INNOVATIONS FOR LIVING™

OWENS CORNING
INSULATING SYSTEMS, LLC
Santa Clara Facility
960 Central Expressway
Santa Clara, California 95050

1.800.GET.PINK™
www.owenscorning.com

RECEIVED

2016 JUN 14 AM 8:27

BAY AREA AIR QUALITY
MANAGEMENT DISTRICT

May 20, 2016

Director of Compliance and Enforcement
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109

Reference: **Owens Corning Insulating Systems, LLC – Santa Clara Facility**
Facility #A0041
Title V Semiannual Report
Period from November 1, 2015 through April 30, 2016

Dear Sir or Madam:

The Owens Corning Insulating Systems, LLC – Santa Clara facility is submitting this semi-annual monitoring report, as required by our Title V Permit issued by the Bay Area Air Quality Management District. The reporting period addressed in this report is November 1, 2015 through April 30, 2016. For monitoring and/or record keeping deviations discovered during report preparation, a written report will be submitted under separate cover.

Based on the information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate and complete. Should you have any questions regarding this data, please contact Julie Makutonin at (408) 235-1284.

Sincerely,

J.D. Gerodimos

James Gerodimos
Plant Leader

Attachment

cc: Director of the Air Division
U.S. EPA-Region IX
75 Hawthorne Street
San Francisco, CA 94105

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-1: "M" Electric Furnace, Channel and Forehearth

S-19: "O" Electric Furnace, Channel and Forehearth

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-A)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Open Configuration Furnace Operation	BAAQMD Condition 16834, Part 11	Hours of Operation < 480 hrs/yr for both furnaces	BAAQMD Condition 16834, Part 12	Periodic (Daily)	Recordkeeping: Hours	Yes	No
Glass Production	BAAQMD Condition 16834, Part 13	6 tons/hour 144 tons/day	BAAQMD Condition 16834, Part 14	Periodic (Daily)	Recordkeeping: Glass Pull	Yes	No
Opacity	BAAQMD Regulation 6-1-301	Ringelmann 1.0 For less than 3 minutes in an hour	BAAQMD Condition 16834, Part 15	Periodic (Daily)	Visual Observation and Recordkeeping	Yes	No
PM_{10}	BAAQMD Regulations 6-1-310 and 6-4-311	0.5 lbs/ton glass pulled	BAAQMD Condition 16834, Part 16	Periodic (Once Every Five Years)	Source Test	Yes	No
SO_2	BAAQMD Regulation 9-1-302	300 ppm (dry)	BAAQMD Condition 16834, Part 17	Periodic (Once Every Five Years)	Source Test	Yes	No
Lead	BAAQMD Regulation 11-1-301	15 lb/day	BAAQMD Condition 16834, Part 18	Periodic (Once per Permit Term)	Source Test	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-1: "M" Electric Furnace, Channel and Forehearth

S-19: "O" Electric Furnace, Channel and Forehearth

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-A)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Batch Wetting Water Flow Rate	BAAQMD Condition 16834, Part 19	Water flow rate ≥ 0.3 GPM	BAAQMD Condition 16834, Part 19	Periodic (Daily)	Recordkeeping: Water Flow Rate	Yes	No
Batch Wetting Process: Water Flow Rate Limit	BAAQMD Condition 16834, Part 11	Water flow rate ≥ 0.3 GPM	40 CFR 63.1383 (e)(1) BAAQMD Condition 16834, Part 11	Periodic (Daily)	Recordkeeping: Water Flow Rate	Yes	No
Temperature above Molten Glass Surface	BAAQMD Condition 16834, Part 23	Temperature measured at a location 46 to 61 centimeters (18 to 24 inches) above the molten glass surface ≤ 120 °C (250 °F)	BAAQMD Condition 16834, Part 23	Periodic (Daily: Once per Shift)	Recordkeeping: Temperature	Yes	No
As, Cr_6 and Pb	BAAQMD Condition 16834, Part 26	N/A	BAAQMD Condition 16834, Part 26	Periodic (Initial and Annual)	Source Test	Yes	No

Comments:

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016
Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-2: "M" Forming

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-B)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Glass Production	BAAQMD Condition 24873, Part 1	6 tons/hour 144 tons/day	BAAQMD Condition 24873, Part 2	Periodic (Daily)	Recordkeeping: Glass Pull	Yes	No
Opacity	BAAQMD Regulation 6-1-301	Ringelmann 1.0 For less than 3 minutes in an hour	BAAQMD Condition 24873, Part 15	Periodic (Daily)	Visual Observation and Recordkeeping	Yes	No
PM_{10}	BAAQMD Condition 24873, Part 17	515.59 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
PM_{10}	BAAQMD Condition 24873, Part 18	84.89 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
POC	BAAQMD Condition 24873, Part 19	94.40 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
POC	BAAQMD Condition 24873, Part 20	13.22 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016
Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-2: "M" Forming

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-B)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
CO	BAAQMD Condition 24873, Part 21	95.42 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
CO	BAAQMD Condition 24873, Part 22	15.71 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
NOx	BAAQMD Condition 24873, Part 23	30.45 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
NOx	BAAQMD Condition 24873, Part 24	3.76 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
SO_2	BAAQMD Condition 24873, Part 25	37.17 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
SO_2	BAAQMD Condition 24873, Part 26	4.59 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-2: "M" Forming

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-B)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
NOx, CO, POC, PM_{10} (Filterable and Condensable), SO_2, Phenol, Formaldehyde, Methanol, Ammonia, Acetaldehyde	BAAQMD Condition 16834, Part 78	N/A	BAAQMD Condition 16834, Part 78	Periodic (Annual)	Source Test	Yes	No

Comments:

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-20: "O" Forming

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-B)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Glass Production	BAAQMD Condition 24873, Part 1	6 tons/hour 144 tons/day	BAAQMD Condition 24873, Part 2	Periodic (Daily)	Recordkeeping: Glass Pull	Yes	No
Opacity	BAAQMD Regulation 6-1-301	Ringelmann 1.0 For less than 3 minutes in an hour	BAAQMD Condition 24873, Part 15	Periodic (Daily)	Visual Observation and Recordkeeping	Yes	No
PM_{10}	BAAQMD Condition 24873, Part 47	464.84 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
PM_{10}	BAAQMD Condition 24873, Part 48	82.25 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
POC	BAAQMD Condition 24873, Part 49	138.08 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
POC	BAAQMD Condition 24873, Part 50	24.43 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-20: "O" Forming

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-B)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
CO	BAAQMD Condition 24873, Part 51	211.51 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
CO	BAAQMD Condition 24873, Part 52	37.44 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
NOx	BAAQMD Condition 24873, Part 53	21.22 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
NOx	BAAQMD Condition 24873, Part 54	3.28 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
SO_2	BAAQMD Condition 24873, Part 55	38.51 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
SO_2	BAAQMD Condition 24873, Part 56	5.95 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-20: "O" Forming

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-B)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
NOx, CO, POC, PM_{10} (Filterable and Condensable), SO_2, Phenol, Formaldehyde, Methanol, Ammonia, Acetaldehyde	BAAQMD Condition 16834, Part 78	N/A	BAAQMD Condition 16834, Part 78	Periodic (Annual)	Source Test	Yes	No
PM_{10}	BAAQMD Condition 16834, Part 84	665.81 lb/day S-20, S-21 and S-22 combined	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)		Yes	No
PM_{10}	BAAQMD Condition 16834, Part 84	117.81 tpy S-20, S-21 and S-22 combined	BAAQMD Condition 24873, Part 78	Periodic (Annually)		Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016
Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-3: "M" Curing Oven

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Glass Production	BAAQMD Condition 24873, Part 1	6 tons/hour 144 tons/day	BAAQMD Condition 24873, Part 2	Periodic (Daily)	Recordkeeping: Glass Pull	Yes	No
Opacity	BAAQMD Regulation 6-1-301	Ringelmann 1.0 For less than 3 minutes in an hour	BAAQMD Condition 24873, Part 15	Periodic (Daily)	Visual Observation and Recordkeeping	Yes	No
Incinerator Firebox Temperature	BAAQMD Condition 24873, Part 9	Average firebox temperature at A-5 and A-6 for any 3-hour block period ≥ 1340 °F	BAAQMD Condition 24873, Parts 9-12	Continuous	Recordkeeping (Firebox Operating Temperature)	Yes	No
Incinerator Firebox	BAAQMD Condition 24873, Part 5	Proper Incinerator Maintenance for A-5 and A-6	BAAQMD Condition 24873, Part 5	Periodic (Annual)	Inspection: Incinerator	Yes	No
PM_{10}	BAAQMD Condition 24873, Part 27	22.48 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-3: "M" Curing Oven

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
PM_{10}	BAAQMD Condition 24873, Part 28	3.70 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
POC	BAAQMD Condition 24873, Part 29	5.33 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
POC	BAAQMD Condition 24873, Part 30	0.75 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
CO	BAAQMD Condition 24873, Part 31	345.02 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
CO	BAAQMD Condition 24873, Part 32	56.81 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
NOx	BAAQMD Condition 24873, Part 33	248.44 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-3: "M" Curing Oven

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
NOx	BAAQMD Condition 24873, Part 34	30.68 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
SO_2	BAAQMD Condition 24873, Part 35	5.61 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
SO_2	BAAQMD Condition 24873, Part 36	0.69 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
NOx, CO, POC, PM_{10} (Filterable and Condensable), SO_2, Phenol, Formaldehyde, Methanol, Ammonia, Acetaldehyde	BAAQMD Condition 16834, Part 78	N/A	BAAQMD Condition 16834, Part 78	Periodic (Annual)	Source Test	Yes	No

Comments:

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-21: "O" Curing Oven

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Glass Production	BAAQMD Condition 24873, Part 1	6 tons/hour 144 tons/day	BAAQMD Condition 24873, Part 2	Periodic (Daily)	Recordkeeping: Glass Pull	Yes	No
Opacity	BAAQMD Regulation 6-1-301	Ringelmann 1.0 For less than 3 minutes in an hour	BAAQMD Condition 24873, Part 15	Periodic (Daily)	Visual Observation and Recordkeeping	Yes	No
Filterable Particulate	BAAQMD Condition 24873, Part 6	Pressure drop range across A-99 1" wc to 20" wc	BAAQMD Condition 24873, Part 6	Periodic (Once per Shift)	Recordkeeping	Yes	No
Filterable Particulate	BAAQMD Condition 24873, Part 6	Pressure drop range across A-100 5" wc to 40" wc	BAAQMD Condition 24873, Part 6	Periodic (Once per Shift)	Recordkeeping	Yes	No
Incinerator Firebox Temperature	BAAQMD Condition 24873, Part 9	Average firebox temperature at A-25 for any 3-hour block period ≥ 1340 °F	BAAQMD Condition 24873, Parts 9-12	Continuous	Recordkeeping (Firebox Operating Temperature)	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-21: "O" Curing Oven

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Incinerator Firebox	BAAQMD Condition 24873, Part 8	Proper Incinerator Maintenance for A-25	BAAQMD Condition 24873, Part 8	Periodic (Annual)	Inspection: Incinerator	Yes	No
Scrubber and HPAF	BAAQMD Condition 24873, Part 8	Proper Maintenance for A-99 and A-100	BAAQMD Condition 24873, Part 8	Periodic (Monthly)	Inspection: Scrubber and HPAF	Yes	No
PM_{10}	BAAQMD Condition 24873, Part 57	160.11 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
PM_{10}	BAAQMD Condition 24873, Part 58	28.33 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
POC	BAAQMD Condition 24873, Part 59	2.28 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
POC	BAAQMD Condition 24873, Part 60	0.40 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-21: "O" Curing Oven

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
CO	BAAQMD Condition 24873, Part 61	451.58 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
CO	BAAQMD Condition 24873, Part 62	79.91 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
NOx	BAAQMD Condition 24873, Part 63	277.64 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
NOx	BAAQMD Condition 24873, Part 64	42.93 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
SO_2	BAAQMD Condition 24873, Part 65	5.81 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
SO_2	BAAQMD Condition 24873, Part 66	0.90 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-21: "O" Curing Oven

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
NOX, CO, POC, PM_{10} (Filterable and Condensable), SO_2, Phenol, Formaldehyde, Methanol, Ammonia, Acetaldehyde	BAAQMD Condition 16834, Part 78	N/A	BAAQMD Condition 16834, Part 78	Periodic (Annual)	Source Test	Yes	No
PM_{10}	BAAQMD Condition 16834, Part 84	665.81 lb/day S-20, S-21 and S-22 combined	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)		Yes	No
PM_{10}	BAAQMD Condition 16834, Part 84	117.81 tpy S-20, S-21 and S-22 combined	BAAQMD Condition 24873, Part 78	Periodic (Annually)		Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-4: "M" Cooling

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Glass Production	BAAQMD Condition 24873, Part 1	6 tons/hour 144 tons/day	BAAQMD Condition 24873, Part 2	Periodic (Daily)	Recordkeeping: Glass Pull	Yes	No
Opacity	BAAQMD Regulation 6-1-301	Ringelmann 1.0 For less than 3 minutes in an hour	BAAQMD Condition 24873, Part 15	Periodic (Daily)	Visual Observation and Recordkeeping	Yes	No
Filterable Particulate	BAAQMD Condition 24873, Part 3	Pressure drop range across A-101 1" wc to 20" wc	BAAQMD Condition 24873, Part 3	Periodic (Once per Shift)	Recordkeeping	Yes	No
Filterable Particulate	BAAQMD Condition 24873, Part 3	Pressure drop range across A-102 5" wc to 40" wc	BAAQMD Condition 24873, Part 3	Periodic (Once per Shift)	Recordkeeping	Yes	No
Filterable Particulate	BAAQMD Condition 24873, Part 4	Pressure drop range across A-7 0.1" wc to 3" wc	BAAQMD Condition 24873, Part 6	Periodic (Once per Day)	Recordkeeping	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-4: "M" Cooling

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Scrubber and HPAF	BAAQMD Condition 24873, Part 4	Proper Maintenance for A-101 and A-102	BAAQMD Condition 24873, Part 4	Periodic (Monthly)	Inspection: Scrubber and HPAF	Yes	No
HPAF	BAAQMD Condition 24873, Part 5	Proper Maintenance for A-7	BAAQMD Condition 24873, Part 8	Periodic (Monthly)	Inspection: HPAF	Yes	No
PM_{10}	BAAQMD Condition 24873, Part 37	77.43 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
PM_{10}	BAAQMD Condition 24873, Part 38	12.75 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
POC	BAAQMD Condition 24873, Part 39	18.36 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
POC	BAAQMD Condition 24873, Part 40	2.55 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-4: "M" Cooling

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
CO	BAAQMD Condition 24873, Part 41	9.18 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
CO	BAAQMD Condition 24873, Part 42	1.51 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
NOx	BAAQMD Condition 24873, Part 43	4.42 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
NOx	BAAQMD Condition 24873, Part 44	0.55 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
SO_2	BAAQMD Condition 24873, Part 45	6.20 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
SO_2	BAAQMD Condition 24873, Part 46	0.77 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-4: "M" Cooling

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
NOx, CO, POC, PM_{10} (Filterable and Condensable), SO_2, Phenol, Formaldehyde, Methanol, Ammonia, Acetaldehyde	BAAQMD Condition 16834, Part 78	N/A	BAAQMD Condition 16834, Part 78	Periodic (Annual)	Source Test	Yes	No

Comments:

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-22: "O" Cooling

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Glass Production	BAAQMD Condition 24873, Part 1	6 tons/hour 144 tons/day	BAAQMD Condition 24873, Part 2	Periodic (Daily)	Recordkeeping: Glass Pull	Yes	No
Opacity	BAAQMD Regulation 6-1-301	Ringelmann 1.0 For less than 3 minutes in an hour	BAAQMD Condition 24873, Part 15	Periodic (Daily)	Visual Observation and Recordkeeping	Yes	No
Filterable Particulate	BAAQMD Condition 24873, Part 6	Pressure drop range across A-99 1" wc to 20" wc	BAAQMD Condition 24873, Part 6	Periodic (Once per Shift)	Recordkeeping	Yes	No
Filterable Particulate	BAAQMD Condition 24873, Part 6	Pressure drop range across A-100 5" wc to 40" wc	BAAQMD Condition 24873, Part 6	Periodic (Once per Shift)	Recordkeeping	Yes	No
Filterable Particulate	BAAQMD Condition 24873, Part 7	Pressure drop range across A-26 1" wc to 10" wc	BAAQMD Condition 24873, Part 7	Periodic (Once per Day)	Recordkeeping	Yes	No
Filterable Particulate	BAAQMD Condition 24873, Part 7	Water flow across A-26 50 gpm to 250 gpm	BAAQMD Condition 24873, Part 7	Periodic (Once per Day)	Recordkeeping	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016
Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-22: "O" Cooling

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Scrubber and HPAF	BAAQMD Condition 24873, Part 8	Proper Maintenance for A-99 and A-100	BAAQMD Condition 24873, Part 8	Periodic (Monthly)	Inspection: Scrubber and HPAF	Yes	No
Scrubber	BAAQMD Condition 24873, Part 8	Proper Maintenance for A-26	BAAQMD Condition 24873, Part 8	Periodic (Semi-Annually)	Inspection: Scrubber	Yes	No
PM_{10}	BAAQMD Condition 24873, Part 67	40.86 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
PM_{10}	BAAQMD Condition 24873, Part 68	7.23 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
POC	BAAQMD Condition 24873, Part 69	10.13 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
POC	BAAQMD Condition 24873, Part 70	1.79 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-22: "O" Cooling

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
CO	BAAQMD Condition 24873, Part 71	12.07 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
CO	BAAQMD Condition 24873, Part 72	2.14 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
NOX	BAAQMD Condition 24873, Part 73	5.33 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
NOX	BAAQMD Condition 24873, Part 74	0.82 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No
SO_2	BAAQMD Condition 24873, Part 75	6.36 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Calculations	Yes	No
SO_2	BAAQMD Condition 24873, Part 76	0.98 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Source Test	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-22: "O" Cooling

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-C)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
NOx, CO, POC, PM_{10} (Filterable and Condensable), SO_2, Phenol, Formaldehyde, Methanol, Ammonia, Acetaldehyde	BAAQMD Condition 16834, Part 78	N/A	BAAQMD Condition 16834, Part 78	Periodic (Annual)	Source Test	Yes	No
PM_{10}	BAAQMD Condition 16834, Part 84	665.81 lb/day S-20, S-21 and S-22 combined	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)		Yes	No
PM_{10}	BAAQMD Condition 16834, Part 84	117.81 tpy S-20, S-21 and S-22 combined	BAAQMD Condition 24873, Part 78	Periodic (Annually)		Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-26: Sandblasting Room

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-E)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Opacity	SIP Regulation 6-301; BAAQMD Regulation 6-1-301	Ringelmann 1.0 For less than 3 minutes in an hour	BAAQMD Condition 15250, Part 8	Periodic (Monthly)	Visual Observation	Yes	No
Filterable Particulate	BAAQMD Condition 15250, Part 9	Pressure drop range across A-149 0" wc to 10" wc	BAAQMD Condition 15250, Part 8	Periodic (Monthly)	Recordkeeping	Yes	No
Filterable Particulate	BAAQMD Condition 15250, Part 9	Ringelmann 1.0 For less than 3 minutes in an hour	BAAQMD Condition 15250, Part 9	Periodic (Annually)	Inspection: Baghouse Bags	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-56: Batch Materials Silo & Unloading System

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-G)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Opacity	SIP Regulation 6-301; BAAQMD Regulation 6-1-301	Ringelmann 1.0 For less than 3 minutes in an hour	None	Periodic (Weekly)	Visual Observation	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-57: Batch Mixing

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-H)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Opacity	BAAQMD Condition 12144, Part 2	Ringelmann 0.5 For less than 3 minutes in an hour	BAAQMD Condition 12144, Part 2	Periodic (Weekly)	Visual Observation and Recordkeeping	Yes	No
Filterable Particulate	BAAQMD Condition 12144, Parts 2 and 4	Ringelmann 0.5 For less than 3 minutes in an hour and 0.015 grain per dry standard cubic foot of exhaust effluent	BAAQMD Condition 12144, Part 3	Periodic (Weekly)	Recordkeeping	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-61: "M" Packing Dust Collection System

S-62: "O" Packing Dust Collection System

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-I)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Opacity	SIP Regulation 6-301; BAAQMD Regulation 6-1-301	Ringelmann 1.0 For less than 3 minutes in an hour	None	Periodic (Weekly)	Visual Observation	Yes	No

Comments:

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-65: Fire System Diesel Pump

S-66: EM-3 Standby Diesel Generator

S-67: "O" Line Standby Diesel Generator

S-68: "M" Line Standby Diesel Generator

S-164: Boilerhouse Standby Diesel Generator

S-166: Cullet Water Standby Generator

S-167: Cooling Water Standby Generator

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-J)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Hours of Operation	BAAQMD Regulation 9-8-330	50 hours/yr for maintenance and testing	BAAQMD Regulation 9-8-530	Continuous	Totalizing Counter	Yes	No
Hours of Operation	BAAQMD Regulation 9-8-330	50 hours/yr for maintenance and testing	BAAQMD Regulation 9-8-502.1 and 9-8-530	Periodic (Monthly)	Records	Yes	No
Hours of Operation	40 CFR Part 63, Subpart ZZZZ, 63.6640(f)(1)(ii)	Maintenance checks and readiness testing less than 100 hours/yr	40 CFR, Part 63, Subpart ZZZZ, 63.6655(e)	Periodic	Records	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-65: Fire System Diesel Pump

S-66: EM-3 Standby Diesel Generator

S-67: "O" Line Standby Diesel Generator

S-68: "M" Line Standby Diesel Generator

S-164: Boilerhouse Standby Diesel Generator

S-166: Cullet Water Standby Generator

S-167: Cooling Water Standby Generator

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-J)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Hours of Operation	CCR, Title 17, Section 93115.6(b)(3)(A)1.a	20 hours/yr for maintenance and testing for S-66, S-67, S-68, S-164, S-166, S-167	CCR, Title 17, Section 93115.10(d)(1)	Continuous	Totalizing Counter	Yes	No
Hours of Operation	CCR, Title 17, Section 93115.6(b)(3)(A)1.a	20 hours/yr for maintenance and testing for S-66, S-67, S-68, S-164, S-166, S-167	CCR, Title 17, Section 93115.10(f)	Periodic (Monthly)	Records	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-65: Fire System Diesel Pump

S-66: EM-3 Standby Diesel Generator

S-67: "O" Line Standby Diesel Generator

S-68: "M" Line Standby Diesel Generator

S-164: Boilerhouse Standby Diesel Generator

S-166: Cullet Water Standby Generator

S-167: Cooling Water Standby Generator

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-J)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Hours of Operation	BAAQMD Condition 22820, Part 1	20 hours/yr for maintenance and testing for S-66, S-67, S-68, S-164, S-166, S-167	BAAQMD Condition 22820, Part 3	Continuous	Totalizing Counter	Yes	No
Hours of Operation	BAAQMD Condition 22820, Part 1	20 hours/yr for maintenance and testing for S-66, S-67, S-68, S-164, S-166, S-167	BAAQMD Condition 22820, Part 4	Periodic (Monthly)	Records	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-65: Fire System Diesel Pump

S-66: EM-3 Standby Diesel Generator

S-67: "O" Line Standby Diesel Generator

S-68: "M" Line Standby Diesel Generator

S-164: Boilerhouse Standby Diesel Generator

S-166: Cullet Water Standby Generator

S-167: Cooling Water Standby Generator

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-J)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Hours of Operation	BAAQMD Condition 22851, Part 1	34 hours/yr for maintenance and testing for S-65	BAAQMD Condition 22851, Part 3	Continuous	Totalizing Counter	Yes	No
Hours of Operation	BAAQMD Condition 22851, Part 1	34 hours/yr for maintenance and testing for S-65	BAAQMD Condition 22851, Part 4	Periodic (Monthly)	Records	Yes	No

Comments:

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-69: "M" Line Asphalt Applicator

S-70: "O" Line Asphalt Applicator

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-L)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Opacity	SIP Regulation 6-301; BAAQMD Regulation 6-1-301	Ringelmann 1.0 For less than 3 minutes in an hour	BAAQMD Condition 12672, Part 1	Periodic (Weekly)	Visual Observation	Yes	No
VOC	BAAQMD Regulation 8-4-302.3	3.5 lbs/gallon	BAAQMD Regulation 8-4-501	Periodic (Monthly)	Recordkeeping	Yes	No

Comments

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-86: "M" Batch Transporter Bin & Silo

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-M)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Opacity	BAAQMD Condition 12144, Part 6	Ringelmann 0.5 For less than 3 minutes in an hour	BAAQMD Condition 12144, Part 7	Periodic (Weekly)	Visual Observation and Recordkeeping	Yes	No
Baghouse Inspection	BAAQMD Condition 12144, Parts 6 and 8	Ringelmann 0.5 For less than 3 minutes in an hour and 0.015 grain per dry standard cubic foot of exhaust effluent	BAAQMD Condition 12144, Part 7	Periodic (Every Two Months)	Inspection: Baghouse Bags	Yes	No

Comments

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-87: "O" Batch Transporter Bin & Silo

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-N)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Opacity	BAAQMD Condition 12144, Part 10	Ringelmann 0.5 For less than 3 minutes in an hour	BAAQMD Condition 12144, Part 11	Periodic (Weekly)	Visual Observation and Recordkeeping	Yes	No
Baghouse Inspection	BAAQMD Condition 12144, Parts 10 and 12	Ringelmann 0.5 For less than 3 minutes in an hour and 0.015 grain per dry standard cubic foot of exhaust effluent	BAAQMD Condition 12144, Part 11	Periodic (Every Two Months)	Inspection: Baghouse Bags	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-90: Bad Batch Bin

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-O)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Opacity	SIP Regulation 6-301; BAAQMD Regulation 6-1-301	Ringelmann 1.0 For less than 3 minutes in an hour	None	Periodic (Weekly)	Visual Observation	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-155: "M" Line Inkjet Printing System

S-156: "O" Line Ink Jet Printing System

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-Q)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
VOC	BAAQMD Regulation 8-4-302.3	3.5 lbs/gallon	BAAQMD Condition 14391, Part 7	Periodic (Monthly)	Recordkeeping	Yes	No
POC	BAAQMD Condition 14391, Part 1	Annual Ink Usage < 360 gallons for both sources combined	BAAQMD Condition 14391, Part 7	Periodic (Monthly)	Recordkeeping	Yes	No
POC	BAAQMD Condition 14391, Part 2	POC content of ink less than 5% by weight	None	Periodic (Event Based)	Recordkeeping (Results of District approved laboratory analysis for each ink)	Yes	No
POC	BAAQMD Condition 14391, Part 4	Annual POC Emissions < 0.082 TPY for both sources combined	BAAQMD Condition 14391, Part 7	Periodic (Annually)	Recordkeeping	Yes	No

Comments:

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-157: "M" Machine Flexographic Building Insulation Printers

S-158: "O" Machine Flexographic Printers

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-R)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
VOC	BAAQMD Regulation 8-20-302	Flexographic Ink Porous Substrate 2.5 lbs/gallon	BAAQMD Condition 12378, Part 6	Periodic (Monthly)	Recordkeeping	Yes	No
VOC	BAAQMD Regulation 8-20-302	2.5 lbs/gallon	BAAQMD Condition 12378, Part 6	Periodic (Monthly)	Recordkeeping	Yes	No
POC	BAAQMD Condition 12378, Part 1	Annual Ink Usage < 32,000 gallons per source	BAAQMD Condition 12378, Part 6	Periodic (Monthly)	Recordkeeping	Yes	No
POC	BAAQMD Condition 12378, Part 2	POC content of Ink less than 10% by weight	None	Periodic (Event Based)	Recordkeeping (Results of District approved laboratory analysis for each ink)	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-157: "M" Machine Flexographic Building Insulation Printers

S-158: "O" Machine Flexographic Printers

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-R)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
POC	BAAQMD Condition 12378, Part 4	Annual POC Emissions < 40.032 tpy from both sources combined	BAAQMD Condition 12378, Part 6	Periodic (Annually)	Recordkeeping	Yes	No

Comments:

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-160: Binder Red Dye Tank

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-Q)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
Total Throughput	BAAQMD Condition 13661, Part 2	170 tons in any rolling 12 consecutive month period	BAAQMD Condition 13661, Part 3	Periodic (Monthly)	Recordkeeping	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-170: "M" Line Retail Roll Overwrap Tape Glue System

S-171: "O" Line Retail Roll Overwrap Tape Glue System

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-U)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
VOC	BAAQMD Regulation 8-4-302; BAAQMD Condition 23812, Part 5	Emissions <4,533 Kg (5 tons)/yr or VOC content < 420 g/l (3.5 lb/gal) as applied, excluding water	BAAQMD Regulation 8-4-501	Periodic (Event Based) maintain current list of coatings and solvents used	Recordkeeping	Yes	No
VOC	BAAQMD Regulation 8-4-302; BAAQMD Condition 23812, Part 5	Emissions <4,533 Kg (5 tons)/yr or VOC content < 420 g/l (3.5 lb/gal) as applied, excluding water	BAAQMD Regulation 8-4-501	Periodic (Annually) record quantities of coatings applied and	Recordkeeping	Yes	No
VOC	BAAQMD Regulation 8-4-302; BAAQMD Condition 23812, Part 5	Emissions <4,533 Kg (5 tons)/yr or VOC content < 420 g/l (3.5 lb/gal) as applied, excluding water	BAAQMD Regulation 8-4-501	Periodic (Monthly) for coatings subject to BAAQMD Regulation 8-4-302.3	Recordkeeping	Yes	No

Semi-Annual Monitoring Report
November 1, 2015 - April 30, 2016

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-170: "M" Line Retail Roll Overwrap Tape Glue System

S-171: "O" Line Retail Roll Overwrap Tape Glue System

Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-U)

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	Monitoring Performed (Yes/No)	Deviations (Yes/No)
VOC	BAAQMD Condition 23812, Part 1	Hot melt glue used ≤ 65 tons/year/source	BAAQMD Condition 23812, Part 6.b.	Periodic (Annually)	Recordkeeping	Yes	No
VOC	BAAQMD Condition 23812, Parts 2 and 3	POC ≤ 1,320 pounds/year/source and POC ≤ 10 pounds/day/source	BAAQMD Condition 23812, Part 6	Periodic (Daily, Monthly, Annually)	Recordkeeping	Yes	No

Comments