

Chapter NR 463

CHROMIUM EMISSIONS FROM HARD AND DECORATIVE CHROMIUM ELECTROPLATING AND CHROMIUM ANODIZING TANKS

NR 463.01	Applicability and designation of sources; purpose.	NR 463.08	Alternative control devices.
NR 463.02	Definitions.	NR 463.09	Performance test requirements and test methods.
NR 463.03	Nomenclature, units and abbreviations.	NR 463.10	Preconstruction review requirements for new and reconstructed sources.
NR 463.04	Emission limits.	NR 463.11	Recordkeeping requirements.
NR 463.05	Operation and maintenance practices.	NR 463.12	Reporting requirements.
NR 463.06	Compliance provisions.		
NR 463.07	Monitoring to demonstrate continuous compliance.		

NR 463.01 Applicability and designation of sources; purpose. (1) **APPLICABILITY.** This chapter applies to the owners and operators of hard chromium electroplating tanks, decorative chromium electroplating tanks and chromium anodizing tanks.

(a) The affected source to which this chapter applies is each chromium electroplating or chromium anodizing tank at facilities performing hard chromium electroplating, decorative chromium electroplating or chromium anodizing.

(b) Owners or operators of affected sources subject to this chapter are also subject to the requirements of ch. NR 460, according to the applicability of ch. NR 460 to these sources as identified in Appendix N of ch. NR 460.

(c) Process tanks associated with a chromium electroplating or chromium anodizing process, but in which neither chromium electroplating nor chromium anodizing takes place, are not subject to this chapter. Examples of these tanks include, but are not limited to, rinse tanks, etching tanks and cleaning tanks. Likewise, tanks that contain a chromium solution, but in which no electrolytic process occurs, are not subject to this chapter. An example of such a tank is a chrome conversion coating tank where no electrical current is applied.

(d) Affected sources in which research and laboratory operations are performed are exempt from this chapter when these operations are taking place.

(e) An owner or operator of any affected source subject to this chapter which is not exempt under s. NR 407.03 (1) (km) is subject to part 70 permit requirements under ch. NR 407.

(2) **PURPOSE.** This chapter is adopted under ss. 285.11, 285.13, 285.27 (2) and 285.65, Stats., to establish emission standards for hard chromium electroplating tanks, decorative chromium electroplating tanks, and chromium anodizing tanks in order to protect air quality.

Note: This chapter is based on the federal regulations contained in 40 CFR part 63 Subpart N, created January 25, 1995, as last revised on June 3, 1996.

History: Cr. Register, September, 1997, No. 501, eff. 10-1-97.

NR 463.02 Definitions. For terms not defined in this section, the definitions contained in chs. NR 400 and 460 apply to the terms used in this chapter, with definitions in ch. NR 460 taking priority over definitions in ch. NR 400. In addition, the definitions in this section apply to the terms used in this chapter. If this section defines a term which is also defined in ch. NR 400 or 460, the definition in this section applies in this chapter rather than the definition in ch. NR 400 or 460.

(1) "Add-on air pollution control device" means equipment installed in the ventilation system of chromium electroplating and anodizing tanks for the purposes of collecting and containing chromium emissions from the tanks.

(2) "Air pollution control technique" means any method, such as an add-on air pollution control device or a chemical fume suppressant, that is used to reduce chromium emissions from chromium electroplating and chromium anodizing tanks.

(3) "Base metal" means the metal or metal alloy that comprises the workpiece.

(4) "Bath component" means the trade, brand or chemical name of each component in trivalent chromium plating baths.

Note: Since for trivalent chromium baths, the bath composition is proprietary in most cases, the trade or brand name for each component may be used. However, ss. NR 463.11 (1) (n) and 463.12 (9) (a) 3. require identification by chemical name of the wetting agent contained in that component.

(5) "Chemical fume suppressant" means any chemical agent that reduces or suppresses fumes or mists at the surface of an electroplating or anodizing bath.

Note: Another term for fume suppressant is mist suppressant.

(6) "Chromic acid" means the common name for chromium anhydride (CrO₃).

(7) "Chromium anodizing" means the electrolytic process by which an oxide layer is produced on the surface of a base metal for functional purposes, such as corrosion resistance or electrical insulation, using a chromic acid solution. In chromium anodizing, the part to be anodized acts as the anode in the electrical circuit, and the chromic acid solution, with a concentration typically ranging from 50 to 100 grams per liter (g/L), serves as the electrolyte.

(8) "Chromium electroplating tank" or "chromium anodizing tank" means the receptacle or container in which hard or decorative chromium electroplating or chromium anodizing occurs.

(9) "Composite mesh-pad system" means an add-on air pollution control device typically consisting of several mesh-pad stages. The purpose of the first stage is to remove large particles. Smaller particles are removed in the second stage, which consists of the composite mesh pad. A final stage may remove any reentrained particles not collected by the composite mesh pad.

(10) "Decorative chromium electroplating" means the process by which a thin layer of chromium (typically 0.003 to 2.5 μm) is electrodeposited on a base metal, plastic or undercoating to provide a bright surface with wear and tarnish resistance. In this process, the part serves as the cathode in the electrolytic cell and the solution serves as the electrolyte. Typical current density applied during this process ranges from 540 to 2,400 amperes per square meter (A/m²) for total plating times ranging between 0.5 to 5 minutes.

(11) "Electroplating or anodizing bath" means the electrolytic solution used as the conducting medium in which the flow of current is accompanied by movement of metal ions for the purposes of electroplating metal out of the solution onto a workpiece or for oxidizing the base material.

(12) "Emission limitation" means the concentration of total chromium allowed to be emitted expressed in milligrams per dry standard cubic meter (mg/dscm), or the allowable surface tension expressed in dynes per centimeter (dynes/cm).

(13) "Existing" means any hard chromium electroplating tank, decorative chromium electroplating tank or chromium anodizing tank the construction or reconstruction of which was commenced on or before December 16, 1993.

(14) "Facility" means the major or area source at which chromium electroplating or chromium anodizing is performed.

(15) "Fiber-bed mist eliminator" means an add-on air pollution control device that removes contaminants from a gas stream through the mechanisms of inertial impaction and Brownian diffusion. These devices are typically installed downstream of another control device, which serves to prevent plugging, and consist of one or more fiber beds. Each bed consists of a hollow cylinder formed from 2 concentric screens; the fiber between the screens may be fabricated from glass, ceramic plastic or metal.

(16) "Foam blanket" means the type of chemical fume suppressant that generates a layer of foam across the surface of a solution when current is applied to that solution.

(17) "Fresh water" means water, such as tap water, that has not been previously used in a process operation or, if the water has been recycled from a process operation, it has been treated and meets the effluent guidelines for chromium wastewater.

(18) "Hard chromium electroplating" or "industrial chromium electroplating" means a process by which a thick layer of chromium (typically 1.3 to 760 μm) is electrodeposited on a base material to provide a surface with functional properties such as wear resistance, a low coefficient of friction, hardness and corrosion resistance. In this process, the part serves as the cathode in the electrolytic cell and the solution serves as the electrolyte. The hard chromium electroplating process is performed at current densities typically ranging from 1,600 to 6,500 A/m^2 for total plating times ranging from 20 minutes to 36 hours depending upon the desired plate thickness.

(19) "Hexavalent chromium" means the form of chromium in a valence state of +6.

(20) "Large, hard chromium electroplating facility" means a facility that performs hard chromium electroplating and has a maximum cumulative potential rectifier capacity greater than or equal to 60 million ampere-hours per year ($\text{A-hr}/\text{yr}$).

(21) "Maximum cumulative potential rectifier capacity" means the summation of the total installed rectifier capacity associated with the hard chromium electroplating tanks at a facility, expressed in amperes, multiplied by the maximum potential operating schedule of 8,400 hours per year and 0.7, which assumes that electrodes are energized 70% of the total operating time. The maximum potential operating schedule is based on operating 24 hours per day, 7 days per week, 50 weeks per year.

(22) "New source" or "new tank" means any hard chromium electroplating, decorative chromium electroplating or chromium anodizing source or tank the construction or reconstruction of which is commenced after December 16, 1993.

(23) "Operating parameter value" means a minimum or maximum value established for a control device or process parameter which, if achieved by itself or in combination with one or more other operating parameter values, determines that an owner or operator is in continual compliance with the applicable emission limitation or standard.

(24) "Packed-bed scrubber" means an add-on air pollution control device consisting of a single or double packed bed that contains packing media on which the chromic acid droplets impinge. The packed-bed section of the scrubber is followed by a mist eliminator to remove any water entrained from the packed-bed section.

(25) "Research or laboratory operation" means an operation whose primary purpose is for research and development of new processes and products, that is conducted under the close supervision of technically trained personnel, and that is not involved in the manufacture of products for commercial sale, except in a de minimis manner.

(26) "Small, hard chromium electroplating facility" means a facility that performs hard chromium electroplating and has a

maximum cumulative potential rectifier capacity less than 60 million $\text{A-hr}/\text{yr}$.

(27) "Stalagmometer" means a device used to measure the surface tension of a solution.

(28) "Surface tension" means the property, due to molecular forces, that exists in the surface film of all liquids and tends to prevent liquid from spreading.

(29) "Tank operation" means the use of a tank for chromium electroplating or a chromium anodizing through the application of current or voltage. Tank operation ceases when the current or voltage is turned off.

(30) "Tensiometer" means a device used to measure the surface tension of a solution.

(31) "Trivalent chromium" means the form of chromium in a valence state of +3.

(32) "Trivalent chromium process" means the process used for electrodeposition of a thin layer of chromium onto a base material using a trivalent chromium solution instead of a chromic acid solution.

(33) "Wetting agent" means the type of chemical fume suppressant that reduces the surface tension of a liquid.

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NR 463.03 Nomenclature, units and abbreviations.

The definitions contained in s. NR 400.03 apply to the abbreviations and symbols of units of measure used in this chapter. In addition, the nomenclature used in this chapter has the following meaning:

(1) AMR is the allowable mass emission rate from each type of affected source subject to the same emission limitation in milligrams per hour (mg/hr).

(2) AMR_{sys} is the allowable mass emission rate from affected sources controlled by an add-on air pollution control device controlling emissions from multiple sources in mg/hr .

(3) CMP is composite mesh-pad, a control technique.

(4) EL is the applicable emission limitation from s. NR 463.04 in milligrams per dry standard cubic meter (mg/dscm).

(5) IA_{total} is the sum of all inlet duct areas from both affected sources and sources not affected by this chapter in meters squared.

(6) IDA_i is the total inlet area for all ducts associated with affected sources in meters squared.

(7) $\text{IDA}_{i,a}$ is the total inlet duct area for all ducts conveying chromic acid from each type of affected source performing the same operation, or each type of affected source subject to the same emission limitation in meters squared.

(8) lb_f is pound-force, the unit of force in the English system.

(9) PBS is packed-bed scrubber, a control technique.

(10) VR is the total of ventilation rates for each type of affected source subject to the same emission limitation in dry standard cubic meters per minute (dscm/min).

(11) VR_{inlet} is the total ventilation rate from all inlet ducts associated with affected sources in dscm/min .

(12) $\text{VR}_{\text{inlet},a}$ is the total ventilation rate from all inlet ducts conveying chromic acid from each type of affected source performing the same operation, or each type of affected source subject to the same emission limitation in dscm/min .

(13) VR_{tot} is the average total ventilation rate for the 3 test runs as determined at the outlet by testing using Method 306 of Appendix A of 40 CFR part 63, incorporated by reference in s. NR 484.04, in dscm/min .

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NR 463.04 Emission limits. (1) MACT REQUIREMENTS.

Each owner or operator of an affected source subject to the provisions of this chapter shall comply with these requirements on and after the compliance dates specified in s. NR 463.06 (1). All

affected sources are regulated by applying maximum achievable control technology.

(2) APPLICABILITY OF EMISSION LIMITS. (a) The emission limitations in this section apply during tank operation as well as during periods of startup and shutdown as these are routine occurrences for affected sources subject to this chapter. The emission limitations do not apply during periods of malfunction. However, the work practice standards that address operation and maintenance and that are required by s. NR 463.05 shall be followed during malfunctions.

(b) If an owner or operator is controlling a group of tanks with a common add-on air pollution control device, the emission limitations of subs. (3), (4) and (5) apply whenever any one affected source is operated. The emission limitation that applies to the group of affected sources is as follows:

1. The emission limitation identified in subs. (3), (4) and (5) if the affected sources are performing the same type of operation, such as hard chromium electroplating, are subject to the same emission limitation, and are not controlled by an add-on air pollution control device also controlling sources not affected by this chapter.

2. The emission limitation calculated according to s. NR 463.09 (5) (c) if affected sources are performing the same type of operation, are subject to the same emission limitation, and are controlled with an add-on air pollution control device that is also controlling sources not affected by this chapter.

3. The emission limitation calculated according to s. NR 463.09 (5) (d) if affected sources are performing different types of operations, or affected sources are performing the same operations but subject to different emission limitations, and are controlled with an add-on air pollution control device that may also be controlling emissions from sources not affected by this chapter.

(3) STANDARDS FOR HARD CHROMIUM ELECTROPLATING TANKS. (a) During tank operation, each owner or operator of an existing, new or reconstructed hard chromium electroplating tank shall control chromium emissions discharged to the atmosphere from that affected source by not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed the following:

1. 0.015 milligrams of total chromium per dry standard cubic meter (mg/dscm) of ventilation air (6.6×10^{-6} grains per dry standard cubic foot (gr/dscf)).

2. 0.03 mg/dscm (1.3×10^{-5} gr/dscf) if the hard chromium electroplating tank is an existing affected source and is located at a small, hard chromium electroplating facility.

(b) 1. An owner or operator may demonstrate the size of a hard chromium electroplating facility by meeting the criteria of s. NR 463.02 (20) or (26). Alternatively, an owner or operator of a facility with a maximum cumulative potential rectifier capacity of 60 million A-hr/yr or more may be considered small if the actual cumulative rectifier capacity is less than 60 million A-hr/yr as demonstrated using one of the following procedures:

a. If records show that the facility's previous annual actual rectifier capacity was less than 60 million A-hr/yr, by using non-resettable ampere-hour meters and keeping monthly records of actual ampere-hour usage for each 12-month rolling period following the compliance date in accordance with s. NR 463.11 (2) (L). The actual cumulative rectifier capacity for the previous 12-month rolling period shall be tabulated monthly by adding the capacity for the current month to the capacities for the previous 11 months.

b. By accepting a federally-enforceable limit on the maximum cumulative potential rectifier capacity of a hard chromium electroplating facility and by maintaining monthly records in accordance with s. NR 463.11 (2) (L) to demonstrate that the limit has not been exceeded. The actual cumulative rectifier capacity for the previous 12-month rolling period shall be tabulated

monthly by adding the capacity for the current month to the capacities for the previous 11 months.

2. Once the monthly records required to be kept by s. NR 463.11 (2) (L) and by this paragraph show that the actual cumulative rectifier capacity over the previous 12-month rolling period corresponds to the large designation, the owner or operator is subject to the emission limitation identified in par. (a) 1., in accordance with the compliance schedule of s. NR 463.06 (1) (e).

(4) STANDARDS FOR DECORATIVE CHROMIUM ELECTROPLATING TANKS USING A CHROMIC ACID BATH AND CHROMIUM ANODIZING TANKS. During tank operation, each owner or operator of an existing, new or reconstructed decorative chromium electroplating tank using a chromic acid bath or chromium anodizing tank shall control chromium emissions discharged to the atmosphere from that affected source by one of the following:

(a) By not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed 0.01 mg/dscm (4.4×10^{-6} gr/dscf).

(b) If a chemical fume suppressant containing a wetting agent is used, by not allowing the surface tension of the electroplating or anodizing bath contained within the affected source to exceed 45 dynes per centimeter (dynes/cm) (3.1×10^{-3} pound-force per foot (lb_f/ft)) at any time during operation of the tank.

(5) STANDARDS FOR DECORATIVE CHROMIUM ELECTROPLATING TANKS USING A TRIVALENT CHROMIUM BATH. (a) Each owner or operator of an existing, new or reconstructed decorative chromium electroplating tank that uses a trivalent chromium bath that incorporates a wetting agent as a bath ingredient is subject to the recordkeeping and reporting requirements of ss. NR 463.11 (2) (n) and 463.12 (9), but is not subject to the work practice requirements of s. NR 463.05, or the continuous compliance monitoring requirements in s. NR 463.07. The wetting agent shall be an ingredient in the trivalent chromium bath components purchased from vendors.

(b) Each owner or operator of an existing, new or reconstructed decorative chromium electroplating tank that uses a trivalent chromium bath that does not incorporate a wetting agent as a bath ingredient is subject to the standards of sub. (4).

(c) Each owner or operator of existing, new or reconstructed decorative chromium electroplating tank that had been using a trivalent chromium bath that incorporates a wetting agent and ceases using this type of bath shall fulfill the reporting requirements of s. NR 463.12 (9) (c) and comply with the applicable emission limitation within the timeframe specified in s. NR 463.06 (1) (f).

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NR 463.05 Operation and maintenance practices.

(1) WORK PRACTICE STANDARDS. All owners or operators subject to the standards in s. NR 463.04 (3) and (4) are subject to the following work practice standards:

(a) At all times, including periods of startup, shutdown and malfunction, owners or operators shall operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the operation and maintenance plan required by sub. (2).

(b) Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the operation and maintenance plan required by sub. (2).

(c) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the department, which may include, but is not limited to, monitoring results; review of the operation and maintenance plan, procedures and records; and inspection of the source.

(d) Based on the results of a determination made under par. (c), the department may require that an owner or operator of an affected source make changes to the operation and maintenance

plan required by sub. (2) for that source. Revisions may be required if the department finds that the plan does any of the following:

1. Does not address a malfunction that has occurred.
2. Fails to provide for the operation of the affected source, the air pollution control techniques, or the control system and process monitoring equipment during a malfunction in a manner consistent with good air pollution control practices.
3. Does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques or monitoring equipment as quickly as practicable.

Table 1
Summary of Work Practice Standards

Control technique	Work practice standards	Frequency
Composite mesh-pad (CMP) system	1. Visually inspect device to ensure there is proper drainage, no chronic acid buildup on the pads, and no evidence of chemical attack on the structural integrity of the device.	1. 1/quarter.
	2. Visually inspect back portion of the mesh pad closest to the fan to ensure there is no breakthrough of chromic acid mist.	2. 1/quarter.
	3. Visually inspect ductwork from tank to the control device to ensure there are no leaks.	3. 1/quarter.
	4. Perform washdown of the composite mesh-pads in accordance with manufacturer's recommendations.	4. Per manufacturer.
Packed-bed scrubber (PBS)	1. Visually inspect device to ensure there is proper drainage, no chronic acid buildup on the packed beds, and no evidence of chemical attack on the structural integrity of the device.	1. 1/quarter.
	2. Visually inspect back portion of the chevron blade mist eliminator to ensure that it is dry and there is no breakthrough of chromic acid mist.	2. 1/quarter.

Control technique	Work practice standards	Frequency
PBS/CMP system	3. Same as number 3 for CMP system.	3. 1/quarter.
	4. Add fresh makeup water to the top of the packed bed ^{a,b} .	4. Whenever makeup is added.
	1. Same as for CMP system.	1. 1/quarter.
	2. Same as for CMP.	2. 1/quarter.
Fiber-bed mist eliminator ^c	3. Same as for CMP system.	3. 1/quarter.
	4. Same as for CMP system.	4. Per manufacturer.
	1. Visually inspect fiber-bed unit and prefiltering device to ensure there is proper drainage, no chronic acid buildup in the units, and no evidence of chemical attack on the structural integrity of the devices.	1. 1/quarter.
	2. Visually inspect ductwork from tank or tanks to the control device to ensure there are no leaks.	2. 1/quarter.
Air pollution control device not listed in rule	3. Perform washdown of fiber elements in accordance with manufacturer's recommendations.	3. Per manufacturer
	To be proposed by the source for approval by the department.	To be proposed by the source for approval by the department.
	Monitoring Equipment	
Pitot tube	Backflush with water, or remove from the duct and rinse with fresh water. Replace in the duct and rotate 180 degrees to ensure that the same zero reading is obtained. Check pitot tube ends for damage. Replace pitot tube if cracked or fatigued.	1/quarter.
Stalagmometer	Follow manufacturer's recommendations.	

^a If greater than 50% of the scrubber water is drained, for purposes such as maintenance, makeup water may be added to the scrubber basin.

^b For horizontal-flow scrubbers, top is defined as the section of the unit directly above the packing media such that the makeup water would flow perpendicular to the air flow through the packing. For vertical-flow units, the top is defined as the area downstream of the packing material such that the makeup water would flow countercurrent to the air flow through the unit.

^c Work practice standards for the control device installed upstream of the fiber-bed mist eliminator to prevent plugging do not apply as long as the work practice standards for the fiber-bed unit are followed.

(2) OPERATION AND MAINTENANCE PLAN. (a) The owner or operator of an affected source subject to the work practices of this section shall prepare an operation and maintenance plan to be implemented no later than the compliance date. The plan shall be incorporated by reference into the source's part 70 permit, if and when a part 70 permit is required under ch. NR 407. The plan shall include all the following elements:

1. The plan shall specify the operation and maintenance criteria for the affected source, the add-on air pollution control device, if such a device is used to comply with the emission limits, and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of this equipment.

2. For sources using an add-on air pollution control device or monitoring equipment to comply with this chapter, the plan shall incorporate the work practice standards for that device or monitoring equipment, as identified in Table 1 of this chapter, if the specific equipment used is identified in Table 1.

3. If the specific equipment used is not identified in Table 1, the plan shall incorporate proposed work practice standards. These proposed work practice standards shall be submitted to the department for approval as part of the submittal required under s. NR 463.08.

4. The plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur.

5. The plan shall include a systematic procedure for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment and for implementing corrective actions to address the malfunctions.

(b) If the operation and maintenance plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the owner or operator shall revise the operation and maintenance plan within 45 days after the event occurs. The revised plan shall include procedures for operating and maintaining the process equipment, add-on air pollution control device, or monitoring equipment during similar malfunction events, and a program for corrective action for the events.

(c) Recordkeeping associated with the operation and maintenance plan is identified in s. NR 463.11 (2). Reporting associated with the operation and maintenance plan is identified in s. NR 463.12 (7) and (8) and par. (d).

(d) If actions taken by the owner or operator during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan required by par. (a), the owner or operator shall record the actions taken for that event and shall report by phone the actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event, unless the owner or operator makes alternative reporting arrangements, in advance, with the department.

(e) Each owner or operator shall keep the written operation and maintenance plan on record after it is developed to be made available for inspection, upon request, by the department for the life of the affected source or until the source is no longer subject to the provisions of this chapter. In addition, if the operation and maintenance plan is revised, the owner or operator shall keep previous versions of the operation and maintenance plan on record to be

made available for inspection, upon request, by the department for a period of 5 years after each revision to the plan.

(f) To satisfy the requirements of this subsection, the owner or operator may use applicable standard operating procedure manuals, OSHA plans or other existing plans, provided the alternative plans meet the requirements of this chapter.

(3) CHROMIC ACID BATH STANDARDS NOT MET BY USING REDUCING AGENT. The standards in s. NR 463.04 and this section that apply to chromic acid baths may not be met by using a reducing agent to change the form of chromium from hexavalent to trivalent.

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NR 463.06 Compliance provisions. (1) COMPLIANCE DATES. (a) The owner or operator of an existing affected source shall comply with the emission limitations in ss. NR 463.04 and 463.05 as follows:

1. No later than October 1, 1998, if the affected source is a decorative chromium electroplating tank.

2. No later October 1, 1999, if the affected source is a hard chromium electroplating tank or a chromium anodizing tank.

(b) The owner or operator of a new or reconstructed affected source that has an initial startup after October 1, 1997, shall comply immediately upon startup of the source. The owner or operator of a new or reconstructed affected source that has an initial startup after December 16, 1993, but before October 1, 1997, shall follow the compliance schedule of s. NR 460.05 (2) (a).

(c) The owner or operator of an existing area source that increases actual or potential emissions of hazardous air pollutants such that the area source becomes a major source shall comply with the provisions for existing major sources, including the reporting provisions of s. NR 463.12 (7), immediately upon becoming a major source.

(d) The owner or operator of a new area source that increases actual or potential emissions of hazardous air pollutants such that the area source becomes a major source shall comply with the provisions for new major sources immediately upon becoming a major source.

(e) An owner or operator of an existing hard chromium electroplating tank or tanks located at a small, hard chromium electroplating facility that increases its maximum cumulative potential rectifier capacity, or its actual cumulative rectifier capacity, such that the facility becomes a large, hard chromium electroplating facility shall comply with the requirements of s. NR 463.04 (3) (a) 1. for all hard chromium electroplating tanks at the facility no later than one year after the month in which monthly records required by ss. NR 463.04 (3) (b) and 463.11 (2) (L) show that the large designation is met, or by the compliance date specified in par. (a) 2., whichever is later.

(f) An owner or operator of a decorative chromium electroplating tank that uses a trivalent chromium bath that incorporates a wetting agent, and that ceases using the trivalent chromium process, shall comply with the emission limitation thereafter applicable to the tank within one year of switching from the bath operation.

(2) REQUEST FOR A COMPLIANCE DATE EXTENSION. An owner or operator of an affected source or sources that requests a compliance date extension shall do so in accordance with this subsection and the applicable paragraphs of s. NR 460.05 (7). When the owner or operator is requesting the extension for more than one affected source located at the facility, then only one request may be submitted for all affected sources at the facility.

(a) The owner or operator of an existing affected source who is unable to comply with a relevant standard under this chapter may request that the department grant an extension allowing the owner or operator up to one additional year to comply with the standard for the affected source. The owner or operator of an

affected source who has requested a compliance date extension under this subsection and is otherwise required to obtain a part 70 permit for the source shall apply for the permit or apply to have the part 70 permit revised to incorporate the conditions of the compliance date extension. The conditions of a compliance date extension granted under this subsection will be incorporated into the owner or operator's part 70 permit for the affected source according to 40 CFR part 70 or part 71, whichever is applicable.

(b) Any request under this subsection for an extension of compliance with a relevant standard shall be submitted in writing to the department not later than 6 months before the affected source's compliance date as specified in this section.

(3) METHODS TO DEMONSTRATE INITIAL COMPLIANCE. (a) Except as provided in pars. (b) and (c), an owner or operator of an affected source subject to the requirements of this chapter is required to conduct an initial performance test as required under s. NR 460.06, using the procedures and test methods listed in ss. NR 460.06 (2) and (5) and 463.09.

(b) If the owner or operator of an affected source meets all of the following criteria, an initial performance test is not required to be conducted under this chapter:

1. The affected source is a decorative chromium electroplating tank or a chromium anodizing tank.
2. A wetting agent is used in the plating or anodizing bath to inhibit chromium emissions from the affected source.
3. The owner or operator complies with the applicable surface tension limit of s. NR 463.04 (4) (b) as demonstrated through the continuous compliance monitoring required by s. NR 463.07 (5) (b).

(c) If the affected source is a decorative chromium electroplating tank using a trivalent chromium bath, and the owner or operator is subject to the provisions of s. NR 463.04 (5), an initial performance test is not required to be conducted under this chapter.

History: Cr. Register, September, 1997, No. 501, eff. 10-1-97.

NR 463.07 Monitoring to demonstrate continuous compliance. The owner or operator of an affected source subject to the emission limitations of this chapter shall conduct monitoring according to the type of air pollution control technique that is used to comply with the emission limitation. The monitoring required to demonstrate continuous compliance with the emission limitations is identified in this section for the air pollution control techniques expected to be used by the owners or operators of affected sources.

(1) COMPOSITE MESH-PAD SYSTEMS. (a) During the initial performance test, the owner or operator of an affected source, or a group of affected sources under common control, complying with the emission limitations in s. NR 463.04 through the use of a composite mesh-pad system shall determine the outlet chromium concentration using the test methods and procedures in s. NR 463.09 (3), and shall establish as a site-specific operating parameter the pressure drop across the system, setting the value that corresponds to compliance with the applicable emission limitation, using the procedures in s. NR 463.09 (4) (e). An owner or operator may conduct multiple performance tests to establish a range of compliant pressure drop values, or may set as the compliant value the average pressure drop measured over the 3 test runs of one performance test and accept ± 1 inch of water column from this value as the compliant range.

(b) On and after the date on which the initial performance test is required to be completed under s. NR 460.06, the owner or operator of an affected source, or group of affected sources under common control, shall monitor and record the pressure drop across the composite mesh-pad system once each day that any affected source is operating. To be in compliance with the standards in s. NR 463.04, the composite mesh-pad system shall be operated within ± 1 inch of water column of the pressure drop value established during the initial performance test, or shall be operated

within the range of compliant values for pressure drop established during multiple performance tests.

(2) PACKED-BED SCRUBBER SYSTEMS. (a) During the initial performance test, the owner or operator of an affected source, or group of affected sources under common control, complying with the emission limitations in s. NR 463.04 through the use of a packed-bed scrubber system shall determine the outlet chromium concentration using the procedures in s. NR 463.09 (3), and shall establish as site-specific operating parameters the pressure drop across the system and the velocity pressure at the common inlet of the control device, setting the value that corresponds to compliance with the applicable emission limitation using the procedures in s. NR 463.09 (4) (d) and (e). An owner or operator may conduct multiple performance tests to establish a range of compliant operating parameter values. Alternatively, the owner or operator may set as the compliant value the average pressure drop and inlet velocity pressure measured over the 3 test runs of one performance test, and accept ± 1 inch of water column from the pressure drop value and $\pm 10\%$ from the velocity pressure value as the compliant range.

(b) On and after the date on which the initial performance test is required to be completed under s. NR 460.06, the owner or operator of an affected source, or group of affected sources under common control, shall monitor and record the velocity pressure at the inlet to the packed-bed scrubber and the pressure drop across the scrubber system once each day that any affected source is operating. To be in compliance with the standards in s. NR 463.04, the scrubber system shall be operated within $\pm 10\%$ of the velocity pressure value established during the initial performance test, and within ± 1 inch of water column of the pressure drop value established during the initial performance test, or within the range of compliant operating parameter values established during multiple performance tests.

(3) PACKED-BED SCRUBBER/COMPOSITE MESH-PAD SYSTEM. The owner or operator of an affected source, or group of affected sources under common control, that uses a packed-bed scrubber in conjunction with a composite mesh-pad system to meet the emission limitations of s. NR 463.04 shall comply with the monitoring requirements for composite mesh-pad systems as identified in sub. (1).

(4) FIBER-BED MIST ELIMINATOR. (a) During the initial performance test, the owner or operator of an affected source, or group of affected sources under common control, complying with the emission limitations in s. NR 463.04 through the use of a fiber-bed mist eliminator shall determine the outlet chromium concentration using the procedures in s. NR 463.09 (3), and shall establish as a site-specific operating parameter the pressure drop across the fiber-bed mist eliminator and the pressure drop across the control device installed upstream of the fiber bed to prevent plugging, setting the value that corresponds to compliance with the applicable emission limitation using the procedures in s. NR 463.09 (4) (e). An owner or operator may conduct multiple performance tests to establish a range of compliant pressure drop values, or may set as the compliant value the average pressure drop measured over the 3 test runs of one performance test and accept ± 1 inch of water column from this value as the compliant range.

(b) On and after the date on which the initial performance test is required to be completed under s. NR 460.06, the owner or operator of an affected source, or group of affected sources under common control, shall monitor and record the pressure drop across the fiber-bed mist eliminator, and the control device installed upstream of the fiber bed to prevent plugging, once each day that any affected source is operating. To be in compliance with the standards in s. NR 463.04, the fiber-bed mist eliminator and the upstream control device shall be operated within ± 1 inch of water column of the pressure drop value established during the initial performance test, or shall be operated within the range of compli-

ant values for pressure drop established during multiple performance tests.

(5) WETTING AGENT-TYPE OR COMBINATION WETTING AGENT-TYPE/FOAM BLANKET FUME SUPPRESSANTS. (a) During the initial performance test, the owner or operator of an affected source complying with the emission limitations in s. NR 463.04 through the use of a wetting agent in the electroplating or anodizing bath shall determine the outlet chromium concentration using the procedures in s. NR 463.09 (3). The owner or operator shall establish as the site-specific operating parameter the surface tension of the bath using Method 306B in Appendix A of 40 CFR part 63, incorporated by reference in s. NR 484.04, setting the maximum value that corresponds to compliance with the applicable emission limitation. In lieu of establishing the maximum surface tension during the performance test, the owner or operator may accept 45 dynes/cm as the maximum surface tension value that corresponds to compliance with the applicable emission limitation. However, the owner or operator is exempt from conducting a performance test only if the criteria of s. NR 463.06 (3) (b) are met.

(b) On and after the date on which the initial performance test is required to be completed under s. NR 460.06, the owner or operator of an affected source shall monitor the surface tension of the electroplating or anodizing bath. Operation of the affected source at a surface tension greater than the value established during the performance test, or greater than 45 dynes/cm if the owner or operator is using this value in accordance with par. (a), shall constitute noncompliance with the standards in s. NR 463.04. The surface tension shall be monitored according to the following schedule:

1. The surface tension shall be measured once every 4 hours during operation of the tank with a stalagmometer or a tensiometer as specified in Method 306B in Appendix A of 40 CFR part 63, incorporated by reference in s. NR 484.04.

2. The time between monitoring may be increased if there have been no exceedances. The surface tension shall be measured once every 4 hours of tank operation for the first 40 hours of tank operation after the compliance date. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once every 8 hours of tank operation. Once there are no exceedances during 40 more hours of tank operation, surface tension measurement may be conducted once every 40 hours of tank operation on an ongoing basis, until an exceedance occurs. The minimum frequency of monitoring allowed by this chapter is once every 40 hours of tank operation.

3. Once an exceedance occurs as indicated through surface tension monitoring, the original monitoring schedule of once every 4 hours shall be resumed. A subsequent decrease in frequency shall follow the schedule laid out in subd. 2. For example, if an owner or operator had been monitoring an affected source once every 40 hours and an exceedance occurs, subsequent monitoring would take place once every 4 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation, monitoring may occur once every 8 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation on this schedule, monitoring may occur once every 40 hours of tank operation.

(c) Once a bath solution is drained from the affected tank and a new solution added, the original monitoring schedule of once every 4 hours shall be resumed, with a decrease in monitoring frequency allowed following the procedures of par. (b) 2. and 3.

(6) FOAM BLANKET-TYPE FUME SUPPRESSANTS. (a) During the initial performance test, the owner or operator of an affected source complying with the emission limitations in s. NR 463.04 through the use of a foam blanket in the electroplating or anodizing bath shall determine the outlet chromium concentration using the procedures in s. NR 463.09 (3), and shall establish as the site-specific operating parameter the thickness of the foam blanket, setting the minimum thickness that corresponds to compliance

with the applicable emission limitation. In lieu of establishing the minimum foam blanket thickness during the performance test, the owner or operator may accept 2.54 centimeters (1 inch) as the minimum foam blanket thickness that corresponds to compliance with the applicable emission limitation. All foam blanket measurements shall be taken in close proximity to the workpiece or cathode area in the plating tank.

(b) On and after the date on which the initial performance test is required to be completed under s. NR 460.06, the owner or operator of an affected source shall monitor the foam blanket thickness of the electroplating or anodizing bath. Operation of the affected source at a foam blanket thickness less than the value established during the performance test, or less than 2.54 cm (1 inch) if the owner or operator is using this value in accordance with par. (a), constitutes noncompliance with the standards in s. NR 463.04. The foam blanket thickness shall be measured according to the following schedule:

1. The foam blanket thickness shall be measured once every hour of tank operation.

2. The time between monitoring may be increased if there have been no exceedances. The foam blanket thickness shall be measured once every hour of tank operation for the first 40 hours of tank operation after the compliance date. Once there are no exceedances for 40 hours of tank operation, foam blanket thickness measurement may be conducted once every 4 hours of tank operation. Once there are no exceedances during 40 more hours of tank operation, foam blanket thickness measurement may be conducted once every 8 hours of tank operation on an ongoing basis, until an exceedance occurs. The minimum frequency of monitoring allowed by this chapter is once per 8 hours of tank operation.

3. Once an exceedance occurs as indicated through foam blanket thickness monitoring, the original monitoring schedule of once every hour shall be resumed. A subsequent decrease in frequency shall follow the schedule laid out in subd. 2. For example, if an owner or operator had been monitoring an affected source once every 8 hours and an exceedance occurs, subsequent monitoring would take place once every hour of tank operation. Once an exceedance does not occur for 40 hours of tank operation, monitoring may occur once every 4 hours of tank operation. Once an exceedance does not occur for 40 hours of tank operation on this schedule, monitoring may occur once every 8 hours of tank operation.

(c) Once a bath solution is drained from the affected tank and a new solution added, the original monitoring schedule of once every hour shall be resumed, with a decrease in monitoring frequency allowed following the procedures of par. (b) 2. and 3.

(7) FUME SUPPRESSANT/ADD-ON CONTROL DEVICE. (a) If the owner or operator of an affected source uses both a fume suppressant and add-on control device and both are needed to comply with the applicable emission limit, monitoring requirements as identified in subs. (1) to (6), and the work practice standards of Table 1 of this chapter, apply for each of the control techniques used.

(b) If the owner or operator of an affected source uses both a fume suppressant and add-on control device, but only one of these techniques is needed to comply with the applicable emission limit, monitoring requirements as identified in subs. (1) to (6), and work practice standards of Table 1, apply only for the control technique used to achieve compliance.

(8) USE OF AN ALTERNATIVE MONITORING METHOD. (a) Requests and approvals of alternative monitoring methods shall be considered in accordance with s. NR 460.07 (6).

(b) After receipt and consideration of an application for an alternative monitoring method, the department may approve alternatives to any monitoring methods or procedures of this chapter including, but not limited to, the following:

1. Alternative monitoring requirements when installation or use of monitoring devices specified in this chapter would not provide accurate measurements due to interferences caused by substances within the effluent gases.

2. Alternative locations for installing monitoring devices when the owner or operator can demonstrate that installation at alternate locations will enable accurate and representative measurements.

History: Cr. Register, September, 1997, No. 501, eff. 10-1-97.

NR 463.08 Alternative control devices. An owner or operator who uses an air pollution control device not listed in s. NR 463.07 shall submit a description of the device, test results collected in accordance with s. NR 463.09 (3) verifying the performance of the device for reducing chromium emissions to the atmosphere to the level required by this chapter, a copy of the operation and maintenance plan referenced in s. NR 463.05 including proposed work practice standards, and appropriate operating parameters that will be monitored to establish continuous compliance with the standards in s. NR 463.04. The monitoring plan submitted identifying the continuous compliance monitoring is subject to the department's approval.

History: Cr. Register, September, 1997, No. 501, eff. 10-1-97.

NR 463.09 Performance test requirements and test methods. (1) PERFORMANCE TEST REQUIREMENTS. Performance tests shall be conducted using the test methods and procedures in this section and s. NR 460.06. The test plan to be followed shall be made available to the department prior to the testing, if requested. Performance test results shall be documented in complete test reports that contain all of the following information:

- (a) A brief process description.
- (b) Sampling location description.
- (c) A description of sampling and analytical procedures and any modifications to standard procedures.
- (d) Test results.
- (e) Quality assurance procedures and results.
- (f) Records of operating conditions during the test, preparation of calibration standards, and calibration procedures.
- (g) Raw data sheets for field sampling and field and laboratory analyses.
- (h) Documentation of calculations.
- (i) Any other information required by the test method.

(2) USE OF OPERATION PERMIT PERFORMANCE TEST RESULTS FOR COMPLIANCE DEMONSTRATION. (a) If the owner or operator of an affected source conducts performance testing at startup to obtain an operation permit under ch. NR 407, the results of the testing may be used to demonstrate compliance with this chapter if all of the following conditions are met:

- 1. The test methods and procedures identified in sub. (3) were used during the performance test.
- 2. The performance test was conducted under representative operating conditions for the source.
- 3. The performance test report contains the elements required by sub. (1).
- 4. The owner or operator of the affected source for which the performance test was conducted has sufficient data to establish the operating parameter values that correspond to compliance with the standards in s. NR 463.04, as required for continuous compliance monitoring under s. NR 463.07.

(b) The results of tests conducted prior to December 1991 in which Method 306A in Appendix A of 40 CFR part 63, incorporated by reference in s. NR 484.04, was used to demonstrate the performance of a control technique are not acceptable.

(3) TEST METHODS. Each owner or operator subject to the provisions of this chapter and required by s. NR 463.06 (3) to conduct an initial performance test shall use the test methods identified in

this section to demonstrate compliance with the standards in s. NR 463.04.

(a) Method 306 or Method 306A in Appendix A of 40 CFR part 63, both titled "Determination of Chromium Emissions From Decorative and Hard Chromium Electroplating and Anodizing Operations," which are incorporated by reference in s. NR 484.04, shall be used to determine the chromium concentration from hard or decorative chromium electroplating tanks or chromium anodizing tanks. The sampling time and sample volume for each run of Methods 306 and 306A shall be at least 120 minutes and 1.70 dscm (60 dscf), respectively. Methods 306 and 306A allow the measurement of either total chromium or hexavalent chromium emissions. For the purposes of this chapter, sources using chromic acid baths may demonstrate compliance with the emission limits of s. NR 463.04 by measuring either total chromium or hexavalent chromium. The hexavalent chromium concentration measured by these methods is equal to the total chromium concentration for the affected operations.

(b) Method 306B in Appendix A of 40 CFR part 63, "Surface Tension Measurement and Recordkeeping for Tanks Used at Decorative Chromium Electroplating and Anodizing Facilities," incorporated by reference in s. NR 484.04, shall be used to measure the surface tension of electroplating and anodizing baths.

(c) Alternate test methods may also be used if the method has been validated using Method 301 in Appendix A of 40 CFR part 63, incorporated by reference in s. NR 484.04, and if approved by the department. Procedures for requesting and obtaining approval are contained in s. NR 460.06 (5).

(4) ESTABLISHING SITE-SPECIFIC OPERATING PARAMETER VALUES. (a) Each owner or operator required to establish site-specific operating parameters shall follow the procedures in this subsection.

(b) All monitoring equipment shall be installed such that representative measurements of emissions or process parameters from the affected source are obtained. For monitoring equipment purchased from a vendor, verification of the operational status of the monitoring equipment shall include execution of the manufacturer's written specifications or recommendations for installation, operation and calibration of the system.

1. Specifications for differential pressure measurement devices used to measure velocity pressure shall be in accordance with section 2.2 of Method 2 in Appendix A of 40 CFR part 60, incorporated by reference in s. NR 484.04.

2. Specifications for differential pressure measurement devices used to measure pressure drop across a control system shall be in accordance with manufacturer's accuracy specifications.

(c) The surface tension of electroplating and anodizing baths shall be measured using Method 306B in Appendix A of 40 CFR part 63, "Surface Tension Measurement and Recordkeeping for Tanks Used at Decorative Chromium Electroplating and Anodizing Facilities," incorporated by reference in s. NR 484.04. This method shall also be followed when wetting agent type or combination wetting agent/foam blanket type fume suppressants are used to control chromium emissions from a hard chromium electroplating tank and surface tension measurement is conducted to demonstrate continuous compliance.

(d) The owner or operator of a source required to measure the velocity pressure at the inlet to an add-on air pollution control device in accordance with s. NR 463.07 (2), shall establish the site-specific velocity pressure as follows:

- 1. Locate a velocity traverse port in a section of straight duct that connects the hooding on the plating tank or tanks with the control device. The port shall be located as close to the control system as possible, and shall be placed a minimum of 2 duct diameters downstream and 0.5 diameter upstream of any flow disturbance such as a bend, expansion or contraction (see Method 1 in Appendix A of 40 CFR part 60, incorporated by reference in s. NR

484.04). If 2.5 diameters of straight duct work does not exist, locate the port 0.8 of the distance between flow disturbances downstream and 0.2 of the distance between flow disturbances upstream from the respective flow disturbances.

2. A 12-point velocity traverse of the duct to the control device shall be conducted along a single axis according to Method 2 in Appendix A of 40 CFR part 60, incorporated by reference in s. NR 484.04, using an S-type pitot tube; measurement of the barometric pressure and duct temperature at each traverse point is not required, but is suggested. Mark the S-type pitot tube as specified in Method 1 in Appendix A of 40 CFR part 60, incorporated by reference in s. NR 484.04, with 12 points. Measure the velocity pressure (Δp) values for the velocity points and record. Determine the square root of the individual velocity point Δp values and average. The point with the square root value that comes closest to the average square root value is the point of average velocity. The Δp value measured for this point during the performance test shall be used as the reference for future monitoring.

(e) The owner or operator of a source required to measure the pressure drop across the add-on air pollution control device in accordance with s. NR 463.07 (1) to (4) may establish the pressure drop in accordance with the following guidelines:

1. Pressure taps shall be installed at any of the following locations:

a. At the inlet and outlet of the control system. In this case the inlet tap would be installed in the ductwork just prior to the control device and the corresponding outlet pressure tap would be installed on the outlet side of the control device prior to the blower or on the downstream side of the blower.

b. On each side of the packed bed within the control system or on each side of each mesh pad within the control system.

c. On the front side of the first mesh pad and back side of the last mesh pad within the control system.

2. Pressure taps shall be sited at locations that are:

a. As free from pluggage as possible and away from any flow disturbances such as cyclonic demisters.

b. Situated such that no air infiltration at the measurement site will occur that could bias the measurement.

3. Pressure taps shall be constructed of either polyethylene, polybutylene or other nonreactive materials.

4. Nonreactive plastic tubing shall be used to connect the pressure taps to the device used to measure pressure drop.

5. Any of the following pressure gauges may be used to monitor pressure drop: a magnehelic gauge, an inclined manometer or a "U" tube manometer.

6. Prior to connecting any pressure lines to the pressure gauges, each gauge shall be zeroed. No calibration of the pressure gauges is required.

(5) SPECIAL COMPLIANCE PROVISIONS FOR MULTIPLE SOURCES CONTROLLED BY A COMMON ADD-ON AIR POLLUTION CONTROL DEVICE. (a) This subsection identifies procedures for measuring the outlet chromium concentration from an add-on air pollution control device that is used to control multiple sources that may or may not include sources not affected by this chapter.

(b) When multiple affected sources performing the same type of operation (for example, all are performing hard chromium electroplating), and subject to the same emission limitation, are controlled with an add-on air pollution control device that is not controlling emissions from any other type of affected operation or from any sources not affected by this chapter, the applicable emission limitation identified in s. NR 463.04 shall be met at the outlet of the add-on air pollution control device.

(c) When multiple affected sources performing the same type of operation and subject to the same emission limitation are controlled with a common add-on air pollution control device that is also controlling emissions from sources not affected by this chap-

ter, the following procedures shall be followed to determine compliance with the applicable emission limitation in s. NR 463.04:

1. Calculate the cross-sectional area of each inlet duct (uptakes from each hood) including those not affected by this chapter.

2. Determine the total sample time per test run by dividing the total inlet area from all tanks connected to the control system by the total inlet area for all ducts associated with affected sources, and then multiply this number by 2 hours. The calculated time is the minimum sample time required per test run.

3. Perform testing using Method 306 in Appendix A of 40 CFR part 63, incorporated by reference in s. NR 484.04, and calculate an outlet mass emission rate.

4. Determine the total ventilation rate from the affected sources by using equation 1:

$$VR_{tot} \times \frac{IDA_i}{\sum IA_{total}} = VR_{inlet} \quad \text{Equation (1)}$$

where VR_{tot} is the average total ventilation rate in dscm/min for the 3 test runs as determined at the outlet by means of the Method 306 testing; IDA_i is the total inlet area for all ducts associated with affected sources; IA_{total} is the sum of all inlet duct areas from both affected sources and sources not affected by this chapter; and VR_{inlet} is the total ventilation rate from all inlet ducts associated with affected sources.

5. Establish the allowable mass emission rate of the system (AMR_{sys}) in milligrams of total chromium per hour (mg/hr) using equation 2:

$$\sum VR_{inlet} \times EL \times 60 \text{ minutes/hour} = AMR_{sys} \quad \text{Equation (2)}$$

where $\sum VR_{inlet}$ is the total ventilation rate in dscm/min from the affected sources, and EL is the applicable emission limitation from s. NR 463.04 in mg/dscm. The allowable mass emission rate (AMR_{sys}) calculated from equation 2 shall be equal to or more than the outlet 3-run average mass emission rate determined from Method 306 testing in order for the source to be in compliance with the standard.

(d) When multiple affected sources performing different types of operations (for example, hard chromium electroplating, decorative chromium electroplating or chromium anodizing) are controlled by a common add-on air pollution control device that may or may not also be controlling emissions from sources not affected by this chapter, or if the affected sources controlled by the common add-on air pollution control device perform the same operation but are subject to different emission limitations (for example, because one is a new hard chromium plating tank and one is an existing small, hard chromium plating tank), the following procedures shall be followed to determine compliance with the applicable emission limitation in s. NR 463.04:

1. Follow the steps outlined in par. (c) 1. to 3.

2. Determine the total ventilation rate for each type of affected source using equation 3:

$$VR_{tot} \times \frac{IDA_{i,a}}{\sum IA_{total}} = VR_{inlet,a} \quad \text{Equation (3)}$$

where VR_{tot} is the average total ventilation rate in dscm/min for the 3 test runs as determined at the outlet by means of the Method 306 testing; $IDA_{i,a}$ is the total inlet duct area for all ducts conveying chromic acid from each type of affected source performing the same operation, or each type of affected source subject to the same emission limitation; IA_{total} is the sum of all duct areas from both affected sources and sources not affected by this chapter; and $VR_{inlet,a}$ is the total ventilation rate from all inlet ducts conveying chromic acid from each type of affected source

performing the same operation, or each type of affected source subject to the same emission limitation.

3. Establish the allowable mass emission rate in mg/hr for each type of affected source that is controlled by the add-on air pollution control device using equation 4, 5, 6 or 7 as appropriate:

$$VR_{hc1} \times EL_{hc1} \times 60 \text{ minutes/hour} = AMR_{hc1} \quad \text{Equation (4)}$$

$$VR_{hc2} \times EL_{hc2} \times 60 \text{ minutes/hour} = AMR_{hc2} \quad \text{Equation (5)}$$

$$VR_{dc} \times EL_{dc} \times 60 \text{ minutes/hour} = AMR_{dc} \quad \text{Equation (6)}$$

$$VR_{ca} \times EL_{ca} \times 60 \text{ minutes/hour} = AMR_{ca} \quad \text{Equation (7)}$$

where "hc" applies to the total of ventilation rates for all hard chromium electroplating tanks subject to the same emission limitation, "dc" applies to the total of ventilation rates for the decorative chromium electroplating tanks, "ca" applies to the total of ventilation rates for the chromium anodizing tanks, and EL is the applicable emission limitation from s. NR 463.04 in mg/dscm. There are 2 equations for hard chromium electroplating tanks because different emission limitations may apply (for example, a new tank versus an existing, small tank).

4. Establish the allowable mass emission rate (AMR) in mg/hr for the system using equation 8, including each type of affected source as appropriate:

$$AMR_{hc1} + AMR_{hc2} + AMR_{dc} + AMR_{ca} = AMR_{sys} \quad \text{Equation (8)}$$

The allowable mass emission rate calculated from equation 8 shall be equal to or more than the outlet 3-run average mass emission rate determined from Method 306 testing in order for the source to be in compliance with the standards in s. NR 463.04.

(e) Each owner or operator that uses the special compliance provisions of this subsection to demonstrate compliance with the emission limitations of s. NR 463.04 shall submit the measurements and calculations to support these compliance methods with the notification of compliance status required by s. NR 463.12 (5).

(f) Each owner or operator that uses the special compliance provisions of this subsection to demonstrate compliance with the emission limitations of s. NR 463.04 shall repeat these procedures if a tank is added or removed from the control system regardless of whether that tank is not an affected source. If neither the new tank nor the existing tank is an affected source and the new tank replaces an existing tank of the same size and is connected to the control system through the same size inlet duct, then this procedure does not have to be repeated.

History: Cr. Register, September, 1997, No. 501, eff. 10-1-97.

NR 463.10 Preconstruction review requirements for new and reconstructed sources. (1) NEW OR RECONSTRUCTED AFFECTED SOURCES. The owner or operator of a new or reconstructed affected source which is exempt from the permit requirements of chs. NR 406 and 407 is subject to this section.

(a) No person may construct a new affected source or reconstruct an affected source subject to this chapter, or reconstruct a source such that it becomes an affected source subject to this chapter, without either meeting the permit application and approval requirements under ch. NR 406 or 407, if applicable, or submitting a notification of construction or reconstruction to the department under this section. Notification under this section shall contain the information identified in pars. (b) and (c), as appropriate.

(b) The notification of construction or reconstruction required under this subsection shall include all of the following:

1. The owner or operator's name, title and address.
2. The address or proposed address where the affected source would be located, if different from the owner's or operator's.
3. A notification of intention to construct a new affected source or make any physical or operational changes to an affected source that may meet or has been determined to meet the criteria for a reconstruction as defined in s. NR 460.02 (32).
4. An identification of this chapter as the basis for the notification.
5. The expected commencement and completion dates of the construction or reconstruction.
6. The anticipated date of initial startup of the affected source.
7. The type of process operation to be performed, hard or decorative chromium electroplating or chromium anodizing.
8. A description of the air pollution control technique to be used to control emissions from the affected source, such as preliminary design drawings and design capacity if an add-on air pollution control device is used.

9. An estimate of emissions from the source based on engineering calculations and vendor information on control device efficiency, expressed in units consistent with the emission limits of this chapter. Calculations of emission estimates shall be in sufficient detail to permit assessment of the validity of the calculations.

(c) If a reconstruction is to occur, the notification required under this subsection shall include the following in addition to the information required in par. (b):

1. A brief description of the affected source and the components to be replaced.
2. A brief description of the present and proposed emission control technique, including the information required by par. (b) 8. and 9.
3. An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new source.
4. The estimated life of the affected source after the replacements.
5. A discussion of any economic or technical limitations the source may have in complying with relevant standards or other requirements after the proposed replacements. The discussion shall be sufficiently detailed to demonstrate to the department's satisfaction that the technical or economic limitations affect the source's ability to comply with the relevant standard and how they do so.
6. If in the notification of reconstruction, the owner or operator designates the affected source as a reconstructed source and declares that there are no economic or technical limitations to prevent the source from complying with all relevant standards or requirements, the owner or operator need not submit the information required in subds. 3. to 5.

(d) The owner or operator of a new or reconstructed affected source that submits a notification under this subsection is not subject to approval by the department under this chapter. Construction or reconstruction is subject only to notification and may begin upon submission of a complete notification. This paragraph applies only to affected sources which are exempt from permit requirements under chs. NR 406 and 407.

(2) SUBMITTAL TIMEFRAMES. After October 1, 1997, an owner or operator of a new or reconstructed affected source shall submit the notification of construction or reconstruction required by sub. (1) according to the following schedule:

(a) If construction or reconstruction commences after October 1, 1997, the notification shall be submitted as soon as practicable before the construction or reconstruction is planned to commence.

(b) If the construction or reconstruction had commenced and initial startup had not occurred before October 1, 1997, the notification shall be submitted as soon as practicable before startup but no later than 60 days after October 1, 1997.

History: Cr. Register, September, 1997, No. 501, eff. 10-1-97.

NR 463.11 Recordkeeping requirements. (1) The owner or operator of each affected source subject to this chapter shall fulfill all recordkeeping requirements outlined in this section and in the general provisions of ch. NR 460, according to the applicability of ch. NR 460 as identified in Appendix N of ch. NR 460.

(2) The owner or operator of an affected source subject to this chapter shall maintain all of the following records for the source:

(a) Inspection records for the add-on air pollution control device, if such a device is used, and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of s. NR 463.05 and Table 1 of this chapter have taken place. The record may take the form of a checklist and shall identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection.

(b) Records of all maintenance performed on the affected source, the add-on air pollution control device and monitoring equipment.

(c) Records of the occurrence, duration and cause, if known, of each malfunction of process, add-on air pollution control and monitoring equipment.

(d) Records of actions taken during periods of malfunction when the actions are inconsistent with the operation and maintenance plan.

(e) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan required by s. NR 463.05 (2).

(f) Test reports documenting results of all performance tests.

(g) All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance with the special compliance procedures of s. NR 463.09 (5).

(h) Records of monitoring data required by s. NR 463.07 that are used to demonstrate compliance with the standard including the date and time the data are collected.

(i) The specific identification, including date and times, of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the process, add-on air pollution control or monitoring equipment.

(j) The specific identification, including date and times, of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the process, add-on air pollution control or monitoring equipment.

(k) The total process operating time of the affected source during the reporting period.

(L) Records of the actual cumulative rectifier capacity of hard chromium electroplating tanks at a facility expended during each month of the reporting period, and the total capacity expended to date for a reporting period, if the owner or operator is using the actual cumulative rectifier capacity to determine facility size in accordance with s. NR 463.04 (3) (b).

(m) For sources using fume suppressants to comply with the standards in s. NR 463.04, records of the date and time that fume suppressants are added to the electroplating or anodizing bath.

(n) For sources complying with s. NR 463.04 (5), records of the bath components purchased, with the wetting agent clearly identified by its chemical name as a bath constituent contained in one of the components.

(o) Any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements, if the source has been granted a waiver under s. NR 460.09 (6).

(p) All documentation supporting the notifications and reports required by ss. NR 460.08, 460.09 and 463.12.

(3) All records shall be maintained for a period of 5 years in accordance with s. NR 460.09 (2) (a).

History: Cr. Register, September, 1997, No. 501, eff. 10-1-97.

NR 463.12 Reporting requirements. The owner or operator of each affected source subject to this chapter shall fulfill all reporting requirements outlined in this section and in the general provisions of ch. NR 460, according to the applicability of ch. NR 460 as identified in Appendix N of ch. NR 460. Owners or operators complying with the provisions of s. NR 463.04 (5) shall meet the requirements of sub. (9) rather than the requirements of subs. (1) to (8).

(1) **REPORT SUBMITTALS.** Reports under this section shall be made to the department as follows:

(a) Reports required by ch. NR 460 and this section may be sent by U.S. mail, fax or by another courier.

1. Submittals sent by U.S. mail shall be postmarked on or before the specified date.

2. Submittals sent by other methods shall be received by the department on or before the specified date.

(b) If acceptable to both the department and the owner or operator of an affected source, reports may be submitted on electronic media.

Note: Submittals sent by U.S. mail should be addressed to the Department of Natural Resources, Bureau of Air Management, PO Box 7921, Madison WI 53707. Submittals by another courier should be delivered to department's Bureau of Air Management, 7th floor, 101 South Webster Street, Madison WI 53703. Submittals by fax should be directed to (608) 267-0560.

(2) **TIMING OF APPLICABILITY.** The reporting requirements of this section apply to the owner or operator of an affected source when the source becomes subject to the provisions of this chapter.

(3) **INITIAL NOTIFICATIONS.** The owner or operator of a new or reconstructed affected source that has an initial startup after October 1, 1997, shall comply with par. (a) or (b), as applicable.

(a) If no permit application is required under s. NR 406.03 or 407.04 (1) (b) 3., the owner or operator shall submit an initial notification report to the department, in addition to the notification of construction or reconstruction required by s. NR 463.10 (1), as follows:

1. A notification of the date when construction or reconstruction was commenced shall be submitted simultaneously with the notification of construction or reconstruction, if construction or reconstruction was commenced on or before October 1, 1997.

2. A notification of the date when construction or reconstruction was commenced shall be submitted no later than 30 calendar days after that date, if construction or reconstruction was commenced after October 1, 1997.

3. A notification of the actual date of startup of the source shall be submitted within 30 calendar days after that date.

(b) If a permit application is required under s. NR 406.03 or 407.04 (1) (b) 3. prior to construction or reconstruction, submittal of a completed permit application and compliance with the conditions in any permit subsequently issued shall be deemed to meet the notification requirements of par. (a).

(4) **NOTIFICATION OF PERFORMANCE TEST.** (a) The owner or operator of an affected source shall notify the department in writing of the owner or operator's intention to conduct a performance test at least 60 calendar days before the test is scheduled to begin to allow the department to have an observer present during the test. Observation of the performance test by the department is optional.

(b) In the event the owner or operator is unable to conduct the performance test as scheduled, the provisions of s. NR 439.07 (4) apply.

(5) NOTIFICATION OF COMPLIANCE STATUS. (a) A notification of compliance status is required each time that an affected source becomes subject to the requirements of this chapter.

(b) Each time a notification of compliance status is required under this subsection, the owner or operator of an affected source shall submit to the department a notification of compliance status, signed by the responsible official, as defined in s. NR 400.02 (136), who shall certify its accuracy, attesting to whether the affected source has complied with this chapter. The notification shall list for each affected source the following:

1. The applicable emission limitation and the methods that were used to determine compliance with this limitation.

2. If a performance test is required by this chapter, the test report documenting the results of the performance test, which contains the elements required by s. NR 463.09 (1), including measurements and calculations to support the special compliance provisions of s. NR 463.09 (5) if these are being followed.

3. The type and quantity of hazardous air pollutants emitted by the source reported in mg/dscm or mg/hr if the source is using the special provisions of s. NR 463.09 (5) to comply with the standards in s. NR 463.04. If the owner or operator is subject to the construction and reconstruction provisions of s. NR 463.10 and had previously submitted emission estimates, the owner or operator shall state that this report corrects or verifies the previous estimates. For sources not required to conduct a performance test in accordance with s. NR 463.06 (3), the surface tension measurement may fulfill this requirement.

4. For each monitored parameter for which a compliant value is to be established under s. NR 463.07, the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit.

5. The methods that will be used to determine continuous compliance, including a description of monitoring and reporting requirements, if methods differ from those identified in this chapter.

6. A description of the air pollution control technique for each emission point.

7. A statement that the owner or operator has completed and has on file the operation and maintenance plan as required by the work practice standards in s. NR 463.05.

8. If the owner or operator is determining facility size based on actual cumulative rectifier capacity in accordance with s. NR 463.04 (3) (b), records to support that the facility is small. For existing sources, records from any 12-month period preceding the compliance date shall be used or a description of how operations will change to meet a small designation shall be provided. For new sources, records of projected rectifier capacity for the first 12-month period of tank operation shall be used.

9. A statement by the owner or operator of the affected source as to whether the source has complied with the provisions of this chapter.

(c) For sources required to conduct a performance test by s. NR 463.06 (3), the notification of compliance status shall be submitted to the department no later than 90 calendar days following completion of the compliance demonstration required by ss. NR 460.06 and 463.06 (3).

(d) For sources that are not required to complete a performance test in accordance with s. NR 463.06 (3), the notification of compliance status shall be submitted to the department no later than 30 days after the compliance date specified in s. NR 463.06 (1).

(6) REPORTS OF PERFORMANCE TEST RESULTS. (a) The owner or operator shall report to the department the results of any performance test conducted as required by s. NR 460.06 or 463.06 (3).

(b) Reports of performance test results shall be submitted no later than 90 days following the completion of the performance test, and shall be submitted as part of the notification of compliance status required by sub. (5).

(7) ONGOING COMPLIANCE STATUS REPORTS FOR MAJOR SOURCES. (a) *Documentation requirements.* The owner or operator of an affected source that is located at a major source site shall submit a summary report to the department to document the ongoing compliance status of the affected source. The report shall contain the information identified in par. (c), and shall be submitted semiannually except under one of the following conditions:

1. The department determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source.

2. The monitoring data collected by the owner or operator of the affected source in accordance with s. NR 463.07 show that the emission limit has been exceeded, in which case quarterly reports shall be submitted. Once an owner or operator of an affected source reports an exceedance, ongoing compliance status reports shall be submitted quarterly until a request to reduce reporting frequency under par. (b) is approved.

(b) *Request to reduce frequency of ongoing compliance status reports.* 1. An owner or operator who is required to submit ongoing compliance status reports on a quarterly or more frequent basis may reduce the frequency of reporting to semiannual if all of the following conditions are met:

a. For one full year, the ongoing compliance status reports, which may, for example, be quarterly or monthly, demonstrate that the affected source is in compliance with the relevant emission limit.

b. The owner or operator continues to comply with all applicable recordkeeping and monitoring requirements of ch. NR 460 and this chapter.

c. The department does not object to a reduced reporting frequency for the affected source, as provided in subds. 2. and 3.

2. The frequency of submitting ongoing compliance status reports may be reduced only after the owner or operator notifies the department in writing of the owner or operator's intention to make such a change, and the department does not object to the intended change. In deciding whether to approve a reduced reporting frequency, the department may review information concerning the source's entire previous performance history during the 5-year recordkeeping period prior to the intended change, or the recordkeeping period since the source's compliance date, whichever is shorter. Records subject to review may include performance test results, monitoring data and evaluations of an owner or operator's conformance with emission limitations and work practice standards. The information may be used by the department to make a judgment about the source's potential for noncompliance in the future. If the department disapproves the owner or operator's request to reduce reporting frequency, the department shall notify the owner or operator in writing within 45 days after receiving notice of the owner or operator's intention. The notification from the department to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

3. As soon as the monitoring data required by s. NR 463.07 show that the source is not in compliance with the relevant emission limit, the frequency of reporting shall revert to quarterly, and the owner shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the owner or operator may again request approval from the department to reduce the reporting frequency as allowed by this paragraph.

(c) *Contents of ongoing compliance status reports.* The owner or operator of an affected source for which compliance monitoring is required in accordance with s. NR 463.07 shall prepare a summary report to document the ongoing compliance status of the source. The report shall contain all of the following information:

1. The company name and address of the affected source.
2. An identification of the operating parameter that is monitored for compliance determination, as required by s. NR 463.07.
3. The relevant emission limitation for the affected source, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the notification of compliance status required by sub. (5).
4. The beginning and ending dates of the reporting period.
5. A description of the type of process performed in the affected source.
6. The total operating time of the affected source during the reporting period.
7. If the affected source is a hard chromium electroplating tank and the owner or operator is limiting the maximum cumulative rectifier capacity in accordance with s. NR 463.04 (3) (b), the actual cumulative rectifier capacity expended during the reporting period, on a month-by-month basis.
8. A summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes and unknown causes.
9. A certification by a responsible official that the work practice standards in s. NR 463.05 were followed in accordance with the operation and maintenance plan for the source.
10. If the operation and maintenance plan required by s. NR 463.05 (2) was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emission or parameter monitoring exceedances are believed to have occurred, and a copy of the report or reports required by s. NR 463.05 (2) (d) documenting that the operation and maintenance plan was not followed.
11. A description of any changes in monitoring, processes or controls since the last reporting period.
12. The name, title and signature of the responsible official who is certifying the accuracy of the report.
13. The date of the report.

(d) *Reporting for multiple monitoring devices.* When more than one monitoring device is used to comply with the continuous compliance monitoring required by s. NR 463.07, the owner or operator shall report the results as required for each monitoring device. However, when one monitoring device is used as a backup for the primary monitoring device, the owner or operator shall only report the results from the monitoring device used to meet the monitoring requirements of this chapter. If both devices are used to meet these requirements, then the owner or operator shall report the results from each monitoring device for the relevant compliance period.

(8) ONGOING COMPLIANCE STATUS REPORTS FOR AREA SOURCES. The requirements of this subsection do not alleviate affected area sources from complying with the requirements of state or federal operating permit programs under 40 CFR part 71.

(a) *Annual summary report.* The owner or operator of an affected source that is located at an area source site shall prepare a summary report to document the ongoing compliance status of the affected source. The report shall contain the information identified in sub. (7) (c) and shall be retained on site and made available to the department upon request. The report shall be completed annually except as provided in par. (b).

(b) *Reports of exceedances.* 1. If both of the following conditions are met, semiannual reports shall be prepared and submitted to the department:

a. The total duration of excess emissions, as indicated by the monitoring data collected by the owner or operator of the affected source in accordance with s. NR 463.07, is 1% or greater of the total operating time for the reporting period.

b. The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is 5% or greater of the total operating time.

2. Once an owner or operator of an affected source reports an exceedance as defined in subd. 1., ongoing compliance status reports shall be submitted semiannually until a request to reduce reporting frequency under par. (c) is approved.

3. The department may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the source.

(c) *Request to reduce frequency of ongoing compliance status reports.* 1. An owner or operator who is required to submit ongoing compliance status reports on a semiannual or more frequent basis, or is required to submit its annual report instead of retaining it on site, may reduce the frequency of reporting to annual or be allowed to maintain the annual report onsite if all of the following conditions are met:

a. For one full year (for 2 semiannual or 4 quarterly reporting periods, for example), the ongoing compliance status reports demonstrate that the affected source is in compliance with the relevant emission limit.

b. The owner or operator continues to comply with all applicable recordkeeping and monitoring requirements of ch. NR 460 and this chapter.

c. The department does not object to a reduced reporting frequency for the affected source, as provided in subds. 2. and 3.

2. The frequency of submitting ongoing compliance status reports may be reduced only after the owner or operator notifies the department in writing of the owner or operator's intention to make such a change, and the department does not object to the intended change. In deciding whether to approve a reduced reporting frequency, the department may review information concerning the source's previous performance history during the 5-year recordkeeping period prior to the intended change, or the recordkeeping period since the source's compliance date, whichever is shorter. Records subject to review may include performance test results, monitoring data, and evaluations of an owner or operator's conformance with emission limitations and work practice standards. The information may be used by the department to make a judgement about the source's potential for noncompliance in the future. If the department disapproves the owner or operator's request to reduce reporting frequency, the department shall notify the owner or operator in writing within 45 days after receiving notice of the owner or operator's intention. The notification from the department to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

3. As soon as the monitoring data required by s. NR 463.07 show that the source is not in compliance with the relevant emission limit, the frequency of reporting shall revert to semiannual, and the owner shall state this exceedance in the ongoing compliance status report for the next reporting period. After demonstrating ongoing compliance with the relevant emission limit for another full year, the owner or operator may again request approval from the department to reduce the reporting frequency as allowed by this paragraph.

(9) REPORTS ASSOCIATED WITH TRIVALENT CHROMIUM BATHS. The requirements of this subsection do not alleviate affected sources from complying with the requirements of state or federal

operating permit programs under ch. NR 407 or 40 CFR part 70. Owners or operators complying with the provisions of s. NR 463.04 (5) are not subject to subs. (1) to (8), but shall instead submit the following reports:

(a) Within 180 days after October 1, 1997, submit an initial notification that includes all of the following:

1. The same information as is required by 40 CFR 63.347 (c) (1) (i) to (v).
2. A statement that a trivalent chromium process that incorporates a wetting agent will be used to comply with s. NR 463.04 (5).
3. The list of bath components that comprise the trivalent chromium bath, with the wetting agent clearly identified by its chemical name.

(b) Within 30 days after the compliance date specified in s. NR 463.06 (1), a notification of compliance status that contains an

update of the information submitted in accordance with par. (a) or a statement that the information is still accurate.

(c) Within 30 days after a change to the trivalent chromium electroplating process, a report that includes all of the following:

1. A description of the manner in which the process has been changed and the emission limitation, if any, now applicable to the affected source.
2. If a different emission limitation applies, the applicable information required by sub. (3) (a).
3. The notification and reporting as required by subs. (4) to (8), which shall be submitted in accordance with the schedules identified in those subsections.

History: Cr. Register, September, 1997, No. 501, eff. 10-1-97; am. (5) (b) (intro.), Register, November, 1999, No. 527, eff. 12-1-99; correction in (9) (a) 1. made under s. 13.93 (2m) (b) 7., Stats., Register, November, 1999, No. 527.