

Specified Solvent-Using Processes in Bexar, Brazoria, Dallas, Ector, El Paso, Galveston, Gregg, Harris, Jefferson, Nueces, Orange, Tarrant, and Victoria Counties

The section revisions, consisting of additional control equipment requirements and the extension of certain provisions to additional counties, were adopted essentially as proposed with minor wording changes and the deletion of provisions for alternate control methods (which is covered by §115.401). For consistency with other sections of Regulation V, §115.175 (131.07.59.105), Compliance Schedule and Counties, was retitled Counties and Compliance Schedule, renumbered §115.176 (.105), and moved to the end of the subchapter while the former §115.176 (.106), Exemptions, was renumbered §117.175 (.106).

These sections are adopted under the authority of Article 4477-5, Vernon's Annotated Texas Civil Statutes.

§115.172 (131.07.59.102). Cold Solvent Cleaning.

(a) No person shall operate or maintain a system utilizing a volatile organic compound for the cold cleaning of objects without the following controls:

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

(A) the solvent vapor pressure is greater than 0.3 psia (2 kPa) as measured at 100°F (38°C);

(B) the solvent is agitated; or

(C) the solvent is heated.

(2) A cleaned-parts drainage facility shall be provided for all cold cleaners. If the solvent vapor pressure is greater than 0.6 psia (4.1 kPa) as measured at 100°F (38°C), the drainage facility must be internal for enclosed draining under the cover. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) A permanent label summarizing the operating requirements in subsection (b) of this section shall be attached to the cleaner in a conspicuous location.

(4) If a solvent spray is used, it must be a solid fluid stream (not a fine, atomized, or shower-type spray) and at a pressure which will not cause excessive splashing.

(5) One of the following controls is required if the solvent vapor pressure is greater than 0.6 psia (4.1 kPa), as measured at 100°F (38°C), or if the solvent is heated above 120°F (49°C):

(A) a freeboard ratio (the freeboard height divided by the degreaser width) equal to or greater than 0.7; or

(B) a water cover (solvent must be insoluble in and heavier than water).

(b) (No change.)

§115.173 (131.07.59.103). Open-Top Vapor Degreasing.

(a) No person shall operate or maintain a system utilizing a volatile organic compound for the open-top vapor cleaning of objects without the following controls:

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

(2) 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.

(3) A spray safety switch which will shut off the spray sump heat if the vapor level drops more than four inches (10 cm).

(4) One of the following major controls:

(A) a freeboard ratio (the distance from the 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 and, if the degreaser opening is greater than 10 ft² (0.9m²) a powered cover;

(B) a properly sized refrigerated chiller;

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

(D) a carbon adsorption system with ventilation equal to or greater than 50 cfm/ft² (15m³/min per m²) of air/vapor area (with the cover open) and exhausting less than 25 ppm of solvent by volume averaged over one complete adsorption cycle.

(5) A permanent, conspicuous, label summarizing the operating procedures listed in subsection (b) of this section.

(b) No person shall operate or maintain a system using a volatile organic compound for the open-top vapor cleaning of objects without complying with the following operating procedures:

(1) The cover shall be closed at all times except when processing work loads through the degreaser.

(2) Parts shall be positioned so that maximum drainage is obtained.

(3) Parts shall be moved in and out of the degreaser at less than 11 ft/min (3.3 m/min).

(4) The work load shall be degreased in the vapor zone at least 30 seconds or until condensation ceases.

(5) Any pools of solvent on the cleaned parts shall be removed by tipping the part before withdrawing it.

(6) Parts shall be allowed to dry within the degreaser freeboard area for at least 15 seconds, or until visually dry.

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

(8) Work loads shall not occupy more than half of the degreaser open-top surface area.

(9) Solvent shall not be sprayed above the vapor level.

(10) Solvent leaks shall be repaired immediately, or the degreaser shall be shut down.

(11) Waste solvent shall not be disposed of or transferred to another party such that greater than 20% of the waste (by weight) will evaporate into the atmosphere. Waste solvent shall be stored only in covered containers.

(12) Exhaust ventilation for systems other than those which vent to a major control device shall not exceed 65 cfm per ft² (20 m³/min per m²) of degreaser open area unless necessary to meet Occupational Safety and Health Administration 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.

(13) Water shall not be visibly detectable in the solvent exiting the water separator.

§115.174 (131.07.59.104). Conveyorized Degreasing.

(a) No person shall operate or maintain a system utilizing a volatile organic compound for the conveyorized cleaning of objects without the following controls:

(1) One of the following major control devices is required:

(A) a properly sized refrigerated chiller; or,
 (B) a carbon adsorption system with ventilation equal to or greater than 50 cfm/ft² (15 m³/min per m²) of air/vapor area (when down-time covers are open) and exhausting less than 25 ppm of solvent by volume averaged over one complete adsorption cycle.

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

(3) 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.

(4) A spray safety switch which will shut off the spray pump if the vapor level drops more than four inches (10 cm).

(5) A vapor level control thermostat which will shut off the sump heat when the vapor level rises above the designed operating level.

(6) 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 (10 cm) or less than 10% of the width of the opening.

(7) Down-time covers shall be provided for closing off the entrance and exit during shutdown hours.

(8) A permanent, conspicuous, label summarizing the operating requirements in subsection (b) of this section.

(b) No person shall operate or maintain a system utilizing a volatile organic compound for the conveyORIZED cleaning of objects without complying with the following operating procedures:

(1) Exhaust ventilation for systems other than those which vent to a major control device shall not exceed 65 cfm/ft² (20 m³/min per m²) of degreaser opening, unless necessary to meet Occupational Safety and Health Administration requirements or unless a carbon adsorption system is installed as a major control device. Ventilation fans shall not be used near the degreaser opening.

(2) Parts shall be positioned so that maximum drainage is obtained.

(3) Vertical conveyor speed shall be maintained at less than 11 ft/min (3.3 m/min).

(4) Waste solvent shall not be disposed of or transferred to another party such that greater than 20% of the waste (by weight) can evaporate into the atmosphere. Waste solvent shall be stored only in covered containers.

(5) Leaks shall be repaired immediately or the degreaser shall be shut down.

(6) Water shall not be visibly detectable in the solvent exiting the water separator.

(7) Down-time 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.

§115.175 (131.07.59.106). Exemptions.

(a) Degreasing operations located on any property which can emit when uncontrolled a combined weight of volatile organic compounds less than 550 pounds (250 kg) in any consecutive 24-hour period are exempt from the provisions of §§115.172-115.174 (.102-.104) of this title (relating to cold solvent cleaning, open-top vapor degreasing, and conveyORIZED degreasing).

(b) Degreasing operations located on any property in Harris County which when combined would emit when uncontrolled a combined weight of volatile organic compounds less than three pounds (1.4 kg) in any consecutive 24-hour period are exempt from the provisions of §§115.172-115.174 (.102-.104) of this title (relating to cold solvent cleaning, open-top vapor degreasing, and conveyORIZED degreasing).

(c) Any conveyORIZED degreaser with less than 20 ft² (2 m²) of air/vapor interface is exempt from the requirement of §115.174(a)(1) (.104(a)(1)) of this title (relating to conveyORIZED degreasing).

(d) Any open-top vapor degreaser with an open area less than 10 ft² (0.9 m²) is exempt from the refrigerated chiller or the carbon adsorber requirements in §115.173(a)(4)(B) and (D) (.103(a)(4)(B) and (D)) of this title (relating to open-top vapor degreasing).

(e) All affected persons in Ector County are exempt from the requirements of §115.172(a) (.102(a)) of this title (relating to cold solvent cleaning, §115.173(a) (.103(a)) of this title (relating to open-top vapor degreasing), and §115.174(a) (.104(a)) of this title (relating to conveyORIZED degreasing).

(f) An owner or operator who operates a remote reservoir cold solvent cleaner which uses solvent with a volatility equal to or less than 0.6 psia (4.1 kPa) measured at 100°F (38°C) and which has a drain area less than 16 in² (100 cm²) is exempt from §115.172 of this title (relating to cold solvent cleaning).

§115.176 (131.07.59.105). Counties and Compliance Schedule.

(a) The provisions of §115.171 (.101) of this title (relating to cutback asphalt) shall apply only within Bexar, Brazoria, Dallas, El Paso, Jefferson, Galveston, Harris, Nueces, Orange, and Tarrant Counties. All affected persons shall submit a final control plan to the Texas Air Control Board no later than December 31, 1980, and shall be in compliance with the rule as soon as practicable but no later than December 31, 1982.

(b) The provisions of §§115.172-115.174 (.102-.104) of this title (relating to cold solvent cleaning, open-top vapor degreasing, and conveyORIZED degreasing) shall apply only within Bexar, Brazoria, Dallas, Ector, El Paso, Galveston, Gregg, Harris, Jefferson, Nueces, Orange, Tarrant, and Victoria Counties. All affected persons shall submit a final control plan for compliance to the Texas Air Control Board no later than December 31, 1980, and shall be in compliance with these rules as soon as practicable but no later than December 31, 1982.

Doc. No. 805960

Surface Coating Processes in Bexar, Brazoria, Dallas, Ector, El Paso, Galveston, Gregg, Harris, Jefferson, Nueces, Orange, Tarrant, and Victoria Counties

These sections were proposed to be revised to add controls for two new surface coating categories. They have been adopted essentially as proposed, except for some minor wording changes, reordering, and renumbering of sections, and a change in the final compliance date from December 31, 1983, to December 31, 1982.