METHOD 22 VISIBLE EMISSIONS (VE) MONITORING INSTRUCTIONS for:

- DRY ABRASIVE BLASTING – (Objects > 8 feet without PM control equipment)
- WELDING OPERATIONS – (MFHAP consumable usage > 2,000 lbs/rolling 12 months)


What equipment do I need?
- You need two stopwatches (SW1 and SW2). They must be the accumulative type and must measure to at least ½ of a second.
- A Method 22 VE Observation Log Sheet (attached).

Where do I stand to look for visible emissions?
- For indoor operations (welding and/or abrasive blasting), you must perform visual determinations at the primary vent, stack, exit, or opening from the building housing the operation.
- For outdoor abrasive blasting, observe at the fence line or property border nearest to the outdoor abrasive blasting operation.
- Choose a location with a clear view of the potential emissions point. Make sure it is safe - not in the way of moving equipment -- and does not pose any other safety hazard.
- The method recommends that you stand no closer than 15 feet and no farther away than ¼ mile from the emissions point.
- Pick a spot where the sunlight is not shining directly into your eyes.

How long do I have to observe for emissions?
- The duration of each EPA Method 22 determination for 6X Tier 1 monitoring is at least 15 minutes.

What if visible emissions are observed?

Dry Abrasive Blasting Operations:
If visible emissions are “present” (i.e., emissions are visible for more than 6 minutes of accumulated time during the 15 minute monitoring period), you must:
- Perform corrective action until visible emissions are eliminated
- Perform a follow-up Method 22 VE observation

Welding Operations:
If visible emissions are “present” (i.e., emissions are visible for more than 6 minutes of accumulated time during the 15 minute monitoring period), you must:
- Perform corrective action (e.g., inspect welding sources, evaluate fume control measures implemented at the facility)
- Perform a follow-up Method 22 VE observation
# METHOD 22 VISIBLE EMISSIONS MONITORING

**RECORD LOG**

<table>
<thead>
<tr>
<th>Company name:</th>
<th>Observer:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td></td>
</tr>
<tr>
<td>Date:</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Process Observed:</th>
<th>Visible emission testing frequency (circle one):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Daily     Weekly     Monthly     Quarterly</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sky conditions:</th>
<th>Wind direction:</th>
<th>Wind speed:</th>
</tr>
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<tbody>
<tr>
<td>Precipitation:</td>
<td></td>
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</tbody>
</table>

Sketch of observer position relative to the point monitored for visible emissions. Identify potential and/or actual emission points (e.g., fence line or property border nearest to the abrasive blasting operation, welding vent/stack, building ventilation fan, building door opening, etc.). Indicate location of sun relative to observer’s position.

## OBSERVATIONS

### Begin Observation

**Clock Time:** ________ am / pm

Record total time of continuous emissions:

Record total time of continuous emissions:

Record total time of continuous emissions:

Record total time of continuous emissions:

### End Observation

**Clock Time:** ________ am / pm

(15 min. later)

**TOTAL ACCUMULATED TIME EMISSIONS OBSERVED***:

*Immediate corrective action is required if the total accumulated emissions time is greater than 6 minutes.*