

Note: This monitoring checklist does not include changes from the 12/23/11 final rule 76 FR 80554 (Technical Revisions and Clarifications to subpart A and subpart W), or corrections from the pending proposed rule, "2012 Technical Corrections, Clarifying and Other Amendments to the Greenhouse Gas Reporting Rule, and Proposed Confidentiality Determinations for Certain Data Elements of the Fluorinated Gas Source Category." EPA is working to update these checklists. Additional information on the subpart W rules can be found at <http://www.epa.gov/climatechange/emissions/subpart/w.html>. Reporters should refer to the e-CFR for the final rule (http://ecfr.gpoaccess.gov/cqi/t/text/text-idx?c=ecfr&sid=9415fad5f1c7ea4d940d308e1ea74e11&tpl=/ecfrbrowse/Title40/40cfr98_main_02.tpl).

Petroleum and Natural Gas Systems

Monitoring Checklist for Natural Gas Distribution



Final Rule: Mandatory Reporting of Greenhouse Gases (40 CFR Part 98)

What must be monitored?

If emissions are going to flares, need data elements under the source flare stacks (see Monitoring Checklist for Onshore Petroleum and Natural Gas Production).

Record these parameters on an annual basis, unless specified otherwise.

1. Above Ground Meters and Regulators at Custody Transfer City Gate Stations

- | | |
|---|---|
| <input type="checkbox"/> Number of custody transfer gate stations | <input type="checkbox"/> Total number of meter runs at all above grade M&R city gate stations at custody transfer |
|---|---|

A. Connectors

- | | |
|---|---|
| <input type="checkbox"/> Operating time of leaking component (hours) | <input type="checkbox"/> Total number of components found leaking |
| <input type="checkbox"/> Report CO ₂ emissions from all connectors (standard cubic feet) | <input type="checkbox"/> Report CH ₄ emissions from all connectors (standard cubic feet) |

B. Block Valves

- | | |
|---|---|
| <input type="checkbox"/> Operating time of leaking component (hours) | <input type="checkbox"/> Total number of components found leaking |
| <input type="checkbox"/> Report CO ₂ emissions from all block valves (standard cubic feet) | <input type="checkbox"/> Report CH ₄ emissions from all block valves (standard cubic feet) |

C. Control Valves

- | | |
|---|---|
| <input type="checkbox"/> Operating time of leaking component (hours) | <input type="checkbox"/> Total number of components found leaking |
| <input type="checkbox"/> Report CO ₂ emissions from all control valves (standard cubic feet) | <input type="checkbox"/> Report CH ₄ emissions from all control valves (standard cubic feet) |

D. Pressure Relief Valves

- | | |
|---|---|
| <input type="checkbox"/> Operating time of leaking component (hours) | <input type="checkbox"/> Total number of components found leaking |
| <input type="checkbox"/> Report CO ₂ emissions from all pressure relief valves (standard cubic feet) | <input type="checkbox"/> Report CH ₄ emissions from all pressure relief valves (standard cubic feet) |

E. Orifice Meters

- | | |
|---|---|
| <input type="checkbox"/> Operating time of leaking component (hours) | <input type="checkbox"/> Total number of components found leaking |
| <input type="checkbox"/> Report CO ₂ emissions from all orifice meters (standard cubic feet) | <input type="checkbox"/> Report CH ₄ emissions from all orifice meters (standard cubic feet) |

F. Regulators

- | | |
|---|---|
| <input type="checkbox"/> Operating time of leaking component (hours) | <input type="checkbox"/> Total number of components found leaking |
| <input type="checkbox"/> Report CO ₂ emissions from all regulators (standard cubic feet) | <input type="checkbox"/> Report CH ₄ emissions from all regulators (standard cubic feet) |

G. Open Ended Lines

- | | |
|---|---|
| <input type="checkbox"/> Operating time of leaking component (hours) | <input type="checkbox"/> Total number of components found leaking |
| <input type="checkbox"/> Report CO ₂ emissions from all open ended lines (standard cubic feet) | <input type="checkbox"/> Report CH ₄ emissions from all open ended lines (standard cubic feet) |

2. Above Ground Meters and Regulators at Non-custody Transfer City Gate Stations

- | | |
|--|---|
| <input type="checkbox"/> Number of non-custody transfer gate stations | <input type="checkbox"/> Number of meter runs at non custody transfer city gate stations. |
| <input type="checkbox"/> Custody transfer gate station meter run leak factor | <input type="checkbox"/> Total time the component was found leaking and operational (hours) |

3. Below Ground Meters and Regulators and Vault Equipment Leaks

-
- | | |
|---|---|
| <input type="checkbox"/> Number of stations with inlet pressure greater than 300 psig | <input type="checkbox"/> Number of stations with inlet pressure between 100 and 300 psig. |
| <input type="checkbox"/> Number of stations with inlet pressure less than 300 psig | <input type="checkbox"/> Total time the component was found leaking and operational (hours) |

4. Pipeline Main Equipment Leaks

- | | |
|---|---|
| <input type="checkbox"/> Number of miles of mains | <input type="checkbox"/> Total time the component was found leaking and operational (hours) |
|---|---|

5. Service Line Equipment Leaks

- | | |
|---|---|
| <input type="checkbox"/> Number of services | <input type="checkbox"/> Total time the component was found leaking and operational (hours) |
|---|---|

6. Stationary Fuel Combustion Emissions

- | | |
|---|---|
| <input type="checkbox"/> Cumulative number of external fuel combustion units with a rated heat capacity equal to or less than 5 MMBtu/hr, by type of unit | <input type="checkbox"/> Cumulative number of external fuel combustion units with a rated heat capacity larger than 5 MMBtu/hr, by type of unit |
| <input type="checkbox"/> Cumulative emissions from external fuel combustion units with a rated heat capacity larger than 5 MMBtu/hr, by type of unit (cubic feet) | <input type="checkbox"/> Cumulative volume of fuel combusted in external fuel combustion units with a rated heat capacity larger than 5 MMBtu/hr, by fuel type (cubic feet) |
| <input type="checkbox"/> Cumulative number of all internal combustion units, by type of units | <input type="checkbox"/> Cumulative emissions from internal combustion units, by type of unit (cubic feet) |
| <input type="checkbox"/> Cumulative mass/volume of fuel combusted in internal combustion units, by fuel type | <input type="checkbox"/> Concentration of gas hydrocarbon constituents (such as methane, ethane, propane, butane and pentanes plus) |