

ENCLOSURE 1B. CONTINUED

3. Provide chemical speciation and/or breakout data for the following HAP emissions:

chromium (Cr⁺⁶ vs. Cr⁺³): _____

(e.g., 5% hexavalent from welding; 95% trivalent from welding and coating solids [Zn₂CrO₄(OH)₂])

manganese: _____

(e.g., 85% from welding fumes and 15% from abrasive blast media analysis)

nickel: (soluble/insoluble) _____

(e.g., 70% from welding fumes and 30% insoluble from abrasive blast media analysis)

glycol ethers: _____

(e.g., 90% EGBE; 10% triethylene glycol ether)

4. What amount of solvents did you use in 1999? _____ kg¹

a. What percent of solvents is used for thinning of coatings? _____%

b. What percent of solvents is used for cleaning of coatings-related equipment?
_____ %

c. Using the attached facility diagram and Enclosure 1C, indicate the locations where most solvent use occurs (e.g.. 75% in location 5, 25% in location 9).

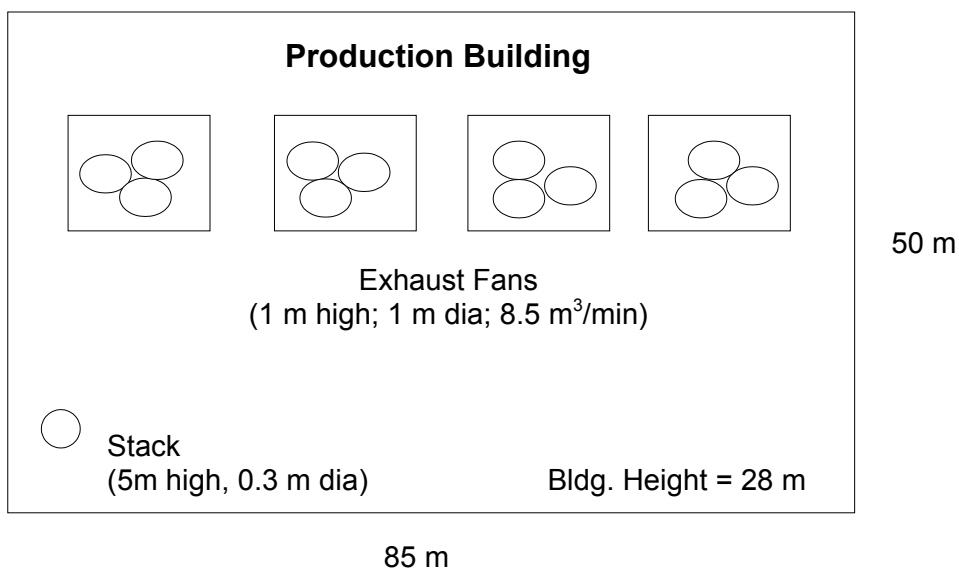
¹0.454 kilograms (kg) = 1.0 pound (lb)

ENCLOSURE 1B. CONTINUED

5. Use the attached facility diagram to show the location of each emission point (source). Be as specific as possible with map coordinates (latitude and longitude) for each location. Indicate whether abrasive blasting, welding, surface coating (painting), and/or cleaning is conducted at each source in Enclosure 1B.

If several emitting operations occur in a general (common) area such as a building or drydock, use the building or drydock dimensions, or the approximate size of a typical ship being constructed or repaired as the source. Include information on any associated air exhaust stacks, vents, or fans, (e.g., location, stack height/diameter, air flowrate exit velocity and exhaust gas exit temperature). Provide any additional drawings/diagrams to help us understand the layout of specific process lines. See the following example diagram.

See example (below) of a structure with metal processes treated as a volume source.



6. Describe any other unit operations at your shipyard involving metal (e.g., Cr, Mn, or Ni) emissions such as boilers, foundries, electroplating, etc. and how those emissions are calculated:
