

Emission Sources - Maximum Emission Rates
MEMC Pasadena, Inc/Polysilicon Manufacturing Facility Flares
Standard Pollution Control Permit Number 96512

This table lists the maximum emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a revision of the facilities covered by this permit.

Air Contaminants Data

EMISSIONS AUTHORIZED IN NSR PERMIT 9597 FOR ASSOCIATED EPN'S				
Y-D-1	Organic Flare X-9845	VOC	3.49	4.15
		NO _x	0.28	0.55
		CO	1.99	3.96
		SO ₂	0.01	0.01
Y-D-201	Organic Flare X-98245	VOC	3.54	4.25
		NO _x	0.28	0.57
		CO	2.04	4.14
		SO ₂	0.01	0.01
Y-D-2	Inorganic Flare X-9846	VOC	5.00	0.56
		NO _x	0.22	0.81
		PM ₁₀	13.25	4.99
		CO	1.12	4.12
		SO ₂	0.01	0.01
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MSS EMISSIONS AUTHORIZED IN NSR PERMIT 9597 FOR ASSOCIATED EPN'S				
Y-D-1 MSS	Organic Flare	VOC	3.53	0.04
		SiH ₄	0.68	0.01
Y-D-201 MSS	Organic Flare	VOC	3.57	0.04
Y-D-2 MSS	Inorganic Flare	VOC	0.43	0.01

EMISSIONS IN THIS TABLE REPRESENT THE COMBINED EMISSIONS FROM THE ABOVE Y-D-1 OR Y-D-201 STREAMS WHICH WILL BE ROUTED TO THE BACKUP FLARES AND WILL NOT OCCUR AT THE SAME TIME.		
	<u>LB/HR</u>	<u>TPY</u>
VOC	7.03	8.40
NO _x	0.56	1.22
CO	4.04	8.10
SO ₂	0.01	0.01

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- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations. Emission values should be used for federal applicability.

Effective
Date:

June 17, 2011
