### Process Information

1. Operating schedule:
   - _____ hrs/day
   - _____ days/wk
   - _____ weeks/year

2. Degreaser
   - Manufacturer: _______________________
   - Model no.: _______________________
   - Type:
     - □ Conveyorized
     - □ Cold solvent
     - □ Open top vapor
     - □ Batch
     - □ Other _______________________

3. Description of metal parts or products cleaned:
   - _______________________________

4. Solvent usage:
   - Type: ____________________________
   - Gallons used during year: ____________
   - Vapor pressure: ______ (Psia @ 100°F)

5. Solvent is:
   - □ Sprayed
   - □ Heated, temperature _____ °F
     - □ Agitated, by: □ Use of pump
       - □ Vertical motion
       - □ Compressed air
       - □ Ultrasonics
       - □ Other _______________________

6. Amount of solvent waste disposed of throughout the year: ______ gallons
   - If known, solvent content in waste: ______ % by volume
   - Method of disposal: _______________________

7. Freeboard:
   - a. Distance from solvent surface to top edge of degreaser: ______ inches
   - b. Width (not length) of tank at solvent surface: ______ inches
   - c. Freeboard ratio, (a) above divided by (b) above: __________

8. Furnish manufacturer's Material Safety Data Sheets for all chemicals used in process.

### Cold Cleaner Information

9. Equipped with cover:
   - □ yes □ no
   - Easily operated with one hand?
   - □ yes □ no

10. Tank dimensions:
    - Length: _______
    - Width: _______
    - Height: _______
    - Tank capacity: ______ gals of solvent

11. Method of draining parts:
    - _______________________

12. Cold Cleaner has:
    - □ Water cover
    - □ Carbon adsorption
    - □ Refrigerated chiller, operating temperature: ______ °F
    - □ Other control system:
    - □ None

13. Ventilation:
    - □ Carbon adsorption system (submit form 5)
    - □ None
    - □ Other (describe) _______________________

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Page 1 of 3
## Open Top Vapor Degreaser and Conveyorized Degreaser Information

### 14. Dimensions of top opening:
- Length: ______________
- Width: ______________

### 15. Cover:
- □ yes □ no

### 16. Safety switches:
- □ Condenser flow switch and thermostat which shuts off the sump heat if the condenser coolant is either not circulating or too warm.
- □ Device, other than a condenser flow switch and thermostat, which shuts off the sump heat if the condenser coolant is either not circulating or too warm (describe): ________________________________
- □ Spray safety switch which shuts off the spray pump if the vapor level drops below any fixed spray nozzle.
- □ Vapor level control thermostat which shuts off the sump heat when the vapor level rises too high.
- □ Device, other than a vapor level control thermostat, which shuts off the sump heat when the vapor level rises too high (describe): ________________________________
- □ None of the above.

### 17. Indicate the type of pollution controls that open top vapor degreaser has (carbon filter, condenser, etc.):
________________________________________________________________________________________

## Conveyorized Degreaser Information

### 18. Type of degreaser system:
- □ Cold □ Vapor

### 19. Operating temperature of solvent? ______________

### 20. Downtime covers:
- □ yes □ no

### 21. Air/vapor interface is: ______________ sq. ft. (attach calculations)

### 22. Degreaser Controls:
- □ Refrigerated freeboard chiller.
- □ Refrigerated condenser coils.
- □ Carbon adsorption.
- □ Other control system excluding condenser coils and freeboard water jacket, which reduces solvent emission (describe system and % control efficiency).
- □ None of the above.

### 23. Safety Switches:
- □ Condenser flow switch and thermostat which shuts off the sump heat if the condenser coolant is either not circulating or too warm.
- □ Device, other than a condenser flow switch and thermostat, which shuts off the sump heat if the condenser coolant is either not circulating or too warm (describe): ________________________________
- □ Spray safety switch which shuts off the spray pump if the vapor level drops below any fixed spray nozzle.
- □ Vapor level control thermostat which shuts off the sump heat when the vapor level rises too high.
- □ Device, other than a vapor level control thermostat, which shuts off the sump heat when the vapor level rises too high (describe): ________________________________
- □ None of the above.

### 24. Conveyorized degreaser is equipped with the following equipment for preventing cleaned parts from carrying out solvent liquid or vapor:
- □ None □ Drying tunnel □ Rotating basket □ Other
Form 21 – Solvent Metal Cleaning (Degreasers)
(Continued)

Emissions Calculations (PTE)

25. Calculated emissions for each tank
   VOC _________Lbs/hr_____ Tons/yr
   HAPs _________ Lbs/hr (speciate)______Tons/yr (speciate)

Specify the method of calculations. Also, provide manufacturer’s Material Safety Data Sheets (MSDS) for
products being used. Submit calculations as an appendix.

Instructions

NOTE: 1. Submit this form in conjunction with Form 1 and Form 2.
2. Call the Division of Air Quality (DAQ) at (801) 536-4000 if you have problems or questions in filling out
   this form. Ask to speak with a New Source Review engineer. We will be glad to help!

1. Indicate the operating schedule of the degreaser.
2. Indicate the manufacturer, model number, serial number and type of degreaser.
3. Indicate the type of parts that will be cleaned in the degreaser (attach details) and the average and maximum
   number of parts cleaner per hour.
4. Indicate the type, quantity, and vapor pressure of the solvent used in the degreaser.
5. Indicate whether the solvent is sprayed, heated, agitated, and to what temperature. Indicate if and how solvent is
   agitated.
6. Indicate the amount and way waste solvent is disposed.
7. Indicate the calculations for freebroad ratio.
8. Supply the manufacturer’s material safety data sheets of any chemicals used with this application.
9. Indicate whether the degreaser is covered and if that cover is easily operated with one hand.
10. Supply the tank dimensions and capacity.
11. Describe the method of draining the degreased parts.
12. Indicate if any type of controls is used with the system and what they are.
13. Describe the carbon adsorption system if applicable.
15. Indicate if degreaser is equipped with cover and spray nozzles.
16. Indicate the types of safety switches used on the degreaser.
17. Indicate the type of controls used on the open top vapor degreaser.
18. Tell whether the degreaser uses a cold or a vapor system.
19. Give the operating temperature of the solvent.
20. Indicate whether the conveyorized degreaser has downtime covers.
21. Provide calculations showing the air/vapor interface. This is estimated using the dimensions of the open portion of
    the tank at the condenser level.
22. Indicate the degreaser controls.
23. Indicate the types of safety switches used on the degreaser.
24. Indicate the type of equipment used to prevent carry out emissions.
25. Supply calculations for all criteria pollutants and HAPs (speciate, please). Use AP-42 or manufacturers’ data to
    complete your calculations.

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