

# Ferroalloy Production Monitoring Checklist

United States  
Environmental Protection  
Agency

## Final Rule: Mandatory Reporting of Greenhouse Gases

### *What Must Be Monitored for Each Electric Arc Furnace (EAF)?*

#### **If NOT using a CEMS, measure these additional parameters on a monthly basis (unless otherwise noted)...**

##### **For calculating carbon dioxide (CO<sub>2</sub>) process emissions from each furnace:**

- |  |   |
|--|---|
| <input type="checkbox"/> Mass of each reducing agent fed, charged, or otherwise introduced into the EAF (tons) | <input type="checkbox"/> Mass of each flux material fed, charged, or otherwise introduced into the EAF (tons) |
| <input type="checkbox"/> Carbon content in each reducing agent (percent by weight)                             | <input type="checkbox"/> Carbon content in each flux material (percent by weight)                             |
| <input type="checkbox"/> Mass of each carbon electrode consumed in the EAF (tons)                              | <input type="checkbox"/> Mass of each alloy product tapped from EAF (tons)                                    |
| <input type="checkbox"/> Carbon content in each carbon electrode (percent by weight)                           | <input type="checkbox"/> Carbon content in each alloy product (percent by weight)                             |
| <input type="checkbox"/> Mass of each ore charged to the EAF (tons)  | <input type="checkbox"/> Mass of each non-product outgoing material removed from EAF (tons)                   |
| <input type="checkbox"/> Carbon content in each ore (percent by weight)  | <input type="checkbox"/> Carbon content in each non-product outgoing material (percent by weight)             |
| <input type="checkbox"/> Monthly production quantity for each ferroalloy product (tons) for each EAF           | <input type="checkbox"/> Monthly and annual operating hours for each EAF                                      |

##### **For calculating CH<sub>4</sub> process emissions from each furnace:**

- Annual mass of each alloy product listed in Table K-1 produced in the EAF (tons)

#### **If using a CEMS:**

#### **In addition to the monitoring requirements under 40 CFR subpart C for the Tier 4 Calculation Methodology, measure these parameters...**

- |  |  |
|--|--|
| <input type="checkbox"/> Monthly production quantity for each ferroalloy product (tons) for each EAF | <input type="checkbox"/> Monthly and annual operating hours for each EAF |
|--|--|

See also the information sheet for Ferroalloy Production (EPA-430-F-09-034R) at:  
[www.epa.gov/climatechange/emissions/downloads/infosheets/ferroalloyproduction.pdf](http://www.epa.gov/climatechange/emissions/downloads/infosheets/ferroalloyproduction.pdf).

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