

**Texas Commission on Environmental Quality
Air Permits Division**

New Source Review (NSR) Boilerplate Special Conditions

This information is maintained by the Combustion/Coatings NSR Section and is subject to change. Last update was made **October 2006**. These special conditions represent current NSR boilerplate guidelines and are provided for informational purposes only. The special conditions for any permit or amendment are subject to change through TCEQ case by case evaluation procedures [30 TAC 116.111(a)]. Please contact the appropriate Combustion/Coatings NSR Section management if there are questions related to the boilerplate guidelines.

Open Top Vapor Degreasers and Batch Vapor Degreasers that do not Meet the Requirements of a PBR

1. This permit authorizes the construction and operation of a (type) facility. This facility is located at (street address) , (city) .

EMISSION LIMITATIONS

2. The degreasing facilities covered by this permit shall comply with the following:
 - A. For the open top vapor degreaser, the control and operational requirements in Title 30 Texas Administrative Code § 115.412(3).
 - B. (If solvent is a HAP) For the open top batch vapor degreaser, the National Emission Standards for Hazardous Air Pollutants for Halogenated Solvent Cleaning, Title 40 Code of Federal Regulations Part 63, Subpart T.

OPEN TOP VAPOR DEGREASER OPERATING RESTRICTIONS

3. The open top vapor degreaser shall be equipped with the devices listed below and shall meet and be in compliance with the following specifications:
 - A. The cleaning solvent to be used in the open top vapor degreaser is limited to naphtha;
 - B. A cover that can be opened and closed easily without disturbing the vapor zone;
 - C. A condenser coolant flow sensor and thermostat which will detect if the condenser coolant is not circulating or if the condenser coolant temperature rises above the solvent manufacturer's recommendations;

- D. A solvent level sensor which will detect if the solvent level drops below acceptable design limits;
 - E. A vapor level sensor which will detect if the vapor level rises above acceptable design limits;
 - F. A spray safety switch which will shut off the spray pump to prevent spraying above the vapor level;
 - G. The freeboard ratio (the distance from the top of the vapor level to the top edge of the degreasing tank divided by the degreaser width) must be equal to or greater than 0.75; and
 - H. A permanent, conspicuous, label summarizing the operating procedures listed in Special Condition No. 5 and the operators of the unit shall be trained in these procedures.
4. The open top vapor degreaser shall be operated at all times as follows:
- A. The cover shall be closed at all times except when processing workloads through the degreaser;
 - B. Parts shall be positioned so that complete drainage is obtained;
 - C. Any pools of solvent on the cleaned parts shall be removed by tipping the part before withdrawing it from the vapor zone;
 - D. The work load shall be retained in the vapor zone at least 30 seconds or until condensation ceases;
 - E. Parts shall be allowed to dry within the degreaser freeboard area for at least 15 seconds or until visually dry;
 - F. Parts shall be moved in and out of the degreaser at less than 11 ft/min (3.3 m/min);
 - G. Porous or absorbent materials, such as cloth, leather, wood, or rope, shall not be degreased;
 - H. Work loads shall not occupy more than half of the degreaser open top surface area;
 - I. Solvent shall not be sprayed above the vapor level;
 - J. Solvent leaks shall be repaired immediately, or the degreaser shall be shut down until repairs are made;

- K. 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; and
- L. Water shall not be visibly detectable in the solvent exiting the water separator.

BATCH VAPOR DEGREASER OPERATING RESTRICTIONS

- 5. The batch vapor degreaser shall be equipped with the devices below and shall meet and be in compliance with the following specifications:
 - A. The cleaning solvent to be used in the batch vapor degreaser is limited to (specify one or more of the halogenated solvents listed in 40 CFR 63, Subpart T) ;
 - B. The batch vapor degreaser shall be equipped with a cover that shall be closed at all times except when processing workloads through the degreaser;
 - C. The freeboard ratio (the distance from the top of the vapor level to the top edge of the degreasing tank divided by the degreaser width) must be equal to or greater than 0.75;
 - D. Parts shall be moved in and out of the degreaser at less than 11 ft/min (3.3 m/min);
 - E. The batch vapor degreaser shall be equipped with a sump heat shutoff that shuts off the sump heat if the liquid level drops below the sump heater coils;
 - F. A vapor level sensor which will detect if the vapor level rises above the primary condenser and shuts off the sump heat;
 - G. The batch vapor degreaser shall be equipped with a primary condenser;
 - H. The batch vapor degreaser shall be equipped with a submerged fill pipe that is equipped with threaded or other leak proof couplings; and
 - I. A permanent, conspicuous, label summarizing the operating procedures listed in Special Condition No. 6 and the operators of the unit shall be trained in these procedures.
- 6. The batch vapor degreaser shall be operated at all times as follows:
 - A. The idling and/or downtime covers shall be in place when parts are not being processed.

- B. The baskets or parts to be cleaned shall occupy less than 50 percent of the solvent/air interface area unless the parts are moved in and out of the degreaser at less than 3ft/min (0.9 m/min);
- C. All spraying operations shall be conducted within the vapor zone;
- D. The parts to be cleaned shall be oriented to provide for proper parts drainage;
- E. The parts to be cleaned shall not be removed from the degreaser until dripping has ceased;
- F. During startup the primary condenser shall be turned on before the sump heater;
- G. During shutdown the sump heater shall be turned off and the solvent vapor layer will be allowed to collapse before the primary condenser is turned off;
- H. The unit shall be maintained according to manufacturer's recommendations;
- I. Solvent leaks shall be repaired immediately or the degreaser shall be shut down until repairs are made; and
- J. Porous or absorbent materials, such as cloth, leather, wood, or rope shall not be degreased.

MONITORING

- 7. For degreasers subject to the requirements of Special Condition Nos. 3 and 5 a thermometer or thermocouple shall be used to measure the temperature at the center of the air blanket on a weekly basis when the degreaser is in the idling mode.

RECORD KEEPING

- 8. General Condition No. 7 regarding information and data to be maintained on file is supplemented as follows and shall be used to demonstrate compliance with Special Condition No. 7 and the MAERT:
 - A. Environmental Data Sheets or Material Safety Data Sheets for materials in use.
 - B. Actual daily hours of (specify) operations, weekly usage of (specify) in gallons.
 - C. A monthly record of the air contaminant emissions from Emission Points (specify) in lb/hr as a daily average and in tons per year (TPY) for the rolling 12 previous months.

- D. A monthly record of individual and total hazardous air pollutant emissions in TPY for the rolling 12 previous months.
- E. Data of the weekly air blanket temperature readings.
- F. Records of the results of the idling test conducted to demonstrate compliance with the idling emission limits of 40 CFR 63.463(if applicable)

The records required by this permit may be maintained in hard copy or electronic format.

POLLUTION PREVENTION

- 9. Degreaser tank cleaning shall be conducted in a manner so as to minimize fugitive emissions. Residue, sludge, or contaminated cleaning solution removed from the degreaser as waste will be stored in covered containers until removal from the site and recycled or disposed of in accordance with applicable regulations.
- 10. Waste solvent shall not be disposed of or transferred to another party such that the waste solvent will evaporate into the atmosphere.
- 11. All spills shall be cleaned up immediately.
- 12. Towels, rags, or other absorbent materials used for cleanup shall be placed into sealed containers immediately after use and shall be kept in storage until properly removed from the site.

INITIAL DEMONSTRATIONS OF COMPLIANCE

- 13. If the solvent is a HAP and the batch vapor degreaser is required to meet the idling emissions limits in 40 CFR 63.463(b), one-time sampling of the open top batch vapor degreaser shall be conducted to:
 - A. Ensure that the idling emission limits of 40 CFR 63.463(b) are met.
 - B. Measure the solvent loss over a 24-hour period using the methods required by 40 CFR 63.465(a) and the requirements of Test Method 307.
 - C. Specific requirements are as follows:
 - (1) Submit proposed methods to accomplish the sampling required by Special Condition No. 13 A and B for approval to the Air Permits Division Director and TCEQ _____ Regional Office, with a copy to the TCEQ Compliance Support Division in Austin within 30 days

- (2) Once the methods are approved, schedule a pretest meeting with TCEQ Regional Office at least 45 days in advance of sampling. The purpose of the meeting is to review the test details to include sampling and measuring procedures to be used, the forms required for recording the pertinent data, and the format and content of the test report as outlined in Chapter 14, TCEQ Sampling Procedures Manual.
- (3) Sampling shall be completed no later than six months after submission of proposed sampling plans (paragraph (1) above).
- (4) A sampling report, which shall document the degreaser idling losses in lb/hr, shall be prepared and distributed within 30 days after completion of sampling to the TCEQ _____ Regional Office, TCEQ Austin Compliance Support Division, and TCEQ Austin Office of Permitting, Remediation, and Registration, Air Permits Division."

Dated _____