Owens Corning Insulating Systems, LLC - Santa Clara, CA

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

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

Citation of Limit Limit Limit Monitoring Citation Monitoring Performed (Yt BAAQMD Condition 16834, Part 13 Hours of Example Periodic (Daily) Condition 16834, Part 12 BAAQMD Periodic (Daily) and Observation Periodic (Daily) and Observation Periodic (Daily) and Exery Five Periodic (Once Periodic (Once Periodic (Once Spand (Once Periodic (Once Periodic (Once Spand (Once Periodic (Once Periodic (Once Periodic (Once Spand (Once Periodic (Once Per						<u> </u>	
Limit Requirement Critation Monitoring Hours of Operation Condition both furnaces BAAQMD 144 tons/day 16834, Part 12 Ringelmann 1.0 Gondition For less than 3 glass pulled glass pulled 16834, Part 16 300 ppm (dry) Soundition 15 lb/day BAAQMD Condition glass Poulled Condition glass Poulled 16834, Part 17 BAAQMD Condition BAAQMD Condition glass pulled 16834, Part 16 BAAQMD Condition BAAQMD Condition glass pulled Condition glass pulled 16834, Part 17 BAAQMD Condition BAAQMD Every Five Years) BAAQMD Periodic (Once Condition Years) BAAQMD Periodic (Once Condition Years) BAAQMD Periodic (Once Condition Years) BAAQMD Periodic (Once Source Test Yes Yes Source Test Yes Yes Yes Source Test Yes	Lead	SO ₂	PM ₁₀	Opacity	Glass Production	Open Configuration Furnace Operation	Type of Limit
Monitoring Requirement Citation Monitoring Frequency Monitoring Type Monitoring Performed (Yes/No) BAAQMD Condition 16834, Part 12 Periodic (Daily) Recordkeeping: Hours Yes BAAQMD Condition 16834, Part 14 Periodic (Daily) Recordkeeping: Hours Yes BAAQMD Condition 16834, Part 15 Periodic (Daily) Visual Observation and and and and and and and and and an	BAAQMD Regulation 11- 1-301	BAAQMD Regulation 9-1- 302	BAAQMD Regulations 6- 1-310 and 6-4- 311	BAAQMD Regulation 6-1- 301	BAAQMD Condition 16834, Part 5	BAAQMD Condition 16834, Part 3	Citation of Limit
Monitoring Frequency Periodic (Daily) Periodic (Daily) Periodic (Daily) Recordkeeping: Hours Periodic (Daily) Recordkeeping: Glass Pull Visual Observation and Periodic (Once Every Five Years) Periodic (Once per Permit Years) Periodic (Once Source Test Years) Periodic (Once Formit Source Test Source Test Source Test Yes Source Test Yes	15 lb/day	300 ppm (dry)	0.5 lbs/ton glass pulled	Ringelmann 1.0 For less than 3 minutes in an hour	6 tons/hour 144 tons/day	Hours of Operation < 480 hrs/yr for both furnaces	Limit
Monitoring Performed (Yes/No) Recordkeeping: Yes Hours Recordkeeping: Yes Glass Pull Visual Observation and Recordkeeping Source Test Source Test Yes Source Test Yes	BAAQMD Condition 16834, Part 18	BAAQMD Condition 16834, Part 17	BAAQMD Condition 16834, Part 16	BAAQMD Condition 16834, Part 15	BAAQMD Condition 16834, Part 14	BAAQMD Condition 16834, Part 12	Monitoring Requirement Citation
Monitoring Performed (Yes/No) Yes Yes Yes Yes	Periodic (Once per Permit Term)	Periodic (Once Every Five Years)	Periodic (Once Every Five Years)	Periodic (Daily)	Periodic (Daily)	Periodic (Daily)	Monitoring Frequency
	Source Test	Source Test	Source Test	Visual Observation and Recordkeeping	Recordkeeping: Glass Pull	Recordkeeping: Hours	Monitoring Type
No No No	Yes	Yes	Yes	Yes	Yes	Yes	Monitoring Performed (Yes/No)
	No	No	No	No	No	No	Deviations (Yes/No)

Owens Corning Insulating Systems, LLC - Santa Clara, CA

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

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

	As,	e a T	72 P B	m.	
2	As, Cr ₆ and Pb	Temperature above Molten Glass Surface	Batch Wetting Process: Water Flow Rate Limit	Batch Wetting Water Flow Rate	Type of Limit
lote: From 5/1/13-	BAAQMD Condition 16834, Part 26	BAAQMD Condition 16834, Part 23	BAAQMD Condition 16834, Part 11	BAAQMD Condition 16834, Part 19	Citation of Limit
Note: From 5/1/13-9/3/13, M-Line was not operating. Compliance testing for M Line occurred 11/5/13-11/20/13	A/N	Temperature measured at a location 46 to 61 centimeters (18 to 24 inches) above the molten glass surface ≤ 120 °C (250 °F)	Water flow rate ≥ 0.3 GPM	Water flow rate ≥ 0.3 GPM	Limit
s not operating. Co	BAAQMD Condition 16834, Part 26	BAAQMD Condition 16834, Part 23	40 CFR 63.1383 (e)(1) BAAQMD Condition 16834, Part 11	BAAQMD Condition 16834, Part 19	Monitoring Requirement Citation
ompliance testing t	Periodic (Initial and Annual)	Periodic (Daily: Once per Shift)	Periodic (Daily)	Periodic (Daily)	Monitoring Frequency
or M Line occurred	Source Test	Recordkeeping: Temperature	Recordkeeping: Water Flow Rate	Recordkeeping: Water Flow Rate	Monitoring Type
11/5/13-11/20/1	Yes	Yes	Yes	Yes	Monitoring Performed (Yes/No)
υ.	N _o	N o	No	No	Deviations (Yes/No)

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-2: "M" Forming

POC	POC	PM ₁₀	PM ₁₀	Opacity	Glass Production	Type of Limit	Applic
BAAQMD Condition 24873, Part 20	BAAQMD Condition 24873, Part 19	BAAQMD Condition 24873, Part 18	BAAQMD Condition 24873, Part 17	BAAQMD Regulation 6-1- 301	BAAQMD Condition 24873, Part 1	Citation of Limit	cable Limits and (
13.22 tpy	94.40 lb/day	84.89 tpy	515.59 lb/day	Ringelmann 1.0 For less than 3 minutes in an hour	6 tons/hour 144 tons/day	Limit	Compliance Moni
BAAQMD Condition 24873, Part 78	BAAQMD Condition 24873, Parts 82 and 83	BAAQMD Condition 24873, Part 78	BAAQMD Condition 24873, Parts 82 and 83	BAAQMD Condition 24873, Part 15	BAAQMD Condition 24873, Part 2	Monitoring Requirement Citation	toring Requireme
Periodic (Annually)	Periodic (Daily)	Periodic (Annually)	Periodic (Daily)	Periodic (Daily)	Periodic (Daily)	Monitoring Frequency	ents (Major Facili
Calculations	Source Test	Calculations	Source Test	Visual Observation and Recordkeeping	Recordkeeping: Glass Pull	Monitoring Type	Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-B)
No*	No*	No*	No*	Yes	Yes	Monitoring Performed (Yes/No)	(12/27/12) Table
No	N _O	No	No	No	No	Deviations (Yes/No)	VII-B)

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-2: "M" Forming

				·····		
SO ₂	SO ₂	NOx	NOx	СО	CO	Type of Limit
BAAQMD Condition 24873, Part 26	BAAQMD Condition 24873, Part 25	BAAQMD Condition 24873, Part 24	BAAQMD Condition 24873, Part 23	BAAQMD Condition 24873, Part 22	BAAQMD Condition 24873, Part 21	Citation of Limit
4.59 tpy	37.17 lb/day	3.76 tpy	30.45 lb/day	15.71 tpy	95.42 lb/day	Limit
BAAQMD Condition 24873, Part 78	BAAQMD Condition 24873, Parts 82 and 83	BAAQMD Condition 24873, Part 78	BAAQMD Condition 24873, Parts 82 and 83	BAAQMD Condition 24873, Part 78	BAAQMD Condition 24873, Parts 82 and 83	Monitoring Requirement Citation
Periodic (Annually)	Periodic (Daily)	Periodic (Annually)	Periodic (Daily)	Periodic (Annually)	Periodic (Daily)	Monitoring Frequency
Calculations	Source Test	Calculations	Source Test	Calculations	Source Test	Monitoring Type
No*	No*	No*	No*	No*	No*	Monitoring Performed (Yes/No)
No	No	No	No	No	No	Deviations (Yes/No)

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Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-2: "M" Forming

3.	11/5/13-11/20/13	for M Line occurred	ompliance testing	*Note: From 5/1/13-9/3/13, M-Line was not operating. Compliance testing for M Line occurred 11/5/13-11/20/13.	9/3/13, M-Line w	Note: From 5/1/13-	*7
No	No*	Calculations	Periodic (Annual)	BAAQMD Condition 24873, Part 78	N/A	BAAQMD Condition 24873, Part 78	NOx, CO, POC, PM ₁₀ (Filterable and Condensable), SO ₂ , Phenol, Formaldehyde, Methanol, Ammonia,
Deviations (Yes/No)	Monitoring Performed (Yes/No)	Monitoring Type	Monitoring Frequency	Monitoring Requirement Citation	Limit	Citation of Limit	Type of Limit

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-20: "O" Forming

Applicable Limits and Compliance Monitoring Requirements (Major Hacility Review Permit (12/2/1/2) lable VI-15) Type of Limit Citation of Limit Citation of Limit Citation of Limit Citation BAAQMD Glass Condition Production Opacity Applicable Limit Citation of Limit Condition Production Production Opacity Regulation 6-1- For less than 3 Condition Condition Por less than 3 Condition Condition Por less than 3 Condition Condition Condition Por less than 3 Condition Condition Por less than 3 Condition Por less than 3 Condition Condition Por less than 3 Condition Por less than 3 Condition Condition Por less than 3 Condition Condition Condition Por less than 3 Condition Por less than 3 Condition Condition Condition Condition Por less than 3 Condition Por less than 3 Condition Condition			:		3-20. () () () () () () () () () (· ·	122 /2- /2	-
Citation of LimitLimitMonitoring Requirement CitationMonitoring 	Appli	cable Limits and (Compliance Mon	itoring Requireme	ents (Major Facili	ty Review Po	ermit	ermit (12/27/12) Table
BAAQMD Condition 24873, Part 1 BAAQMD AAQMD AAQMD Regulation 6-1- For less than 3 301 BAAQMD Condition Condition 24873, Part 2 BAAQMD Regulation 6-1- For less than 3 24873, Part 15 BAAQMD Condition Condition 24873, Part 47 BAAQMD Condition 24873, Part 48 BAAQMD Condition 24873, Part 82 and 83 BAAQMD Condition 24873, Part 82 ABAQMD Condition Annually)	Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	36	Monitoring Performed (Yes/No)
BAAQMD Regulation 6-1- For less than 3 Condition 24873, Part 15 BAAQMD Condition Condition Condition 24873, Part 47 BAAQMD Condition 24873, Part 48 BAAQMD Condition Condition Condition 24873, Part 49 BAAQMD Condition 24873, Part 89 BAAQMD Condition Condition 24873, Part 89 BAAQMD Condition Condition 24873, Part 50 BAAQMD Condition Condition Condition 24873, Part 50 BAAQMD Condition Condition 24873, Part 78 BAAQMD Condition Condition 24873, Part 78	Glass Production	BAAQMD Condition 24873, Part 1	6 tons/hour 144 tons/day	BAAQMD Condition 24873, Part 2	Periodic (Daily)	Recordkeeping: Glass Pull	ing:	ing: Yes
BAAQMD Condition Condition 24873, Part 47 BAAQMD 24873, Part 82 BAAQMD Condition 24873, Part 48 BAAQMD Condition 24873, Part 48 BAAQMD Condition Condition Condition 24873, Part 49 BAAQMD Condition 24873, Part 49 BAAQMD Condition 24873, Part 50 BAAQMD Condition 24873, Part 50 BAAQMD Condition 24.43 tpy 24873, Part 78 BAAQMD Condition 24873, Part 78 BAAQMD Condition Condition 24.873, Part 78 BAAQMD Condition Condition 24.873, Part 78	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	on ping	on Yes
BAAQMD Condition 24873, Part 48 BAAQMD 24873, Part 78 BAAQMD BAAQMD Condition Condition 24873, Part 49 BAAQMD 24873, Part 82 24873, Part 82 BAAQMD Condition 24873, Part 50 BAAQMD Condition 24873, Part 50 BAAQMD Condition 24873, Part 78 BAAQMD Condition 24873, Part 78 BAAQMD Condition 24873, Part 78	PM ₁₀	BAAQMD Condition 24873, Part 47	464.84 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Source Test	est	est Yes
BAAQMD Condition Condition 24873, Part 49 BAAQMD 24873, Parts 82 and 83 BAAQMD Condition Condition 24.43 tpy 24873, Part 78 BAAQMD Condition 24.73 tpy 24873, Part 78 BAAQMD Condition 24.73 tpy 24873, Part 78	PM ₁₀	BAAQMD Condition 24873, Part 48	82.25 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Calculations	ons	ons Yes
BAAQMD Condition 24.43 tpy Condition 24873, Part 50 BAAQMD Periodic Annually)	РОС	BAAQMD Condition 24873, Part 49	138.08 lb/day	BAAQMD Condition 24873, Parts 82 and 83	Periodic (Daily)	Source Test	Test	Test Yes
	РОС	BAAQMD Condition 24873, Part 50	24.43 tpy	BAAQMD Condition 24873, Part 78	Periodic (Annually)	Calculations	tions	tions Yes

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-20: "O" Forming

No	Yes	Calculations	Periodic (Annually)	BAAQMD Condition 24873, Part 78	5.95 tpy	BAAQMD Condition 24873, Part 56	SO ₂
No	Yes	Source Test	Periodic (Daily)	BAAQMD Condition 24873, Parts 82 and 83	38.51 lb/day	BAAQMD Condition 24873, Part 55	SO ₂
No	Yes	Calculations	Periodic (Annually)	BAAQMD Condition 24873, Part 78	3.28 tpy	BAAQMD Condition 24873, Part 54	NOx
No	Yes	Source Test	Periodic (Daily)	BAAQMD Condition 24873, Parts 82 and 83	21.22 lb/day	BAAQMD Condition 24873, Part 53	NOx
No	Yes	Calculations	Periodic (Annually)	BAAQMD Condition 24873, Part 78	37.44 tpy	BAAQMD Condition 24873, Part 52	00
No	Yes	Source Test	Periodic (Daily)	BAAQMD Condition 24873, Parts 82 and 83	211.51 lb/day	BAAQMD Condition 24873, Part 51	00
Deviations (Yes/No)	Monitoring Performed (Yes/No)	Monitoring Type	Monitoring Frequency	Monitoring Requirement Citation	Limit	Citation of Limit	Type of Limit

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Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-20: "O" Forming

No	Yes	Emissions Calculations	Periodic (Annually)	BAAQMD Condition 24873, Part 78	117.81 tpy 5-20, S-21 and S-22 combined	BAAQMD Condition 24873, Part 84	PM ₁₀
No	Yes	Emissions Calculations	Periodic (Daily)	BAAQMD Condition 24873, Parts 82 and 83	665.81 lb/day S-20, S-21 and S-22 combined	BAAQMD Condition 24873, Part 84	PM ₁₀
No	Yes	Source Test	Periodic (Annual)	BAAQMD Condition 24873, Part 78	N/A	BAAQMD Condition 24873, Part 78	NOx, CO, POC, PM ₁₀ (Filterable and Condensable), SO ₂ , Phenol, Formaldehyde, Methanol, Ammonia, Acetaldehyde
Deviations (Yes/No)	Monitoring Performed (Yes/No)	Monitoring Type	Monitoring Frequency	Monitoring Requirement Citation	Limit	Citation of Limit	Type of Limit

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-3: "M" Curing Oven

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

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-3: "M" Curing Oven

Z ₀ *	Source Test	Periodic (Daily)	Condition 24873, Parts 82	248.44 lb/day	BAAQMD Condition 24873, Part 33	NOx
No*	Calculations	Periodic (Annually)	BAAQMD Condition 24873, Part 78	56.81 tpy	BAAQMD Condition 24873, Part 32	8
No*	Source Test	Periodic (Daily)	BAAQMD Condition 24873, Parts 82 and 83	345.02 lb/day	BAAQMD Condition 24873, Part 31	6
No*	Calculations	Periodic (Annually)	BAAQMD Condition 24873, Part 78	0.75 tpy	BAAQMD Condition 24873, Part 30	POC
No*	Source Test	Periodic (Daily)	BAAQMD Condition 24873, Parts 82 and 83	5.33 lb/day	BAAQMD Condition 24873, Part 29	РОС
No*	Calculations	Periodic (Annually)	BAAQMD Condition 24873, Part 78	3.70 tpy	BAAQMD Condition 24873, Part 28	PM ₁₀
Monitoring Performed (Yes/No)	Monitoring Type	Monitoring Frequency	Monitoring Requirement Citation	Limit	Citation of Limit	Type of Limit

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-3: "M" Curing Oven

ed 11/5/13-11/2	for M Line occurr	ompliance testing	*Note: From 5/1/13-9/3/13, M-Line was not operating. Compliance testing for M Line occurred 11/5/13-11/20/13	-9/3/13, M-Line w	Note: From 5/1/13	e
	Source Test	(Annual)	Condition 16834, Part 78	Z/A	Condition 16834, Part 78	SO ₂ , Phenol, Formaldehyde, Methanol, Ammonia,
		Periodic	BAAQMD		BAAQMD	and Condensable),
						NOx, CO, POC, PM ₁₀ (Filterable
	Calculations	(Annually)	24873, Part 78	u.by tpy	24873, Part 36	SU_2
		Periodic	BAAQMD		BAAQMD)
	Source rest	reliquic (Dally)	24873, Parts 82 and 83	3.01 10/0dy	24873, Part 35	302
	Source Test		BAAQMD Condition	E 61 lb /day	BAAQMD	5
	Calculations	(Annually)	24873, Part 78	30.68 tpy	Condition 24873, Part 34	NOX
	•	Periodic	BAAQMD		BAAQMD	
	Туре	Frequency	Citation	Limit	Limit	Type of Limit
	Monitoring	Monitoring	Monitoring		Citation of	

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-21: "O" Curing Oven

Appli	cable Limits and C	Applicable Limits and Compliance Monitoring Requirements (Major Facility Revi	toring Requireme	ents (Major Facili	ty Review Permit	iew Permit (12/27/12) Table VII-C)	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	BAAQMD Condition 24873, Parts 9- 12	Continuous	Recordkeeping (Firebox Operating Temperature)	Yes	No

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-21: "O" Curing Oven

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

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-21: "O" Curing Oven

BAAQMD Condition 24873, Part 64 BAAQMD SO ₂ Condition 24873, Part 65			BAAQMD NOx Condition 24873, Part 63	BAAQMD CO Condition 24873, Part 62	BAAQMD CO Condition 24873, Part 61	Type of Limit Citation of
64 42.93 tpy 65 5.81 lb/day			277.64 lb/day	79.91 tpy	451.58 lb/day	f Limit
24873, Part 78 BAAQMD Condition 24873, Parts 82 and 83	24873, Part 78	BAAQMD	BAAQMD Condition 24873, Parts 82 and 83	BAAQMD Condition 24873, Part 78	BAAQMD Condition 24873, Parts 82 and 83	Monitoring Requirement Citation
Periodic (Daily)		Periodic (Annually)	Periodic (Daily)	Periodic (Annually)	Periodic (Daily)	Monitoring Frequency
Source Test		Calculations	Source Test	Calculations	Source Test	Monitoring Type
Yes		Yes	Yes	Yes	Yes	Monitoring Performed (Yes/No)
	Z	No	No	N _o	No	Deviations (Yes/No)

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Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-21: "O" Curing Oven

Citation of Limit Requirement Citation Monitoring Monitoring Requirement Citation Requirement Requirement Citation Requirement Requirement Prequency Type BAAQMD BAAQMD Condition Condition S-20, S-21 and 24873, Part 84 S-22 combined and 83 BAAQMD S-20, S-21 and Condition S-20, S-21 and S-20, S-21 and Condition S-20, S-21 and Condition S-20, S-21 and S-20, S-20, S-21 and S-20, S-20, S-20, S-20, S-20, S-20, S-20, S-20, S-20		 -		
Limit Requirement Requirement Requirement Citation Frequency Type (Yes/No) BAAQMD Periodic Condition (Annual) 665.81 lb/day S-20, S-21 and S-22 combined S-20, S-21 and S-20, S-21 and Condition Condition S-20, S-21 and Condition S-20, S-21 and Condition Condition Condition Condition (Annually) Calculations Yes	РМ ₁₀	PM ₁₀	NOX, CO, POC, PM ₁₀ (Filterable and Condensable), SO ₂ , Phenol, Formaldehyde, Methanol, Ammonia, Acetaldehyde	Type of Limit
Monitoring Requirement Citation Frequency Type (Yes/No) BAAQMD Periodic Condition Condition 24873, Part 78 BAAQMD Condition 24873, Parts 82 and 83 BAAQMD Condition Condition Condition Condition 24873, Part 78 BAAQMD Periodic (Daily) Calculations Condition (Annually) Calculations Yes	BAAQMD Condition 24873, Part 84	BAAQMD Condition 24873, Part 84	BAAQMD Condition 24873, Part 78	Citation of Limit
Monitoring Monitoring Performed Type (Yes/No) Periodic (Annual) Periodic (Daily) Emissions Calculations Periodic Emissions (Annually) Calculations	117.81 tpy S-20, S-21 and S-22 combined	665.81 lb/day S-20, S-21 and S-22 combined	N/A	Limit
Monitoring Performed (Yes/No) Source Test Yes Emissions Calculations Emissions Calculations Calculations Calculations Calculations	BAAQMD Condition 24873, Part 78	BAAQMD Condition 24873, Parts 82 and 83	BAAQMD Condition 24873, Part 78	Monitoring Requirement Citation
rce Test rce Test resions lissions lissions ves ves yes ves	Periodic (Annually)	Periodic (Daily)	Periodic (Annual)	Monitoring Frequency
	Emissions Calculations	Emissions Calculations	Source Test	Monitoring Type
Deviations (Yes/No) No No	Yes	Yes	Yes	Monitoring Performed (Yes/No)
	No	No	No	Deviations (Yes/No)

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-4: "M" Cooling

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

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-4: "M" Cooling

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

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-4: "M" Cooling

No*	Calculations	Periodic (Annually)	BAAQMD Condition 24873. Part 78	0.77 tpy	BAAQMD Condition 24873. Part 46	SO ₂
	Source Test	Periodic (Daily)	BAAQMD Condition 24873, Parts 82 and 83	6.20 lb/day	BAAQMD Condition 24873, Part 45	SO ₂
	Calculations	Periodic (Annually)	BAAQMD Condition 24873, Part 78	0.55 tpy	BAAQMD Condition 24873, Part 44	NOx
	Source Test	Periodic (Daily)	BAAQMD Condition 24873, Parts 82 and 83	4.42 lb/day	BAAQMD Condition 24873, Part 43	NOx
, o	Calculations	Periodic (Annually)	BAAQMD Condition 24873, Part 78	1.51 tpy	BAAQMD Condition 24873, Part 42	СО
	Source Test	Periodic (Daily)	BAAQMD Condition 24873, Parts 82 and 83	9.18 lb/day	BAAQMD Condition 24873, Part 41	CO
Monitoring Performed (Yes/No)	Monitoring Type	Monitoring Frequency	Monitoring Requirement Citation	Limit	Citation of Limit	Type of Limit

Semi-Annual Monitoring Report

May 1, 2013 – October 31, 2013

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-4: "M" Cooling

Г			
	*Note: From 5/1/ 152. Operating lin	NOx, CO, POC, PM ₁₀ (Filterable and Condensable), SO ₂ , Phenol, Formaldehyde, Methanol, Ammonia, Acetaldehyde	Type of Limit
	'13-9/3/13, M-Line mits for A-152 will	BAAQMD Condition 16834, Part 78	Citation of Limit
	was not operating be determined ba	N/A	Limit
	*Note: From $5/1/13-9/3/13$, M-Line was not operating. Compliance testing for M Line occurred $11/13-9/3/13$, M-Line was not operating. Compliance testing for M Line occurred $11/13-9/3/13$.	BAAQMD Condition 16834, Part 78	Monitoring Requirement Citation
	ing for M Line occu 2013 Compliance	Periodic (Annual)	Monitoring Frequency
	*Note: From 5/1/13-9/3/13, M-Line was not operating. Compliance testing for M Line occurred 11/5/13-11/20/13. A-7 has been replaced with A-152. Operating limits for A-152 will be determined based on November, 2013 Compliance Testing.	Source Test	Monitoring Type
	10/13. A-7 has bee	Z 0 *	Monitoring Performed (Yes/No)
	n replaced with A-	No	Deviations (Yes/No)
	٠		

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-22: "O" Cooling

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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

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-22: "O" Cooling

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

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-22: "O" Cooling

No	Yes	Calculations	Periodic (Annually)	BAAQMD Condition 24873. Part 78	0.98 tpy	BAAQMD Condition 24873 Part 76	SO ₂
No	Yes	Source Test	Periodic (Daily)	BAAQMD Condition 24873, Parts 82 and 83	6.36 lb/day	BAAQMD Condition 24873, Part 75	SO ₂
No	Yes	Calculations	Periodic (Annually)	BAAQMD Condition 24873, Part 78	0.82 tpy	BAAQMD Condition 24873, Part 74	NOX
No	Yes	Source Test	Periodic (Daily)	BAAQMD Condition 24873, Parts 82 and 83	5.33 lb/day	BAAQMD Condition 24873, Part 73	NOX
No	Yes	Calculations	Periodic (Annually)	BAAQMD Condition 24873, Part 78	2.14 tpy	BAAQMD Condition 24873, Part 72	CO
No	Yes	Source Test	Periodic (Daily)	BAAQMD Condition 24873, Parts 82 and 83	12.07 lb/day	BAAQMD Condition 24873, Part 71	co
Deviations (Yes/No)	Monitoring Performed (Yes/No)	Monitoring Type	Monitoring Frequency	Monitoring Requirement Citation	Limit	Citation of Limit	Type of Limit

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-22: "O" Cooling

		(Annually)	Condition 24873 Part 78	S-20, S-21 and	Condition	PM ₁₀
		Periodic	BAAQMD	117.81 tpy	BAAQMD	
į			24873, Parts 82 and 83	S-22 combined	24873, Part 84	10
Yes		Periodic (Daily)	BAAQMD Condition	665.81 lb/day S-20. S-21 and	BAAQMD	PM
						Acetaldehyde
						Ammonia,
						Methanol,
		(3	24873, Part 78		24873, Part 78	Formaldehyde,
Yes	Source Test	(Annual)	Condition	N/A	Condition	SO ₂ , Phenol,
		Periodic	BAAQMD		BAAQMD	Condensable),
						and
						PM ₁₀ (Filterable
						NOx, CO, POC,
(Yes/No)	lype	Frequency	Citation		Limit	
Performed	The state of the s	VIOIII COTTING	Requirement	Limit	Citation of	Type of Limit

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-26: Sandblasting Room

A 22 2	Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-F)	omaliance Monit	toring Requireme	o Requirements (Major Facili	tv Raview Permit	(12/27/12) Tahle	VII-F)
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	Ύes	
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	N _O
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

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-56: Batch Materials Silo & Unloading System

Applicabl	e Limits and Co	ompliance Monit	Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-G)	nts (Major Facility	y 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)
SI Opacity Re	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	N _O

Owens Corning Insulating Systems, LLC - Santa Clara, CA

Applicat	ble Limits and (S-57: Batch Mixing Applicable Limits and Compliance Monitoring Requirements (Major Facility Rev	S-57: Batch Mixing oring Requirements (Majo	ch Mixing ents (Major Facilit	ty Review Permit (12/27/12) Table VII-H)	(12/27/	12) Table
Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Mo	Monitoring Type	Monitoring Monitoring Performed (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)	Ob Recc	Visual Observation and Recordkeeping	Visual servation Yes and ordkeeping
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)	Re	Recordkeeping	cordkeeping Yes

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-61: "M" Packing Dust Collection System

Appli	cable Limits and	S-62: "O" Packing Dust Collection System Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-I)	S-62: "O" Packing Dust Collection System Aonitoring Requirements (Major Facility Ro	ı <mark>st Collection Sys</mark> ents (Major Facili	i tem ty 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

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

No	Yes	Records	Periodic	40 CFR, Part 63, Subpart ZZZZ, 63.6655(e)	Maintenance checks and readiness testing less than 100 hours/yr	40 CFR Part 63, Subpart ZZZZ, 63.6640(f)(1)(ii)	Hours of Operation
No	Yes	Records	Periodic (Monthly)	BAAQMD Regulation 9-8- 502.1 and 9-8- 530	50 hours/yr for maintenance and testing	BAAQMD Regulation 9-8-330	Hours of Operation
No	Yes	Totalizing Counter	Continuous	BAAQMD Regulation 9-8- 530	50 hours/yr for maintenance and testing	BAAQMD Regulation 9-8-330	Hours of Operation
Deviations (Yes/No)	Monitoring Performed (Yes/No)	Monitoring Type	Monitoring Frequency	Monitoring Requirement Citation	Limit	Citation of Limit	Type of Limit
VII-J)	12/27/12) Table	Review Permit (s (Major Facility	ring Requirement	npliance Monito	Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-J)	Appl
		or	tandby Generat	S-167: Cooling Water Standby Generator	S-167		
		ř	andby Generato	S-166: Cullet Water Standby Generator	S-16		
		ator	lby Diesel Gener	S-164: Boilerhouse Standby Diesel Generato	S-164: E		

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

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

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

Type of Limit	Citation of Limit	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type	1	Monitoring Performed (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	Totalizing Yes Counter
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	Records Yes

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

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

Owens Corning Insulating Systems, LLC - Santa Clara, CA

			S-70: "O" Line Asphalt Applicator	sphait Applicator	7		
Appli	Applicable Limits and Compliance Monitoring Requirements (Major Facility Revi	Compliance Moni	toring Requireme	ents (Major Facili	ty Review Permit	iew Permit (12/27/12) Table VII-L)	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

Owens Corning Insulating Systems, LLC - Santa Clara, CA

Applica	ble Limits and C	S-8	S-86: "M" Batch Transporter Bin & Silo nitoring Requirements (Major Facility R	nts (porter Bin & 9 (Major Facilit Monitoring	orter Bin & Silo Major Facility Review Permit (Monitoring Monitoring	eview Permit (12
Type of Limit Opacity	Limit BAAQMD Condition 12144, Part 6	Limit Ringelmann 0.5 For less than 3 minutes in an hour	Requirement Citation BAAQMD Condition 12144, Part 7	Frequency Periodic (Weekly)	Type Visual Observation and Recordkeeping		Performed (Yes/No) Yes
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

Owens Corning Insulating Systems, LLC - Santa Clara, CA

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

Applica	ble Limits and C	Applicable Limits and Compliance Monitoring Requirements (Major Facility Rev	oring Requireme	ents (Major Facili	ty Review Permit	view Permit (12/27/12) Table VII-N)	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	N _o
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

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-90: Bad Batch Bin

Appli	cable Limits and C	ompliance Monit	Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-O)	nts (Major Facilit	y 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	N _o

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

Owens Corning Insulating Systems, LLC - Santa Clara, CA

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

S-158: "O" Machine Flexographic Printers

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

Owens Corning Insulating Systems, LLC - Santa Clara, CA

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

S-158: "O" Machine Flexographic Printers

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Type of Limit Citation of
Citation of Limit
Limit
Monitoring Requirement
Monitoring Frequency
Monitoring Type
Monitoring Performed
Deviations (Yes/No)

Owens Corning Insulating Systems, LLC - Santa Clara, CA

S-160: Binder Red Dye Tank

Applic	able Limits and (Applicable Limits and Compliance Monitoring Requirements (Major Facility Review Permit (12/27/12) Table VII-Q)	toring Requireme	ing Requirements (Major Facilit	ty 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)	Deviation (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

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

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

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May 1, 2013 — October 31, 2013

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

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	
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	