Appendix OM-1: Operation and Maintenance (O&M) Plan

GULF MARINE REPAIR/HENDRY CORPORATIONS
OPERATION & MAINTENANCE PLAN
BLAST/COATING BOOTH BAGHOUSE
(Version 1/10)

A) Process Parameters:

1. Source Designators: Blasting/Coating Booth Baghouse
2. Baghouse Manufacturer: Industrial Vacuum Equipment Corp.
3. Model Name and Number: 80-HF-4TSE
4. Design Flow Rate: 40,000 ACFM
5. Efficiency Rating at Design Capacity: 99.8%
6. Pressure Drop: 0-6 in. water
7. Air to Cloth Ratio: 2.3:1
8. Bag Type: Cartridge Filters (80)
9. Bag Material: QX Cellulose/Polyester Blend
10. Bag Cleaning Conditions: Pulse Jet at 80-90 psi
11. Gas Temperatures: inlet and outlet 75° F (ambient)
12. Stack Height Above Ground: 13 ft.
13. Exit Diameter: 36 in. x 48 in.
14. Process Controlled by Collection System: Abrasive grit blasting of metal parts
15. Operating Schedule: 8,760 hours/year

B) Inspections:

The following observations, checks, and operations apply to this source and shall be conducted at a minimum on the schedule specified:

<u>Weekly Inspections (if operated during the week)</u>

1. Observe building opening and baghouse stack and record results. Since a 5% opacity limit applies to the baghouse, any visible emissions noted during the inspection shall initiate immediate corrective action to eliminate visible emissions.
2. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
3. Check and record pressure drop.
4. Note any unusual occurrence in the process being ventilated.
5. Observe all indicators on control panel.
6. Check for proper cleaning air pressure.
7. Assure that dust is being removed from system.

Annual Inspections

1. Inspect exhaust fan for corrosion, material build-up, loose belts, and general deterioration.
2. Check for sufficient air flow of the exhaust by either a velocity traverse or by measuring the fan motor amps.
3. Observe baghouse housing for corrosion.
4. Inspect exhaust system for any damage to duct and repair or replace as needed.
5. Thoroughly inspect filters in baghouse for wear and proper tension. Replace as needed.
6. Completely inspect control system for proper operation and signs of deterioration of parts. The inspection should include:
   - testing of screws and bolts for proper tightening
   - observing of all belts and hoses
   - observing of interior of unit for damage
   - checking of all compressed air lines for proper pressure
   - checking of cleaning cycle for proper operation
   - cleaning of any build-up of material in and around the unit
   - lubricating of motor parts and bearings as necessary

C) Records

Records of any inspections, observed emissions, maintenance, malfunctions, and performance data of control devices and auxiliary equipment shall be retained by the emission unit for a minimum of two years and shall be made available to the Department upon request.