



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

June 27, 2012

Mr. Gerardo Rios  
Chief – Permits Office  
U. S. EPA, Region IX  
75 Hawthorne Street, Air 3  
San Francisco, CA 94105

Dear Mr. Rios:

Subject: Foam Fabricators (ID 012876) – Title V Permit Revision

Foam Fabricators (ID 012876) has proposed to revise their Title V permit by replacing the burner for an existing boiler per approved Rule 1146 Compliance Plan (Plan Application No. 517166). According to the approved Rule 1146 Compliance Plan, Foam Fabricators shall come into compliance with NO<sub>x</sub> emission limit of 9 ppm or less on or before January 1, 2013. Foam Fabricators is an expanded polystyrene (EPS) shape molder (NAICS 326140) located at 1810 South Santa Fe Avenue, Compton, CA 90221. This proposed permit revision is considered as a “minor permit revision” to their Title V permit. Attached for your review are the evaluation and permit for the proposed revision. With your expected receipt of the proposed Title V permit revision today, we will note that the EPA 45-day review period begins on June 27, 2012.

If you have any questions or need additional information regarding the proposed permit revision, please call Stephen Jiang of my staff at (909) 396-3134.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Brian L. Yeh', written over a horizontal line.

Brian L. Yeh  
Senior Manager  
Mechanical, Chemical & Public Services

BLY:AYL:SYJ  
Attachments



**ENGINEERING AND COMPLIANCE**

**APPLICATION PROCESSING AND CALCULATIONS**

APPL. NO. 536804 & 536808	DATE: June 26, 2012
PROCESSED BY S. JIANG	CHECKED BY D. GORDON

**EVALUATION REPORT FOR PERMIT TO CONSTRUCT**

**Applicant's Name:** FOAM FABRICATORS Facility ID: 012876

**Mailing Address:** 1810 SOUTH SANTA FE AVENUE  
COMPTON, CALIFORNIA 90221-5319

**Equipment Location:** SAME

**EQUIPMENT DESCRIPTION**

**Appl. No. 536804**

Modification to the existing boiler (P/O G14734 A/N: 502401), by:

The Removal of:

- 12.247 MMBtu Burner

And the Addition of:

- 12.553 MMBtu Ultra Low NOx Burner

BOILER, CLEAVER BROOKS, FIRE TUBE TYPE, MODEL NO. CB-17000-300-150, SERIAL NO. OL-097448, ~~12,247,000 BTU PER HOUR, NATURAL GAS FIRED,~~ WITH A ~~CLEAVER BROOKS, CB-17000-300-150~~ LOW NOX BURNER, ~~WEBSTER, MODEL NO. HDRMB 13G-300-LMV51-NFPA85, 12.553 MMBTU/HR, NATURAL GAS FIRED,~~ WITH AND A FLUE GAS RECIRCULATION SYSTEM.

**After these modifications, the permit will be read as follows:**

BOILER, CLEAVER BROOKS, FIRE TUBE TYPE, MODEL NO. CB-17000-300-150, SERIAL NO. OL-097448, WITH A LOW NOX BURNER, WEBSTER, MODEL NO. HDRMB 13G-300-LMV51-NFPA85, 12.553 MMBTU/HR, NATURAL GAS FIRED, AND A FLUE GAS RECIRCULATION SYSTEM.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]



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3. THIS EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1146.  
[RULE 1146]
4. THIS EQUIPMENT SHALL EMIT NO MORE THAN 9 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO<sub>2</sub>, AND NO MORE THAN 50 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O<sub>2</sub>.  
[Rule 1146; Rule 1303 (a)(1)-BACT]
5. THE TOTAL AMOUNT OF NATURAL GAS CONSUMED SHALL NOT EXCEED 4,800,240 STANDARD CUBIC FEET DURING EACH CALENDAR MONTH.  
[RULE 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL INSTALL AND MAINTAIN IN SERVICE A NON-RESETTABLE TOTALIZING FUEL METER FOR THE FUEL BEING SUPPLIED TO THIS EQUIPMENT.  
[RULE 1303(b)(2)-OFFSET; 40 CFR 60.48c(g)(2)]
7. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 5, ABOVE. THE RECORDS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
  - A. MONTHLY NATURAL GAS METER READING
  - B. MONTHLY NATURAL GAS CONSUMPTION IN STANDARD CUBIC FEET (SCF)
  - C. TIME AND DATE OF THE GAS METER READING
  - D. THE NAME OF THE PERSON RECORDING THE DATA

ALL RECORDS SHALL BE MAINTAINED FOR A PERIOD OF FIVE (5) YEARS AND MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.

[Rule 1303(b)(2)-OFFSET; Rule 3004(a)(4)-Periodic Monitoring]

8. THE OPERATOR SHALL RECORD AND MAINTAIN RECORDS OF THE AMOUNT OF NATURAL GAS CONSUMED DURING EACH CALENDAR MONTH. ALL RECORDS SHALL BE MAINTAINED FOR A PERIOD FOR TWO (2) YEARS AND MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[40 CFR 60.48c(g)(2)]

**Periodic Monitoring:**

9. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:

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- A. THE SOURCE TESTS SHALL BE CONDUCTED NO LATER THAN 180 DAYS AFTER THE INITIAL START-UP OF THIS EQUIPMENT UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT.
- B. THE SOURCE TESTS SHALL BE CONDUCTED ONCE EVERY THREE YEARS.
- C. THE SOURCE TESTS SHALL BE CONDUCTED TO VERIFY COMPLIANCE WITH THE NOX AND CO EMISSION LIMITS SPECIFIED IN CONDITION NO. 3, ABOVE.
- D. SOURCE TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH SCAQMD METHOD 100.1.
- E. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS OPERATING AT MAXIMUM, MINIMUM AND NORMAL FIRING RATES. THE SAMPLING TIMES SHALL BE AT LEAST 15 CONSECUTIVE MINUTES FOR MAXIMUM AND MINIMUM LOADS AND AT LEAST 30 CONSECUTIVE MINUTES FOR NORMAL OPERATING LOAD.
- F. TWO COMPLETE COPIES OF THE SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, ATTN: STEPHEN JIANG, P.O. BOX 4941, DIAMOND BAR, CA 91765) WITHIN 45 DAYS AFTER THE SOURCE TESTING DATE. THE SOURCE TEST REPORT SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, EMISSIONS RATE IN POUNDS PER HOUR AND CONCENTRATION IN PPMV AT THE OUTLET OF THE BOILER.
- G. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANTS TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
- H. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.

[RULE 1146; RULE 1303(a)(1)-BACT]

**Emissions And Requirements:**

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPM, RULE 407

CO: 400 PPM, RULE 1146

NOX: 9 PPM, RULE 1146

PM: 0.1 GR/SCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS.



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APPL. NO.

536804 & 536808

DATE:

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S. JIANG

CHECKED BY

D. GORDON

**Appl. No. 536808 – Minor Title V Facility Permit Revision**

Revision of Title V Facility Permit per Rule 301(m)(7).

**BACKGROUND/HISTORY**

Foam Fabricators manufactures expanded polystyrene (EPS) foam products at its facility in Compton, California. Foam Fabricators currently operates polystyrene foam expansion/molding systems and one boiler. The VOC emissions from the polystyrene foam expansion/molding systems are controlled by a regenerative thermal oxidizer.

Foam Fabricators facility type:

<u>RECLAIM</u>		<u>Title V</u>
SOx	NOx	
No	No	Yes

Foam Fabricators is a Title V facility. The existing Title V Permit for the facility will expire on August 24, 2016.

On May 15, 2012, Foam Fabricators submitted the following permit applications:

<u>Appl. No.</u>	<u>Type</u>	<u>Previous P/O</u>	<u>Equipment</u>	<u>Fee Sch.</u>	<u>Expedited?</u>
536804	Modification	G14734	12.553 MMBtu/hr Boiler	Sch. C	Yes
536808	Plan	N/A	N/A	Title V Rev.	N/A

**Appl. No. 536804** is submitted to replace the burner per approved Rule 1146 Compliance Plan for Foam Fabricators (see attached AQMD approval letter dated June 9, 2011, plan application no. 517166). According to the approved Rule 1146 Compliance Plan, Foam Fabricators shall come into compliance with NOx emission limit of 9 ppm or less on or before January 1, 2013. No emission increase is expected.

**Appl. No. 536808** is submitted as a plan application for the minor revision of the Title V permit as specified in Rule 301.

**PROCESS DESCRIPTION**

This boiler is used to generate steam/heat for the EPS shape molding process. The boiler currently is equipped with one Cleaver Brooks Low NOx burner and a flue gas recirculation system.

The Cleaver Brooks Fire Tube boiler will be retrofitted with new Webster HDRMB burner. The new Webster HDRMB burner utilizes the rapid mix burner technology to achieve Ultra Low NOx Emissions (sub 9 PPM). The manufacturer guarantees the following emissions while firing natural gas fuel:

- < 9 PPM NOx corrected to 3% O<sub>2</sub> across the entire firing range.
- < 50PPM CO across the entire firing range.



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**EMISSION CALCULATIONS**

PRE-MODIFICATION (EXISTING BOILER) EMISSIONS

Emission Factors

$$\text{Emission}_{\text{ROG,SOX,PM10}} \text{ (lb/MMBtu)} = EF_{\text{ROG,SOX,PM10}} \left( \frac{\text{lb}}{\text{MMscf}} \right) \times \frac{1\text{MMscf}}{1050\text{MMBtu}}$$

$$\text{Emission}_{\text{NOX,CO}} \text{ (lb/MMBtu)} = \frac{MW \times N_{@3\%O_2} \times \text{ppm}}{H}$$

Where: H= Heating value of fuel (Btu/lb) (for natural gas= 23,440 btu/lb)  
 N<sub>@3%O<sub>2</sub></sub>= 0.618 mole of dry gas per lb of natural gas.  
 MW= Molecular weight (lb/lb-mole)

Emission Factor Summary - Natural Gas

Pollutant	Emission Factor (from manufacturer) ppmV @ 3% O <sub>2</sub>	Emission Factor (AQMD Default) lb/mmscf	Emission Factor (for this report) lb/MMBtu
VOC	-	5.5	0.00524
SO <sub>x</sub>	-	0.6	0.000571
PM <sub>10</sub>	-	7.6	0.00724
NO <sub>x</sub>	30	-	0.0364
CO	400	-	0.2953

AQMD Default emission factors for a natural gas fired boiler were taken from "General Instruction Book for the AQMD 2006-2007 Annual Emission Reporting Program", Appendix A- Table 1):

Operating Schedule: 24 hrs/day; 7 days/week; 52 weeks/yr  
 Exist. Boiler Rating: 12.247 MMBtu/hr  
 Natural Gas Usage Limit: 160,008 scf/day

Emission Summary for the Pre-Modification Boiler

		Hourly (lb/hr)	Daily (lb/day)	Annually (lb/yr)	30 day ave. (lb/day)
R1=R2	VOC	0.0642	0.88	320.34	0.89
R1=R2	SO <sub>x</sub>	0.00700	0.10	34.95	0.10
R1=R2	PM <sub>10</sub>	0.0886	1.22	442.65	1.23
R1=R2	NO <sub>x</sub>	0.4456	6.11	2,225.06	6.18
R1=R2	CO	3.616	49.61	18,058.48	50.16



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**POST-MODIFICATION (NEW BURNER BOILER) EMISSIONS**

Emission Factor Summary - Natural Gas

Pollutant	Emission Factor (from manufacturer) ppmV @ 3% O2	Emission Factor (AQMD Default) lb/mmscf	Emission Factor (for this report) lb/MMBtu
VOC	-	5.5	0.00524
SOx	-	0.6	0.000571
PM10	-	7.6	0.00724
NOx	9	-	0.0109
CO	50	-	0.0369

Operating Schedule: 24 hrs/day; 7 days/week; 52 weeks/yr  
 New Burner Rating: 12.553 MMBtu/hr  
 Natural Gas Usage Limit: 4,800,240 scf/mo

Emission Summary for the Post-Modification Boiler

		Hourly (lb/hr)	Daily (lb/day)	Annually (lb/yr)	30 day ave. (lb/day)
R1=R2	VOC	0.0658	1.58	316.82	0.88
R1=R2	SOx	0.00717	0.17	34.56	0.10
R1=R2	PM10	0.0909	2.18	437.78	1.22
R1=R2	NOX	0.1370	3.29	660.18	1.83
R1=R2	CO	0.463	11.12	2,232.50	6.20

EMISSION CHANGE

VOC: 0.88 lb/day - 0.89 lb/day = -0.01 lb/day ..... **Reduction**  
 SOx: 0.10 lb/day - 0.10 lb/day = 0 lb/day ..... **No Change**  
 PM10: 1.22 lb/day - 1.23 lb/day = -0.01 lb/day ..... **Reduction**  
 NOx: 1.83 lb/day - 6.18 lb/day = -4.35 lb/day ..... **Reduction**  
 CO: 6.20 lb/day - 50.16 lb/day = -43.96 lb/day ..... **Reduction**

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EMISSION SUMMARY

		Hourly (lb/hr)	Daily (lb/day)	Annually (lb/yr)	30 day ave. (lb/day)	30 day NSR (lb/day)
R1=R2	VOC	0.0658	1.58	316.82	0.88	1
R1=R2	SO <sub>x</sub>	0.00717	0.17	34.56	0.10	0
R1=R2	PM10	0.0909	2.18	437.78	1.22	1
R1=R2	NO <sub>x</sub>	0.1370	3.29	660.18	1.83	2
R1=R2	CO	0.463	11.12	2,232.50	6.20	6

Hourly (lbs/hr) = (Emission Factor, lbs/MMBtu) (12.553 MMBtu/hr)

Daily (lbs/day) = (Hourly, lbs/hr) (24 hrs/day)

30 day-ave. = (Emission Factor, lbs/MMBtu) (1,050 MMBtu/MMscf) (Monthly Limit, MMscf/mo) / (30day/mo)

Annually (lbs/yr) = (30 day-ave) (30 day/mo) (12 mo/yr)

**RULE 407 CALCULATIONS:**

$$\text{SOX (ppm)} = \frac{R_1}{\frac{Q(\text{btu/hr})}{H(\text{btu/lb})} \times MW \times N_{@3\%O_2}}$$

Where : Q= maximum, rated input (Btu/hr)=10,206,000 Btu/hr  
H= Heating value of fuel (Btu/lb) (for natural gas= 23,440 btu/lb)  
N<sub>@3%O<sub>2</sub></sub>= 0.618 mole of dry gas per lb of fuel.

$$\text{SO}_x \text{ (ppm)} = \frac{0.00717 \text{ lb/hr}}{\frac{12,553,000 \text{ btu/hr}}{23,440 \text{ btu/lb}} \times 64 \frac{\text{lb}}{\text{mol}} \times 0.618 \frac{\text{mol}}{\text{lb}}} = 0.34 \text{ ppm}$$

**RULE 409 CALCULATIONS:**AQMD Default PM<sub>10</sub> emission factor = 7.6 lb/mmscf

PM<sub>10</sub> Concentration = (7.6 lb/mmscf) (7,000 grains/lb) / (1,000,000 scf/mmscf)  
= 0.0532 grains/ft<sup>3</sup>

**RULES AND REGULATIONS EVALUATION**

**40 CFR** Standards of Performance for Small Industrial-Commercial-Institutional Steam  
**Subpart Dc:** Generating Units

§ 60.40c Applicability and delegation of authority.

The subject boiler is rated at 12.553 MMBtu/hr (between 10 and 100 MMBtu/hr) and first applied for a permit on 3/24/1998 (after June 9, 1989); thus, this boiler is subject to this rule.

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§ 60.48c Reporting and recordkeeping requirements.

(g)(2) – The operator shall record and maintain records of the amount of fuel combusted during each calendar month. A permit condition is added to the permit, compliance is achieved.

(i) – All records required under this rule shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record. A permit condition is added to the permit, compliance is achieved.

**Rule 212:** **Standards for Approving Permits** – The facility is not located within 1,000 feet of a K-12 school (a map is attached). In addition, no emission increase is associated with the administrative change application. A Public Notice is not required.

**Rule 401:** **Visible Emissions** – Compliance is expected from well maintained and properly operated equipment.

**Rule 402:** **Public Nuisance** – With proper operation and maintenance, the equipment is not likely to create a public nuisance.

**Rule 1146:** **Emissions of NO<sub>x</sub> from Industrial, Institutional, and Commercial Boilers:**

The new boiler burner is rated at 12.553 MMBtu/hr; thus, it is a Group III unit.

(c)(1)(A) limits the NO<sub>x</sub> emissions from this boiler at 30 ppmv @ 3% O<sub>2</sub>. The manufacturer guarantees the unit will achieve 9 ppmv NO<sub>x</sub> @ 3% O<sub>2</sub>, which is lower than the 30 ppmv NO<sub>x</sub> requirements of the rule. Compliance is expected.

(c)(1)(I) limits the NO<sub>x</sub> emissions from this boiler at 9 ppmv @ 3% O<sub>2</sub> after January 1, 2013. The manufacturer guarantees the unit will achieve 9 ppmv NO<sub>x</sub> @ 3% O<sub>2</sub>. Compliance is expected.

(c)(4) limits the CO emissions from this boiler at 400 ppmv @ 3% O<sub>2</sub>. The manufacturer guarantees the unit will achieve 50 ppmv CO @ 3% O<sub>2</sub>. Compliance is expected.

(d)(6) requires this boiler to be tested for NO<sub>x</sub> emissions once every three years.

(d)(9) requires this boiler to be tested for CO emissions once every three years.

**A source test will be performed to verify compliance with this rule.**

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**Rule 1303: BACT**

Following are BACT guidelines for the boiler:

Subcategory/ Rating/Size	Criteria Pollutants				
	VOC	NO <sub>x</sub>	SO <sub>x</sub>	CO	PM <sub>10</sub>
Natural Gas or Propane Fired, < 20 MMBtu/HR		≤ 12 ppmv dry corrected to 3% O <sub>2</sub> (10-20-2000)	Natural Gas (10-20-2000)	≤ 50 ppmv for firetube type, ≤ 100 ppmv for watertube type, dry corrected to 3% O <sub>2</sub> (04-10-98)	Natural Gas (04-10-98)

NO<sub>x</sub> emissions - The manufacturer guarantees the unit will achieve 9 ppmv NO<sub>x</sub> @ 3% O<sub>2</sub>. Compliance with BACT is expected.

CO emissions - The boiler is a fire-tube type. The manufacturer guarantees the unit will achieve 50 ppmv CO @ 3% O<sub>2</sub>. Compliance with BACT is expected.

**A source test will be performed to verify compliance with this rule.**

**Rule 1303(b)(1): Modeling:** The NO<sub>x</sub>, CO and PM<sub>10</sub> emissions from this equipment are below the rule limits (specified in the table A1). Therefore, no further screening analysis is required.

	Actual emission for the boiler (lb/hr)	Allowable Emission (lb/hr)
NO <sub>x</sub>	0.137	0.86
CO	0.463	47.3
PM <sub>10</sub>	0.091	5.2

**Rule 1303(b)(2): Offsets:** Offsets are not required for this facility since the criteria contaminant emissions will not exceed the limits in table A (rule 1304(d))

	VOC (lb/day)	PM <sub>10</sub> (lb/day)	NO <sub>x</sub> (lb/day)	CO (lb/day)	SO <sub>x</sub> (lb/day)
Current NSR (PTE)	153	1	9	50	0
536804 - Boiler Burner Replacement	-0.01	-0.01	-4.35	-43.96	+0
<b>Total PTE</b>	<b>152.99</b>	<b>0.99</b>	<b>5.65</b>	<b>6.04</b>	<b>0</b>
Threshold limit	22	22	22	159	22
Offset required	0	0	0	0	0

**Reg XXX: Title V Permit**

Foam Fabricators (Facility ID: 12876) is a Title V facility. The current Title V Permit for the facility will expire on August 24, 2016.

Application no. 536804 is to replace the burner per approved Rule 1146 Compliance Plan for Foam Fabricators (see attached AQMD approval letter dated June 9, 2011, plan application no. 517166). According to the approved Rule 1146 Compliance Plan, Foam Fabricators shall come into compliance with NO<sub>x</sub> emission limit of 9 ppm or less on or

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before January 1, 2013. No emission increase is expected for this application. Therefore, application no. 536804 is considered Minor Permit Revisions of Title V Facility Permit and it is subject to a 45-day EPA review prior to final revision of the Title V Facility Permit (Application No. 536808).

**CONCLUSION AND RECOMMENDATIONS**

Based on this evaluation, it is expected that the subject equipment will be operated in compliance with all applicable District Rules and Regulations. The Permit to Construct is recommended to be issued.

## **FACILITY PERMIT TO OPERATE FOAM FABRICATORS**

### **Facility Equipment and Requirements (Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

Application number	Permit to Operate number	Equipment description
451739	F85984	SOFTENING AND PRE-EXPANSION SYSTEM
450294		AFTERBURNER
502401	G14734	BOILER (5-20 MMBTU/HR) NAT GAS ONLY
536808		BOILER (5-20 MMBTU/HR) NAT GAS ONLY
341768	F46858	POLYSTYRENE EXPANDING/MOLDING
341770	F46859	POLYSTYRENE EXPANDING/MOLDING
341772	F46860	POLYSTYRENE EXPANDING/MOLDING
341774	F46861	POLYSTYRENE EXPANDING/MOLDING
341776	F46862	POLYSTYRENE EXPANDING/MOLDING
341777	F46863	POLYSTYRENE EXPANDING/MOLDING
341779	F46864	POLYSTYRENE EXPANDING/MOLDING
341783	F46865	POLYSTYRENE EXPANDING/MOLDING
341784	F46866	POLYSTYRENE EXPANDING/MOLDING
341786	F46867	POLYSTYRENE EXPANDING/MOLDING
341787	F46868	POLYSTYRENE EXPANDING/MOLDING

**NOTE:** EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

## **FACILITY PERMIT TO OPERATE FOAM FABRICATORS**

### **FACILITY WIDE CONDITION(S)**

**Condition(s):**

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:

AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGLEMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR  
OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION.  
[RULE 401]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### PERMIT TO OPERATE

Permit No. G14734  
A/N 502401

#### Equipment Description:

BOILER, CLEAVER BROOKS, FIRE TUBE TYPE, MODEL NO. CB-17000-300-150, SERIAL NO. OL-097448, 12,247,000 BTU PER HOUR, NATURAL GAS FIRED, WITH A CLEAVER BROOKS, CB-17000-300-150 LOW NOX BURNER, WITH A FLUE GAS RECIRCULATION SYSTEM.

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1146.  
[RULE 1146]
4. THIS EQUIPMENT SHALL EMIT NO MORE THAN 30 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO<sub>2</sub>, AND NO MORE THAN 400 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O<sub>2</sub>.  
[RULE 1146]
5. EFFECTIVE JANUARY 1, 2013, THE NOX EMISSIONS DISCHARGED FROM THIS EQUIPMENT SHALL NOT EXCEED 9 PPM, CALCULATED AS NO<sub>2</sub>, BY VOLUME ON A DRY BASIS AT 3% O<sub>2</sub>.  
[RULE 1146]
6. THE TOTAL AMOUNT OF NATURAL GAS CONSUMED SHALL NOT EXCEED 160,008 STANDARD CUBIC FEET IN ANY ONE DAY.  
[RULE 1303 (a)(1)-BACT; RULE 1303(b)(2)-OFFSET]
7. THE OPERATOR SHALL INSTALL AND MAINTAIN IN SERVICE A NON-RESETTING TOTALIZING FUEL METER FOR THE FUEL BEING SUPPLIED TO THIS EQUIPMENT.  
[RULE 1303 (a)(1)-BACT; RULE 1303(b)(2)-OFFSET]
8. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 6, ABOVE. THE RECORDS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
  - A. DAILY NATURAL GAS METER READING
  - B. DAILY NATURAL GAS CONSUMPTION IN STANDARD CUBIC FEET (SCF)
  - C. TIME AND DATE OF THE GAS METER READING

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

D. THE NAME OF THE PERSON RECORDING THE DATA

ALL RECORDS SHALL BE MAINTAINED FOR A PERIOD OF FIVE (5) YEARS AND MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.

[RULE 1303 (a)(1)-BACT; RULE 1303(b)(2)-OFFSET; RULE 3004(a)(4)-PERIODIC MONITORING]

9. THE OPERATOR SHALL RECORD AND MAINTAIN RECORDS OF THE AMOUNT OF NATURAL GAS CONSUMED DURING EACH CALENDAR MONTH. ALL RECORDS SHALL BE MAINTAINED FOR A PERIOD FOR TWO (2) YEARS AND MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[40 CFR 60 Subpart Dc]

### **Emissions And Requirements:**

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- CO: 2000 PPM, RULE 407
  - CO: 400 PPM, RULE 1146
  - NOX: 30 PPM, RULE 1146
  - PM: 0.1 gr/scf, RULE 409
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS.

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### PERMIT TO OPERATE

Permit No. F85984  
A/N 451739

#### Equipment Description:

EXPANDABLE POLYSTYRENE (EPS) SOFTENING AND PRE-EXPANSION SYSTEM CONSISTING OF:

1. PRE-EXPANDER, NO. 1, TRI INDUSTRIES, MODEL NO. 11904, CONTINUOUS TYPE, 31" DIA. X 78" H., WITH A 7½ HP DRIVE MOTOR,
2. FLUIDIZED BED DRYER, TRI INDUSTRIES, STEAM HEATED, 32" W. X 96" L. X 53" H., WITH A 3 HP AIR BLOWER,
3. FEED HOPPER, 1500 POUNDS CAPACITY,
4. PNEUMATIC CONVEYOR,
5. PRE-EXPANDER, NO. 2, HIRSCH VACUTRANS, BATCH TYPE, 35" DIA. X 43" H., WITH A 20 HP VACUUM PUMP, AND A 20HP BLOWER,
6. TWENTY FOUR (24) BEAD STORAGE BAGS, EACH 8½' W. X 8½' L. X 15' H.

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1175; RULE 1303(a)(1)-BACT]
4. THE TOTAL MANUFACTURING EMISSIONS AND POST-MANUFACTURING EMISSIONS ASSUMING ALL BLOWING AGENT IS RELEASED FROM THE PRODUCT, SHALL NOT EXCEED 2.4 POUNDS PER 100 POUNDS OF RAW MATERIAL PROCESSED.  
[RULE 1175]
5. THE TOTAL QUANTITY OF RAW MATERIALS PROCESSED IN THIS SYSTEM SHALL NOT EXCEED 186,000 POUNDS PER CALENDAR MONTH.  
[RULE 1303(b)(2)-OFFSET]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

6. THE OPERATOR SHALL NOT PROCESS RAW EXPANDABLE POLYSTYRENE (EPS) BEADS WHICH CONTAIN MORE THAN 4.5 PERCENT PENTANE BY WEIGHT.  
[RULE 1303(b)(2)-OFFSET]

### Periodic Monitoring:

7. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITIONS NO. 4, 5 AND 6 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[RULE 1175(f)(2)]
8. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
  - B. TAKE CORRECTIVE ACTIONS(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT;  
OR
  - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

## **FACILITY PERMIT TO OPERATE FOAM FABRICATORS**

### **Emissions And Requirements:**

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1175

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### PERMIT TO OPERATE

Permit No. F46868  
A/N 341787

#### Equipment Description:

POLYSTYRENE EXPANDING AND MOLDING PRESS NO. 1 CONSISTING OF:

1. MOLDING PRESS, NO. 1, PLATEN TYPE, TEUBERT U2A, 2'-10 5/8" W. X 2'-2" H., STEAM HEATED, WITH AN AIR OVER OIL HYDRAULIC CYLINDER, MILWAUKEE, 90 PSIG COMPRESSED AIR
2. FEED HOPPER, EPS BEADS, 26.4 GALLON CAPACITY.

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1175; RULE 1303(a)(1)-BACT]
4. THE TOTAL MANUFACTURING EMISSIONS AND POST-MANUFACTURING EMISSIONS ASSUMING ALL BLOWING AGENT IS RELEASED FROM THE PRODUCT, SHALL NOT EXCEED 2.4 POUNDS PER 100 POUNDS OF RAW MATERIAL PROCESSED.  
[RULE 1175]

#### Periodic Monitoring:

5. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 4 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[RULE 1175(f)(2)]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS. AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
  - B. TAKE CORRECTIVE ACTIONS(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
  - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1175

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### PERMIT TO OPERATE

Permit No. F46867  
A/N 341786

#### Equipment Description:

POLYSTYRENE EXPANDING AND MOLDING PRESS NO. 2 CONSISTING OF:

1. MOLDING PRESS, PLATEN TYPE, TEUBERT U3, 3'-5 1/2" W. X 2'-10 1/2" H., STEAM HEATED, WITH AN AIR OVER OIL HYDRAULIC CYLINDER, MILWAUKEE, 90 PSIG COMPRESSED AIR
2. PRE-EXPANDED POLYSTYRENE BEADS FEED LOADER/ HOPPER, 200 LITER, CONNECTED TO PRE-EXPANDED BEAD FEED MANIFOLDS

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1175; RULE 1303(a)(1)-BACT]
4. THE TOTAL MANUFACTURING EMISSIONS AND POST-MANUFACTURING EMISSIONS ASSUMING ALL BLOWING AGENT IS RELEASED FROM THE PRODUCT, SHALL NOT EXCEED 2.4 POUNDS PER 100 POUNDS OF RAW MATERIAL PROCESSED.  
[RULE 1175]

#### Periodic Monitoring:

5. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 4 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[RULE 1175(f)(2)]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
  - B. TAKE CORRECTIVE ACTIONS(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
  - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1175

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### PERMIT TO OPERATE

Permit No. F46866  
A/N 341784

#### Equipment Description:

POLYSTYRENE EXPANDING AND MOLDING PRESS NO. 3 CONSISTING OF:

1. MOLDING PRESS, PLATEN TYPE, TEUBERT U3, 3'-5 1/2" W. X 2'-10 1/2" H., STEAM HEATED, WITH AN AIR OVER OIL HYDRAULIC CYLINDER, MILWAUKEE, 90 PSIG COMPRESSED AIR
2. PRE-EXPANDED POLYSTYRENE BEADS FEED LOADER/ HOPPER. 200 LITER, CONNECTED TO PRE-EXPANDED BEAD FEED MANIFOLDS

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1175; RULE 1303(a)(1)-BACT]
4. THE TOTAL MANUFACTURING EMISSIONS AND POST-MANUFACTURING EMISSIONS ASSUMING ALL BLOWING AGENT IS RELEASED FROM THE PRODUCT, SHALL NOT EXCEED 2.4 POUNDS PER 100 POUNDS OF RAW MATERIAL PROCESSED.  
[RULE 1175]

#### Periodic Monitoring:

5. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 4 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[RULE 1175(f)(2)]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
  - B. TAKE CORRECTIVE ACTIONS(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
  - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- VOC: RULE 1175  
PM: RULE 405. SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### PERMIT TO OPERATE

Permit No. F46865  
A/N 341783

#### Equipment Description:

POLYSTYRENE EXPANDING AND MOLDING PRESS NO. 4 CONSISTING OF:

1. MOLDING PRESS, PLATEN TYPE, TEUBERT U2A, 2'-10 5/8" W. X 2'-2" H., STEAM HEATED, WITH AN AIR OVER OIL HYDRAULIC CYLINDER, MILWAUKEE, 90 PSIG COMPRESSED AIR
2. PRE-EXPANDED POLYSTYRENE BEADS FEED LOADER/ HOPPER, 100 LITER, CONNECTED TO PRE-EXPANDED BEAD FEED MANIFOLDS

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1175; RULE 1303(a)(1)-BACT]
4. THE TOTAL MANUFACTURING EMISSIONS AND POST-MANUFACTURING EMISSIONS ASSUMING ALL BLOWING AGENT IS RELEASED FROM THE PRODUCT, SHALL NOT EXCEED 2.4 POUNDS PER 100 POUNDS OF RAW MATERIAL PROCESSED.  
[RULE 1175]

#### Periodic Monitoring:

5. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 4 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[RULE 1175(f)(2)]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
  - B. TAKE CORRECTIVE ACTIONS(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
  - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1175

PM: RULE 405. SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### PERMIT TO OPERATE

Permit No. F46864  
A/N 341779

#### Equipment Description:

POLYSTYRENE EXPANDING AND MOLDING PRESS NO. 5 CONSISTING OF:

1. MOLDING PRESS, PLATEN TYPE, TEUBERT U3, 3'-5 1/2" W. X 2'-10 1/2" H., STEAM HEATED, WITH AN AIR OVER OIL HYDRAULIC CYLINDER, MILWAUKEE, 90 PSIG COMPRESSED AIR
2. PRE-EXPANDED POLYSTYRENE BEADS FEED LOADER/ HOPPER, 200 LITER, CONNECTED TO PRE-EXPANDED BEAD FEED MANIFOLDS

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1175; RULE 1303(a)(1)-BACT]
4. THE TOTAL MANUFACTURING EMISSIONS AND POST-MANUFACTURING EMISSIONS ASSUMING ALL BLOWING AGENT IS RELEASED FROM THE PRODUCT, SHALL NOT EXCEED 2.4 POUNDS PER 100 POUNDS OF RAW MATERIAL PROCESSED.  
[RULE 1175]

#### Periodic Monitoring:

5. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 4 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[RULE 1175(f)(2)]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
  - B. TAKE CORRECTIVE ACTIONS(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
  - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- VOC: RULE 1175  
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### PERMIT TO OPERATE

Permit No. F46863  
A/N 341777

#### Equipment Description:

POLYSTYRENE EXPANDING AND MOLDING PRESS NO. 6 CONSISTING OF:

1. MOLDING PRESS, PLATEN TYPE, TEUBERT U3, 3'-5 1/2" W. X 2'-10 1/2" H., STEAM HEATED, WITH AN AIR OVER OIL HYDRAULIC CYLINDER, MILWAUKEE, 90 PSIG COMPRESSED AIR
2. PRE-EXPANDED POLYSTYRENE BEADS FEED LOADER/ HOPPER, 200 LITER, CONNECTED TO PRE-EXPANDED BEAD FEED MANIFOLDS

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1175; RULE 1303(a)(1)-BACT]
4. THE TOTAL MANUFACTURING EMISSIONS AND POST-MANUFACTURING EMISSIONS ASSUMING ALL BLOWING AGENT IS RELEASED FROM THE PRODUCT, SHALL NOT EXCEED 2.4 POUNDS PER 100 POUNDS OF RAW MATERIAL PROCESSED.  
[RULE 1175]

#### Periodic Monitoring:

5. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 4 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[RULE 1175(f)(2)]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
  - B. TAKE CORRECTIVE ACTIONS(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
  - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- VOC: RULE 1175  
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### PERMIT TO OPERATE

Permit No. F46862  
A/N 341776

#### Equipment Description:

POLYSTYRENE EXPANDING AND MOLDING PRESS NO. 7 CONSISTING OF:

- 1 MOLDING PRESS, PLATEN TYPE, GLENSTAR 1300, 4'-1 3/4" W. X 3'-2" H., STEAM HEATED, WITH A STRAIGHT OIL HYDRAULIC CYLINDER, 15 HP MOTOR
2. PRE-EXPANDED POLYSTYRENE BEADS FEED LOADER/ HOPPER, 200 LITER, CONNECTED TO PRE-EXPANDED BEAD FEED MANIFOLDS

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1175; RULE 1303(a)(1)-BACT]
4. THE TOTAL MANUFACTURING EMISSIONS AND POST-MANUFACTURING EMISSIONS ASSUMING ALL BLOWING AGENT IS RELEASED FROM THE PRODUCT, SHALL NOT EXCEED 2.4 POUNDS PER 100 POUNDS OF RAW MATERIAL PROCESSED.  
[RULE 1175]

#### Periodic Monitoring:

5. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 4 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[RULE 1175(f)(2)]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
  - B. TAKE CORRECTIVE ACTIONS(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
  - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1175  
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE FOAM FABRICATORS**

### **PERMIT TO OPERATE**

**Permit No. F46861  
A/N 341774**

#### **Equipment Description:**

POLYSTYRENE EXPANDING AND MOLDING PRESS NO. 8 CONSISTING OF:

1. MOLDING PRESS, PLATEN TYPE, TEUBERT U2AX2, 4'-8 7/8" W. X 2'-10 5/8" H., STEAM HEATED, WITH AN AIR OVER OIL HYDRAULIC CYLINDER, MILWAUKEE, 90 PSIG COMPRESSED AIR
2. PRE-EXPANDED POLYSTYRENE BEADS FEED LOADER/ HOPPER, 200 LITER, CONNECTED TO PRE-EXPANDED BEAD FEED MANIFOLDS

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1175; RULE 1303(a)(1)-BACT]
4. THE TOTAL MANUFACTURING EMISSIONS AND POST-MANUFACTURING EMISSIONS ASSUMING ALL BLOWING AGENT IS RELEASED FROM THE PRODUCT, SHALL NOT EXCEED 2.4 POUNDS PER 100 POUNDS OF RAW MATERIAL PROCESSED.  
[RULE 1175]

#### **Periodic Monitoring:**

5. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 4 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[RULE 1175(f)(2)]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
  - B. TAKE CORRECTIVE ACTIONS(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
  - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1175

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE FOAM FABRICATORS**

### **PERMIT TO OPERATE**

**Permit No. F46860  
A/N 341772**

#### **Equipment Description:**

**POLYSTYRENE EXPANDING AND MOLDING PRESS NO. 9 CONSISTING OF:**

1. **MOLDING PRESS, PLATEN TYPE, KOEHLER 606, 3'-3 7/8" W. X 4'-0" H., STEAM HEATED, WITH A STRAIGHT OIL HYDRAULIC CYLINDER, RELIANCE P256, 10 HP MOTOR**
2. **PRE-EXPANDED POLYSTYRENE BEADS FEED LOADER/ HOPPER, 200 LITER, CONNECTED TO PRE-EXPANDED BEAD FEED MANIFOLDS**

#### **Conditions:**

1. **OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]**
2. **THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]**
3. **THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1175; RULE 1303(a)(1)-BACT]**
4. **THE TOTAL MANUFACTURING EMISSIONS AND POST-MANUFACTURING EMISSIONS ASSUMING ALL BLOWING AGENT IS RELEASED FROM THE PRODUCT, SHALL NOT EXCEED 2.4 POUNDS PER 100 POUNDS OF RAW MATERIAL PROCESSED.  
[RULE 1175]**

#### **Periodic Monitoring:**

5. **THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 4 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[RULE 1175(f)(2)]**

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
  - B. TAKE CORRECTIVE ACTIONS(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
  - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- VOC: RULE 1175  
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### PERMIT TO OPERATE

Permit No. F46859  
A/N 341770

#### Equipment Description:

POLYSTYRENE EXPANDING AND MOLDING PRESS NO. 10 CONSISTING OF:

1. MOLDING PRESS, PLATEN TYPE, KOEHLER 606, 3'-3 7/8" W. X 4'-0" H., STEAM HEATED, WITH A STRAIGHT OIL HYDRAULIC CYLINDER, RELIANCE P256, 10 HP MOTOR
2. PRE-EXPANDED POLYSTYRENE BEADS FEED LOADER/ HOPPER, 200 LITER, CONNECTED TO PRE-EXPANDED BEAD FEED MANIFOLDS

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1175; RULE 1303(a)(1)-BACT]
4. THE TOTAL MANUFACTURING EMISSIONS AND POST-MANUFACTURING EMISSIONS ASSUMING ALL BLOWING AGENT IS RELEASED FROM THE PRODUCT, SHALL NOT EXCEED 2.4 POUNDS PER 100 POUNDS OF RAW MATERIAL PROCESSED.  
[RULE 1175]

#### Periodic Monitoring:

5. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 4 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[RULE 1175(f)(2)]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
  - B. TAKE CORRECTIVE ACTIONS(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
  - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1175

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE FOAM FABRICATORS**

### **PERMIT TO OPERATE**

**Permit No. F46858  
A/N 341768**

#### **Equipment Description:**

POLYSTYRENE EXPANDING AND MOLDING PRESS NO. 11 CONSISTING OF:

1. MOLDING PRESS, PLATEN TYPE, MFI 104, 3'-9" W. X 3'-9" H., STEAM HEATED, WITH A STRAIGHT OIL HYDRAULIC CYLINDER, CM233, 15 HP MOTOR
2. PRE-EXPANDED POLYSTYRENE BEADS FEED LOADER/ HOPPER, 100 LITER, CONNECTED TO PRE-EXPANDED BEAD FEED MANIFOLDS

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.  
[RULE 1175; RULE 1303(a)(1)-BACT]
4. THE TOTAL MANUFACTURING EMISSIONS AND POST-MANUFACTURING EMISSIONS ASSUMING ALL BLOWING AGENT IS RELEASED FROM THE PRODUCT, SHALL NOT EXCEED 2.4 POUNDS PER 100 POUNDS OF RAW MATERIAL PROCESSED.  
[RULE 1175]

#### **Periodic Monitoring:**

5. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 4 ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.  
[RULE 1175(f)(2)]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
  - B. TAKE CORRECTIVE ACTIONS(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
  - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1175

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### PERMIT TO CONSTRUCT

A/N 450294  
Granted as of 11/30/06

#### Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. MOISTURE TRAP, WATER COOLED,
2. PREFILTER,
3. AFTERBURNER, SHIP & SHORE, REGENERATIVE TYPE, MODEL SSE-05K-95X-RTO, 990,000 BTU PER HR., NATURAL GAS FIRED,
4. EXHAUST SYSTEM WITH A 25 HP BLOWER VENTING TWO PRE-EXPANDERS, TWENTY FOR STORAGE BAGS, AND ELEVEN MOLDING PRESSES.

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THE OPERATOR SHALL MAINTAIN A TEMPERATURE OF NOT LESS THAN 1,500 DEGREES FAHRENHEIT IN COMBUSTION CHAMBER OF THE AFTERBURNER WHEN VENTING THE EQUIPMENT WHICH IT SERVES.  
[RULE 1175; RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1147.  
[RULE 1147]
5. THE TOTAL MANUFACTURING EMISSIONS AND POST-MANUFACTURING EMISSIONS ASSUMING ALL BLOWING AGENT IS RELEASED FROM THE PRODUCT, SHALL NOT EXCEED 2.4 POUNDS PER 100 POUNDS OF RAW MATERIAL PROCESSED.  
[RULE 1175]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

6. THE OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS AS FOLLOWS:
- A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 180 DAYS AFTER THE DATE THIS PERMIT IS ISSUED.
  - B. THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH RULE 1175(c)(2), AS SPECIFIED IN RULE 1175(g).
  - C. THE SOURCE TESTS SHALL BE CONDUCTED WHILE THE EQUIPMENT VENTED TO THE AFTERBURNER IS OPERATING AT MAXIMUM CAPACITY, AND PROCESSING RAW (EPS) BEADS WHICH HAVE THE MAXIMUM PENTANE CONTENT OF ALL EPS BEADS PROCESSED AT THE FACILITY.
  - D. THE BLOWING AGENT CONCENTRATION SHALL BE DETERMINED FROM SAMPLES TAKEN FROM THE CENTERS OF THE THICKEST, AND THINNEST CROSS SECTIONS OF A SMALL, MEDIUM, AND LARGE, SHAPE, WITHIN 15 MINUTES AFTER THE SHAPE WAS MOLDED.
  - E. A WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT [ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, PO BOX 4941, DIAMOND BAR, CA 91765] AT LEAST 14 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.
- [RULE 1175; RULE 1303(a)(1)-BACT]
7. THE OPERATOR SHALL SUBMIT TWO COMPLETE COPIES OF THE SOURCE TEST REPORT TO THE DISTRICT [ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765] WITHIN 45 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO VOC EMISSIONS IN POUNDS PER HOUR AT THE INLET AND OUTLET OF THE AFTERBURNER. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED:
- A. THE INLET FLOW RATE OF THE AFTERBURNER, IN ACTUAL CUBIC FEET PER MINUTE [ACFM].
  - B. THE VOC EMISSIONS AT THE INLET OF THE AFTERBURNER, IN POUNDS PER HOUR.
  - C. THE CONCENTRATION OF PENTANE IN THE RAW EPS BEADS.
  - D. THE CONCENTRATION OF PENTANE IN THE FINAL PRODUCT.
  - E. THE FREQUENCY OF THE AFTERBURNER FLOW REVERSALS DURING THE SOURCE TEST.
  - F. THE TEMPERATURE IN COMBUSTION CHAMBER OF THE AFTERBURNER, IN DEGREES F.
  - G. THE VOC EMISSIONS AT THE OUTLET OF THE AFTERBURNER, IN POUNDS PER HOUR.
  - H. THE PROCESSING RATE OF EPS PROCESSED BY THE PRE-EXPANDER.
  - I. THE PROCESSING RATE OF EPS MOLDED INTO FINAL PRODUCTS.
  - J. THE TOTAL QUANTITY OF EPS IN THE BEAD STORAGE BAGS.
  - K. THE TEST SHALL BE CONDUCTED BY A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 [NO CONFLICT OF INTEREST]

- L. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.

[RULE 1175; RULE 1303(a)(1)-BACT]

8. THE OPERATOR SHALL SUBMIT A SOURCE TEST PROTOCOL TO THE DISTRICT [ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765] FOR THE SOURCE TEST REQUIRED BY CONDITION NO. 5 ABOVE, WITHIN 90 DAYS AFTER THE DATE THIS PERMIT IS ISSUED.

[RULE 1175; RULE 1303(a)(1)-BACT]

### Periodic Monitoring:

9. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT ACCORDING TO THE FOLLOWING REQUIREMENTS:

THE COMBUSTION CHAMBER TEMPERATURE SHALL BE MAINTAINED AT A MINIMUM OF 1,500 DEGREES FAHRENHEIT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.

THE OPERATOR SHALL OPERATE AND MAINTAIN A TEMPERATURE MEASURING AND RECORDING SYSTEM TO CONTINUOUSLY MEASURE AND RECORD THE COMBUSTION CHAMBER TEMPERATURE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN 1% OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN A COMBUSTION CHAMBER TEMPERATURE OF LESS THAN 1,500 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION OF THE EQUIPMENT IT SERVES. THE OPERATOR SHALL REVIEW THE RECORDS OF THE COMBUSTION CHAMBER TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

WHENEVER A DEVIATION OCCURS, THE OPERATOR SHALL INSPECT THIS EQUIPMENT TO IDENTIFY THE CAUSE OF SUCH A DEVIATION, TAKE IMMEDIATE CORRECTIVE ACTION TO MAINTAIN THE COMBUSTION CHAMBER TEMPERATURE AT OR ABOVE 1,500 DEGREES FAHRENHEIT, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT. THE SEMI-ANNUAL MONITORING REPORT SHALL INCLUDE THE TOTAL OPERATING TIME OF THIS EQUIPMENT AND THE TOTAL ACCUMULATED DURATION OF ALL DEVIATIONS FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT.

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL INSPECT AND MAINTAIN ALL COMPONENTS OF THIS EQUIPMENT ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.

[RULE 1175; RULE 1303(a)(1)-BACT; RULE 3004(a)(4)-Periodic Monitoring; 40CFR Part 64]

### **Emissions And Requirements:**

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPMV, RULE 407  
PM: 0.1 gr/scf, RULE 409  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
NOX: RULE 1147  
VOC: RULE 1175

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### PERMIT TO CONSTRUCT

A/N 536804  
Granted as of XX/XX

#### Equipment Description:

BOILER, CLEAVER BROOKS, FIRE TUBE TYPE, MODEL NO. CB-17000-300-150, SERIAL NO. OL-097448, WITH A LOW NOX BURNER, WEBSTER, MODEL NO. HDRMB 13G-300-LMV51-NFPA85, 12.553 MMBTU/HR, NATURAL GAS FIRED, AND A FLUE GAS RECIRCULATION SYSTEM.

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1146.  
[RULE 1146]
4. THIS EQUIPMENT SHALL EMIT NO MORE THAN 9 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO<sub>2</sub>, AND NO MORE THAN 50 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O<sub>2</sub>.  
[Rule 1146; RULE 1303 (a)(1)-BACT]
5. THE TOTAL AMOUNT OF NATURAL GAS CONSUMED SHALL NOT EXCEED 4,800,240 STANDARD CUBIC FEET DURING EACH CALENDAR MONTH.  
[RULE 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL INSTALL AND MAINTAIN IN SERVICE A NON-RESETTABLE TOTALIZING FUEL METER FOR THE FUEL BEING SUPPLIED TO THIS EQUIPMENT.  
[RULE 1303(b)(2)-OFFSET; 40 CFR 60.48c(g)(2)]
7. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 5, ABOVE. THE RECORDS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
  - A. MONTHLY NATURAL GAS METER READING
  - B. MONTHLY NATURAL GAS CONSUMPTION IN STANDARD CUBIC FEET (SCF)
  - C. TIME AND DATE OF THE GAS METER READING
  - D. THE NAME OF THE PERSON RECORDING THE DATA

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

ALL RECORDS SHALL BE MAINTAINED FOR A PERIOD OF FIVE (5) YEARS AND MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.

[RULE 1303(b)(2)-OFFSET; RULE 3004(a)(4)-Periodic Monitoring]

8. THE OPERATOR SHALL RECORD AND MAINTAIN RECORDS OF THE AMOUNT OF NATURAL GAS CONSUMED DURING EACH CALENDAR MONTH. ALL RECORDS SHALL BE MAINTAINED FOR A PERIOD FOR TWO (2) YEARS AND MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.

[40 CFR 60.48c(g)(2)]

### **Periodic Monitoring:**

9. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
- A. THE SOURCE TESTS SHALL BE CONDUCTED NO LATER THAN 180 DAYS AFTER THE INITIAL START-UP OF THIS EQUIPMENT UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT.
  - B. THE SOURCE TESTS SHALL BE CONDUCTED ONCE EVERY THREE YEARS.
  - C. THE SOURCE TESTS SHALL BE CONDUCTED TO VERIFY COMPLIANCE WITH THE NOX AND CO EMISSION LIMITS SPECIFIED IN CONDITION NO. 3, ABOVE.
  - D. SOURCE TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH SCAQMD METHOD 100.1.
  - E. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS OPERATING AT MAXIMUM, MINIMUM AND NORMAL FIRING RATES. THE SAMPLING TIMES SHALL BE AT LEAST 15 CONSECUTIVE MINUTES FOR MAXIMUM AND MINIMUM LOADS AND AT LEAST 30 CONSECUTIVE MINUTES FOR NORMAL OPERATING LOAD.
  - F. TWO COMPLETE COPIES OF THE SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, ATTN: STEPHEN JIANG, P.O. BOX 4941, DIAMOND BAR, CA 91765) WITHIN 45 DAYS AFTER THE SOURCE TESTING DATE. THE SOURCE TEST REPORT SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, EMISSIONS RATE IN POUNDS PER HOUR AND CONCENTRATION IN PPMV AT THE OUTLET OF THE BOILER.
  - G. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANTS TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
  - H. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.

[RULE 1146; RULE 1303(a)(1)-BACT]

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### Emissions And Requirements:

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPM, RULE 407

CO: 400 PPM, RULE 1146

NOX: 9 PPM, RULE 1146

PM: 0.1 GR/SCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS.

## FACILITY PERMIT TO OPERATE FOAM FABRICATORS

### RULE 219 EQUIPMENT

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

**Periodic Monitoring:**

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

[RULE 3004 (a) (4)]

**Emissions And Requirements:**

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE FOAM FABRICATORS**

### **RULE 219 EQUIPMENT**

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

**Emissions And Requirements:**

- I. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS