

# Hydrogen Production Monitoring Checklist



## Subpart P, Greenhouse Gas Reporting Program

### *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 or mass of gaseous fuel or feedstock used (standard cubic feet [scf] or kg)  | <input type="checkbox"/> Carbon content of solid fuel or feedstock (kg C per kg of feedstock)  |
| <input type="checkbox"/> Carbon content of gaseous fuel or feedstock (kilograms [kg] C per kg of fuel or feedstock) (annually for standard hydrocarbons, weekly for other non-standard 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 or feedstock (kg/kg-mole) (annually for standard hydrocarbons, weekly for other non-standard 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 or mass of liquid fuel or feedstock used (gallons or kg)   | <input type="checkbox"/> Annual quantity of hydrogen produced (metric tons)  |
| <input type="checkbox"/> Carbon content of liquid fuel or feedstock (kg C per gallon)  | <input type="checkbox"/> Annual quantity of ammonia produced, if applicable (metric tons)  |
| <input type="checkbox"/> Mass of solid fuel or feedstock used (kg)   | <input type="checkbox"/> Annual quantity of methanol produced, if applicable (metric 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"/> 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) |
| <input type="checkbox"/> Annual quantity of methanol produced, if applicable (metric tons)  |  |

See also the information sheet for Hydrogen Production at:

<https://www.epa.gov/ghgreporting/Information-Sheet-Subpart-P-Hydrogen-Production>

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