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(ii) *Hardcopy.* (A) A protocol containing methods used to perform the baseline or periodic NO_x emission test; and

(B) Unit operating parameters related to NO_x formation by the unit.

(3) For each gas-fired unit and diesel-fired unit or unit with a wet flue gas pollution control system for which the designated representative claims an opacity monitoring exemption under § 75.14, the designated representative shall include in the hardcopy monitoring plan the information specified under § 75.14(b), (c), or (d), demonstrating that the unit qualifies for the exemption.

(4) For each monitoring system recertification, maintenance, or other event, the designated representative shall include the following additional information in electronic format in the monitoring plan:

(i) Component/system identification code;

(ii) Event code or code for required test;

(iii) Event begin date and hour;

(iv) Conditionally valid data period begin date and hour (if applicable);

(v) Date and hour that last test is successfully completed; and

(vi) Indicator of whether conditionally valid data were reported at the end of the quarter.

(5) For each unit using the low mass emission excepted methodology under § 75.19 the designated representative shall include the following additional information in the monitoring plan:

(i) *Electronic.* For each low mass emissions unit, report the results of the analysis performed to qualify as a low mass emissions unit under § 75.19(c). This report will include either the previous three years actual or projected emissions and the emissions calculated using the methodology which will be used by the unit to estimate future emissions.

(ii) *Hardcopy.* (A) A schematic diagram identifying the relationship between the unit, all fuel supply lines and tanks, any fuel flowmeter(s), and the stack(s). Comprehensive and/or separate schematic diagrams shall be used to describe groups of units using a common pipe;

(B) For units which use the long term fuel flow methodology under § 75.19(c)(3), the designated representative must provide a diagram of the fuel flow to each affected unit or group of units and describe in detail the procedures used to determine the long term fuel flow for a unit or group of units for each fuel combusted by the unit or group of units;

(C) A statement that the unit burns only natural gas or fuel oil and a list of the fuels that are burned or a statement that the unit is projected to burn only natural gas or fuel oil and a list of the fuels that are projected to be burned;

(D) A statement that the unit meets the applicability requirements in §§ 75.19(a) and (b); and

(E) Any unit historical actual and projected emissions data and calculated emissions data demonstrating that the affected unit qualifies as a low mass emissions unit under §§ 75.19(a) and 75.19(b).

(6) For each gas-fired unit the designated representative shall include in the monitoring plan, in electronic format, the following: current calendar year, fuel usage data as specified in the definition of gas-fired in § 72.2 of this part, and an indication of whether the data are actual or projected data.

[58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26532, 26568, May 17, 1995; 61 FR 59161, Nov. 20, 1996; 64 FR 28605, May 26, 1999]

§ 75.54 General recordkeeping provisions.

(a) *Recordkeeping requirements for affected sources.* On and after January 1, 1996, and before April 1, 2000, the owner or operator shall meet the requirements of either this section or § 75.57. On and after April 1, 2000, the owner or operator shall meet the requirements of § 75.57. The owner or operator of any affected source subject to the requirements of this part shall maintain for each affected unit a file of all measurements, data, reports, and other information required by this part at the source in a form suitable for inspection for at least three (3) years from the date of each record. Unless otherwise provided, throughout this subpart the

phrase “for each affected unit” also applies to each group of affected or non-affected units utilizing a common stack and common monitoring systems, pursuant to §§ 75.16 through 75.18, or utilizing a common pipe header and common fuel flowmeter, pursuant to section 2.1.2 of appendix D to this part. The file shall contain the following information:

(1) The data and information required in paragraphs (b) through (g) of this section, beginning with the earlier of the date of provisional certification, or the deadline in § 75.4(a), (b) or (c);

(2) The supporting data and information used to calculate values required in paragraphs (b) through (f) of this section, excluding the subhourly data points used to compute hourly averages under § 75.10(d), beginning with the earlier of the date of provisional certification, or the deadline in § 75.4(a), (b) or (c);

(3) The data and information required in § 75.55 of this part for specific situations, as applicable, beginning with the earlier of the date of provisional certification, or the deadline in § 75.4(a), (b) or (c);

(4) The certification test data and information required in § 75.56 for tests required under § 75.20, beginning with the date of the first certification test performed, and the quality assurance and quality control data and information required in § 75.56 for tests and the quality assurance/quality control plan required under § 75.21 and appendix B of this part, beginning with the date of provisional certification;

(5) The current monitoring plan as specified in § 75.53, beginning with the initial submission required by § 75.62; and

(6) The quality control plan as described in appendix B to this part, beginning with the date of provisional certification.

(b) *Operating parameter record provisions.* The owner or operator shall record for each hour the following information on unit operating time, heat input, and load separately for each affected unit, and also for each group of units utilizing a common stack and a common monitoring system or utilizing a common pipe header and common fuel flowmeter, except that sepa-

rate heat input data for each unit shall not be required after January 1, 2000 for any unit, other than an opt-in source, that does not have a NO_x emission limitation under part 76 of this chapter.

(1) Date and hour;

(2) Unit operating time (rounded up to nearest 15 minutes);

(3) Total hourly gross unit load (rounded to nearest MWge) (or steam load in lb/hr at stated temperature and pressure, rounded to the nearest 1000 lb/hr, if elected in the monitoring plan);

(4) Operating load range corresponding to total gross load of 1-10, except for units using a common stack or common pipe header, which may use the number of unit load ranges up to 20 for flow, as specified in the monitoring plan; and

(5) Total heat input (mmBtu, rounded to the nearest tenth).

(c) *SO₂ emission record provisions.* The owner or operator shall record for each hour the information required by this paragraph for each affected unit or group of units using a common stack and common monitoring systems, except as provided under § 75.11(e) or for a gas-fired or oil-fired unit for which the owner or operator is using the optional protocol in appendix D to this part for estimating SO₂ mass emissions:

(1) For SO₂ concentration, as measured and reported from each certified primary monitor, certified back-up monitor, or other approved method of emissions determination:

(i) Component-system identification code as provided for in § 75.53;

(ii) Date and hour;

(iii) Hourly average SO₂ concentration (ppm, rounded to the nearest tenth);

(iv) Hourly average SO₂ concentration (ppm, rounded to the nearest tenth) adjusted for bias, if bias adjustment factor is required as provided for in § 75.24(d);

(v) Percent monitor data availability (recorded to the nearest tenth of a percent) calculated pursuant to § 75.32; and

(vi) Method of determination for hourly average SO₂ concentration using Codes 1-15 in table 4 of this section.

(2) For flow as measured and reported from each certified primary monitor,

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certified back-up monitor or other approved method of emissions determination:

- (i) Component/system identification code as provided for in § 75.53;
- (ii) Date and hour;
- (iii) Hourly average volumetric flow rate (in scfh, rounded to the nearest thousand);
- (iv) Hourly average volumetric flow rate (in scfh, rounded to the nearest thousand) adjusted for bias, if bias adjustment factor required as provided for in § 75.24(d);
- (v) Hourly average moisture content of flue gases (percent, rounded to the nearest tenth) where SO₂ concentration is measured on dry basis;
- (vi) Percent monitor data availability (recorded to the nearest tenth of a percent), calculated pursuant to § 75.32; and
- (vii) Method of determination for hourly average flow rate using Codes 1-15 in table 4.

(3) For SO₂ mass emissions as measured and reported from the certified primary monitoring system(s), certified redundant or non-redundant back-up monitoring system(s), or other approved method(s) of emissions determination:

- (i) Date and hour;
- (ii) Hourly SO₂ mass emissions (lb/hr, rounded to the nearest tenth);
- (iii) Hourly SO₂ mass emissions (lb/hr, rounded to the nearest tenth) adjusted for bias, if bias adjustment factor required, as provided for in § 75.24(d); and
- (iv) Identification code for emissions formula used to derive hourly SO₂ mass emissions from SO₂ concentration and flow data in paragraphs (c)(1) and (c)(2) of this section as provided for in § 75.53.

TABLE 4—CODES FOR METHOD OF EMISSIONS AND FLOW DETERMINATION

Code	Hourly emissions/flow measurement or estimation method
1	Certified primary emission/flow monitoring system.
2	Certified back-up emission/flow monitoring system.
3	Approved alternative monitoring system.
4	Reference method: SO ₂ : Method 6C. Flow: Method 2. NO _x : Method 7E. CO ₂ or O ₂ : Method 3A.

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TABLE 4—CODES FOR METHOD OF EMISSIONS AND FLOW DETERMINATION—Continued

Code	Hourly emissions/flow measurement or estimation method
5	For units with add-on SO ₂ and/or NO _x emission controls: SO ₂ concentration or NO _x emission rate estimate from Agency preapproved parametric monitoring method.
6	Average of the hourly SO ₂ concentrations, CO ₂ concentrations, flow, or NO _x emission rate for the hour before and the hour following a missing data period.
7	Hourly average SO ₂ concentration, CO ₂ concentration, flow rate, or NO _x emission rate using initial missing data procedures.
8	90th percentile hourly SO ₂ concentration, flow rate, or NO _x emission rate.
9	95th percentile hourly SO ₂ concentration, flow rate, or NO _x emission rate.
10	Maximum hourly SO ₂ concentration, flow rate, or NO _x emission rate.
11	Hourly average flow rate or NO _x emission rate in corresponding load range.
12	Maximum potential concentration of SO ₂ , maximum potential flow rate, or maximum potential NO _x emission rate, as determined using section 2.1 of appendix A of this part, or maximum CO ₂ concentration.
13	Other data (specify method).
14	Minimum CO ₂ concentration of 5.0 percent CO ₂ or maximum O ₂ concentration of 14.0 percent to be substituted optionally for measured diluent gas concentrations during unit startup, for NO _x emission rate or SO ₂ emission rate in lb/mmBtu or for CO ₂ concentration.
15	Fuel analysis data from appendix G of this part for CO ₂ mass emissions.

(d) *NO_x emission record provisions.* The owner or operator shall record the information required by this paragraph for each affected unit for each hour, except for a gas-fired peaking unit or oil-fired peaking unit for which the owner or operator is using the optional protocol in appendix E to this part for estimating NO_x emission rate. For each NO_x emission rate as measured and reported from the certified primary monitor, certified back-up monitor, or other approved method of emissions determination:

- (1) Component/system identification code as provided for in § 75.53;
- (2) Date and hour;
- (3) Hourly average NO_x concentration (ppm, rounded to the nearest tenth);
- (4) Hourly average diluent gas concentration (percent O₂ or percent CO₂, rounded to the nearest tenth);
- (5) Hourly average NO_x emission rate (lb/mmBtu, rounded to nearest hundredth);

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(6) Hourly average NO_x emission rate (lb/mmBtu, rounded to nearest hundredth) adjusted for bias, if bias adjustment factor is required as provided for in § 75.24(d);

(7) Percent monitoring system data availability, (recorded to the nearest tenth of a percent), calculated pursuant to § 75.32;

(8) Method of determination for hourly average NO_x emission rate using Codes 1-15 in table 4; and

(9) Identification code for emissions formula used to derive hourly average NO_x emission rate, as provided for in § 75.53.

(e) *CO₂ emission record provisions.* The owner or operator shall record or calculate CO₂ emissions for each affected unit using one of the following methods specified in this section:

(1) If the owner or operator chooses to use a CO₂ continuous emission monitoring system (including an O₂ monitor and flow monitor as specified in appendix F of this part), then the owner or operator shall record for each hour the following information for CO₂ mass emissions, as measured and reported from the certified primary monitor, certified back-up monitor, or other approved method of emissions determination:

(i) Component/system identification code as provided for in § 75.53;

(ii) Date and hour;

(iii) Hourly average CO₂ concentration (in percent, rounded to the nearest tenth);

(iv) Hourly average volumetric flow rate (scfh, rounded to the nearest thousand scfh);

(v) Hourly CO₂ mass emissions (tons/hr, rounded to the nearest tenth);

(vi) Percent monitor data availability (recorded to the nearest tenth of a percent); calculated pursuant to § 75.32;

(vii) Method of determination for hourly CO₂ mass emissions using Codes 1-15 in table 4; and

(viii) Identification code for emissions formula used to derive average hourly CO₂ mass emissions, as provided for in § 75.53.

(2) As an alternative to § 75.54(e)(1), the owner or operator may use the procedures in § 75.13 and in appendix G to this part, and shall record daily the fol-

lowing information for CO₂ mass emissions:

(i) Date;

(ii) Daily combustion-formed CO₂ mass emissions (tons/day, rounded to the nearest tenth);

(iii) For coal-fired units, flag indicating whether optional procedure to adjust combustion-formed CO₂ mass emissions for carbon retained in flyash has been used and, if so, the adjustment;

(iv) For a unit with a wet flue gas desulfurization system or other controls generating CO₂, daily sorbent-related CO₂ mass emissions (tons/day, rounded to the nearest tenth); and

(v) For a unit with a wet flue gas desulfurization system or other controls generating CO₂, total daily CO₂ mass emissions (tons/day, rounded to the nearest tenth) as sum of combustion-formed emissions and sorbent-related emissions.

(f) *Opacity records.* The owner or operator shall record opacity data as specified by the State or local air pollution control agency. If the State or local air pollution control agency does not specify recordkeeping requirements for opacity, then record the information required by paragraphs (f) (1) through (5) of this section for each affected unit, except as provided for in § 75.14 (b), (c), and (d). The owner or operator shall also keep records of all incidents of opacity monitor downtime during unit operation, including reason(s) for the monitor outage(s) and any corrective action(s) taken for opacity, as measured and reported by the continuous opacity monitoring system:

(1) Component/system identification code;

(2) Date, hour, and minute;

(3) Average opacity of emissions for each six minute averaging period (in percent opacity);

(4) If the average opacity of emissions exceeds the applicable standard, then a code indicating such an exceedance has occurred; and

(5) Percent monitor data availability, recorded to the nearest tenth of a percent, calculated according to the requirements of the procedure recommended for State Implementation Plans in appendix M of part 51 of this chapter.

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(g) *Missing data records.* The owner or operator shall record the causes of any missing data periods and the actions taken by the owner or operator to cure such causes.

[60 FR 26533, May 17, 1995, as amended at 64 FR 28608, May 26, 1999]

§ 75.55 General recordkeeping provisions for specific situations.

Before April 1, 2000, the owner or operator shall meet the requirements of either this section or § 75.58. On and after April 1, 2000, the owner or operator shall meet the requirements of § 75.58.

(a) *Specific SO₂ emission record provisions for units with qualifying Phase I technology.* In addition to the SO₂ emissions information required in § 75.54(c), from January 1, 1997, through December 31, 1999, the owner or operator shall record the applicable information in this paragraph for each affected unit on which SO₂ emission controls have been installed and operated for the purpose of meeting qualifying Phase I technology requirements pursuant to § 72.42 of this chapter and § 75.15.

(1) For units with post-combustion emission controls:

(i) Component/system identification codes for each inlet and outlet SO₂-diluent continuous emission monitoring system;

(ii) Date and hour;

(iii) Hourly average inlet SO₂ emission rate (lb/mmBtu, rounded to nearest hundredth);

(iv) Hourly average outlet SO₂ emission rate (lb/mmBtu, rounded to nearest hundredth);

(v) Percent data availability for both inlet and outlet SO₂-diluent continuous emission monitoring systems (recorded to the nearest tenth of a percent), calculated pursuant to equation 8 of § 75.32 (for the first 8,760 unit operating hours following initial certification) and equation 9 of § 75.32, thereafter; and

(vi) Identification code for emissions formula used to derive hourly average inlet and outlet SO₂ mass emissions rates for each affected unit or group of units using a common stack.

(2) For units with combustion and/or pre-combustion emission controls:

(i) Component/system identification codes for each outlet SO₂-diluent continuous emission monitoring system;

(ii) Date and hour;

(iii) Hourly average outlet SO₂ emission rate (lb/mmBtu, rounded to nearest hundredth);

(iv) For units with combustion controls, average daily inlet SO₂ emission rate (lb/mmBtu, rounded to nearest hundredth), determined by coal sampling and analysis procedures in § 75.15; and

(v) For units with pre-combustion controls (i.e., fuel pretreatment), fuel analysis demonstrating the weight, sulfur content, and gross calorific value of the product and raw fuel lots.

(b) *Specific parametric data record provisions for calculating substitute emissions data for units with add-on emission controls.* In accordance with § 75.34, the owner or operator of an affected unit with add-on emission controls shall either record the applicable information in paragraph (b)(3) of this section for each hour of missing SO₂ concentration data or NO_x emission rate (in addition to other information), or shall record the information in paragraph (b)(1) of this section for SO₂ or paragraph (b)(2) of this section for NO_x through an automated data acquisition and handling system, as appropriate to the type of add-on emission controls:

(1) For units with add-on SO₂ emission controls petitioning to use or using the optional parametric monitoring procedures in appendix C of this part, for each hour of missing SO₂ concentration or volumetric flow data:

(i) The information required in § 75.54(c) for SO₂ concentration and volumetric flow if either one of these monitors is still operating;

(ii) Date and hour;

(iii) Number of operating scrubber modules;

(iv) Total feedrate of slurry to each operating scrubber module (gal/min);

(v) Pressure differential across each operating scrubber module (inches of water column);

(vi) For a unit with a wet flue gas desulfurization system, an inline measure of absorber pH for each operating scrubber module;

(vii) For a unit with a dry flue gas desulfurization system, the inlet and