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| **Department of Natural Resources and Environmental Control****Division of Air Quality****PERMIT APPLICATION****Depending upon the type of degreasing operation, complete the corresponding section only.****If more than one degreaser is located at this plant, make additional copies of this form, as necessary.** | **AQM-1001G****METAL CLEANING DEGREASERS** |
| ***DEPARTMENT USE, ONLY*** |
| **I.D.:**       |
| **SECTION I. COLD CLEANING DEGREASER, ONLY** |  EMISSION UNIT NO.:       LOCATION WITHIN FACILITY:       |
| 1. Manufacturer or Description:        Inside Diameter of Tank (ft): Width:       Length:       Depth:        Freeboard Height:       feet  Date Installed:   /  /      Type:   Maximum Operation:    hours/day   days/week    weeks/year |
| 2. Solvent Type (Mineral Spirits, Stoddard, etc.):       Attach MSDS for each solvent used Maximum Amount Used:       gallons/hour       gallons/year Solvent Volatility at 68°F:       mmHg |
| 3. Equipment Design Is the degreaser equipped with: Tank Cover:  Drainage Board:  If Yes, Type of Board:  Is Solvent Sprayed?  If Yes, Spray Pressure:       psi Agitation:  If Yes, Agitation Type:  Heating:  If Yes, Temperature:       °F |
| 4. Operating Procedure Can degreaser be closed during degreaser operation?  Is degreaser cover closed when degreaser is not in use?  Are parts dry before removal from drying rack?  How are waste solvent and sludge disposed of?       |
| 5. Indicate the type of control device (if any): [ ]  Refrigerated Chiller [ ]  Carbon Adsorption [ ]  Water Spray [ ]  Freeboard Ratio ≥0.7 [ ]  Other *(specify)*:       |

*(Complete Form AQM-1001K for Control Equipment)*

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| **AQM-1001G** |
| ***(Continued)*** |
| **SECTION II. OPEN TOP VAPOR DEGREASER, ONLY** | Emission Unit No.:       |
| 6. Manufacturer or Description:       Inside Dimensions of Tank (ft.): Width:       Length:       Depth:       Date Installed:   /  /     Is solvent sprayed:  Spay Pressure:       *psi*  Maximum Operation:       hours/day       days/week       weeks/year  |
| 7. Solvent Type (Name):       Attach MSDS for Each Solvent Used Maximum Amount Used:       gallons/hour       gallons/year |
| 8. Indicate the types of safety switches the degreaser is equipped with: [ ]  Condenser flow switch and thermostat (to shut off sump heat if condenser coolant either is not circulating or is too warm). [ ]  Spray safety switch (to shut off spray pump if the vapor level drops more than four (4) inches below the bottom condenser coil. [ ]  Vapor level control thermostat (to shut off sump heat if the vapor zone rises above the design level.  |
| 9. Type of vapor levels controls: [ ]  Condensing Coil [ ]  Chilled water or refrigerant [ ]  None Temperature of the cooling liquid:       ° F |
| 10. Method of heating the degreaser:   [ ]  Gas [ ]  Electric [ ]  Steam [ ]  Rating:       BTU/hr or       KW |
| 11. Type of cleaning action:   [ ]  Sonic [ ]  Immersion in liquid [ ]  Mechanical Mixing [ ]  Vapor Condensation [ ]  Spray |
| 12. Tank Cover: [ ]  Automatic [ ]  Manual [ ]  None Is the tank covered when not in use?   |
| 13. Describe how waste solvent and sludge are disposed:       |
| 14. Indicate the type of Control Device (if any):  [ ]  Refrigerated Chiller [ ]  Water Spray [ ]  Carbon Adsorption [ ]  freeboard Ratio ≥ 0.75 [ ]  Other (specify):       |
| 15. Are the parts to be degreased moved in and out at a vertical speed of less than 11 ft/min?  What is the exhaust air flow?       cfm |

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| **AQM-1001G** |
| **(continued)** |
| **SECTION III. CONVEYORIZED DEGREASER ONLY**  | EMISSIONS UNIT NO.:       |
| 16. Manufacturer or Description:       Inside Dimensions of Tank (ft.): Width:       Length:       Depth:       Date Installed:   /  /     Is solvent sprayed: Spray Pressure:       *psi*Type:    Maximum Operation:       hours/day       days/week       weeks/year Work Load Design Specifications:        |
| 17. Equipment Design:        Does the Degreaser have: [ ]  Drying Tunnel [ ]  Tumbling or rotating baskets Is the tank covered when not in use?   |
| 18. Indicate the types of safety switches the degreaser is equipped with: [ ]  Condenser flow switch and thermostat (to shut off sump heat if condenser coolant either is not circulating or too warm.) [ ]  Spray safety switch (to shut off spray pump if the vapor level drops more than four inches below the bottom condenser coil. [ ]  Vapor level control thermostat (to shut off sump heat if the vapor zone rises above the design level.) |
| 19. Name of Solvent:       *(attach MSDS for each solvent used.)* Maximum Amount used:       gallons/hour       gallons/year Solvent Volatility at 100 °F:       mm/Hg |
| 20. Indicate the type of control devices:  Other:       |
| 21. Operating Parameters:  Actual Conveyor speed       ft/min. Maximum vertical conveyor speed at exit or entrance of the degreaser       ft/min. Flow rate of exhaust gas:       cfm. Temperature of solvent bath:      ° |
| 22. Describe how the waste solvent, still sludge, and adsorber solvent are disposed of:        |

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