

South Coast Air Quality Management District

Statement of Basis

Proposed Title V Permit Renewal

Facility Name: Insulfoam, LLC.
Facility ID: 151843
SIC Code: 3086
Equipment Location: 5635 Schaefer Avenue
Chino, CA 91710-9041

Application #(s): 515835

Application Submittal Date(s): 10/27/10

AQMD Contact Person: Stephen Jiang
Phone Number: (909) 396-3134
E-Mail Address: sjiang@aqmd.gov

1. Introduction and Scope of Permit

Title V is a national operating permit program for air pollution sources. Facilities subject to Title V must obtain a Title V permit and comply with specific Title V procedures to modify the permit. This permit replaces the facility's other existing permits. Title V does not necessarily include any new requirements for reducing emissions. It does, however, include new permitting, noticing, recordkeeping, and reporting requirements.

Pursuant to Title V of the federal Clean Air Act and AQMD Rule 3004(f), a Title V permit shall expire five years from the date of issuance unless such permit has been renewed. Accordingly, each facility is required to submit a Title V renewal application and requested the AQMD to renew their Title V permit. The proposed permit incorporates updates to the facility information provided in the facility's Title V renewal application and all rules and regulations that are currently applicable to the facility.

The AQMD implements Title V through Regulation XXX – Title V Permits, adopted by the AQMD Governing Board in order to comply with EPA's requirement that local air permitting authorities develop a Title V program. Regulation XXX was developed with the participation of the public and affected facilities through a series of public workshops, working group meetings, public hearings and other meetings.

The Title V major source threshold for a particular pollutant depends on the attainment status of the pollutant. NO₂, SO₂, CO, and lead are in attainment with federal standards. The status for PM-10 is serious nonattainment. The status for ozone is currently extreme nonattainment.

A Title V permit is proposed to be issued to cover the operations of Insulfoam, 5635 Schaefer Avenue, Chino, CA 91710. This facility is subject to Title V requirements because it is a major source.

2. Facility Description

Insulfoam facility is a Title V facility that manufactures polystyrene foam blocks and boards that are used for construction insulation applications. This facility operates one polystyrene foam block manufacturing system and two boilers. The polystyrene foam block manufacturing system consists of two pre-expanders, 18 pre-puff aging silos, two block molders, four cutters with conveyors, one cutter/shaper, two scrap grinders and one bulk material load/unloading station with thirteen recycling bags. The VOC emissions from the polystyrene foam block manufacturing system are being controlled by a regenerative thermal oxidizer (RTO).

3. Construction and Permitting History

The facility has been in constant operation at this location since 1982 and numerous permits to construct and or permits to operate have been issued to the facility. An initial Title V permit was issued to the facility on April 28, 2000; and a renewal Title V permit was issued on April 28, 2006. Since the issuance of the renewal Title V permit, four permit revisions were subsequently issued to the facility as indicated as follows:

- October 10, 2007 – Administrative Title V Permit Revision (Change of Ownership)
- November 7, 2008 – Minor Title V Permit Revision (Change of Conditions)
- February 3, 2009 - Administrative Title V Permit Revision (Change of company's responsible official and issue permit to operate for the equipment previously issued permit to construct)
- April 16, 2010 – Minor Title V Permit Revision (Change of Conditions)

4. Regulatory Applicability Determinations

Applicable legal requirements for which this facility is required to comply are required to be identified in the Title V permit (for example, Section D, E, and H of the proposed Title V permit). Applicability determinations (i.e., determinations made by the District with respect to what legal requirements apply to a specific piece of equipment, process, or operation) can be found in the Engineering Evaluations. This facility is not subject to any NESHAP requirements. However, the facility is subject to the requirements of 40CFR60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. These NSPS requirements are reflected in the Title V permit.

5. Monitoring and Operational Requirements

Applicable monitoring and operational requirements for which the facility is required to comply are identified in the Title V permit (for example, Section D, F, and J and Appendix B of the proposed Title V permit). Discussion of any applicable operational requirements can be found in the Engineering Evaluations. All periodic monitoring requirements were developed using strict adherence to the following applicable guidance documents: SCAQMD Periodic Monitoring Guidelines for Title V Facilities (November 1997); CAPCOA/CARB/EPA Region IX Periodic Monitoring Recommendations for Generally Applicable Requirements in SIP (June 1999); and CAPCOA/CARB/EPA Region IX Recommended Periodic Monitoring for Generally Applicable Grain Loading Standards in the SIP: Combustion Sources (July 2001).

The VOC emissions from the polystyrene foam block manufacturing system are being controlled by the RTO. The uncontrolled VOC emissions to the RTO are greater than the major source threshold for 10 tons per year. As a result, the RTO is subject to the Compliance Assurance Monitoring (CAM) requirements of 40 CFR Part 64. Permit conditions were added to satisfy the CAM requirements at the first Title V Permit Renewal on April 28, 2006. Such permit conditions were developed using the design criteria and other pertinent requirements identified in 40 CFR 64 - Compliance Assurance Monitoring and Technical Guidance Document and in the August 1998 Revised Draft CAM.

6. Permit Features

Permit Shield

A permit shield is an optional part of a Title V permit that gives the facility an explicit protection from requirements that do not apply to the facility. A permit shield is a provision in a permit that states compliance with the conditions of the permit shall be deemed compliance with all identified regulatory requirements. To incorporate a permit shield into the Title V permit involves submission of applications for change of conditions for each equipment affected by the permit shield. Permit shields are addressed in Rule 3004 (c). This facility has not applied for a permit shield.

Streamlining Requirements

Some emission units may be subject to multiple requirements which are closely related or redundant. The conditions may be streamlined to simplify the permit conditions and compliance. Emission limits, work practice standards, and monitoring, recordkeeping, and reporting requirements may be streamlined. Compliance with a streamlined condition will be deemed compliance with the underlying requirements whether or not the emission unit is actually in compliance with the specific underlying requirement. This facility has not applied for any streamlined conditions.

7. Summary of Emissions and Health Risks

**Criteria Pollutant Emissions (tons/year)
Annual Reported Emissions for Reporting Period 2010**

Pollutant	Emissions (tons/year)
NOx	0.645
CO	1.238
VOC	69.029
PM	0.126
SOx	0.010

**Toxic Air Contaminants Emissions (TAC)
Annual Reported Emissions for Reporting Period 2010**

The Following TACs Were Reported	Emissions (lbs/yr)
Acetaldehyde	0.111
Acrolein	0.09
Ammonia	601.2
Benzene	0.209
Ethyl Benzene	0.248
Formaldehyde	0.443
Hexane	0.165
Naphthalene	0.01
PAHs, total, with components not	0.003
Toluene	0.955
Xylenes	0.71

Health Risk from Toxic Air Contaminants

The facility is subject to review by the Air Toxics Information and Assessment Act (AB2588). The AQMD is tracking the status of the facility under AB2588.

8. Compliance History

As noted, the facility has been in constant operation since 1982. The facility has been subject to both self-reporting requirements and AQMD inspections. The facility has had no citizen complaints filed, no Notices to Comply issued, and no Notices of Violation issued in the last two calendar years.

9. Compliance Certification

By virtue of the Title V permit application and issuance of this permit, the reporting frequency for compliance certification for the facility shall be annual.