

# Hydrogen Production Monitoring Checklist



## Final Rule: Mandatory Reporting of Greenhouse Gases

### *What Must Be Monitored for Each Hydrogen Production Unit?*

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

- |   |  |
|---|--|
| <input type="checkbox"/> Volume of gaseous fuel and feedstock used (standard cubic feet [scf])  | <input type="checkbox"/> Carbon content of solid fuel and feedstock (kg C per kg of feedstock)   |
| <input type="checkbox"/> Carbon content of gaseous fuel and feedstock (kilograms [kg] C per kg of fuel and feedstock)(annually for hydrocarbons, weekly for non-hydrocarbons) | <input type="checkbox"/> Quarterly quantity of carbon dioxide collected and transferred off site in either gas, liquid, or solid forms (kg)                |
| <input type="checkbox"/> Molecular weight of gaseous fuel and feedstock (kg/kg-mole)(annually for hydrocarbons, weekly for non-hydrocarbons)                                  | <input type="checkbox"/> Annual quantity of carbon other than carbon dioxide collected and transferred off site in either gas, liquid, or solid forms (kg) |
| <input type="checkbox"/> Volume of liquid fuel and feedstock used (gallons)   | <input type="checkbox"/> Annual quantity of hydrogen produced (metric tons)  |
| <input type="checkbox"/> Carbon content of liquid fuel and feedstock (kg C per gallon)  | <input type="checkbox"/> Annual quantity of ammonia produced, if applicable (metric tons)  |
| <input type="checkbox"/> Mass of solid fuel and feedstock used (kg)   |  |

#### **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"/> Annual quantity of hydrogen produced (metric tons)   | <input type="checkbox"/> Annual quantity of ammonia produced, if applicable (metric tons)  |
| <input type="checkbox"/> Quarterly quantity of carbon dioxide collected and transferred off site in either gas, liquid, or solid forms (kg) | <input type="checkbox"/> Annual quantity of carbon other than carbon dioxide collected and transferred off site in either gas, liquid, or solid forms (kg) |

See also the information sheet for Hydrogen Production (EPA-430-F-09-027R) at:  
[www.epa.gov/ghgreporting/documents/pdf/infosheets/hydrogenproduction.pdf](http://www.epa.gov/ghgreporting/documents/pdf/infosheets/hydrogenproduction.pdf).

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