

FORM INV-2 EMISSION POINT DESCRIPTION

1. Company/Facility Name		ACME HOSPITAL		2. Form INV-2 Page		1	of	1
3. Release Point Identifier		EP-001						
4. Is this release point used as an emergency bypass stack?				No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>			
If YES, for which release point(s)? List release point identifiers:								
5. Release Point Type								
Downward-facing Vent	<input type="checkbox"/>				Indoor Vented	<input type="checkbox"/>		
Fugitive (specify)	<input type="checkbox"/>				Vertical	<input checked="" type="checkbox"/>		
Goose Neck	<input type="checkbox"/>				Vertical with Rain Cap	<input type="checkbox"/>		
Horizontal	<input type="checkbox"/>							
6. Release Point Description		DIESEL GENERATOR STACK						
7. Operating Status		Operating <input checked="" type="checkbox"/>	Permanently Shutdown <input type="checkbox"/>		Temporarily Shutdown <input type="checkbox"/>			
8. Operating Status Date (Please enter the date the shutdown occurred. The status date should be blank if the status above was entered as operating.)								
9. Stack Height Above Ground		67	feet					
10. Stack Shape and Dimensions: (interior dimensions at exit point)								
Circular Diameter:		<input checked="" type="checkbox"/>	0.5	feet				
Rectangular Dimensions:		<input type="checkbox"/>		feet	x		feet	
Composition Of Exhaust Stream								
Exhaust Stream Characteristics		Release Point Composition of Exhaust Stream			Units of Measure			
11. Temperature		400			Degree Fahrenheit			
12. Flow Rate		7,795			<input checked="" type="checkbox"/> ACFM <input type="checkbox"/> SCFM			
13. Bypass Stacks								
Bypass Stack – Release Point Identifier								
Bypass Stack Description								
Bypass Stack – Release Point Identifier								
Bypass Stack Description								
14. List of Emission Unit Identifiers Venting Through This Release Point Identifier								
Emission Unit Identifier	Emission Unit Identifier	Emission Unit Identifier	Emission Unit Identifier					
EU-001								

**FORM INV-4 PROCESS DESCRIPTION - ACTUAL EMISSIONS**

1. Company/Facility Name		ACME HOSPITAL			2. Form INV-4 Page		1	of	1
3. Release Point Identifier		EP-001							
4. Release Point Description		DIESEL GENERATOR							
5. Emission Year		2017							
6. Emission Unit Identifier		EU-001							
7. SCC Number		20200401							
8. Description of Process		DIESEL COMBUSTIO							
<b>Annual Throughput</b>									
9. Annual Throughput		266							
10. <u>Throughput Unit of Measure</u>		MMBTU							
11. Throughput Type (Input, Output, or Existing)		I							
12. <u>Throughput Material</u>		DIESEL FUEL							
<b>Actual Operating Rate/Schedule</b>									
13. Average Hours/Day		1.06							
14. Average Days/Week		1							
15. Average Weeks/Year		8							
16. Actual Hours For Year		8.5							
<b>Seasonal Operations</b>									
17. January, February & December (%)		25.5							
18. March, April & May (%)		23.5							
19. June, July & August (%)		23.5							
20. September, October & November (%)		27.5							
<b>Associated Control Devices</b>									
21. Control Device Identifier									
22. Control Device Description									
23. Control Device Identifier									
24. Control Device Description									
<b>ACTUAL EMISSIONS</b>									
25. Air Pollutant	26. Emission Factor	27. Emission Factor Units of Measure	28. Source of Emission Factor	29. Ash or Sulfur %	30. Combined Control Efficiency	31. Transfer Efficiency	32. Actual Estimated Emissions (Tons)		
PM-2.5	0.05	LBS/MMBTU	WEBFIRE				0.01		
PM-10	0.14	LBS/MMBTU	DNR MEMO				0.02		
SO <sub>2</sub>	1.01	LBS/MMBTU	AP-42	0.5			0.07		
NOX	3.2	LBS/MMBTU	AP-42				0.43		
VOC	0.0819	LBS/MMBTU	AP-42				0.01		
CO	0.85	LBS/MMBTU	AP-42				0.11		
Lead									
Ammonia									

**ACTUAL EMISSIONS – Individual HAPs and additional regulated air pollutants – list each individual pollutant name in Column 25**


**\*Calculation Methods: CEMS – Engineering Judgment – Manufacturer’s Specification – Material Balance – Other (Specify) – State or Local Speciation Profile – Site Specific – Stack Test – Trade Group – US EPA - Vendor**

**FORM INV-5 CALCULATIONS**

<b>1. Company/Facility Name</b>	ACME HOSPITAL	<b>2. Form INV-5 Page</b>	1	<b>of</b>	1
<b>3. Release Point Identifier</b>	EP-001				
<b>4. Emission Unit Identifier</b>	EU-001				
<b>5. SCC Number:</b>	20200401				
<b>Calculations are provided in support of information reported on Form INV – 4 for the SCC Number listed above.</b>					
<b>6. Emissions Calculations</b>					
PROCESS: DIESEL GENERATOR > 600 BHP					
FUEL: DIESEL FUEL					
ACTUAL THROUGHPUT: 266 MMBTU					
POLLUTANT	EMISSION FACTORS FROM AP-42 (SCC NUMBER 20200102)				
PM-2.5	0.05 LBS PER MMBTU BURNED				
PM-10	0.14 LBS PER MMBTU BURNED				
SO2	1.01S (S = 0.5) LBS PER MMBTU BURNED				
NOX	3.2 LBS PER MMBTU BURNED				
VOC	0.0819 LBS PER MMBTU BURNED				
CO	0.85 LBS PER MMBTU BURNED				
CALCULATIONS					
ACTUAL PM-2.5 TONS					
$(266 \text{ MMBTU}) * (0.05 \text{ LBS/MMBTU}) * (1 \text{ TON}/2,000 \text{ LBS}) = 0.01 \text{ TONS}$					
ACTUAL PM10 TONS = 0.02 TONS					
ACTUAL SO2 TONS = 0.07 TONS					
ACTUAL NOX TONS = 0.43 TONS					
ACTUAL VOC TONS = 0.01 TONS					
ACTUAL CO TONS = 0.11 TONS					