Appendix O and M, Operation and Maintenance Plan

TAMPA SHIP, LLC
OPERATION & MAINTENANCE PLAN
BLASTING/COATING BOOTH BAGHOUSE
EMISSION UNIT 102

A) Process Parameters:

1. Source Designators: Blasting/Coating Booth Baghouse (EU 102)
2. Baghouse Manufacturer: Donaldson / Torit
3. Model Name and Number: DFT 4-64
4. Design Flow Rate: 38,000 ACFM
5. Efficiency Rating at Design Capacity: 99.999%
6. Pressure Drop: 0-6 in. water
7. Air to Cloth Ratio: 2.3:1
   64 Cartridge Filters with 254 sf each
8. Bag Weave: Pleated Cartridge Filters
9. Bag Material: Cellulose substrate with nylon membrane surface treatment
10. Bag Cleaning Conditions: Pulse Air Pressure of 80 psig
11. Cleaning: Manual and Automatic modes.
    A- Manual: Pulse one filter for 1-2 seconds, the 20 seconds delay, and to next filter for 1-2 seconds, etc.
    B - Automatic: Triggered by pressure drop of 4 inches. Pulse one filter for 1-2 seconds, the 20 seconds delay, and to next filter for 1-2 seconds, etc. The Cleaning operation is typically left in this cleaning mode (i.e. "on demand" by pressure drop).
    C- Continuous: Pulse one filter for 1-2 seconds, the 20 seconds delay, and to next filter for 1-2 seconds, etc.
12. Reverse air blower: 10-20 scfm
13. Gas Temperatures: inlet and outlet 75° F (ambient)
14. Stack Height Above Ground: 11 ft.
15. Exit Diameter: 40 in. x 26 in.
16. Exit Velocity: 88 fps
17. Water Vapor Content: 3%
18. Process Controlled by Collection System: Steel Shot blasting of metal parts: includes ventilating the blasting enclosure and the air wash separator for abrasive recycling.
19. Material Handling Rate: Up to 5.88 tons of steel shot per hour
20. Operating Schedule: 8,760 hours/year

B) Inspections:

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

Daily Inspections

1. Observe stack (visual or with opacity meter).
2. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).

Weekly Inspections

1. Check pressure drop.
2. Note any unusual occurrence in the process being ventilated.
3. Observe all indicators on control panel.
4. Check pulse air pressure.
5. Assure that dust is being removed from system.

C) Maintenance:

The following maintenance actions shall be conducted on the schedule specified:

Monthly Maintenance

1. Inspect screw conveyor and airlock bearings for lubrication.
2. Check packing glands and grease fittings.
3. Operate all damper valves (isolation, by-pass, etc.).
4. Check bag cleaning sequence to see that all valves are opening and closing properly.
5. Check pressure drop indicating equipment for plugged lines.
6. Check pulse air system.

Annual Maintenance

1. Check air flow of the exhaust by either a velocity traverse or by measuring the fan motor amps.

D) Records

All record of inspections will be kept on-site for a minimum period of 2 years.