

00-1606

not used - "gluing" used in 2 definitions

foam to fabric, foam to foam and fabric to wood.

(32) "Gluing operation" means those operations in which adhesives are used to join components, for example, to apply a laminate to a wood substrate or foam to fabric.

(33) "Incidental wood furniture manufacturer" means a major source that is primarily engaged in the manufacture of products other than wood furniture or wood furniture components and that uses no more than 100 gallons per month of finishing material and no more than 100 gallons per month of adhesives in the manufacture of wood furniture or wood furniture components.

(34) "Janitorial maintenance" means the upkeep of equipment or building structures that is not directly related to the manufacturing process, for example, cleaning of restroom facilities.

(35) "Material safety data sheet" or "MSDS" means the documentation required for hazardous chemicals by the occupational safety and health administration hazard communication standard in 29 CFR part 1910 Subpart Z, incorporated by reference in s. NR 484.03(1), for a solvent, cleaning material, contact adhesive, coating or other material that identifies select reportable hazardous ingredients of the material, safety and health considerations, and handling procedures.

(36) "New", when used to modify affected source, area source or source, means construction or reconstruction which is commenced

on or after December 6, 1994.

(37) "Noncompliant coating" means a finishing material, contact adhesive or strippable booth coating that has a VHAP or VOC content greater than the emission limitation presented in Table 2.

(38) "Nonporous substrate" means a surface that is impermeable to liquids. Examples include metal, rigid plastic, flexible vinyl and rubber.

(39) "Normally closed container" means a container that is closed unless an operator is actively engaged in activities such as emptying or filling the container.

(40) "Operating parameter value" means a minimum or maximum value established for a control device or process parameter that, if achieved by itself or in combination with one or more other operating parameter values, determines that an owner or operator has complied with an applicable emission limit.

(41) "Organic HAP solvent" means (a) HAP that is a volatile organic liquid used for dissolving or dispersing constituents in a coating or contact adhesive, adjusting the viscosity of a coating or contact adhesive, or cleaning equipment. When used in a coating or contact adhesive, the organic HAP solvent evaporates during drying and does not become a part of the dried film.

(42) "Overall control efficiency" means the efficiency of a control system, calculated as the product of the capture and

used once (p. 39)

control device efficiencies, expressed as a percentage.

(43) "Recycled onsite" means the reuse of an organic HAP solvent in a process other than cleaning or washoff.

(44) "Research or laboratory facility" means any stationary source whose primary purpose is to conduct research and development to develop new processes and products where the source is operated under the close supervision of technically trained personnel and is not engaged in the manufacture of products for commercial sale in commerce, except in a de minimis manner.

(45) "Sealer" means a finishing material used to seal the pores of a wood substrate before additional coats of finishing material are applied. Special purpose finishing materials that are used in some finishing systems to optimize aesthetics are not "sealers". *does not include*



(46) "Stain" means any color coat having a solids content by weight of no more than 8.0% that is applied in single or multiple coats directly to the substrate. *"Stain"* ~~It includes, but is not limited to,~~ nongrain raising stains, equalizer stains, prestains, sap stains, body stains, no-wipe stains, penetrating stains and toners.

not used - and obvious

(47) "Storage containers" means vessels or tanks, including mix equipment, used to hold finishing, gluing, cleaning or washoff materials.

(48) "Strippable spray booth coating" means a coating that

meets all of the following:

(a) Is applied to a spray booth wall to provide a protective film to receive overspray during finishing operations.

(b) Is subsequently peeled off and disposed.

(c) Reduces or eliminates the need to use organic HAP solvents to clean spray booth walls.

(49) "Substrate" means the surface onto which a coating or contact adhesive is applied or into which a coating or contact adhesive is impregnated. ?

(50) "Thinner" means a volatile liquid that is used to dilute coatings or contact adhesives to reduce viscosity, color strength and solids, or to modify drying conditions. ?

(51) "Topcoat" means the last film-building finishing material that is applied in a finishing system.

(52) "Touchup and repair" means the application of finishing materials to cover minor finishing imperfections.

(53) "VHAP" means any volatile hazardous air pollutant listed in Table 1.

(54) "VHAP of potential concern" means any VHAP from the list in Table 5.

(55) "Washcoat" means a transparent special purpose finishing material having a solids content by weight of 12.0% by weight or less. Washcoats are applied over initial stains to protect, to control color and to stiffen the wood fibers in order to aid

note

sanding.

(56) "Washoff operations" means those operations in which organic HAP solvent is used to remove coating from wood furniture or a wood furniture component.

(57) "Wood furniture" means any product made of wood, a wood product such as rattan or wicker, or an engineered wood product such as particleboard that is manufactured under any of the following standard industrial classification codes, as described in the standard industrial classification manual, 1987, incorporated by reference in s. NR 484.05: 2434, 2511, 2512, 2517, 2519, 2521, 2531, 2541, 2599 or 5712.

(58) "Wood furniture component" means any part that is used in the manufacture of wood furniture. Examples include, but are not limited to, drawer sides, cabinet doors, seat cushions and laminated tops.

(59) "Wood furniture manufacturing operations" means the finishing, gluing, cleaning and washoff operations associated with the production of wood furniture or wood furniture components.

NR 465.03 Symbols. The symbols used in this chapter have the following meanings:

(1) a_c means after the control system is installed and operated.

(2) A_k is the area of each natural draft opening k in a total

*These are meaningless here -
explain them along with the
formulae in which they are
used - 1st on p 40*

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*also, subscript, not
abscissa, as in all*

enclosure, in square meters.

(3) C_{bc} means before control.

(4) C_{aj} is the concentration of VHAP in gas stream j exiting the control device, in parts per million by volume.

(5) C_{bi} is the concentration of VHAP in gas stream i entering the control device, in parts per million by volume.

(6) C_c is the VHAP content of a finishing material c in kilograms of VHAP per kilogram of coating solids (kg VHAP/kg solids), as supplied. Also given in pounds of VHAP per pound of coating solids (lb VHAP/ lb solids).

(7) C_{di} is the concentration of VHAP in gas stream i entering the control device from the affected source, in parts per million by volume.

(8) C_{fk} is the concentration of VHAP in uncontrolled gas stream k emitted directly to the atmosphere from the affected source, in parts per million by volume.

(9) E is the emission limit achieved by an emission point or a set of emission points, in kg VHAP/kg solids (lb VHAP/lb solids).

(10) F is the control device efficiency, expressed as a fraction.

(11) FV is the average inward face velocity across all natural draft openings in a total enclosure, in meters per hour.

(12) G is the VHAP content of a contact adhesive, in kg

VHAP/kg solids (lb VHAP/lb solids), as applied.

(13) M is the mass of solids in finishing material used monthly, kg solids/month (lb solids/month).

(14) N is the capture efficiency, expressed as a fraction.

(15) Q_{aj} is the volumetric flow rate of gas stream j exiting the control device, in dry standard cubic meters per hour.

(16) Q_{bi} is the volumetric flow rate of gas stream i entering the control device, in dry standard cubic meters per hour.

(17) Q_{di} is the volumetric flow rate of gas stream i entering the control device from the emission point, in dry standard cubic meters per hour.

(18) Q_{fk} is the volumetric flow rate of uncontrolled gas stream k emitted directly to the atmosphere from the emission point, in dry standard cubic meters per hour.

(19) $Q_{in\ i}$ is the volumetric flow rate of gas stream i entering the total enclosure through a forced makeup air duct, in standard cubic meters per hour, wet basis.

(20) $Q_{out\ j}$ is the volumetric flow rate of gas stream j exiting the total enclosure through an exhaust duct or hood, in standard cubic meters per hour, wet basis.

(21) R is the overall efficiency of the control system, expressed as a percentage.

(22) S is the VHAP content of a solvent, expressed as a weight fraction, added to finishing materials.

(23) W is the amount of solvent, in kilograms (pounds), added to finishing materials during the monthly averaging period.

- ok for abatement reqts. but screwy

NR 465.04 Emission limits. (1) ^{The} ~~Each~~ ^{no prohibitions - see p 34} ~~owner or operator~~ ^{or permissive provisions} of an

existing affected source shall do all of the following:

cf p 40
another variation on p. 43

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(a) Limit VHAP emissions from finishing operations to no more than the emission limitations for existing sources presented in Table 2, using any of the compliance methods in s. NR

CF
p 19 + 40

465.06(1)(a). To determine ~~VHAP emissions from a finishing material containing formaldehyde or styrene~~, the owner or operator of the affected source shall use the methods presented in s. NR 465.05(12)(a)2. for determining styrene and formaldehyde usage

X
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(b) Limit VHAP emissions from contact adhesives to no more than the following as appropriate:

1. 1.8 kg VHAP/kg solids (1.8 lb VHAP/lb solids), as applied, for foam adhesives used in products that meet the upholstered seating flammability requirements of California technical bulletin 116, 117 or 133, incorporated by reference in s. NR 484.11, ~~the~~ ^{the} business and institutional furniture manufacturers association's BIFMA X5.7-1991, incorporated by reference in s. NR 484.11, upholstered furniture action council flammability test methods, incorporated by reference in s. NR 484.11, or any similar requirements from local, state or federal fire regulatory agencies.

2. 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied, for all other contact adhesives, including foam adhesives used in products that do not meet the standards in subd. 1., but excluding aerosol adhesives and excluding contact adhesives applied to nonporous substrates.

(c) Limit HAP emissions from strippable spray booth coatings by using coatings that contain no more than 0.8 kg VOC/kg solids (0.8 lb VOC/lb solids), as applied.

(2) ^{The} ~~Each~~ owner or operator of a new affected source subject to this chapter shall do all of the following:

(a) Limit VHAP emissions from finishing operations to no more than the emission limitations for new sources presented in Table 2 using any of the compliance methods in s. NR 465.06(2)(a). To determine VHAP emissions from a finishing material containing formaldehyde or styrene, the owner or operator of the affected source shall use the methods presented in s. NR 465.05(12)(a)2. for determining styrene and formaldehyde usage.

(b) Limit VHAP emissions from contact adhesives, excluding aerosol adhesives and excluding contact adhesives applied to nonporous substrates, to no more than 0.2 kg VHAP/kg solids (0.2 lb VHAP/lb solids), as applied, using either of the compliance methods in s. NR 465.06(2)(b).

(c) Limit HAP emissions from strippable spray booth coatings by using coatings that contain no more than 0.8 kg VOC/kg solids

(0.8 lb VOC/lb solids), as applied.

NR 465.05 Work practice standards. (1) WORK PRACTICE

IMPLEMENTATION PLAN. Each owner or operator of an affected source shall prepare and maintain a written work practice implementation plan that defines environmentally desirable work practices for each wood furniture manufacturing operation and addresses each of the work practice standards in subs. (2) to (12). The plan shall be developed no more than 60 days after the compliance date. The written work practice implementation plan shall be available for inspection by the department upon request. If the department determines that the work practice implementation plan does not adequately address each of the topics specified in subs. (2) to (12), or that the plan does not include sufficient mechanisms for ensuring that the work practice standards are being implemented, the department may require that the owner or operator of the affected source modify the plan. Revisions or modifications to the plan do not require a revision of a permit issued under ch. NR 407.

specified in
(4)

(2) **OPERATOR TRAINING COURSE.** Each owner or operator of an affected source shall train all ~~new and existing~~ personnel, including contract personnel, who are involved in finishing, gluing, cleaning and washoff operations, use of manufacturing equipment, or implementation of the requirements of this chapter.

(5)

All ~~new~~ personnel, ~~those~~ hired after the compliance date of the standard shall be trained upon hiring. All ~~existing~~ personnel, ~~those~~ hired before the compliance date of the standard shall be trained within 6 months of the compliance date of the standard.

All personnel shall be given refresher training annually. The affected source shall maintain a copy of the training program with the work practice implementation plan. The training program shall include, at a minimum, all of the following:

(a) A list of all current personnel by name and job description ^{under} that are required to be trained.

(b) An outline of the subjects to be covered in the initial and refresher training for each position or group of personnel.

(c) Lesson plans for courses to be given at the initial and the annual refresher training that include, at a minimum, appropriate application techniques, appropriate cleaning and washoff procedures, appropriate equipment setup and adjustment to minimize finishing material usage and overspray and appropriate management of cleanup wastes.

(d) A description of the methods to be used at the completion of initial or refresher training to demonstrate and document successful completion. *by trainer? or done by operator of conducting the training?*

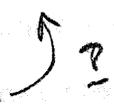
(3) INSPECTION AND MAINTENANCE PLAN. Each owner or operator of an affected source shall prepare and maintain with the work practice implementation plan a written leak inspection and

~~redundant of sub (1)~~

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maintenance plan that specifies all of the following:

(a) A minimum visual inspection frequency of once per month for all equipment used to transfer or apply coatings, adhesives or organic HAP solvents.

(b) An inspection schedule. 

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(c) Methods for documenting the date and results of each inspection and any repairs that were made.

(d) The timeframe between identifying the leak and making the repair, which adheres, at a minimum, to the following schedule:

1. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected.

2. Final repairs shall be made within 15 calendar days after the leak is detected, unless the leaking equipment is to be replaced by a new purchase, in which case repairs shall be completed within 3 months.

(4) CLEANING AND WASHOFF SOLVENT ACCOUNTING SYSTEM. Each owner or operator of an affected source shall develop an organic HAP solvent accounting form to record all of the following:

(a) The quantity and type of organic HAP solvent used each month for washoff and cleaning operations.

(b) The number of pieces washed off, and the reason for the washoff.

(c) The quantity of spent organic HAP solvent generated from each washoff and cleaning operation each month, and whether it is

recycled onsite or disposed offsite.

(5) CHEMICAL COMPOSITION OF CLEANING AND WASHOFF SOLVENTS.

^{The} Each owner or operator of an affected source may not use solvents for cleaning or washoff operations that contain any of the pollutants listed in Table 3 ^{of} in concentrations ^{that} which require inclusion on (a) MSDS in accordance with the occupational safety and health administration hazard communication standard in 29 CFR part 1910 Subpart Z, incorporated by reference in s. NR 484.03(1).

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(6) SPRAY BOOTH CLEANING. ~~Each~~ ^{Except as provided in this subsection, an} owner or operator of an

affected source may not use compounds containing more than 8.0% by weight of VOC for cleaning spray booth components other than conveyors, continuous coaters and their enclosures, or metal or plastic filters unless the spray booth is being refurbished. If ^{what limits for this?} the spray booth is being refurbished, that is, the spray booth coating or other protective material used to cover the booth is being replaced, the affected source may not use more than 1.0 gallon of organic HAP solvent per booth to prepare the surface of the booth prior to applying the booth coating.

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(7) STORAGE REQUIREMENTS. Each owner or operator of an

affected source shall use normally closed containers for storing finishing, gluing, cleaning and washoff materials.

(8) APPLICATION EQUIPMENT REQUIREMENTS. ^{The} Each owner or

operator of an affected source may use conventional air spray guns to apply finishing materials only under any of the following

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circumstances:

(a) To apply finishing materials that have a VOC content no greater than 1.0 kg VOC/kg solids (1.0 lb VOC/lb solids), as applied.

(b) For touchup and repair under any of the following conditions:

1. The touchup and repair occurs after completion of the finishing operation.

2. The touchup and repair occurs after the application of stain and before the application of any other type of finishing material, and the materials used for touchup and repair are applied from a container that has a volume of no more than 2.0 gallons.

(c) When ~~spray is automated, that is,~~ the spray gun is aimed and triggered automatically, ~~not manually.~~ 2

(d) When emissions from the finishing application station are directed to a control device.

(e) When the cumulative total usage of finishing materials applied with conventional air spray guns is no more than 5.0% of the total gallons of finishing material used during that semiannual period.

(f) When the conventional air gun is used to apply stain on a part for which it is technically or economically infeasible to use any other spray application technology. The affected source shall 2

demonstrate technical or economic infeasibility by submitting to the department a videotape, a technical report or other documentation that supports the affected source's claim of technical or economic infeasibility. ^{owner/operator shall use one or both of} The following criteria shall ^{be used} ~~be used, either independently or in combination~~ to support ^{the} ~~the~~ affected source's claim of technical or economic infeasibility:

1. The production speed is too high or the part shape is too complex for one operator to coat the part and the application station is not large enough to accommodate an additional operator.

2. The excessively large vertical spray area of the part makes it difficult to avoid sagging or runs in the stain.

(9) LINE CLEANING. Each owner or operator of an affected source shall pump or drain all organic HAP solvent used for line cleaning into a normally closed container.

(10) GUN CLEANING. Each owner or operator of an affected source shall collect all organic HAP solvent used to clean spray guns into a normally closed container.

(11) WASHOFF OPERATIONS. Each owner or operator of an affected source shall control emissions from washoff operations by doing both of the following:

(a) Using normally closed tanks for washoff.

(b) Minimizing dripping by tilting or rotating the part to drain as much solvent as possible.

(12) FORMULATION ASSESSMENT PLAN FOR FINISHING OPERATIONS.

(a) Each owner or operator of an affected source shall prepare and maintain ~~with the work practice implementation plan~~ a formulation assessment plan that does all of the following:

1. Identifies ^{each} VHAP from the list presented in Table 4 that ^{is} ~~are~~ being used in finishing operations by the affected source. 9

2. Establishes a baseline level of usage by the affected source for each VHAP identified in subd. 1. The baseline usage level shall be the highest annual usage from 1994, 1995 or 1996, for each VHAP identified in subd. 1. For formaldehyde, the baseline level of usage shall be based on the amount of free formaldehyde present in the finishing material when it is applied. how to limit? 5

For styrene, the baseline level of usage shall be an estimate of unreacted styrene, which shall be calculated by multiplying the amount of styrene monomer in the finishing material, when it is applied, by a factor of 0.16. Sources using a control device to reduce emissions may adjust their usage based on the overall control efficiency of the control system.

3. Tracks the annual usage of each VHAP identified in subd. 1. ~~by the affected source~~ that is present in amounts ^{that} ~~which~~ require inclusion on a MSDS in accordance with the occupational safety and health administration hazard communication standard in 29 CFR part 1910 Subpart Z, incorporated by reference in s. NR 484.03.(1) 5

(b) If, after November 1998, the annual usage of the VHAP identified in par. (a)1. ^{under} exceeds its ^{established under par. (a)2.} baseline level, the owner or 4

operator of the affected source shall provide a written notification to the department that describes the amount of the increase and explains the reasons for exceedance of the baseline level. Any of the following explanations relieve the owner or operator from further action, unless the affected source is not in compliance with any state regulations or requirements for that VHAP:

1. The exceedance is no more than 15.0% above the baseline level.

2. Usage of the VHAP is below the de minimis level presented in Table 4 for that VHAP. Sources using a control device to reduce emissions may adjust their usage based on the overall control efficiency of the control system. *move?*

3. The affected source is in compliance with ch. NR 445.

4. The source of the pollutant is a finishing material with a VOC content of no more than 1.0 kg VOC/kg solids (1.0 lb VOC/lb solids), as applied.

(c) If none of the explanations in par. (b) are the reason for the increase, the owner or operator shall confer with the department to discuss the reason for the increase and whether there are practical and reasonable technology-based solutions for reducing the usage. The evaluation of whether a technology is reasonable and practical shall be based on cost, quality and marketability of the product, whether the technology is being used

*What about
an in place in
production?*

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successfully by other wood furniture manufacturing operations, or other criteria mutually agreed upon by the department and owner or operator. If there are no practical and reasonable solutions, the facility need take no further action. If there are solutions, the owner or operator shall develop a plan to reduce usage of the pollutant to the extent feasible. The plan shall address the approach to be used to reduce emissions, a timetable for implementing the plan and a schedule for submitting notification of progress.

(d) If, after November 1998, an affected source uses a VHAP of potential concern listed in Table 5 for which a baseline level has not been previously established, the baseline level shall be established as the de minimis level provided in Table 5 for that chemical. The affected source shall track the annual usage of each VHAP of potential concern identified in this paragraph that is present in amounts ^{that} ~~which~~ require inclusion on a MSDS in accordance with the occupational safety and health administration hazard communication standard in 29 CFR part 1910 Subpart Z, incorporated by reference in s. NR 484.03(1). If usage of the VHAP of potential concern exceeds the de minimis level listed in Table 5 for that chemical, the affected source shall provide an explanation to the department that documents the reason for exceedance of the de minimis level. If the explanation is not one of those listed in par. (b), the affected source shall follow the

all of these are subject to this

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procedures in par. (c).

Same for sub (2); NR 465.07

NR 465.06 Compliance methods and procedures. (1) EXISTING

SOURCES. (a) Finishing materials. The owner or operator of an existing affected source subject to s. NR 465.04(1)(a) shall comply using any of the following methods:

goal

with a

1. Calculate the average VHAP content for all finishing materials used at the facility using Equation 1, and maintain a value of E no greater than 1.0.

$$E = (M_{c1}C_{c1} + M_{c2}C_{c2} + \dots + M_{cn}C_{cn} + S_1W_1 + S_2W_2 + \dots + S_nW_n) / (M_{c1} + M_{c2} + \dots + M_{cn})$$

M_c not defined in 465.03

(Equation 1)

2. Use compliant finishing materials according to the following criteria: defined in terms of Table 2

what relation to Table 2?

a. ~~Demonstrate~~ that each stain, sealer and topcoat has a VHAP content of no more than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied, and each thinner contains no more than 10.0% VHAP by weight by maintaining certified product data sheets for each coating and thinner.

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b. ~~Demonstrate~~ that each washcoat, basecoat and enamel that is not formulated at the affected source by thinning another finishing material has a VHAP content of no more than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied, and each

indep of Table 2

rule to be a statement of a standard - this is in the existing part

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the sentence is not but put note at end of section that table 2 summarizes requirements

thinner contains no more than 10.0% VHAP by weight by maintaining certified product data sheets for each coating and thinner.

c. ~~Demonstrate~~ that each washcoat, basecoat and enamel that is formulated at the affected source is formulated using a finishing material containing no more than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids) and a thinner containing no more than 3.0% VHAP by weight.

3. Use a control system with an overall control efficiency (R) such that the value of E_{ac} in Equation 2 is no greater than 1.0. The value of E_{bc} in Equation 2 shall be calculated using Equation 1 in subd. 1.

$$R = [(E_{bc} - E_{ac}) / E_{bc}] (100)$$

E_{bc} and E_{ac} not defined

(Equation 2)

~~4. Use any combination of the methods in subds. 1. to 3.~~

(b) *Foam adhesives.* The owner or operator of an existing affected source subject to s. NR 465.04(1)(b)1. shall comply by using foam adhesives with a VHAP content no greater than 1.8 kg VHAP/kg solids (1.8 lb VHAP/lb solids), as applied. w/ NR 465.04(1)(b)1. 4

(c) *Other contact adhesives.* The owner or operator of an existing affected source subject to s. NR 465.04(1)(b)2. shall comply by using either of the following methods: w/ NR 465.04(1)(b)2

1. Use contact adhesives with a VHAP content no greater than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied.

2. Use a control system with an overall control efficiency (R) such that the value of G_{ac} in Equation 3 is no greater than 1.0.

$R = [(G_{bc} - G_{ac}) / G_{bc}] (100)$ $G_{bc} + G_{ac}$ not defined (Equation 3)

(2) NEW SOURCES. (a) *Finishing materials.* The owner or operator of a new affected source subject to NR 465.04(2)(a) shall comply by using any of the following methods:

1. Calculate the average VHAP content across all finishing materials used at the facility using Equation 1 in sub. (1)(a)1., and maintain a value of E no greater than 0.8.

2. Use compliant finishing materials according to the following criteria:

a. Demonstrate that each sealer and topcoat has a VHAP content of no more than 0.8 kg VHAP/kg solids (0.8 lb VHAP/lb solids), as applied, each stain has a VHAP content of no more than 1.0 kg VHAP/kg solids (1.0 lb VHAP/lb solids), as applied, and each thinner contains no more than 10.0% VHAP by weight.

b. Demonstrate that each washcoat, basecoat and enamel that is not formulated at the affected source by thinning another finishing material has a VHAP content of no more than 0.8 kg VHAP/kg solids (0.8 lb VHAP/lb solids), as applied, and each thinner contains no more than 10.0% VHAP by weight.

c. Demonstrate that each washcoat, basecoat and enamel that

is formulated at the affected source is formulated using a finishing material containing no more than 0.8 kg VHAP/kg solids (0.8 lb VHAP/lb solids) and a thinner containing no more than 3.0% VHAP by weight.

3. Use a control system with an overall control efficiency (R) such that the value of E_{ac} in Equation 4 is no greater than 0.8. The value of E_{bc} in Equation 4 shall be calculated using Equation 1 in sub. (1)(a)1.

$$R = [(E_{bc} - E_{ac}) / E_{bc}] (100) \quad \text{(Equation 4)}$$

~~4. Use any combination of the methods in subs. 1. to 3.~~

(b) *Contact adhesives.* The owner or operator of a new affected source ~~subject to~~ s. NR 465.04(2)(b) shall comply^{w/r} using either of the following methods:

1. Use contact adhesives with a VHAP content no greater than 0.2 kg VHAP/kg solids (0.2 lb VHAP/lb solids), as applied.

2. Use a control system with an overall control efficiency (R) such that the value of G_{ac} in Equation 3 in sub. (1)(c)2. is no greater than 0.2.

NR 465.07 Initial compliance demonstration. (1) FINISHING MATERIALS. ^{The} Owners or operators of an affected source subject to the provisions of s. NR 465.04(1)(a) or (2)(a) shall demonstrate

initial compliance according to the following procedures as appropriate:

~~read as continuation of intro.~~

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(a) If complying by using the methods in s. NR 465.06(1)(a)1. or (2)(a)1., submit the results of the averaging calculation using Equation 1 in s. NR 465.06(1)(a)1. for the first month with the initial compliance status report required by s. NR 465.11(2). The first month's calculation shall include data for the entire month in which the compliance date falls.

(b) If complying by using the methods s. NR 465.06(1)(a)2. or (2)(a)2., ^{stating in the} submit an initial compliance status report, ~~as required~~ ^{under} by s. NR 465.11(2), ~~stating that compliant stains, washcoats,~~ sealers, topcoats, basecoats, enamels and thinners, as applicable, are being used by the affected source.

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cf p. 49

(c) If complying by using the methods in s. NR 465.06(1)(a)2. or (2)(a)2. and applying coatings using continuous coaters, do one of the following:

1. Submit an initial compliance status report, as required by s. NR 465.11(2), stating that compliant coatings, as determined by the VHAP content of the coating in the reservoir and the VHAP content as calculated from records, and compliant thinners are being used.

d. 1. 2

2. Submit an initial compliance status report, as required by s. NR 465.11(2), stating that compliant coatings, as determined by the VHAP content of the coating in the reservoir, are being used;

d. 1. 1

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the viscosity of the coating in the reservoir is being monitored; and compliant thinners are being used. The affected source shall also submit data that demonstrate that viscosity is an appropriate parameter for demonstrating compliance.

(d) If complying by using the methods in s. NR 465.06(1)(a)3. or (2)(a)3., do all of the following:

1. ^{Identify in the} ~~Submit a~~ monitoring plan ^{under NR 465 - ?} that identifies each operating parameter to be monitored for the capture device and discusses why each parameter is appropriate for demonstrating continuous compliance.

2. Conduct an initial performance test as required under s. NR 460.06 using the procedures and test methods listed in ss. NR 460.06 and 465.09(3) and (4).

3. Calculate the overall control efficiency (R) following the procedures in s. NR 465.09(4).

4. Determine those operating conditions critical to determining compliance and establish one or more operating parameters that will ensure compliance with the standard.

Operating parameters shall include the following:

a. For a thermal incinerator, minimum combustion temperature shall be the operating parameter.

b. For a catalytic incinerator equipped with a fixed catalyst bed, the minimum gas temperature both upstream and downstream of the catalyst bed shall be the operating parameters.

c. For a catalytic incinerator equipped with a fluidized catalyst bed, the minimum gas temperature upstream of the catalyst bed and the pressure drop across the catalyst bed shall be the operating parameters.

d. For a carbon adsorber, the total regeneration mass stream flow for each regeneration cycle and the carbon bed temperature after each regeneration, or the concentration level of organic compounds exiting the adsorber, shall be the operating parameters, unless the owner or operator requests and receives approval from the administrator to establish other operating parameters.

e. For a control device not listed in this subdivision, one or more operating parameter values shall be established using the procedures identified in s. NR 465.08(1)(d)5. *average - report*

~~subd. 4~~ (e) The value for each site-specific operating parameter in par. (d)4. shall be calculated as the arithmetic average of the maximum or minimum operating parameter values, as appropriate, that demonstrate compliance with the standards, during the 3 test runs required by s. NR 465.09(3)(a). *2*

(2) CONTACT ADHESIVES. Owners or operators of an affected source subject to the provisions of s. NR 465.04(1)(b) or (2)(b) shall demonstrate initial compliance according to the following procedures as appropriate:

(a) If complying by using the methods in s. NR 465.06(1)(b), (c)1. or (2)(b)1., submit an initial compliance status report, as

required by s. NR 465.11(2), stating that compliant contact adhesives are being used by the affected source.

(b) If complying by using the methods in s. NR 465.06(1)(c)2. or (2)(b)2., do all of the following:

1. Submit a monitoring plan that identifies each operating parameter to be monitored for the capture device and discusses why each parameter is appropriate for demonstrating continuous compliance.

2. Conduct an initial performance test as required under s. NR 460.06 using the procedures and test methods listed in ss. NR 460.06 and 465.09(3) and (4).

3. Calculate the overall control efficiency (R) following the procedures in s. NR 465.09(4).

4. Determine those operating conditions critical to determining compliance and establish one or more operating parameters that will ensure compliance with the standard.

Operating parameters shall include the following:

a. For a thermal incinerator, minimum combustion temperature shall be the operating parameter.

b. For a catalytic incinerator equipped with a fixed catalyst bed, the minimum gas temperature both upstream and downstream of the catalyst shall be the operating parameters.

c. For a catalytic incinerator equipped with a fluidized catalyst bed, the minimum gas temperature upstream of the catalyst

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bed and the pressure drop across the catalyst bed shall be the operating parameters.

(c) The value for each site-specific operating parameter in par.(b)4. shall be calculated as the arithmetic average of the maximum or minimum operating values, as appropriate, that demonstrate compliance with the standards, during the 3 test runs required by s. NR 465.09(3)(a).

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(3) STRIPPABLE SPRAY BOOTH COATINGS. Owners or operators of an affected source subject to the provisions s. NR 465.04(1)(c) or (2)(c) shall demonstrate initial compliance by submitting an initial compliance status report, as required by s. NR 465.11(2), stating that compliant strippable spray booth coatings are being used.

(4) WORK PRACTICE STANDARDS. Owners or operators of an affected source subject to the work practice standards in s. NR 465.05 shall demonstrate initial compliance by submitting an initial compliance status report, as required by s. NR 465.11(2), stating that the work practice implementation plan has been developed and procedures have been established for implementing the provisions of the plan.

NR 465.08 Continuous compliance demonstration. (1) FINISHING MATERIALS. Owners or operators of an affected source subject to the provisions of s. NR 465.04(1)(a) or (2)(a) shall demonstrate

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continuous compliance according to the following procedures as appropriate:

(a) If complying by using the methods in s. NR 465.06(1)(a)1. or (2)(a)1., submit the results of the averaging calculation using Equation 1 in s. NR 465.06(1)(a)1. for each month within that semiannual period, and submit a compliance certification with the semiannual report required by s. NR 465.11(3). The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source and shall state that the value of E, as calculated using Equation 1 in s. NR 465.06(1)(a)1., is no greater than 1.0 for existing sources or 0.8 for new sources. An affected source is in violation of the standard if the value of E is greater than 1.0 for existing sources or 0.8 for new sources for any month. A violation of the monthly average is a separate violation of the standard for each day of operation during the month, unless the affected source can demonstrate through records that the violation of the monthly average can be attributed to a particular day or days during the period.

(b) If complying by using the methods in s. NR 465.06(1)(a)2. or (2)(a)2., except as provided for in par.(c), submit a compliance certification with the semiannual report required by s. NR 465.11(3). The compliance certification shall be signed by a responsible official of the company that owns or operates the

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affected source and shall state that compliant stains, washcoats, sealers, topcoats, basecoats, enamels and thinners, as applicable, have been used each day in the semiannual reporting period or shall otherwise identify the periods of noncompliance and the reasons for noncompliance. An affected source is in violation of the standard whenever a noncompliant coating, as demonstrated by records or by a sample of the coating, is used.

(c) If complying by using the methods in s. NR 465.06(1)(a)2. or (2)(a)2. and applying coatings using continuous coaters, do one of the following:

1. Use compliant coatings, as determined by the VHAP content of the coating in the reservoir and the VHAP content as calculated from records, use compliant thinners and submit a compliance certification with the semiannual report required s. NR 465.11(3). The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source and shall state that compliant coatings have been used each day in the semiannual reporting period, or shall otherwise identify the days of noncompliance and the reasons for noncompliance. An affected source is in violation of the standard whenever a noncompliant coating, as determined by records or by a sample of the coating, is used. Use of a noncompliant coating is a separate violation for each day the noncompliant coating is used.

2. Use compliant coatings, as determined by the VHAP content

of the coating in the reservoir, use compliant thinners, maintain a viscosity of the coating in the reservoir that is no less than the viscosity of the initial coating by monitoring the viscosity with a viscosity meter or by testing the viscosity of the initial coating and retesting the coating in the reservoir each time solvent is added, maintain records of solvent additions and submit a compliance certification with the semiannual report required by s. NR 465.11(3). The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source and shall state that compliant coatings, as determined by the VHAP content of the coating in the reservoir, have been used each day in the semiannual reporting period. Additionally, the certification shall state that the viscosity of the coating in the reservoir has not been less than the viscosity of the ~~initial coating, that is,~~ the coating that is initially mixed and placed in the reservoir, for any day in the semiannual reporting period. An affected source is in violation of the standard when a sample of the as-applied coating exceeds the applicable limit established in s. NR 465.06(1)(a)2. or (2)(a)2., as determined using Method 311, in 40 CFR part 63, Appendix A, incorporated by reference in s. NR 438.04, or the viscosity of the coating in the reservoir is less than the viscosity of the initial coating.

(d) If complying by using the methods in s. NR 465.06(1)(a)3.

or (2)(a)3., install, calibrate, maintain and operate equipment according to manufacturer's specifications to monitor each site-specific operating parameter established in accordance with s. NR 465.07(2)(b)1. The owner or operator shall also submit the excess emissions and continuous monitoring system performance report and summary report required by ss. NR 465.11(4) and 460.09(5). The appropriate monitoring equipment and related requirements include the following:

1. For an incinerator, a temperature monitoring device equipped with a continuous recorder shall be used as follows:
 - a. Where a thermal incinerator is used, the temperature monitoring device shall be installed in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs.
 - b. Where a catalytic incinerator equipped with a fixed catalyst bed is used, temperature monitoring devices shall be installed in the gas stream immediately before and after the catalyst bed.
 - c. Where a catalytic incinerator equipped with a fluidized catalyst bed is used, the temperature monitoring device shall be installed in the gas stream immediately before the bed. In addition, a pressure monitoring device shall be installed to determine the pressure drop across the catalyst bed. The pressure drop shall be measured monthly at a constant flow rate.

2. For a carbon adsorber, one of the following shall be used:

a. An integrating stream flow monitoring device, having an accuracy of $\pm 10\%$, capable of recording the total regeneration stream mass flow for each regeneration cycle; and a carbon bed temperature monitoring device, having an accuracy of $\pm 1\%$ of the temperature being monitored or ± 0.5 °C, whichever is greater, and capable of recording the carbon bed temperature after each regeneration and within 15 minutes of completing any cooling cycle.

b. An organic compound monitoring device, equipped with a continuous recorder, to indicate the concentration level of organic compounds exiting the carbon adsorber.

c. Any other monitoring device that has been approved by the administrator in accordance with s. NR 465.07(1)(d)4.d.

3. Owners or operators of an affected source may not operate a capture or control device at a daily average value greater than or less than, as appropriate, the operating parameter values. The daily average value shall be calculated as the average of all values for a monitored parameter recorded during the operating day.

4. Owners or operators of an affected source that are complying through the use of a catalytic incinerator equipped with a fluidized catalyst bed shall maintain a constant pressure drop, measured monthly, across the catalyst bed.

5. An owner or operator using a control device not listed in s. NR 465.07(1)(d) shall submit, for the administrator's approval, a description of the device, test data verifying the performance of the device, and appropriate site-specific operating parameters that will be monitored to demonstrate continuous compliance with the standard.

(2) CONTACT ADHESIVES. Owners or operators of an affected source subject to the provisions of s. NR 465.04(1)(b) or (2)(b) shall demonstrate continuous compliance according to the following procedures as appropriate:

(a) If complying by using the methods in s. NR 465.06(1)(b), (c)1. or (2)(b)1., submit a compliance certification with the semiannual report required by s. NR 465.11(3). The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source and shall state that compliant contact adhesives, including foam adhesives, have been used each day in the semiannual reporting period, or should otherwise identify each day noncompliant contact or foam adhesives were used. Each day a noncompliant contact or foam adhesive is used is a single violation of the standard.

(b) If complying by using the methods in s. NR 465.06(1)(c)2. or (2)(b)2., install, calibrate, maintain and operate equipment according to the manufacturer's specifications to monitor each site-specific operating parameter established in accordance with

s. NR 465.07(2)(b)1. The owner or operator shall also submit the excess emissions and continuous monitoring system performance report and summary report required by ss. NR 465.11(4) and 460.09(5). The appropriate monitoring equipment and related requirements include the following:

1. For an incinerator, a temperature monitoring device equipped with a continuous recorder shall be used as follows:

a. Where a thermal incinerator is used, the temperature monitoring device shall be installed in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs.

b. Where a catalytic incinerator equipped with a fixed catalyst bed is used, temperature monitoring devices shall be installed in the gas stream immediately before and after the catalyst bed.

c. Where a catalytic incinerator equipped with a fluidized catalyst bed is used, the temperature monitoring device shall be installed in the gas stream immediately before the bed. In addition, a pressure monitoring device shall be installed to measure the pressure drop across the catalyst bed. The pressure drop shall be measured monthly at a constant flow rate.

2. For a carbon adsorber, one of the following shall be used:

a. An integrating stream flow monitoring device having an accuracy of $\pm 10\%$, capable of recording the total regeneration

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stream mass flow for each regeneration cycle; and a carbon bed temperature monitoring device, having an accuracy of $\pm 1\%$ of the temperature being monitored or ± 0.5 °C, whichever is greater, and capable of recording the carbon bed temperature after each regeneration and within 15 minutes of completing any cooling cycle.

b. An organic compound monitoring device, equipped with a continuous recorder, to indicate the concentration level of organic compounds exiting the carbon adsorber.

c. Any other monitoring device that has been approved by the administrator in accordance with s. NR 465.07(1)(d)4.d.

3. Owners or operators of an affected source may not operate a capture or control device at a daily average value greater than or less than, as appropriate, the operating parameter values. The daily average value shall be calculated as the average of all values for a monitored parameter recorded during the operating day.

4. Owners or operators of an affected source that are complying through the use of a catalytic incinerator equipped with a fluidized catalyst bed shall maintain a constant pressure drop, measured monthly, across the catalyst bed.

5. An owner or operator using a control device not listed in s. NR 465.07(1)(d) shall submit for the administrator's approval a description of the device, test data verifying the performance of

the device, and appropriate site specific operating parameters that will be monitored to demonstrate continuous compliance with the standard.



(3) STRIPPABLE SPRAY BOOTH COATINGS. Owners or operators of an affected source subject to the provisions s. NR 465.04(1)(c) or (2)(c) shall demonstrate continuous compliance by submitting a compliance certification with the semiannual report required by s. NR 465.11(3). The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source and shall state that compliant strippable spray booth coatings have been used each day in the semiannual reporting period, or should otherwise identify each day noncompliant materials were used. Each day a noncompliant strippable booth coating is used is a single violation of the standard.

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(4) WORK PRACTICE STANDARDS. Owners or operators of an affected source ~~subject to~~ the work practice standards in s. NR 465.05 shall demonstrate continuous compliance by submitting a compliance certification with the semiannual report required by s. NR 465.11(3). The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source and shall state that the work practice implementation plan is being followed, or should otherwise identify the provisions of the plan that have not been implemented and each day the provisions were not implemented. During any

period of time that an owner or operator is required to implement the provisions of the plan, each failure to implement an obligation under the plan during any particular day is a violation.

*Except as provided in para. (c),
(a) the o. or o. of an affected source shall use*

NR 465.09 Performance test methods. (1) Method 311 in 40 CFR part 63, Appendix A, incorporated by reference in s. NR 484.04, shall be used in conjunction with formulation data to determine the VHAP content of the liquid coating. Formulation data shall be used to identify VHAP present in the coating. Method 311 shall then be used to quantify those VHAP identified through formulation data. Method 311 may not be used to quantify HAP ^{Example...} such as styrene and formaldehyde that are emitted during the cure. *(b) the o. or o. shall use* Method 24 in 40 CFR part 60, Appendix A, incorporated by reference in s. NR 484.04, shall be used to determine the solids content by weight and the density of coatings. If it is demonstrated to the satisfaction of the administrator that a coating does not release VOC or HAP byproducts during the cure, ~~for example, all VOC and HAP present in the coating is solvent,~~ *here* then batch formulation ^(c) information shall be accepted. ^(c) The owner or operator of an affected source may request approval from the administrator to use an alternative method for determining the VHAP content of the coating. In the event of any inconsistency between Method 24 or Method 311 test data for a material and formulation data for the

same material, the applicable test method shall govern unless, after consultation, the owner or operator can demonstrate to the satisfaction of the department that the formulation data are correct.

(2) Owners or operators demonstrating compliance in accordance with s. NR 465.07(1)(d) or (2)(b) or 465.08(1)(d) or (2)(b), or complying with any of the other emission limits of s. NR 465.04 by operating a capture and control device, shall determine the overall control efficiency of the control system (R) as the product of the capture and control device efficiency, using the test methods in sub. (3) and the procedures in sub. (4).

(3) When an initial compliance demonstration is required by s. NR 465.07(1)(d) or (2)(b), the following test methods shall be used:

(a) Method 18 in 40 CFR part 60, Appendix A, incorporated by reference in s. NR 484.04, shall be used to determine the HAP concentration of gaseous air streams. The test shall consist of 3 separate runs, each lasting a minimum of 30 minutes.

(b) Method 1 or 1A in 40 CFR part 60, Appendix A, incorporated by reference in s. NR 484.04, shall be used for sample and velocity traverses.

(c) Method 2, 2A, 2C or 2D in 40 CFR part 60, Appendix A, incorporated by reference in s. NR 484.04, shall be used to measure velocity and volumetric flow rates.

(d) Method 3 in 40 CFR part 60, Appendix A, incorporated by reference in s. NR 484.04, shall be used to analyze the exhaust gases.

(e) Method 4 in 40 CFR part 60, Appendix A, incorporated by reference in s. NR 484.04, shall be used to measure the moisture in the stack gas.

(f) Methods 2, 2A, 2C, 2D, 3 and 4 in 40 CFR part 60, Appendix A, incorporated by reference in s. NR 484.04, shall be performed, as applicable, at least twice during each test period.

(4) Each owner or operator of an affected source demonstrating compliance in accordance with s. NR 465.07(1)(d) or (2)(b) shall perform a gaseous emission test using the following procedures:

(a) Construct the overall HAP emission reduction system so that all volumetric flow rates and total HAP emissions can be accurately determined by the applicable test methods specified in s. NR 465.09(3) ~~(a) to (f)~~.

(b) Determine capture efficiency from the affected emission points by capturing, venting and measuring all HAP emissions from the affected emission points. The owner or operator shall isolate affected emission points located in an area with other nonaffected gaseous emission sources from all other gaseous emission points and shall determine capture efficiency according to the following procedures as appropriate:

1. For temporary total enclosures, capture efficiency shall be determined according to Method 204, and as applicable, Methods 204A through 204F, in 40 CFR part 51, Appendix M, incorporated by reference in s. NR 484.04.

2. For permanent total enclosures built around the affected emissions points, and where the building that houses the process is used as the enclosure, capture efficiency shall be assumed to be 100% when the requirements for a permanent total enclosure in Method 204, in 40 CFR part 51, Appendix M, incorporated by reference in s. NR 484.04, are satisfied. Notwithstanding par. (e), when a permanent total enclosure is confirmed through Method 204, a value of one shall be used for N when determining R under sub. (5), (6), (7) or (8).

3. Use any alternative protocol and test method provided they meet either the requirements of the data quality objective (DQO) approach or the lower confidence level (LCL) approach in 40 CFR part 63, Subpart KK, Appendix A, incorporated by reference in s. NR 484.04.

4. Shut down all nonaffected HAP emission points and continue to exhaust fugitive emissions from the affected emission points through any building ventilation system and other room exhausts such as drying ovens. All exhaust air shall be vented through stacks suitable for testing.

5. Use another methodology approved by the administrator

provided it complies with the criteria for acceptance under Method 301 in 40 CFR part 63, Appendix A, incorporated by reference in s. NR 484.04.

(c) Operate the control device with all affected emission points that will subsequently be delivered to the control device connected and operating at maximum production rate.

(d) Determine the efficiency (F) of the control device using the following equation:

$$F = \frac{\sum_{i=1}^n Q_{bi} C_{bi} - \sum_{j=1}^p Q_{aj} C_{aj}}{\sum_{i=1}^n Q_{bi} C_{bi}} \quad \text{(Equation 5)}$$

(e) Determine the efficiency (N) of the capture system using the following equation:

$$N = \frac{\sum_{i=1}^n Q_{di} C_{di}}{\sum_{i=1}^n Q_{di} C_{di} + \sum_{k=1}^p Q_{fk} C_{fk}} \quad \text{(Equation 6)}$$

(5) For each affected source complying with s. NR 465.04(1)(a) in accordance with s. NR 465.06(1)(a)3., compliance is demonstrated if the product of (F x N)(100) yields a value (R) such that the value of E_{ac} in Equation 2 in s. NR 465.06(1)(a)3. is no greater than 1.0.

*Why not write a formula for
* 62 calculating E_{ac} ?*

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(6) For each new affected source complying s. NR 465.04(2) (a) in accordance with s. NR 465.06(2) (a)3., compliance is demonstrated if the product of $(F \times N) (100)$ yields a value (R) such that the value of E_{ac} in Equation 4 in s. NR 465.06(2) (a)3. is no greater than 0.8. *L.H.O.*

(7) For each affected source complying with s. NR 465.04(1) (b)2. in accordance with s. NR 465.06(1) (c)2., compliance is demonstrated if the product of $(F \times N) (100)$ yields a value (R) such that the value of G_{ac} in Equation 3 in s. NR 465.06(1) (c)2. is no greater than 1.0. *L.H.O.*

(8) For each new affected source complying with s. NR 465.04(2) (b) in accordance with s. NR 465.06(2) (b)2., compliance is demonstrated if the product of $(F \times N) (100)$ yields a value (R) such that the value of G_{ac} in Equation 3 s. NR 465.06(1) (c)2. is no greater than 0.2. *L.H.O.*

NR 465.10 Recordkeeping requirements. (1) The owner or operator of an affected source shall fulfill *comply with* all recordkeeping requirements of s. NR 460.09 according to the applicability criteria in s. NR 465.01(1) (d). (5)

How long keep records? *R*

(2) The owner or operator of an affected source subject to the emission limits in s. NR 465.04 shall maintain records of the following as appropriate:

(a) A certified product data sheet for each finishing

L.H.O.
where?
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material, thinner, contact adhesive and strippable spray booth coating subject to the emission limits in s. NR 465.04.

(b) The VHAP content, in kg VHAP/kg solids (lb VHAP/lb solids), as applied, of each finishing material and contact adhesive subject to the emission limits in s. NR 465.04.

(c) The VOC content, in kg VOC/kg solids (lb VOC/lb solids), as applied, of each strippable spray booth coating subject to the emission limits in s. NR 465.04(1)(c) or (2)(c).

(3) The owner or operator of an affected source following the compliance method in s. NR 465.06(1)(a)1. or (2)(a)1. shall maintain copies of the averaging calculation for each month following the compliance date, as well as the data on the quantity of coatings and thinners used that is necessary to support the calculation of E in Equation 1 in s. NR 465.06(1)(a)1.

(4) The owner or operator of an affected source following the compliance procedures of s. NR 465.07(1)(c)2. or 465.08(1)(c)2. shall maintain the records required by s. NR 465.10(2) as well as records of all of the following:

(a) Solvent and coating additions to the continuous coater reservoir.

(b) Viscosity measurements.

(c) Data demonstrating that viscosity is an appropriate parameter for demonstrating compliance.

(5) The owner or operator of an affected source subject to

the work practice standards in s. NR 465.05 shall maintain onsite a work practice implementation plan and all records associated with fulfilling the requirements of that plan, including, but not limited to, all of the following:

(a) Records demonstrating that the operator training program required by s. NR 465.05(2) is in place.

(b) Records collected in accordance with the inspection and maintenance plan required by s. NR 465.05(3).

(c) Records associated with the cleaning solvent accounting system required by s. NR 465.05(4).

(d) Records associated with the limitation on the use of conventional air spray guns showing total finishing material usage and the percentage of finishing materials applied with conventional air spray guns for each semiannual period as required by s. NR 465.05(8)(e).

(e) Records associated with the formulation assessment plan required by s. NR 465.05(12).

(f) Copies of documentation such as logs developed to demonstrate that the other provisions of the work practice implementation plan are followed.

(6) The owner or operator of an affected source following the compliance method of s. NR 465.07(1)(d) or 465.08(1)(d) shall maintain copies of the calculations demonstrating that the overall control efficiency (R) of the control system results in the value

of E_{ac} required by Equation 2 in s. NR 465.06(1)(a)3. or Equation 4 in s. NR 465.06(2)(a)3., records of the operating parameter values, and copies of the semiannual compliance reports required by s. NR 465.11(4).

(7) The owner or operator of an affected source following the compliance method of s. NR 465.07(2)(b) or 465.08(2)(b) shall maintain copies of the calculations demonstrating that the overall control efficiency (R) of the control system results in the applicable value of G_{ac} calculated using Equation 3 in s. NR 465.06(1)(c)2., records of the operating parameter values, and copies of the semiannual compliance reports required by s. NR 465.11(4).

(8) The owner or operator of an affected source subject to the emission limits in s. NR 465.04 and following the compliance provisions of s. NR 465.07(1)(a) to (c), (2)(a), (3) or (4) or 465.08(1)(a) to (c), (2)(a), (3) or (4) shall maintain records ^{copies} of the compliance certifications submitted in accordance with s. NR 465.11(3) for each semiannual period following the compliance date.

(9) The owner or operator of an affected source shall maintain records of all other information submitted with the compliance status report required by ss. NR 460.08(8) and 465.11(2) and the semiannual reports required by s. NR 465.11(3).

(10) The owner or operator of an affected source shall