

SUBPART QQ - Standards of Performance for the Graphic Arts Industry:
Publication Rotogravure Printing (Delegation Effective 12/22/83)

RULE 260.430. APPLICABILITY AND DESIGNATION OF AFFECTED FACILITY

- (a) Except as provided in Section (b) of this rule, the affected facility to which the provisions of this subpart apply is each publication rotogravure printing press.
- (b) The provisions of this subpart do not apply to proof presses.
- (c) Any facility under Section (a) of this rule that commences construction, modification, or reconstruction after October 28, 1980 is subject to the requirements of this subpart.

RULE 260.431. DEFINITIONS AND NOTATIONS

All terms used in this subpart that are not defined below have the meaning given to them in the Act and in Subpart A of this Regulation.

- (a) "**Automatic Temperature Compensator**" means a device that continuously senses the temperature of fluid flowing through a metering device and automatically adjusts the registration of the measured volume to the corrected equivalent volume at a base temperature.
- (b) "**Base Temperature**" means an arbitrary reference temperature for determining liquid densities or adjusting the measured volume of a liquid quantity.
- (c) "**Density**" means the mass of a unit volume of liquid, expressed as grams per cubic centimeter, kilograms per liter, or pounds per gallon, at a specified temperature.
- (d) "**Gravure Cylinder**" means a printing cylinder with an intaglio image consisting of minute cells or indentations specially engraved or etched into the cylinder's surface to hold ink when continuously revolved through a fountain of ink.
- (e) "**Performance Averaging Period**" means 30 calendar days, one calendar month, or four consecutive weeks as specified in sections of this subpart.
- (f) "**Proof Press**" means any device used only to check the quality of the image formation of newly engraved or etched gravure cylinders and prints only non-saleable items.
- (g) "**Publication Rotogravure Printing Press**" means any number of rotogravure printing units capable of printing simultaneously on the same continuous web or substrate and includes any associated device for continuously cutting and folding the printed web, where the following saleable paper products are printed:

- (i) Catalogues, including mail order and premium;

- (ii) Direct mail advertisements, including circulars, letters, pamphlets, cards, and printed envelopes;
- (iii) Display advertisements, including general posters, outdoor advertisements, car cards, window posters; counter and floor displays; point-of-purchase, and other printed display material;
- (iv) Magazines;
- (v) Miscellaneous advertisements, including brochures, pamphlets, catalogue sheets, circular folders, announcements, package inserts, book jackets, market circulars, magazine inserts, and shopping news;
- (vi) Newspapers, magazine and comic supplements for newspapers, and preprinted newspaper inserts, including hi-fi and spectacolor rolls and sections;
- (vii) Periodicals, and
- (viii) Telephone and other directories, including business reference services.
- (h) "**Raw Ink**" means all purchased ink.
- (i) "**Related Coatings**" means all non-ink purchased liquids and liquid solid mixtures containing VOC solvent, usually referred to as extenders or varnishes, that are used at publication rotogravure printing presses.
- (j) "**Rotogravure Printing Unit**" means any device designed to print one color ink on one side of a continuous web or substrate using a gravure cylinder.
- (k) "**Solvent-Borne Ink Systems**" means ink and related coating mixtures whose volatile portion consists essentially of VOC solvent with not more than five weight percent water, as applied to the gravure cylinder.
- (l) "**Solvent Recovery System**" means an air pollution control system by which VOC solvent vapors in air or other gases are captured and directed through a condenser(s) or a vessel(s) containing beds of activated carbon or other adsorbents. For the condensation method, the solvent is recovered directly from the condenser. For the adsorption method, the vapors are adsorbed, then desorbed by steam or other media, and finally condensed and recovered.
- (m) "**VOC**" means volatile organic compound.
- (n) "**VOC Solvent**" means an organic liquid or liquid mixture consisting of VOC components.

(o) "**Waterborne Ink Systems**" means ink and related coating mixtures whose volatile portion consists of a mixture of VOC solvent and more than five weight percent water, as applied to the gravure cylinder.

Symbols used in this subpart are defined as follows:

D_a = the density at the base temperature of VOC solvent used or recovered during one performance averaging period.

D_{ci} = the density of each color of raw ink and each related coating (i) used at the subject facility (or facilities), at the coating temperature when the volume of coating used is measured.

D_{di} = the density of each VOC solvent (i) added to the ink for dilution at the subject facility (or facilities) at the solvent temperature when the volume of cleaning solvent used is measured.

D_{hi} = the density of each quantity of water (i) added at the subject facility (or facilities) for dilution of waterborne ink systems at the water temperature when the volume of dilution water used is measured.

D_{gi} = the density of each VOC solvent (i) used as a cleaning agent at the subject facility (facilities), at the solvent temperature when the volume of cleaning solvent used is measured.

D_{mi} = the density of each quantity of VOC solvent and miscellaneous solvent borne waste inks and waste VOC solvents (i) recovered from the subject facility (or facilities), at the solvent temperature when the volume of solvent recovered is measured.

D_{oi} = the density of the VOC solvent contained in each raw ink and related coating (i) used at the subject facility (or facilities), at the coating temperature when the volume of coating used is measured.

D_{wi} = the density of the water contained in each waterborne raw ink and related coating (i) used at the subject facility (or facilities), at the coating temperature when the volume of coating used is measured.

L_{ci} = the measured liquid volume of each color of raw ink and each related coating (i) used at the facility of a corresponding VOC content, V_{oi} or W_{oi} , with a VOC density, D_{oi} , and a coating density, D_{ci} .

L_{di} = the measured liquid volume of each VOC solvent (i) with corresponding density, D_{di} , added to dilute the ink used at the subject facility (or facilities) during one performance averaging period.

- L_{gi} = the measured liquid volume of each VOC solvent (i) with a corresponding density, D_{gi} , used as a cleaning agent at the subject facility (or facilities) during one performance averaging period.
- L_{hi} = the measured liquid volume of each quantity of water (i) with a corresponding density, D_{hi} , added for dilution with waterborne ink systems used at the subject facility (or facilities) during one performance averaging period.
- L_{mi} = the measured liquid volume of each VOC solvent and miscellaneous solvent-borne waste inks and waste VOC solvents (i) with a corresponding density, D_{mi} , recovered from the subject facility (or facilities) during one performance averaging period.
- L_o = the total liquid volume, density-corrected to the base temperature, of VOC solvent contained in the raw inks and related coatings used at the subject facility during one performance averaging period.
- L_r = the total liquid volume, density-corrected to the base temperature, of VOC solvent recovered from the subject facility (or facilities) during one performance averaging period.
- L_t = the total volume, density-corrected to the base temperature, of VOC solvent used at the subject facility (or facilities) during one performance averaging period.
- M_{ci} = the mass, determined by direct weighing, of each color of raw ink and each related coating (i) used at the subject facility (or facilities).
- M_d = the mass, determined by direct weighing, of VOC solvent added to dilute the ink used at the subject facility (or facilities) during one performance averaging period.
- M_g = the mass, determined by direct weighing, of VOC solvent used as a cleaning agent at the subject facility (or facilities) during one performance averaging period.
- M_h = the mass, determined by direct weighing, of water added for dilution with waterborne ink systems used at the subject facility (or facilities) during one performance averaging period.
- M_m = the mass, determined by direct weighing, of VOC solvent and miscellaneous solvent-borne waste inks and waste VOC solvents recovered from the subject facility (or facilities) during one performance averaging period.
- M_o = the total mass of VOC solvent contained in the raw inks and related coatings used at the subject facility (or facilities) during one performance averaging period.
- M_r = the total mass of VOC solvent recovered from the subject facility (or facilities) during one performance averaging period.

- M_t = the total mass of VOC solvent used at the subject facility (or facilities) during one performance averaging period.
- M_V = the total mass of water used with waterborne ink systems at the subject facility (or facilities) during one performance averaging period.
- M_W = the total mass of water contained in the waterborne raw inks and related coatings used at the subject facility (or facilities) during one performance averaging period.
- P = the average VOC emission percentage for the subject facility (or facilities) during one performance averaging period.
- V_{oi} = the liquid VOC content, expressed as volume fraction of VOC volume per total volume of coating, of each color of raw ink and related coating (i) used at the subject facility (or facilities).
- V_{wi} = the water content, expressed as a volume fraction of water volume per total volume of coating of each color of waterborne raw ink and related coating (i) used at the subject facility (or facilities).
- W_{oi} = the VOC content, expressed as a weight fraction of mass of VOC per total mass of coating, of each color of raw ink and related coating (i) used at the subject facility (or facilities).
- W_{wi} = the water content, expressed as a weight fraction of mass of water per total mass of coating, of each color of waterborne raw ink and related coating (i) used at the subject facility (or facilities).

The following subscripts are used in this subpart with the above symbols to denote the applicable facility:

- a = affected facility.
- b = both affected and existing facilities controlled in common by the same air pollution control equipment.
- e = existing facility.
- f = all affected and existing facilities located within the same plant boundary.

RULE 260.432. STANDARD FOR VOLATILE ORGANIC COMPOUNDS

During the period of the performance test required to be conducted by Rule 260.8 and after the date required for completion of the test, no owner or operator subject to the provisions

of this subpart shall cause to be discharged into the atmosphere from any affected facility VOC equal to more than 16 percent of the total mass of VOC solvent and water used at that facility during any one performance averaging period. The water used includes only that water contained in the waterborne raw inks and related coatings and the water added for dilution with waterborne ink systems.

RULE 260.433. PERFORMANCE TEST AND COMPLIANCE PROVISIONS

(a) The owner or operator of any affected facility (or facilities) shall conduct performance tests in accordance with Rule 260.8, under the following conditions:

(1) The performance averaging period for each test is 30 consecutive calendar days and not an average of three separate runs as prescribed under Rule 260.8(f).

(2) Except as provided under Sections (f) and (g) of this rule, if affected facilities routinely share the same raw ink storage/handling system with existing facilities, then temporary measurement procedures for segregating the raw inks, related coatings, VOC solvent, and water used at the affected facilities must be employed during the test. For this case, an overall emission percentage for the combined facilities as well as for only the affected facilities must be calculated during the test.

(3) For the purpose of measuring bulk storage tank quantities of each color of raw ink and each related coating used, the owner or operator of any affected facility shall install, calibrate, maintain, and continuously operate during the test one or more --

(i) Non-resettable totalizer metering device(s) for indicating the cumulative liquid volumes used at each affected facility; or

(ii) Segregated storage tanks for each affected facility to allow determination of the liquid quantities used by measuring devices other than the press meters required under item (i) of this section; or

(iii) Storage tanks to serve more than one facility with the liquid quantities used determined by measuring devices other than press meters, if facilities are combined as described under Sections (d), (f), or (g) of this rule.

(4) The owner or operator may choose to install an automatic temperature compensator with any liquid metering device used to measure the raw inks, related coatings, water, or VOC solvent used, or VOC solvent recovered.

(5) Records of the measured amounts used at the affected facility and the liquid temperature at which the amounts were measured are maintained for each shipment of all purchased material or on at least a weekly basis for --

(i) The raw inks and related coatings used;

(ii) The VOC and water content of each raw ink and related coating used as determined according to Rule 260.435;

(iii) The VOC solvent and water added to the inks used;

(iv) The VOC solvent used as a cleaning agent; and

(v) The VOC solvent recovered.

(6) The density variations with temperature of the raw inks, related coatings, VOC solvents used, and VOC solvent recovered are determined by the methods stipulated in Rule 260.435(d).

(7) The calculated emission percentage may be reported as rounded-off to the nearest whole number.

(8) Printing press startups and shutdowns are not included in the exemption provisions under Rule 260.8(c). Frequent periods of press startups and shutdowns are normal operations and constitute representative conditions for the purpose of a performance test.

(b) If an affected facility uses waterborne ink systems or a combination of waterborne and solvent borne ink systems with a solvent recovery system, compliance is determined by the following procedures, except as provided in Sections (d), (e), (f), and (g) of this rule.

(1) The mass of VOC in the solvent-borne and waterborne raw inks and related coatings used is determined by the following equations:

$$(M_O)_a = \sum_{i=1}^k (M_{ci})_a (W_{oi})_a + \sum_{i=1}^m (L_{ci})_a (D_{ci})_a (W_{oi})_a + \sum_{i=1}^n (L_{ci})_a (V_{oi})_a (D_{oi})_a$$

where:

k is the total number of raw inks and related coatings measured as used in direct mass quantities with different amounts of VOC content.

m is the total number of raw inks and related coatings measured as used by volume with different amounts of VOC content or different densities.

n is the total number of raw inks and related coatings measured as used by volume with different amounts of VOC content or different VOC solvent densities.

(2) The total mass of VOC used is determined by the following equation:

$$(M_t)_a = (M_o)_a + \sum_{i=1}^m (L_{di})_a (D_{di})_a + (M_d)_a + \sum_{i=1}^n (L_{gi})_a (D_{gi})_a + (M_g)_a$$

where "m" and "n" are the respective total numbers of VOC dilution and cleaning solvents measured as used by volume with different densities.

(3) The mass of water in the waterborne raw inks and related coatings used is determined by the following equation:

$$(M_w)_a = \sum_{i=1}^k (M_{ci})_a (W_{wi})_a + \sum_{i=1}^m (L_{ci})_a (D_{ci})_a (W_{wi})_a + \sum_{i=1}^a (L_{ci})_a (V_{wi})_a (D_{wi})_a$$

k is the total number of raw inks and related coatings measured as used in direct mass quantities with different amounts of water content.

m is the total number of raw inks and related coatings measured as used by volume with different amounts of water content or different densities.

n is the total number of raw inks and related coatings measured as used by volume with different amounts of water content or different water densities.

(4) The total mass of water used is determined by the following equation:

$$(M_v)_a = (M_w)_a + (M_h)_a + \sum_{i=1}^m (L_{hi})_a (D_{hi})_a$$

where "m" is the total number of water dilution additions measured as used by volume with different densities.

(5) The total mass of VOC solvent recovered is determined by the following equation:

$$(M_r)_a = (M_m)_a + \sum_{i=1}^k (L_{mi})_a (D_{mi})_a$$

where "k" is the total number of VOC solvents, miscellaneous solvent-borne waste inks, and waste VOC solvents measured as recovered by volume with different densities.

(6) The average VOC emission percentage for the affected facility is determined by the following equation:

$$P_a = \left[\frac{(M_t)_a - (M_r)_a}{(M_t)_a + (M_v)_a} \right] \times 100$$

(c) If an affected facility controlled by a solvent recovery system uses only solvent-borne ink systems, the owner or operator may choose to determine compliance on a direct mass or a density-corrected liquid volume basis. Except as provided in Sections (d), (e), (f), and (g) of this rule, compliance is determined as follows:

(1) On a direct mass basis, compliance is determined according to Section (b) of this rule, except that the water term, M_v , does not apply.

(2) On a density-corrected liquid volume basis, compliance is determined by the following procedures:

(i) A base temperature corresponding to that for the largest individual amount of VOC solvent used or recovered from the affected facility, or other reference temperature, is chosen by the owner or operator.

(ii) The corrected liquid volume of VOC in the raw inks and related coatings used is determined by the following equation:

$$(L_o)_a = \sum_{i=1}^k \frac{(M_{ci})_a (W_{oi})_a}{DB} + \sum_{i=1}^m \frac{(L_{ci})_a (D_{ci})_a (W_{oi})_a}{DB} + \sum_{i=1}^n \frac{(L_{ci})_a (V_{oi})_a (D_{oi})_a}{DB}$$

where,

k is the total number of raw inks and related coatings measured as used in direct mass quantities with different amounts of VOC content.

m is the total number of raw inks and related coatings measured as used by volume with different amounts of VOC content or different densities.

n is the total number of raw inks and related coatings measured as used by volume with different amounts of VOC content or different VOC solvent densities.

(iii) The total corrected liquid volume of VOC used is determined by the following equation:

$$(L_r)_a = (L_o)_a + \sum_{i=1}^m \frac{(L_{di})_a (D_{di})_a}{DB} + \frac{(M_d)_a}{DB} + \sum_{i=1}^n \frac{(L_{gi})_a (D_{gi})_a}{DB} + \frac{(M_g)_a}{DB}$$

where "m" and "n" are the respective total numbers of VOC dilution and cleaning solvents measured as used by volume with different densities.

(iv) The total corrected liquid volume of VOC solvent recovered is determined by the following equation:

$$(L_r)_a = \frac{(M_m)_a}{D_B} + \sum_{i=1}^k \frac{(L_{mi})_a (D_{mi})_a}{D_B}$$

where "k" is the total number of VOC solvents, miscellaneous solvent-borne waste inks, and waste VOC solvents measured as recovered by volume with different densities.

(v) The average VOC emission percentage for the affected facility is determined by the following equation:

$$P_a = \left[\frac{(L_t)_a - (L_r)_a}{(L_t)_a} \right] \times 100$$

(d) If two or more affected facilities are controlled by the same solvent recovery system, compliance is determined by the procedures specified in Sections (b) or (c) of this rule, whichever applies, except that $(L_t)_a$ and $(L_r)_a$, $(M_t)_a$, $(M_r)_a$, and $(M_v)_a$, are the collective amounts of VOC solvent and water corresponding to all the affected facilities controlled by that solvent recovery system. The average VOC emission percentage for each of the affected facilities controlled by that same solvent recovery system is assumed to be equal.

(e) Except as provided under Section (f) of this rule, if an existing facility (or facilities) and an affected facility (or facilities) are controlled in common by the same solvent recovery system, the owner or operator shall determine compliance by conducting a separate emission test on the existing facility (or facilities) and then conducting a performance test on the combined facilities as follows:

(1) Before the initial startup of the affected facility (or facilities) and at any other time as requested by the Control Officer, the owner or operator shall conduct emission test(s) on the existing facility (or facilities) controlled by the subject solvent recovery system. The solvent recovery system must handle VOC emissions from only the subject existing facility (or facilities), not from affected facilities, during the emission test.

(2) During the emission test, the affected facilities are subject to the standard stated in Rule 260.432.

(3) The emission test is conducted over a 30 consecutive calendar day averaging period according to the conditions stipulated in Rule 260.433(a)(1) through (a)(5), except that the conditions pertain to only existing facilities instead of affected facilities.

(4) The owner or operator of the existing facility (or facilities) shall provide the Control Officer at least 30 days prior notice of the emission test to afford the Control Officer the opportunity to have an observer present.

(5) The emission percentage for the existing facility (or facilities) during the emission test is determined by one of the following procedures.

(i) If the existing facility (or facilities) uses a combination of waterborne and solvent-borne ink systems, the average VOC emission percentage must be determined on a direct mass basis according to Sections (b) or (d) of this rule, whichever applies, with the following equation:

$$P_e = \left[\frac{(M_t)_e - (M_r)_e}{(M_t)_e + (M_v)_e} \right] \times 100$$

where the water and VOC solvent amounts pertain to only existing facilities.

(ii) If the existing facility (or facilities) used only solvent-borne ink systems, the owner or operator may choose to determine the emission percentage either on a direct mass basis or a density-corrected liquid volume basis according to Section (c) or (d) of this rule, whichever applies. On a direct mass basis, the average VOC emission percentage is determined by the equation presented in Subsection (e)(5)(i) of this rule. On a density-corrected liquid volume basis, the average VOC emission percentage is determined by the following equation:

$$P_e = \left[\frac{(L_t)_e - (L_r)_e}{(L_t)_e} \right] \times 100$$

where the VOC solvent amounts pertain to only existing facilities.

(6) The owner or operator of the existing facility (or facilities) shall furnish the Control Officer a written report of the results of the emission test.

(7) After completion of the separate emission test on the existing facility (or facilities), the owner or operator shall conduct performance test(s) on the combined facilities with the solvent recovery system handling VOC emissions from both the existing and affected facilities.

(8) During performance test(s), the emission percentage for the existing facility (or facilities), P_e , is assumed to be equal to that determined in the latest emission test. The Control Officer may request additional emission tests if any physical or operational changes occur to any of the subject existing facilities.

(9) The emission percentage for the affected facility (or facilities) during performance test(s) with both existing and affected facilities connected to the solvent recovery system is determined by one of the following procedures:

(i) If any of the combined facilities uses both waterborne and solvent-borne ink systems, the average VOC emission percentage must be determined on a direct mass basis according to Sections (b) or (d) of this rule, whichever applies, with the following equation:

$$P_a = \left\{ \frac{(M_t)_b - (M_r)_b - \left(\frac{P_e}{100}\right) [(M_t)_e + (M_v)_e]}{(M_t)_a + (M_v)_a} \right\} \times 100$$

where $(M_t)_b$ and $(M_r)_b$ are the collective VOC solvent amounts pertaining to all the combined facilities.

(ii) If all of the combined facilities use only solvent-borne ink systems, the owner or operator may choose to determine performance of the affected facility (or facilities) either on a direct mass basis or a density-corrected liquid volume basis according to Sections (c) or (d) of this rule, whichever applies.

On a direct mass basis, the average VOC emission percentage is determined by the equation presented in Subsection (e)(9)(i) of this rule. On a density-corrected liquid volume basis, the average VOC emission percentage is determined by the following equation:

$$P_a = \left[\frac{(L_t)_b - (L_r)_b - (L_t)_e \left(\frac{P_e}{100}\right)}{(L_t)_a} \right] \times 100$$

where $(L_t)_b$ and $(L_r)_b$ are the collective VOC solvent amounts pertaining to all the combined facilities.

(f) The owner or operator may choose to show compliance of the combined performance of existing and affected facilities controlled in common by the same solvent recovery system. A separate emission test for existing facilities is not required for this option. The combined performance is determined by one of the following procedures:

(1) If any of the combined facilities uses both waterborne and solvent-borne ink systems, the combined average VOC emission percentage must be determined on a direct mass basis according to Sections (b) or (d) of this rule, whichever applies with the following equation:

$$P_b = \left[\frac{(M_t)_b - (M_r)_b}{(M_t)_b + (M_v)_b} \right] \times 100$$

(2) If all of the combined facilities use only solvent-borne ink systems, the owner or operator may choose to determine performance either on a direct mass basis or a density-corrected liquid volume basis according to Sections (c) or (d) of this rule, whichever applies. On a direct mass basis, the average VOC emission percentage is determined by the equation presented in Subsection (f)(1) of this rule. On a density corrected liquid volume basis, the average VOC emission percentage is determined by the following equation:

$$P_b = \left[\frac{(L_t)_b - (L_r)_b}{(L_t)_b} Y \right] \times 100$$

(g) If all existing and affected facilities located within the same plant boundary use waterborne ink systems or solvent-borne ink systems with solvent recovery systems, the owner or operator may choose to show compliance on a plantwide basis for all the existing and affected facilities together. No separate emission tests on existing facilities and no temporary segregated liquid measurement procedures for affected facilities are required for this option. The plantwide performance is determined by one of the following procedures.

(1) If any of the facilities use waterborne ink systems, the total plant average VOC emission percentage must be determined on a direct mass basis according to Subsection (b) of this rule with the following equation:

$$P_f = \left[\frac{(M_t)_f - (M_r)_a - (M_r)_e - (M_r)_b}{(M_t)_f + (M_v)_f} \right] \times 100$$

where $(M_t)_f$ and $(M_v)_f$ are the collective VOC solvent and water amounts used at all the subject plant facilities during the performance test.

(2) If all the plant facilities use only solvent-borne ink systems, the owner or operator may choose to determine performance either on a direct mass basis or a density-corrected liquid volume basis according to Subsection (c) of this rule. On a direct mass basis, the total plant average VOC emission percentage is determined by the equation presented in Subsection (i) of this rule. On a density-corrected liquid volume basis the total plant average VOC emission percentage is determined by the following equation:

$$P_f = \left[\frac{(L_t)_f - (L_r)_a - (L_r)_e - (L_r)_b}{(L_t)_f} \right] \times 100$$

where $(L_t)_f$ is the collective VOC solvent amount used at all the subject plant facilities during the performance test.

[Sec. 114 of the Clean Air Act as amended (42 U.S.C. 7414)]

RULE 260.434. MONITORING OF OPERATIONS AND RECORDKEEPING

(a) After completion of the performance test required under Rule 260.8, the owner or operator of any affected facility using waterborne ink systems or solvent-borne ink systems with solvent recovery systems shall record the amount of solvent and water used, solvent recovered, and estimated emission percentage for each performance averaging period and shall maintain these records for 2 years. The emission percentage is estimated as follows:

(1) The performance averaging period for monitoring of proper operation and maintenance is a calendar month or 4 consecutive weeks, at the option of the owner or operator.

(2) If affected facilities share the same raw ink storage/handling system with existing facilities, solvent and water used, solvent recovered, and emission percentages for the combined facilities may be documented. Separate emission percentages for only the affected facilities are not required in this case. The combined emission percentage is compared to the overall average for the existing and affected facilities' emission percentage determined during the most recent performance test.

(3) Except as provided in Subsection (a)(4) of this rule, temperatures and liquid densities determined during the most recent performance test are used to calculate corrected volumes and mass quantities.

(4) The owner or operator may choose to measure temperatures for determination of actual liquid densities during each performance averaging period. A different base temperature may be used for each performance averaging period if desired by the owner or operator.

(5) The emission percentage is calculated according to the procedures under Rule 260.433(b) through (g), whichever applies, or by a comparable calculation which compares the total solvent recovered to the total solvent used at the affected facility.

RULE 260.435. TEST METHODS

Performance tests shall be conducted as specified in Part 60, Chapter I, Title 40, Code of Federal Regulations, Section 60.435.