

### 15.0 EMISSION FACTORS

Emissions device or activity	Pollutant	Emission Factor (EF)	EF units	EF Reference
Thermal Oxidizer	PM	8.5	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	PM <sub>10</sub>	5.5	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	PM <sub>2.5</sub>	3.1	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	SO <sub>2</sub>	73.5	lb/10 <sup>3</sup> gallons	AP-42 Table 1.11-2
	NO <sub>x</sub>	19	lb/10 <sup>3</sup> gallons	AP-42 Table 1.11-2
	CO	5	lb/10 <sup>3</sup> gallons	AP-42 Table 1.11-2
	VOC	0.34	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
*Rocket Regenerative Polishing and filtration system	PM	8.5	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	PM <sub>10</sub>	5.5	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	PM <sub>2.5</sub>	3.1	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	SO <sub>2</sub>	73.5	lb/10 <sup>3</sup> gallons	AP-42 Table 1.11-2
	NO <sub>x</sub>	19	lb/10 <sup>3</sup> gallons	AP-42 Table 1.11-2
	CO	5	lb/10 <sup>3</sup> gallons	AP-42 Table 1.11-2
	VOC	0.34	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
**Rocket Regenerative Polishing and filtration system	PM	0.167	lb/10 <sup>3</sup> gallons	Engineering estimate
	PM <sub>10</sub>	0.133	lb/10 <sup>3</sup> gallons	Engineering estimate
	PM <sub>2.5</sub>	0.075	lb/10 <sup>3</sup> gallons	Engineering estimate
	SO <sub>2</sub>	14.8	lb/10 <sup>3</sup> gallons	Engineering estimate
	NO <sub>x</sub>	0.062	lb/10 <sup>3</sup> gallons	Engineering estimate
	CO	0.016	lb/10 <sup>3</sup> gallons	Engineering estimate
	VOC	0.003	lb/10 <sup>3</sup> gallons	Engineering estimate
Tube and Shell Condenser	VOC	0.441	lb/10 <sup>3</sup> gallons	EA table 5
Bubble Condenser	VOC	3.3	lb/10 <sup>3</sup> gallons	Engineering Estimate
Boiler	PM	8.5	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	PM <sub>10</sub>	5.5	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04

Emissions device or activity	Pollutant	Emission Factor (EF)	EF units	EF Reference
	PM <sub>2.5</sub>	3.1	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	SO <sub>2</sub>	73.5	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	NO <sub>x</sub>	19	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	CO	5	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	VOC	0.34	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
WFE	VOC	0.27	lb/10 <sup>3</sup> gallons	Engineering Estimate
Cook Tank Heaters	PM	8.5	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	PM <sub>10</sub>	5.5	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	PM <sub>2.5</sub>	3.1	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04
	SO <sub>2</sub>	73.5	lb/10 <sup>3</sup> gallons	AP-42 Table 1.11-2
	NO <sub>x</sub>	19	lb/10 <sup>3</sup> gallons	AP-42 Table 1.11-2
	CO	5	lb/10 <sup>3</sup> gallons	AP-42 Table 1.11-2
	VOC	0.34	lb/10 <sup>3</sup> gallons	DEQ-AQ-EF04

\*Emission factors when burning waste oil during filter regeneration.

\*\*Emission factors when filtering and polishing used oil.

## 16.0 PROCESS/PRODUCTION RECORDS

Emissions device or activity	Process or production parameter	Frequency
Thermal Oxidizer	Type of fuel burned (gal)	Daily and annually
Tube and Shell Condenser	Fuel processed (10 <sup>3</sup> gal)	Monthly and annually
Boiler	Fuel burned (gal)	Daily and annually
WFE	Fuel burned (gal)	Daily and annually
Cook tank heaters	Fuel burned (gal)	Daily and annually