

Kathleen Hartnett White, *Chairman*  
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Glenn Shankle, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

December 22, 2005

Mr. Robert Kennedy  
Air Program Manager  
U.S. Department of the Army  
77th and Warehouse Avenue  
Fort Hood, Texas 76544-5057

Re: Permits by Rule Registration Number: 50528  
Three (3) Paint Operations-Buildings 88037, 1121, and 32040 and (433) degreasing units  
Fort Hood, Bell County  
Regulated Entity Number: RN101612083  
Customer Reference Number: CN600126262

Dear Mr. Kennedy:

This is a correction to our letter issued April 1, 2002, regarding your painting and degreasing facilities near Fort Hood, Bell County. We understand that there are 433 degreasing units in addition to the 3 paint booths at your site. After evaluation of the information which you have furnished, we have determined that your project is still authorized under Title 30 Texas Administrative Codes §§ 106.433 and 106.454 (30 TAC §§ 106.433 and 106.454) if constructed and operated as described in your submittal. We understand that the estimated emissions associated with this project are 3.0 tons per year of volatile organic compounds.

These permits by rule were authorized by the Texas Commission on Environmental Quality (TCEQ) pursuant to 30 TAC Chapter 106. A copy of the permit by rule in effect at the time of this registration is enclosed. You must construct, install, or modify facilities in accordance with the version of the permit(s) by rule in effect when construction, installation or modification actually begins [see 30 TAC 106.4(a)(5)]. After completion of construction, installation or modification, the facility shall be operated in compliance with the all applicable conditions of the claimed permit by rule and 30 TAC 106.4.

You are reminded that regardless of whether a permit is required, these facilities must be in compliance with all rules and regulations of the TCEQ and of the U.S. Environmental Protection Agency at all times.

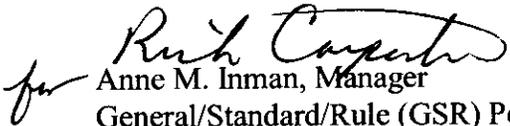
Mr. Robert Kennedy  
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December 22, 2005

Re: Permits by Rule Registration Number: 50528

Please reference the regulated entity number (RN), customer reference number (CN), and permit number noted in this document in all your future correspondence for the referenced facility or site. The RN replaces the former TCEQ account number for the facility (if portable) or site (if permanent). The CN is a unique number assigned to the company or corporation and applies to all facilities and sites owned or operated by this company or corporation.

Your cooperation in this matter is appreciated. If you have any questions concerning these permits by rule, please contact Mr. Dario Hearn at (713) 767-3740 or write to the Texas Commission on Environmental Quality, Office of Permitting, Remediation, and Registration, Air Permits Division (MC-163), P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,



Anne M. Inman, Manager  
General/Standard/Rule (GSR) Permit Section  
Air Permits Division  
Texas Commission on Environmental Quality

AMI/DJH/alb

Enclosures

cc: Mr. Salal Tahiri, Air Program Manager - Region 9

Project Number: 87382

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**TITLE 30****ENVIRONMENTAL QUALITY****PART 1****TEXAS COMMISSION ON ENVIRONMENTAL QUALITY****CHAPTER 106****PERMITS BY RULE****SUBCHAPTER S****SURFACE COATING****RULE §106.433****Surface Coat Facility**

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Surface coating or stripping facilities, excluding vehicle repair and refinishing shops, shall meet the following conditions of this section to be permitted by rule.

(1) This section does not cover metalizing (spraying molten metal onto a surface to form a coating). However, this section does cover the use of coatings which contain metallic pigments.

(2) All facilities covered by this section at a site shall implement good housekeeping procedures to minimize fugitive emissions, including the following.

(A) All spills shall be cleaned up immediately.

(B) The booth or work area exhaust fans shall be operating when cleaning spray guns and other equipment.

(C) All new and used coatings and solvents shall be stored in closed containers. All waste coatings and solvents shall be removed from the site by an authorized disposal service or disposed of at a permitted on-site waste management facility.

(3) Drying or curing ovens shall either be electric or meet the following conditions:

(A) The maximum heat input to any oven must not exceed 40 million British thermal units per hour (Btu/hr).

(B) Heat shall be provided by the combustion of one of the following: sweet natural gas; liquid petroleum gas; fuel gas containing no more than 5.0 grains of total sulfur compounds (calculated as sulfur) per 100 dry standard cubic foot; or Number 2 fuel oil with not more than 0.3% sulfur by weight.

(4) No add-on control equipment shall be used to meet the emissions limits of this section. The total uncontrolled emissions from the coating materials (as applied) and cleanup solvents shall not exceed the following for all operations:

(A) 25 tons per year (tpy) of volatile organic compounds (VOC) and ten tpy of exempt solvents for all surface coating and stripping operations covered by section at a site;

(B) 30 pounds per hour (lb/hr) of VOC and 5.0 lb/hr of exempt solvents for all surface coating and stripping operations covered by this section at a site;

(C) if emissions are less than 0.25 lb/hr of VOC and/or exempt solvents, a facility is exempt from the remaining requirements of this section, including paragraphs (5) - (9) of this section.

(5) Opacity of visible emissions shall not exceed 5.0%. Compliance shall be determined by the United States Environmental Protection Agency Method 9 averaged over a six-minute period.

(6) The following conditions apply to surface coating operations performed indoors, in a booth, or in an enclosed work area:

(A) no more than six lb/hr of VOC emissions, averaged over any five-hour period, and 500 pounds per week per booth or enclosed work area;

(B) minimum face velocity at the intake opening of each booth or work area is 100 feet per minute (ft/min). Emissions shall be exhausted through elevated stacks that extend at least 1.5 times the building height above ground level. All stacks shall discharge vertically; rain protection shall not restrict or obstruct vertical flow;

(C) for spraying operations, emissions of particulate matter must be controlled using either a water wash system or a dry filter system with a 95% removal efficiency as documented by the manufacturer. The face velocity at the filter shall not exceed 250 ft/min or that specified by the filter manufacturer, whichever is less. Filters shall be replaced whenever the pressure drop across the filter no longer meets the manufacturer's recommendation.

(7) For surface coating operations that are performed outdoors or in a non-enclosed work area, or for indoor operations that do not meet the conditions of paragraph (6) of this section, the following conditions apply.

(A) No more than six lb/hr of VOC emissions, averaged over any five-hour period, and 500 pounds per week shall be emitted at any time for all operations authorized by this paragraph.

(B) If coatings applied with spray equipment contain more than 0.1% by weight of chromates, lead, cadmium, selenium, strontium, or cobalt, then total VOC emissions shall be further limited to 240 pounds per week and 2,000 pounds per year. If coatings are applied with non-spray equipment (such as brushes, rollers, dipping or flow coating), the additional restrictions in this paragraph do not apply.

(C) Coating operations shall be conducted at least 50 feet from the property line and at least 250 feet from any recreational area, residence, or other structure not occupied or used solely by the owner or operator of the facility or the owner of the property upon which the facility is located.

(D) Before construction of the facility begins, written site approval shall be received from the appropriate regional office of the commission or any local program having jurisdiction.

(8) The following records shall be maintained at the plant site for the most recent 24 months and be made immediately available to the commission or any pollution control agency with jurisdiction:

(A) material safety data sheets for all coating materials and solvents;

(B) data of daily coatings and solvent use and the actual hours of operation of each coating or stripping operation;

(C) a monthly report that represents actual hours of operation each day, and emissions from each operation in the following categories:

- (i) pounds per hour;
- (ii) pounds per day;
- (iii) pounds per week; and
- (iv) tons emitted from the site during the previous 12 months;

(D) examples of the method of data reduction including units, conversion factors, assumptions, and the basis of the assumptions.

(9) Before construction begins, the facility shall be registered with the commission using Form PI-7.

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**Source Note:** The provisions of this §106.433 adopted to be effective March 14, 1997, 22 TexReg 2439; amended to be effective September 4, 2000, 25 TexReg 8653

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**TITLE 30**

**ENVIRONMENTAL QUALITY**

**PART 1**

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

**CHAPTER 106**

**PERMITS BY RULE**

**SUBCHAPTER T**

**SURFACE PREPARATION**

**RULE §106.454**

**Degreasing Units**

Any degreasing unit that satisfies the following conditions of this section is permitted by rule.

(1) The following general requirements are applicable to all degreasers unless specifically noted by the conditions of this section.

(A) Units subject to paragraphs (3) - (5) of this section shall meet the following:

(i) register with the commission's Office of Permitting, Remediation, and Registration in Austin using Form PI-7 and a Degreasing Unit Checklist;

(ii) on a monthly basis, records shall be kept of total solvent makeup (gross usage minus waste disposal).

(B) Waste solvent from all degreasing operations shall be stored in covered containers, and be removed by a licensed disposal service or until emptying into an authorized on-site waste management facility.

(C) Porous or absorbent materials, such as cloth, leather, wood, or rope shall not be degreased.

(D) Leaks shall be repaired immediately, or the degreaser shall be shut down until repairs are completed.

(E) A permanent and conspicuous label summarizing proper operating procedures to minimize emissions shall be posted on or near the degreaser.

(F) Each unit, regardless of the county in which it is located, shall meet the requirements of §115.412 and §115.415 of this title (relating to Control Requirements and Testing Requirements).

(2) The following conditions apply only to remote reservoir cleaners.

(A) The cleaner shall be designed to prevent exposure of the solvent reservoir to the atmosphere except for the drain openings. The drain openings shall not exceed 3.0% of the total cleaner open area and shall under no conditions exceed 16 square inches.

(B) All solvent sprays shall be a solid fluid stream (not a fine, atomized, or shower type spray) and at a minimal operating pressure that is necessary to prevent excessive splashing, but not to exceed ten pounds per square inch, gauge (psig).

(C) The true vapor pressure of the solvent shall not exceed 0.6 pounds per square inch, absolute (psia) as measured or calculated at an operating temperature of 100 degrees Fahrenheit.

(D) The solvent shall not be heated.

(3) The following conditions apply only to cold solvent cleaners, not including remote reservoirs.

(A) The cleaner shall have a freeboard that has a minimum four-inch water cover or provides a freeboard ratio (the distance from top of the solvent level to the top edge of the degreasing tank divided by the degreaser width) equal to or greater than 0.7. For water covers, the solvent must be insoluble in and heavier than water.

(B) The unit shall be equipped with a cover which is closed whenever parts are not being handled in the cleaner. Also, the cover must be designed for easy one-handed operation if any of the following conditions are present:

(i) the true vapor pressure of the solvent is greater than 0.3 psia as measured or calculated at 100 degrees Fahrenheit;

(ii) the solvent is agitated;

(iii) the solvent is heated.

(C) If a solvent spray is used, it shall be a solid fluid stream (not a fine, atomized, or shower-type spray) with a minimal operating pressure that is necessary to prevent splashing above the acceptable freeboard. The operating pressure shall not exceed ten psig.

(D) An internal-cleaned parts drainage rack or facility, for enclosed draining under a cover, shall be provided. An external-cleaned parts drainage rack or facility, for enclosed draining under a cover, may be used if the vapor pressure of the solvent is less than 0.6 psia at 100 degrees Fahrenheit. In all cases, parts shall be drained for at least 15 seconds or until dripping ceases.

(E) The Form PI-7 registration is not required if total solvent makeup (gross usage minus waste disposal) is 110 gallons per year (gallon/yr) or less.

(F) Total solvent makeup shall not exceed the following:

(i) chlorinated solvents--660 gallons/yr;

(ii) all other solvents--1,500 gallons/yr.

(4) The following conditions apply only to open top solvent vapor degreasers.

(A) The surface area of the solvent shall not exceed 15 square feet.

(B) The unit shall be equipped with a cover that can be opened and closed easily without disturbing the vapor zone. If the degreaser opening exceeds ten square feet, a powered cover shall be required.

(C) The cover shall be closed at all times except when parts are moved into and out of the degreaser.

(D) The unit shall be equipped with a properly sized refrigerated chiller, or the unit shall have a freeboard ratio (the distance from top of the vapor level to the top edge of the degreasing tank divided

by the degreaser width) equal to or greater than 0.75.

(E) Exhaust ventilation for the unit shall operate between 50 and 65 cubic feet per minute (cfm) per square foot of degreaser open area unless this conflicts with Occupational Safety and Health Administration (OSHA) requirements. Ventilation fans or other sources of air agitation shall not be operated near the degreaser opening.

(F) The exhaust stacks shall discharge vertically with no restrictions or obstructions to flow. The stack height shall extend at least 1.3 times the building height as measured from ground level.

(G) Total solvent makeup (gross usage minus waste disposal) shall not exceed the following:

- (i) chlorinated solvents--660 gallons/yr;
- (ii) all other solvents--1500 gallons/yr.

(5) The following conditions apply only to conveyORIZED degreasers.

(A) The inlet and outlet openings shall be closed at all times except when processing work through the degreaser.

(B) The unit shall be equipped with a properly sized refrigerated chiller which has a volatile organic compound removal efficiency of at least 85%, or the unit shall have a freeboard ratio (the distance from top of the vapor level to the top edge of the degreasing tank divided by the degreaser width) equal to or greater than 0.75.

(C) A drying tunnel or other means of control shall be used to limit liquid or vapor carry-out.

(D) Entrances and exits to the degreaser shall be designed to silhouette work loads.

(E) Exhaust ventilation for the unit shall operate between 50 and 65 cfm per square foot of degreaser opening unless this conflicts with OSHA requirements. Ventilation fans or other sources of air agitation shall not be operated near the degreaser openings.

(F) The exhaust stacks shall discharge vertically with no restrictions or obstructions to flow. The stack height shall extend at least 1.5 times the building height as measured from ground level.

(G) Total solvent makeup (gross usage minus waste disposal) shall not exceed the following:

- (i) chlorinated solvents--660 gallons/yr;
- (ii) all other solvents--1,500 gallons/yr.

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**Source Note:** The provisions of this §106.454 adopted to be effective March 14, 1997, 22 TexReg 2439; amended to be effective July 8, 1998, 23 TexReg 6966; amended to be effective September 4, 2000, 25 TexReg 8653; amended to be effective November 1, 2001, 26 TexReg 8518

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**TITLE 30**

**ENVIRONMENTAL QUALITY**

**PART 1**

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

**CHAPTER 106**

**PERMITS BY RULE**

**SUBCHAPTER A**

**GENERAL REQUIREMENTS**

**RULE §106.4**

**Requirements for Permitting by Rule**

(a) To qualify for a permit by rule, the following general requirements must be met.

(1) Total actual emissions authorized under permit by rule from the facility shall not exceed 250 tons per year (tpy) of carbon monoxide (CO) or nitrogen oxides (NO<sub>x</sub>); or 25 tpy of volatile organic compounds (VOC) or sulfur dioxide (SO<sub>2</sub>) or inhalable particulate matter (PM<sub>10</sub>); or 25 tpy of any other air contaminant except carbon dioxide, water, nitrogen, methane, ethane, hydrogen, and oxygen.

(2) Any facility or group of facilities, which constitutes a new major stationary source, as defined in §116.12 of this title (relating to Nonattainment Review Definitions), or any modification which constitutes a major modification, as defined in §116.12 of this title, under the new source review requirements of the Federal Clean Air Act (FCAA), Part D (Nonattainment) as amended by the FCAA Amendments of 1990, and regulations promulgated thereunder, must meet the permitting requirements of Chapter 116, Subchapter B of this title (relating to New Source Review Permits) and cannot qualify for a permit by rule under this chapter. Persons claiming a permit by rule under this chapter should see the requirements of §116.150 of this title (relating to New Major Source or Major Modification in Ozone Nonattainment Areas) to ensure that any applicable netting requirements have been satisfied.

(3) Any facility or group of facilities, which constitutes a new major stationary source, as defined in 40 Code of Federal Regulations (CFR) §52.21, or any change which constitutes a major modification, as defined in 40 CFR §52.21, under the new source review requirements of the FCAA, Part C (Prevention of Significant Deterioration) as amended by the FCAA Amendments of 1990, and regulations promulgated thereunder, must meet the permitting requirements of Chapter 116, Subchapter B of this title and cannot qualify for a permit by rule under this chapter.

(4) Unless at least one facility at an account has been subject to public notification and comment as required in Chapter 116, Subchapter B or Subchapter D of this title (relating to New Source Review Permits or Permit Renewals), total actual emissions from all facilities permitted by rule at an account shall not exceed 250 tpy of CO or NO<sub>x</sub>; or 25 tpy of VOC or SO<sub>2</sub> or PM<sub>10</sub>; or 25 tpy of any other air contaminant except carbon dioxide, water, nitrogen, methane, ethane, hydrogen, and oxygen.

(5) Construction or modification of a facility commenced on or after the effective date of a revision of this section or the effective date of a revision to a specific permit by rule in this chapter must meet the revised requirements to qualify for a permit by rule.

(6) A facility shall comply with all applicable provisions of the FCAA, §111 (Federal New Source Performance Standards) and §112 (Hazardous Air Pollutants), and the new source review requirements of the FCAA, Part C and Part D and regulations promulgated thereunder.

(7) There are no permits under the same commission account number that contain a condition or

conditions precluding the use of a permit by rule under this chapter.

(8) The proposed facility or group of facilities shall obtain allowances for NO<sub>x</sub> if they are subject to Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program).

(b) No person shall circumvent by artificial limitations the requirements of §116.110 of this title (relating to Applicability).

(c) The emissions from the facility shall comply with all rules and regulations of the commission and with the intent of the TCAA, including protection of health and property of the public, and all emissions control equipment shall be maintained in good condition and operated properly during operation of the facility.

(d) Facilities permitted by rule under this chapter are not exempted from any permits or registrations required by local air pollution control agencies. Any such requirements must be in accordance with TCAA, §382.113 and any other applicable law.

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**Source Note:** The provisions of this §106.4 adopted to be effective November 15, 1996, 21 TexReg 10881; amended to be effective April 7, 1998, 23 TexReg 3502; amended to be effective September 4, 2000, 25 TexReg 8653; amended to be effective March 29, 2001, 26 TexReg 2396

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TITLE 30

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PART 1

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CHAPTER 115

CONTROL OF AIR POLLUTION FROM VOLATILE ORGANIC COMPOUNDS

SUBCHAPTER E

SOLVENT-USING PROCESSES

DIVISION 1

DEGREASING PROCESSES

**RULE §115.412**

**Control Requirements**

In the Beaumont/Port Arthur, Dallas/Fort Worth, El Paso, and Houston/Galveston areas as defined in §115.10 of this title (relating to Definitions) and in Gregg, Nueces, Victoria, Bexar, Comal, Guadalupe, Wilson, Bastrop, Caldwell, Hays, Travis, and Williamson Counties, the following control requirements shall apply.

(1) Cold solvent cleaning. No person shall own or operate a system utilizing a volatile organic compound (VOC) for the cold solvent cleaning of objects without the following controls.

(A) A cover shall be provided for each cleaner which shall be kept closed whenever parts are not being handled in the cleaner. The cover shall be designed for easy one-handed operation if any of the following exists:

(i) the true vapor pressure of the solvent is greater than 0.3 psia (2 kPa) as measured at 100 degrees Fahrenheit (38 degrees Celsius);

(ii) the solvent is agitated; or

(iii) the solvent is heated.

(B) An internal cleaned-parts drainage facility, for enclosed draining under a cover, shall be provided for all cold solvent cleaners.

(C) A permanent label summarizing the operating requirements in subparagraph (F) of this paragraph shall be attached to the cleaner in a conspicuous location near the operator.

(D) If a solvent spray is used, it must be a solid fluid stream (not a fine, atomized, or shower-type spray) and at an operating pressure of ten psig or less as necessary to prevent splashing above the acceptable freeboard.

(E) The system shall be equipped with a freeboard that provides a ratio equal to or greater than 0.7, or a water cover (solvent must be insoluble in and heavier than water). To determine the freeboard ratio, the freeboard height measurement is taken from the top of the degreaser to the top of the air/solvent level. This number is then divided by the smallest width measurement. The width measurement is taken at the smallest interior dimension. This dimension could be located at any point, from the top or opening of the unit to the air/solvent level.

(F) The operating procedures shall be as follows.

(i) Waste solvent shall not be disposed of or transferred to another party such that the waste solvent can evaporate into the atmosphere. Waste solvents shall be stored only in covered containers.

(ii) The degreaser cover shall be kept closed whenever parts are not being handled in the cleaner.

(iii) Parts shall be drained for at least 15 seconds or until dripping ceases.

(iv) Porous or absorbent materials, such as cloth, leather, wood, or rope, shall not be degreased.

(2) Open-top vapor degreasing. No person shall own or operate a system utilizing a VOC for the open-top vapor degreasing of objects without the following controls:

(A) a cover that can be opened and closed easily without disturbing the vapor zone;

(B) the following devices which will automatically shut off the sump heat:

(i) a condenser coolant flow sensor and thermostat which will detect if the condenser coolant is not circulating or if the condenser coolant temperature exceeds the solvent manufacturer's recommendations;

(ii) a solvent level sensor which will detect if the solvent level drops below acceptable design limits; and

(iii) a vapor level sensor which will detect if the vapor level rises above acceptable design limits;

(C) a spray safety switch which will shut off the spray pump to prevent spraying above the vapor level;

(D) one of the following controls:

(i) a freeboard that provides a ratio equal to or greater than 0.75 and, if the degreaser opening is greater than 10 ft<sup>2</sup> (1m<sup>2</sup>), a powered cover. To determine the freeboard ratio, the freeboard height measurement is taken from the top of the degreaser to the top of the air/vapor level. This number is then divided by the smallest width measurement. The width measurement is taken at the smallest interior dimension. This dimension could be located at any point, from the top or opening of the unit to the air/vapor level;

(ii) a properly sized refrigerated chiller capable of achieving 85% or greater control of VOC emissions;

(iii) an enclosed design where the cover or door opens only when the dry part is actually entering or exiting the degreaser; or

(iv) a carbon adsorption system with ventilation equal to or greater than 50 cfm/ft<sup>2</sup> (15m<sup>3</sup>/min per m<sup>2</sup>) of air/vapor area (with the cover open) and exhausting less than 25 ppm of solvent by volume averaged over one complete adsorption cycle;

(E) a permanent, conspicuous, label summarizing the operating procedures listed in subparagraph (F) of this paragraph;

(F) the following operating procedures:

- (i) the cover shall be closed at all times except when processing work loads through the degreaser;
- (ii) parts shall be positioned so that complete drainage is obtained;
- (iii) parts shall be moved in and out of the degreaser at less than 11 ft/min (3.3 m/min);
- (iv) the work load shall be retained in the vapor zone at least 30 seconds or until condensation ceases;
- (v) any pools of solvent on the cleaned parts shall be removed by tipping the part before withdrawing it from the vapor zone;
- (vi) parts shall be allowed to dry within the degreaser freeboard area for at least 15 seconds or until visually dry;
- (vii) porous or absorbent materials, such as cloth, leather, wood, or rope, shall not be degreased;
- (viii) work loads shall not occupy more than half of the degreaser open top surface area;
- (ix) solvent shall not be sprayed above the vapor level;
- (x) solvent leaks shall be repaired immediately, or the degreaser shall be shut down until repairs are made;
- (xi) waste solvent shall not be disposed of or transferred to another party such that the waste solvent will evaporate into the atmosphere. Waste solvent shall be stored only in covered containers;
- (xii) exhaust ventilation for systems other than those which vent to a major control device shall not exceed 65 cfm per ft<sup>2</sup> (20 m<sup>3</sup> /min per m<sup>2</sup>) of degreaser open area, unless necessary to meet Occupational Safety and Health Administration (OSHA) requirements or unless a carbon adsorption system is installed as a major control device. Ventilation fans or other sources of air agitation shall not be used near the degreaser opening;
- (xiii) water shall not be visibly detectable in the solvent exiting the water separator.

(3) Conveyorized degreasing. No person shall own or operate a system utilizing a VOC for the conveyorized cleaning of objects without the following controls:

(A) one of the following major control devices:

(i) a properly sized refrigerated chiller capable of achieving 85% or greater control of VOC emissions; or

(ii) a carbon adsorption system with ventilation equal to or greater than 50 cfm/ft<sup>2</sup> (15 m<sup>3</sup> /min/m<sup>2</sup>) of air/vapor area (when downtime covers are open) and exhausting less than 25 ppm of solvent by volume averaged over one complete adsorption cycle;

(B) a drying tunnel or other means, such as rotating (tumbling) basket if space is available, to prevent solvent liquid or vapor carry-out;

(C) a condenser flow switch and thermostat which will shut off sump heat if the condenser coolant is not circulating or if the condenser coolant discharge temperature exceeds the solvent manufacturer's recommendation;

(D) a spray safety switch which will shut off the spray pump if the vapor level drops more than four inches (ten cm);

(E) a vapor level control thermostat which will shut off the sump heat when the vapor level rises above the designed operating level;

(F) entrances and exits which silhouette work loads so that the average clearance (between parts and edge of the degreaser opening) is either less than four inches (ten cm) or less than 10% of the width of the opening;

(G) downtime covers which close off the entrance and exit during nonoperating hours;

(H) a permanent, conspicuous label near the operator summarizing the operating requirements in subparagraph (I) of this paragraph;

(I) the following operating procedures:

(i) exhaust ventilation for systems other than those which vent to a major control device shall not exceed  $65 \text{ cfm/ft}^2$  ( $20 \text{ m}^3/\text{min/m}^2$ ) of degreaser opening, unless necessary to meet OSHA requirements or unless a carbon adsorption system is installed as a major control device. Ventilation fans shall not be used near the degreaser opening;

(ii) parts shall be positioned so that complete drainage is obtained;

(iii) vertical conveyor speed shall be maintained at less than 11 ft/min (3.3 m/min);

(iv) waste solvent shall not be disposed of, or transferred to another party, such that the waste solvent can evaporate into the atmosphere. Waste solvent shall be stored only in covered containers;

(v) leaks shall be repaired immediately or the degreaser shall be shut down until repairs are made;

(vi) water shall not be visibly detectable in the solvent exiting the water separator;

(vii) downtime covers shall be placed over entrances and exits of conveyORIZED degreasers immediately after the conveyor and exhaust are shut down and removed just before they are started up;

(viii) porous or absorbent materials, such as cloth, leather, wood, or rope, shall not be degreased.

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**Source Note:** The provisions of this §115.412 adopted to be effective February 19, 1990, 15 TexReg 549; amended to be effective August 1, 1992, 17 TexReg 4683; amended to be effective May 27, 1994, 19 TexReg 3703; amended to be effective March 7, 1996, 21 TexReg 1548; amended to be effective August 29, 2001, 26 TexReg 6303; amended to be effective December 9, 2004, 29 TexReg 11360

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**TITLE 30**

**ENVIRONMENTAL QUALITY**

**PART 1**

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

**CHAPTER 115**

**CONTROL OF AIR POLLUTION FROM VOLATILE ORGANIC COMPOUNDS**

**SUBCHAPTER E**

**SOLVENT-USING PROCESSES**

**DIVISION 1**

**DEGREASING PROCESSES**

**RULE §115.415**

**Testing Requirements**

The testing requirements for degreasing processes in the Beaumont/Port Arthur, Dallas/Fort Worth, El Paso, and Houston/Galveston areas and in Gregg, Nueces, Victoria, Bexar, Comal, Guadalupe, Wilson, Bastrop, Caldwell, Hays, Travis, and Williamson Counties are as follows.

(1) Compliance with §115.412(1) of this title (relating to Control Requirements) shall be determined by applying the following test methods, as applicable:

(A) determination of true vapor pressure using American Society for Testing Materials (ASTM) Test Method D323-89, ASTM Test Method D2879, ASTM Test Method D4953, ASTM Test Method D5190, or ASTM Test Method D5191 for the measurement of Reid vapor pressure (RVP), adjusted for actual storage temperature in accordance with American Petroleum Institute (API) Publication 2517, Third Edition, 1989; or

(B) minor modifications to these test methods and procedures approved by the executive director.

(2) Compliance with §115.412(2)(D)(iv) and (3)(A)(ii) of this title and §115.413(3) of this title (relating to Alternate Control Requirements) shall be determined by applying the following test methods, as appropriate:

(A) Test Methods 1-4 (40 Code of Federal Regulations (CFR) 60, Appendix A) for determining flow rates, as necessary;

(B) Test Method 18 (40 CFR 60, Appendix A) for determining gaseous organic compound emissions by gas chromatography;

(C) Test Method 25 (40 CFR 60, Appendix A) for determining total gaseous nonmethane organic emissions as carbon;

(D) Test Methods 25A or 25B (40 CFR 60, Appendix A) for determining total gaseous organic concentrations using flame ionization or nondispersive infrared analysis; or

(E) minor modifications to these test methods and procedures approved by the executive director.

(3) Test methods other than those specified in paragraphs (1) and (2) of this section may be used if validated by 40 CFR 63, Appendix A, Test Method 301. For the purposes of this paragraph, substitute "executive director" each place that Test Method 301 references "administrator."

**Source Note:** The provisions of this §115.415 adopted to be effective February 19, 1990, 15 TexReg 549; amended to be effective August 1, 1992, 17 TexReg 4683; amended to be effective May 27, 1994, 19 TexReg 3703; amended to be effective August 29, 2001, 26 TexReg 6303; amended to be effective December 9, 2004, 29 TexReg 11360

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