-3461-0-1; Feb 2 2016 2:04PM - ROEDERS

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in 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. 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. 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. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. 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. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), 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. 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 (12/17/09); 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. 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.

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 NOx 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.

Facility Name: BUILDING MATERIALS MFG. CORP. (DBA GAF)
Location: 8506 ZERKER RD, SHAFTER, CA 93283

S-3461-1-4 - Feb 2 2010 2:04PM - ROEDERS

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_x, 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] Federally Enforceable Through Title V Permit
29. If either the NO_x or CO concentrations corrected to 19% O₂ (or no correction if measured above 19% O₂), as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District 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_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 19% O₂ (or no correction if measured above 19% O₂), (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range [District 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_x 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_x and CO emissions from the combined dryer and oven exhaust shall be reported in ppmv @ 19% O₂ (or no correction if measured above 19% O₂), corrected to dry stack conditions. [District Rule 4309] 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.

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.

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: 8505 ZERKER RD, SHAFTER, CA 93283
8-3461-2-2: Feb 2 2016 2:04PM - ROEDERS

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.

Facility Name: BUILDING MATERIALS MFG. CORP. (DBA GAF)
Location: 6505 ZERKER RD, SHAFER, CA 93283

S-3461-2-2: Feb 2 2019 2:04PM - ROEDERS

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

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 C

Detailed Facility Report

Detailed Facility Report
For Facility=3461
Sorted by Facility Name and Permit Number

BUILDING MATERIALS MFG. CORP. (DBA GAF) 6505 ZERKER RD SHAFTER, CA 93263	FAC # STATUS: TELEPHONE:	S 3461 A 6613871110	TYPE: TOXIC ID:	TitleV AREA:	EXPIRE ON: INSPECTION DATE:	06/30/2015 82 / 08/16
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-3461-1-4	75.5 MMBTU/HR	3020-02 H	1	1,080.00	1,080.00	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 (COMPLIANT DORMANT EMISSIONS UNIT)
S-3461-2-2	130 BHP IC ENGINE	3020-10 B	1	123.00	123.00	A	130 BHP CUMMINS MODEL 6BTA5.9F2 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE WATER PUMP
S-3461-3-1	30 BHP	3020-01 B	1	123.00	123.00	A	VACUUM SYSTEM FOR GENERAL HOUSEKEEPING INCLUDING 24" CYCLONE, DUROVAC DV 3000 BAGHOUSE, AND BLOWER

Number of Facilities Reported: 1

ATTACHMENT D

Comments Received and District Responses

This addendum to the engineering evaluation addresses three comments received from the EPA, one comment received from the facility, and two additional revisions added by the District.

A. Three Comments from EPA

EPA Comment 1

Pursuant to Section VIII, the purpose of this evaluation is to evaluate changes to the federally enforceable requirements that have occurred since the original Title V operating permit was issued. Rule 4702 has been revised since the last TV Renewal, however the body of the evaluation does not address this rule. Similarly, many other rules are referenced in Section VIII, even though they have not been recently revised.

Response to EPA Comment 1

Section VIII has been revised to include a discussion of Rule 4702, and to eliminate the discussion of rules that have not been revised since the issuance of the initial TV Permit.

EPA Comment 2

Rule 2201 has been amended since the facility's initial Title V permit was issued. However, the requirements of Rule 2201 are only triggered at the time the source has undergone a modification pursuant to that rule.

Response to EPA Comment 2

Section VIII.A has been revised to address Rule 2201 and discusses how that rule is not applicable to this TV Permit Renewal project.

EPA Comment 3

Rule 2410 has been adopted since the facility's initial Title V permit was issued. However, the requirements of Rule 2410 are only triggered at the time the source has undergone a modification pursuant to that rule.

Response to EPA Comment 3

Section VIII.B has been revised to address Rule 2410 and discusses how that rule is not applicable to this TV Permit Renewal project.

B. Comment from the Source

Permit S-3461-1-10 had been re-written to include the latest language used for Dormant Emission Units. With the addition of new conditions 1-6, condition 7 is now unnecessary and can be eliminated.

Condition 7 from the Formerly Proposed TV Permit is listed below.

7. 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 64]

Response to Comment from Source

Since Conditions 18 and 37 on the renewed TV Permit already include all of the requirements listed in condition 7 (above), condition 7 is unnecessary and has been removed.

18. Upon recommencing operation VOC reduction across thermal oxidizer shall be no less than 98%. [District Rule 2201 and 40 CFR Part 64]
37. 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]

C. Two District Revisions

District Revision #1

The District determined that, upon adding modern permit language for Dormant Emissions Units to the renewed TV Permit, the words "Upon recommencing operation" are also no longer useful in the rest of the permit and has been eliminated from all of the conditions except #5, as shown in the attached permit.

District Revision #2

The District has determined that condition 30 on Permit S-3461-1-10 (see below) was confusingly wordy, and has been rewritten as shown below.

The condition was originally intended to limit the annual VOC emissions to show compliance with the offset requirements of Rule 2201. In former analyses, it was established that the annual VOC contribution of unit S-3461-1 was limited to 19,960 lb-VOC/year, and the condition has been re-written to clearly state this.

Original Condition

30. Upon recommencing operation total VOC emissions from the storage tanks, forming/impregnation section, dryer, oven, and thermal oxidizer covered by this permit, 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]

Rewritten Condition

29. The total VOC emissions from 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]