
40 C.F.R. § 98.177

Records that must be retained.

In addition to the records required by § 98.3(g), you must retain the records specified in paragraphs (a) through (f) of this section, as applicable. Facilities that use CEMS to measure emissions must also retain records of the verification data required for the Tier 4 Calculating Methodology in § 98.36(e).

- (a) Records of all analyses and calculations conducted, including all information reported as required under § 98.176.
- (b) When the carbon mass balance method is used to estimate emissions for a process, the monthly mass of each process input and output that are used to determine the annual mass, except that no determination of the mass of steel output from decarburization vessels is required.
- (c) Production capacity (in metric tons per year) for the production of taconite pellets, coke, sinter, iron, and raw steel.
- (d) Annual operating hours for each taconite indurating furnace, basic oxygen furnace, non-recovery coke oven battery, sinter process, electric arc furnace, decarburization vessel, and direct reduction furnace.
- (e) Facilities must keep records that include a detailed explanation of how company records or measurements are used to determine all sources of carbon input and output and the metric tons of coal charged to the coke ovens (e.g., weigh belts, a combination of measuring volume and bulk density). You also must document the procedures used to ensure the accuracy of the measurements of fuel usage including, but not limited to, calibration of weighing equipment, fuel flow meters, coal usage including, but not limited to, calibration of weighing equipment and other measurement devices. The estimated accuracy of measurements made with these devices must also be recorded, and the technical basis for these estimates must be provided.
- (f) *Verification software records.* You must keep a record of the file generated by the verification software specified in § 98.5(b) for the applicable data specified in paragraphs (f)(1) through (9) of this section. Retention of this file satisfies the recordkeeping requirement for the data in paragraphs (f)(1) through (9) of this section.
 - (1) The data in paragraphs (f)(1)(i) through (xxv) of this section for each applicable taconite indurating furnace for which the carbon mass balance method of reporting is used.
 - (i) Annual mass of each solid fuel (metric tons) (Equation Q-1 of § 98.173).
 - (ii) Carbon content of each solid fuel, from the fuel analysis (expressed as a decimal fraction) (Equation Q-1).
 - (iii) Annual volume of each gaseous fuel (scf) (Equation Q-1).
 - (iv) Average carbon content of each gaseous fuel, from the fuel analysis results (kg C per kg of fuel) (Equation Q-1).

- (v) Molecular weight of each gaseous fuel (kg/kg-mole) (Equation Q-1).
- (vi) Annual volume of each liquid fuel (gallons) (Equation Q-1).
- (vii) Carbon content of each liquid fuel, from the fuel analysis results (kg C per gallon of fuel) (Equation Q-1).
- (viii) Annual mass of the greenball (taconite) pellets fed to the furnace (metric tons) (Equation Q-1).
- (ix) Carbon content of the greenball (taconite) pellets, from the carbon analysis results (expressed as a decimal fraction) (Equation Q-1).
- (x) Annual mass of fired pellets produced by the furnace (metric tons) (Equation Q-1).
- (xi) Carbon content of the fired pellets, from the carbon analysis results (expressed as a decimal fraction) (Equation Q-1).
- (xii) Annual mass of air pollution control residue collected (metric tons) (Equation Q-1).
- (xiii) Carbon content of the air pollution control residue, from the carbon analysis results (expressed as a decimal fraction) (Equation Q-1).
- (xiv) Annual mass of each other solid input containing carbon fed to each furnace (metric tons) (Equation Q-1).
- (xv) Carbon content of each other solid input containing carbon fed to each furnace (expressed as a decimal fraction) (Equation Q-1).
- (xvi) Annual mass of each other solid output containing carbon produced by each furnace (metric tons) (Equation Q-1).
- (xvii) Carbon content of each other solid output containing carbon (expressed as a decimal fraction) (Equation Q-1).
- (xviii) Annual mass of each other gaseous input containing carbon fed to each furnace (metric tons) (Equation Q-1).
- (xix) Carbon content of each other gaseous input containing carbon fed to each furnace (expressed as a decimal fraction) (Equation Q-1).
- (xx) Annual mass of each other gaseous output containing carbon produced by each furnace (metric tons) (Equation Q-1).
- (xxi) Carbon content of each other gaseous output containing carbon produced by each furnace (expressed as a decimal fraction) (Equation Q-1).
- (xxii) Annual mass of each other liquid input containing carbon fed to each furnace (metric tons) (Equation Q-1).
- (xxiii) Carbon content of each other liquid input containing carbon fed to each furnace (expressed as a decimal fraction) (Equation Q-1).

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