

FORM INV-2 EMISSION POINT DESCRIPTION

1. Company/Facility Name		ACME CORPORATION			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 type="checkbox"/>			
Goose Neck	<input type="checkbox"/>				Vertical with Rain Cap	<input type="checkbox"/>			
Horizontal	<input checked="" type="checkbox"/>								
6. Release Point Description		WELDING VENT							
7. Operating Status		Operating <input type="checkbox"/>	<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		12	feet						
10. Stack Shape and Dimensions: (interior dimensions at exit point)									
Circular Diameter:		<input type="checkbox"/>	feet						
Rectangular Dimensions:		<input checked="" type="checkbox"/>	0.67	feet	x	0.83	feet		
Composition Of Exhaust Stream									
Exhaust Stream Characteristics		Release Point Composition of Exhaust Stream				Units of Measure			
11. Temperature		68				Degree Fahrenheit			
12. Flow Rate		900				<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 CORPORATION			2. Form INV-4 Page		1	of	1
3. Release Point Identifier		EP-001							
4. Release Point Description		WELDING VENT							
5. Emission Year		2017							
6. Emission Unit Identifier		EU-001							
7. SCC Number		30905212							
8. Description of Process		GMAW							
<b>Annual Throughput</b>									
9. Annual Throughput		40							
10. <a href="#">Throughput Unit of Measure</a>		1,000 LBS							
11. Throughput Type (Input, Output, or Existing)		I							
12. <a href="#">Throughput Material</a>		ELECTRODE E308							
<b>Actual Operating Rate/Schedule</b>									
13. Average Hours/Day		8							
14. Average Days/Week		6							
15. Average Weeks/Year		52							
16. Actual Hours For Year		2,496							
<b>Seasonal Operations</b>									
17. January, February & December (%)		25							
18. March, April & May (%)		25							
19. June, July & August (%)		25							
20. September, October & November (%)		25							
<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	5.4	LBS/1000LBS	AP-42				0.11		
PM-10	5.4	LBS/1000LBS	AP-42				0.11		
SO <sub>2</sub>									
NOX									
VOC									
CO									
Lead									
Ammonia									

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

**25**

Chromium Comp	0.524	LBS/1000LBS	AP-42				0.01
Manganese Comp	0.346	LBS/1000LBS	AP-42				0.01
Nickel Comp	0.184	LBS/1000LBS	AP-42				0.00

**\*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 CORPORATION	<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>	30905212																
<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: GAS METAL ARC WELDING																	
FUEL: ELECTRODE E308																	
ACTUAL THROUGHPUT: 40 1,000 POUNDS																	
<table> <thead> <tr> <th>POLLUTANT</th> <th>EMISSION FACTORS FROM AP-42 (SCC NUMBER 30905212)</th> </tr> </thead> <tbody> <tr> <td>PM-2.5</td> <td>5.4 LBS PER 1,000 POUNDS</td> </tr> <tr> <td>PM-10</td> <td>5.4 LBS PER 1,000 POUNDS</td> </tr> <tr> <td>CHROMIUM COMPOUNDS</td> <td>0.524 LBS PER 1,000 POUNDS</td> </tr> <tr> <td>MANGANESE COMPOUNDS</td> <td>0.346 LBS PER 1,000 POUNDS</td> </tr> <tr> <td>NICKEL COMPOUNDS</td> <td>0.184 LBS PER 1,000 POUNDS</td> </tr> </tbody> </table>						POLLUTANT	EMISSION FACTORS FROM AP-42 (SCC NUMBER 30905212)	PM-2.5	5.4 LBS PER 1,000 POUNDS	PM-10	5.4 LBS PER 1,000 POUNDS	CHROMIUM COMPOUNDS	0.524 LBS PER 1,000 POUNDS	MANGANESE COMPOUNDS	0.346 LBS PER 1,000 POUNDS	NICKEL COMPOUNDS	0.184 LBS PER 1,000 POUNDS
POLLUTANT	EMISSION FACTORS FROM AP-42 (SCC NUMBER 30905212)																
PM-2.5	5.4 LBS PER 1,000 POUNDS																
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<p>CALCULATIONS</p> <p>ACTUAL PM-2.5 TONS  <math>(40 \text{ 1,000 POUNDS}) * (5.4 \text{ LBS}/1,000 \text{ POUNDS}) * (1 \text{ TON}/2,000 \text{ LBS}) = 0.11 \text{ TONS}</math></p> <p>ACTUAL PM10 TONS = 0.11            CHROMIUM COMPOUNDS TONS = 0.01            MANGANESE COMPOUNDS = 0.01            NICKEL COMPOUNDS = 0.00</p>																	