**Form INV-2 Emission Point Description**

<table>
<thead>
<tr>
<th>1. Company/Facility Name</th>
<th>ACME HOSPITAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Form INV-2 Page</td>
<td>1 of 1</td>
</tr>
</tbody>
</table>

3. Release Point Identifier

4. Is this release point used as an emergency bypass stack?  
   - No ☒  
   - Yes ☐

   If YES, for which release point(s)? List release point identifiers:

5. Release Point Type
   - Downward-facing Vent ☐
   - Indoor Vented ☐
   - Fugitive (specify) ☒
   - Vertical ☒
   - Goose Neck ☐
   - Vertical with Rain Cap ☒
   - Horizontal ☐

6. Release Point Description
   - DIESEL GENERATOR STACK

7. Operating Status
   - Operating ☒
   - Permanently Shutdown ☐
   - Temporarily Shutdown ☐

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: 0.5 feet
    - Rectangular Dimensions: feet x feet

11. Composition Of Exhaust Stream
    - Exhaust Stream Characteristics
    - Release Point Composition of Exhaust Stream
    - Units of Measure

12. Temperature
    - 400 Degree Fahrenheit

13. Flow Rate
    - 7,795 ACFM

14. Bypass Stacks
    - Bypass Stack – Release Point Identifier
    - Bypass Stack Description
    - Bypass Stack – Release Point Identifier
    - Bypass Stack Description

15. 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**

<table>
<thead>
<tr>
<th>1. Company/Facility Name</th>
<th>ACME HOSPITAL</th>
<th>2. Form INV-4 Page</th>
<th>1</th>
<th>of</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Emission Unit Identifier</td>
<td>EU-001</td>
<td>7. SCC Number</td>
<td>20200401</td>
<td>8. Description of Process</td>
<td>DIESEL COMBUSTION</td>
</tr>
</tbody>
</table>

**Annual Throughput**

9. **Annual Throughput** 266

10. **Throughput Unit of Measure** MMBTU

11. **Throughput Type (Input, Output, or Existing)** I

12. **Throughput Material** DIESEL FUEL

**Actual Operating Rate/Schedule**

13. **Average Hours/Day** 1.06

14. **Average Days/Week** 1

15. **Average Weeks/Year** 8

16. **Actual Hours For Year** 8.5

**Seasonal Operations**

17. **January, February & December (%)** 25.5

18. **March, April & May (%)** 23.5

19. **June, July & August (%)** 23.5

20. **September, October & November (%)** 27.5

**Associated Control Devices**

21. **Control Device Identifier**

22. **Control Device Description**

23. **Control Device Identifier**

24. **Control Device Description**

**ACTUAL EMISSIONS**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PM-2.5</td>
<td>0.05</td>
<td>LBS/MMBTU</td>
<td>WEBFIRE</td>
<td></td>
<td></td>
<td></td>
<td>0.01</td>
</tr>
<tr>
<td>PM-10</td>
<td>0.14</td>
<td>LBS/MMBTU</td>
<td>DNR MEMO</td>
<td></td>
<td></td>
<td></td>
<td>0.02</td>
</tr>
<tr>
<td>SO₂</td>
<td>1.01</td>
<td>LBS/MMBTU</td>
<td>AP-42</td>
<td>0.5</td>
<td></td>
<td></td>
<td>0.07</td>
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<tr>
<td>NOX</td>
<td>3.2</td>
<td>LBS/MMBTU</td>
<td>AP-42</td>
<td></td>
<td></td>
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<td>0.43</td>
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<tr>
<td>VOC</td>
<td>0.0819</td>
<td>LBS/MMBTU</td>
<td>AP-42</td>
<td></td>
<td></td>
<td></td>
<td>0.01</td>
</tr>
<tr>
<td>CO</td>
<td>0.85</td>
<td>LBS/MMBTU</td>
<td>AP-42</td>
<td></td>
<td></td>
<td></td>
<td>0.11</td>
</tr>
<tr>
<td>Lead</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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

1. **Company/Facility Name**: ACME HOSPITAL
2. **Form INV-5 Page**: 1 of 1
3. **Release Point Identifier**: EP-001
4. **Emission Unit Identifier**: EU-001
5. **SCC Number**: 20200401

Calculations are provided in support of information reported on Form INV – 4 for the SCC Number listed above.

### 6. Emissions Calculations

**Process**: DIESEL GENERATOR > 600 BHP

**Fuel**: DIESEL FUEL

**Actual Throughput**: 266 MMBTU

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emissions Factors from AP-42 (SCC Number 20200102)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM-2.5</td>
<td>0.05 LBS PER MMBTU BURNED</td>
</tr>
<tr>
<td>PM-10</td>
<td>0.14 LBS PER MMBTU BURNED</td>
</tr>
<tr>
<td>SO2</td>
<td>1.01S (S = 0.5) LBS PER MMBTU BURNED</td>
</tr>
<tr>
<td>NOX</td>
<td>3.2 LBS PER MMBTU BURNED</td>
</tr>
<tr>
<td>VOC</td>
<td>0.0819 LBS PER MMBTU BURNED</td>
</tr>
<tr>
<td>CO</td>
<td>0.85 LBS PER MMBTU BURNED</td>
</tr>
</tbody>
</table>

**Calculations**:  

- Actual PM-2.5 Tons
  
  \[
  \text{ACTUAL PM-2.5 TONS} = \frac{\text{Actual throughput}}{1000} \times \text{Emission factor} \times \frac{1}{2000} = 0.01 \text{ TONS}
  \]

- 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