# APPENDIX A

Operating and Maintenance Plan

for Ajax Paving Industries of Florida, LLC

Asphalt Plant Baghouse and Portable Lime Silo Baghouses
Tampa Facility – Plant 6

**ASPHALT PLANT BAGHOUSE**
**OPERATING AND MAINTENANCE PLAN**

A) Process Parameters:

1. Source Designators: Asphalt Plant Baghouse
2. Baghouse Manufacturer: Maxam Equipment, Inc.
3. Model Name and Number: Size 44 Stationary Pulse Jet baghouse
4. Design Flow Rate: 70,000 acfm
5. Efficiency Rating at Design Capacity: 99%
6. Pressure Drop: 0-6 in. water
7. Air to Cloth Ratio: 4.8:1
8. Bag Material: 14 oz. Aramid
9. Bag Cleaning Conditions, Pulse Air Pressure: 60 - 110 psi
10. Gas Temperature: Outlet approximately 300° F
11. Stack Height Above Ground: approximately 35 ft.
12. Exit Dimensions: 4.17 ft. (circular)
13. Exit Velocity: 85 fps
14. Water Vapor Content: approximately 30%
15. Process Controlled by Collection System: Drum Mix Asphalt Plant, Counterflow
16. Material Handling Rate: 400 tons per hour
17. Operating Schedule: 4,000 hours/12 consecutive month period

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

<u>Daily</u>

1. Check and record pressure drop.
2. Observe stack (visual).
3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
4. Note any unusual occurrence in the process being ventilated.
5. Observe all indicators on control panel.
6. Assure that dust is being removed from system.
7. Inspect baghouse, ducts and fines blowers for wear or leaks.
8. Monitor baghouse operating temperatures to ensure that bags are not overheated.

<u>Weekly</u>

1. Inspect screw conveyor (including bolts, hanger bearings, and shafts) for wear or damage.
2. Check the door seals, gaskets for leaks.
3. Check bag cleaning sequence to see that all valves are opening and closing properly (including audio confirmation).
4. Check pressure drop indicator equipment for plugged lines.

Monthly

1. Thoroughly inspect filter bags and internal portion of baghouse, including filter bag to tube sheet connection for leaks.
2. Check the tube sheet for dust build-up.
3. Inspect fan for corrosion and material build-up.
4. Check all drive belts and chains for wear and tension.
5. Check all hoses and clamps.
6. Check reliability of all indicating equipment.
7. Inspect housing for corrosion.

Annually

1. Inspect primary "knockout" chamber prior to baghouse inlet for wear, build-up of material, and corrosion (including baffle plates, hopper, and sidewalls).
2. Inspect the screw conveyor flights for wear.
3. Check all bolts.
4. Check welds.
5. Inspect hopper for wear.
6. Perform fluorescent dust leak test on filter bags and replace bags as needed.

C) Records:

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request. [Rule 62-296.700(6)(e), F.A.C.]

**BAGHOUSE ON PORTABLE LIME SILO**
**OPERATING AND MAINTENANCE PLAN**

A) Process Parameters:

1. Source Designator: Baghouse on Lime Silo
2. Baghouse Manufacturer: Belgrade Steel Tank Company
3. Model Name and Number: "Belle 225 Dust House"
4. Design Flow Rate: 675 acfm
5. Pressure Drop: 0-6 in. water
6. Efficiency Rating at Design Capacity: 99.99% at 275 $^{o}$F
7. Number of Bags: 18 bags, each 6 ft. x 8" dia.
8. Total Surface Area of Bags: 225 sq.ft.
9. Bag Material: PE 37 100% Polyester 9 oz./sq. yd.
10. Bag Cleaning Method: Air/pneumatic shaker type

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

Daily

1. Check that maximum lime tanker truck delivery pressure is at or below 7 psi and note "Yes" or "No".
2. Observe baghouse exhaust vent (Visual), check for visible emissions and note "Yes" or "No".
3. Check and record pressure drop of silo during loading operation.

Monthly

1. Check for any signs of leaks on baghouse and note "Yes" or "No".

Semi-Annually

1. Inspect bag filters and replace as needed.

C) Records:

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request. [Rule 62-296.700(6)(e), F.A.C.]