operating conditions subject to the Administrator's approval. This period shall include the time during which the emission test required by §61.13 is conducted.

- (2) Calculate 6-minute averages of the opacity readings using 36 or more consecutive data points equally spaced over each 6-minute period.
- (3) Calculate 1-hour average opacity values using 10 successive 6-minute average opacity values (i.e., calculate a new 1-hour average opacity value every 6 minutes). Determine the highest 1-hour average opacity value observed during the 36-hour preplanned test period.
- (4) Calculate the reference opacity level by adding 5 percent opacity to the highest 1-hour average opacity calculated in paragraph (c)(3) of this section.
- (d) The owner or operator may redetermine the reference opacity level for the copper converter secondary emission stream at the time of each emission test that demonstrates compliance with the emission limit required in §61.172(c) according to the provisions of paragraphs (c)(1) through (c)(4) of this section.
- (e) With a minimum of 30 days prior notice, the Administrator may require the owner or operator to redetermine the reference opacity level for any monitored emission stream.
- (f) Each owner or operator who is required to install the equipment specified in §61.172(b)(1) for the capture of secondary copper converter emissions shall install, calibrate, maintain, and operate a continuous monitoring device on each secondary hood system for the measurement of the air flow through the horizontal-slotted plenum and through the exhaust hood. Each device shall be installed and operational no later than 90 days after the effective date of this subpart for a source that has an initial startup preceding the effective date; and no later than 90 days after startup for other
- (g) Each owner or operator subject to the requirements in paragraph (f) of this section shall establish for each secondary hood system reference air flow rates for the horizontal-slotted plenum and exhaust hood for each

mode of converter operation. The reference flow rates shall be established when the equipment is operating under the optimum operating conditions required in §61.172(b)(2)(ii).

(h) Each owner or operator shall install the continuous monitoring systems and monitoring devices required in paragraphs (a) and (f) of this section in such a manner that representative measurements of emissions and process parameters are obtained.

§61.176 Recordkeeping requirements.

- (a) Each owner or operator subject to the requirements of §61.172(b)(1) shall maintain at the source for a period of at least 2 years records of the visual inspections, maintenance, and repairs performed on each secondary hood system as required in §61.172(b)(3).
- (b) Each owner or operator subject to the provisions of §61.172(c) shall maintain at the source for a period of at least 2 years and make available to the Administrator upon request a file of the following records:
- (1) All measurements, including continuous monitoring for measurement of opacity;
- (2) Records of emission test data and all calculations used to produce the required reports of emission estimates to demonstrate complaince with §61.172(c);
- (3) All continuous monitoring system performance evaluations, including calibration checks and adjustments;
- (4) The occurrence and duration of all startups, shutdowns, and malfunctions of the copper converters;
- (5) All malfunctions of the air pollution control system;
- (6) All periods during which any continuous monitoring system or device is inoperative;
- (7) All maintenance and repairs performed on each air pollution control system, continuous monitoring system, or monitoring device;
- (8) All records of 1-hour average opacity levels for each separate control device; and
- (9) For each secondary hood system:
- (i) The reference flow rates for the horizontal-slotted plenum and exhaust hood for each converter operating mode established under §61.175(g);
 - (ii) The actual flow rates; and

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- (iii) A daily log of the start time and duration of each converter operating mode.
- (c) Each owner or operator subject to the provisions of this subpart shall maintain at the source for a period of at least 2 years and make available to the Administrator upon request the following records:
- (1) For each copper converter, a daily record of the amount of copper matte and lead matte charged to the copper converter and the total hours of operation
- (2) For each copper converter department, a monthly record of the weight percent of arsenic contained in the copper matte and lead matte as determined under §61.174(f).
- (3) For each copper converter department, the monthly calculations of the average annual arsenic charging rate for the preceding 12-month period as determined under §61.174(f).

§ 61.177 Reporting requirements.

- (a) Each owner or operator subject to the provisions of §61.172(c) shall:
- (1) Provide the Administrator 30 days prior notice of the emission test required in §61.174(a) to afford the Administrator the opportunity to have an observer present; and
- (2) Submit to the Administrator a written report of the results of the emission test required in §61.174(a) within 60 days after conducting the test.
- (b) Each owner or operator subject to the provisions of §61.175(a) shall provide the Administrator at least 30 days prior notice of each reference opacity level determination required in §61.175(c) to afford the Administrator the opportunity to have an observer present.
- (c) Each owner or opertor subject to the provisions of §61.175(a) shall submit to the Administrator:
- (1) Within 60 days after conducting the evaluation required in §61.175(a)(1), a written report of the continuous monitoring system evaluation;
- (2) Within 30 days after establishing the reference opacity level required in §61.175(c), a written report of the reference opacity level. The report shall also include the opacity data used and the calculations performed to deter-

- mine the reference opacity level, and sufficient documentation to show that process and emission control equipment were operating normally during the reference opacity level determination; and
- (3) A written report each quarter of each occurrence of excess opacity during the quarter. For purposes of this paragraph, an occurrence of excess opacity is any 1-hour period during which the average opacity, as measured by the continuous monitoring system, exceeds the reference opacity level established under §61.175(c).
- (d) The owner or operator subject to the provisions of §61.175(g) shall submit to the Administrator:
- (1) A written report of the reference air flow rate within 30 days after establishing the reference air flow rates required in §61.175(g);
- (2) A written report each quarter of all air flow rates monitored during the preceding 3-month period that are less than 80 percent of the corresponding reference flow rate established for each converter operating mode; and
- (3) A written report each quarter of any changes in the operating conditions of the emission capture system, emission control device, or the building housing the converters that might increase fugitive emissions.
- (e) All quarterly reports shall be postmarked by the 30th day following the end of each 3-month period and shall include the following information:
- (1) The magnitude of each occurrence of excess opacity, any conversion factor(s) used, and the dates and times of commencement and completion of each occurrence of excess opacity, the cause of each exceedance of the reference opacity level, and the measures taken to minimize emissions.
- (2) The magnitude of each occurrence of reduced flow rate and the date and time of commencement and completion of each occurrence of reduced flow rate, the cause of the reduced flow rate, and the associated converter operating mode.
- (3) Specific identification of each occurrence of excess opacity or reduced flow rate that occurs during startups, shutdowns, and malfunctions of the source.