

## 3.e. Regulatory Requirements

### **40 CFR 60 Subpart Da (Electric Utility Steam Units)**

The heater is less than 250 MMBtu/hr and not subject to this regulation (60.40Da(a)(1)).

### **40 CFR 60 Subpart Db (Electric Utility Steam Units)**

The heater is less than 100 MMBtu/hr and not subject to this regulation (60.40Db(a)).

### **40 CFR 60 Subpart Dc (Electric Utility Steam Units)**

The steam generating unit will be constructed after 1989 and will have a maximum heat capacity less than 100 MMbtu/hr but greater than 10 MMbtu/hr and subject to 40 CFR Supart Dc. The unit must comply with recordkeeping requirements §60.48c(g)(1)-(3), (i) and reporting requirements under §60.48c(a). There are no other requirements under this regulation.

### **60 CFR 63 DDDDD (MACT DDDDD)**

The heater is not subject to this regulation as the site is not a major source of HAPs.

### **60 CFR 63 JJJJ (MACT JJJJ)**

The heater is not subject to this regulation as it is not a part of the listed subcategory in 63.11200.

System Information		
Fuel Type	Natural Gas	---
Uncontrolled	8,760	hr
Controlled	2,080	hr

Calculation Factors		
Maximum Burner Capacity	40.00	MMbtu/hr
Nat. Gas Heating Value	1,020	Btu/SCF

Pollutant Emissions						
Pollutant	Emission Factors		Uncontrolled Emissions		Controlled Emissions	
	EF	Units	lb/hr	tpy	lb/hr	tpy
Benzene	2.10E-03	lb/MMSCF	8.2E-05	3.6E-04	0.00	8.6E-05
Dichlorobenzene	1.20E-03	lb/MMSCF	4.7E-05	2.1E-04	0.00	4.9E-05
Formaldehyde	7.50E-02	lb/MMSCF	2.9E-03	1.3E-02	0.00	3.1E-03
Hexane	1.80	lb/MMSCF	7.1E-02	0.31	0.07	7.3E-02
Naphthalene	6.10E-04	lb/MMSCF	2.4E-05	1.0E-04	0.00	2.5E-05
Toluene	3.40E-03	lb/MMSCF	1.3E-04	5.8E-04	0.00	1.4E-04
Total HAPs	--	lb/MMSCF	7.4E-02	0.32	0.07	7.7E-02

\*\*\* Emission factors from heater based on AP-42 Section 1.4 Table 1.4-3. A sample calculation is provided below for Benzene:

$$\begin{array}{l}
 \text{Benzene (lb/hr)} = \frac{0.0021 \text{ lb}}{\text{MMSCF}} \times \frac{\text{MMSCF}}{1020 \text{ MMBTU}} \times \frac{40 \text{ MMBTU}}{\text{hr}} = 0.000082 \text{ lb/hr} \\
 \\
 \text{Benzene (tpy)} = \frac{0.000082 \text{ lb}}{\text{hr}} \times \frac{2080 \text{ hr}}{\text{yr}} \times \frac{\text{ton}}{2000 \text{ lb}} = 0.000086 \text{ tpy}
 \end{array}$$