Appendix O&M/CAM Plan

Operation and Maintenance (O&M) /
Compliance Assurance Monitoring (CAM) Plan

Florida Rock Industries, Inc.

2001 Maritime Blvd.

Tampa, FL 33605

Permit No. 0570018-018-AV

001 Bulk Fine Material Storage - Packhouse Silos 4, 5, 6

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

(i) Source Designator: Packhouse Silos 4, 5, 6
(ii) Baghouse Manufacturer: Dracco
(iii) Model Name and Number: Dracco No. 32
(iv) Design Flow Rate: 4,800 ACFM
(v) Efficiency Rating at Design Capacity: 99+%
(vi) Pressure Drop: 0-8" H2O
(vii) Air to Cloth Ratio: 2.08:1.00
(viii) Bag Weave: Duo Density Stratified Singed
(ix) Bag Material: Polyester, 10 oz.
(x) Bag Cleaning Conditions: Reverse
(xi) Gas Flow Rate: 4,800 ACFM
(xii) Gas Temperature: Ambient
(xiii) Stack Height Above Ground: 98 ft.
(xiv) Exit Diameter: Rectangular 16” x 18”
(xv) Process Controlled by Collection System: Loading of Packhouse Silo Nos. 4, 5 and 6

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

(i) Check and record pressure drop on the baghouse.
(ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least annually (as applicable)

(i) Observe stack (visually).
(ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
(iii) Note any unusual occurrence in the process being ventilated.
(iv) Assure that dust is being removed from system.
(v) Check fan bearings.
(vi) Check fan for dust emissions.
(vii) Check baghouse for excessive dust.
(viii) Check bag condition.
(ix) Check door seal.
(x) Unplug hopper if necessary. Check rotary valves.
(xi) Check all lubrication.
(xii) Check pipe condition (inlet and outlet).
(xiii) Check dampers for proper operation.
(xiv) Check bypass damper seals (if applicable).

(3) Every 1500 operating hours or at least annually

(i) Check floor plates.
(ii) Inspect fans for corrosion and material build-up.

(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check dampers for proper seating.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

002 Bulk Fine Material Storage - Packhouse Silos 1, 2, 3

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

(i) Source Designator: Packhouse Silos 1, 2, 3
(ii) Baghouse Manufacturer: Dracco
(iii) Model Name and Number: Dracco No. 32
(iv) Design Flow Rate: 4,800 ACFM
(v) Efficiency Rating at Design Capacity: 99+%
(vi) Pressure Drop: 0-8" H2O
(vii) Air to Cloth Ratio: 2.08:1.00
(viii) Bag Weave: Duo Density Stratified Singed
(ix) Bag Material: Polyester, 10 oz.
(x) Bag Cleaning Conditions: Reverse
(xi) Gas Flow Rate: 4,800 ACFM
(xii) Gas Temperatures: Ambient
(xiii) Stack Height Above Ground: 98 ft.
(xiv) Exit Diameter: Rectangular 16” x 18”
(xv) Process Controlled by Collection System: Loading of Packhouse Silo Nos. 1, 2, 3

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

(i) Check and record pressure drop on the baghouse.
(ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least annually (as applicable)

(i) Observe stack (visually).
(ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
(iii) Note any unusual occurrence in the process being ventilated.
(iv) Assure that dust is being removed from system.
(v) Check fan bearings.
(vi) Check fan for dust emissions.
(vii) Check baghouse for excessive dust.
(viii) Check bag condition.
(ix) Check door seal.
(x) Unplug hopper if necessary. Check rotary valves.
(xi) Check all lubrication.
(xii) Check pipe condition (inlet and outlet).
(xiii) Check dampers for proper operation.
(xiv) Check bypass damper seals (if applicable).

(3) Every 1500 operating hours or at least annually

(i) Check floor plates.
(ii) Inspect fans for corrosion and material build-up.

(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check dampers for proper seating
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

003 Bulk Fine Material Storage - Packhouse Silos 7, 8, 9, 10, 13, 14, 15, 16

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Packhouse Silos 7, 8, 9, 10, 13, 14, 15, 16
- (ii) Baghouse Manufacturer: Fuller
- (iii) Model Name and Number: Fuller Size 120 C10
- (iv) Design Flow Rate: 9,260 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-6" H2O
- (vii) Air to Cloth Ratio: 5.94:1.00
- (viii) Bag Weave: Felt
- (ix) Bag Material: Polyester, 14-16 oz.
- (x) Bag Cleaning Conditions: Pulse-Jet; air pressure: 90-100 psi
- (xi) Gas Flow Rate: 9,260 ACFM
- (xii) Gas Temperatures: Ambient
- (xiii) Stack Height Above Ground: 102 ft.
- (xiv) Exit Diameter: Rectangular 18” x 21”
- (xv) Process Controlled by Collection System: Loading Packhouse Silo Nos. 7, 8, 9, 10, 13, 14, 15, 16

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least annually (as applicable)

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.)
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xv) Check dampers for proper operation.
- (xvi) Check bypass damper seals (if applicable).

(3) Every 1500 operating hours or at least annually
- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.
- (iii) Inspect baffle plate for wear.
- (iv) Thoroughly inspect bags.
- (v) Check duct for dust build-up.
- (vi) Inspect paint.
- (vii) Check screw conveyor flighting (if applicable).
- (viii) Check all bolts.
- (ix) Check welds.
- (x) Inspect hopper for wear.
- (xi) Check dampers for proper seating.
- (xii) Check the alignment of clean air pipes.
- (xiii) Check the bag tension.
- (xiv) Check the bag seating.
- (xv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.

(2) Maintaining bag failure records to identify which baghouse compartments require replacement.

(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

005 Bulk Fine Material Storage - Packhouse Silos 11, 12, 17, 18

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Packhouse Silos 11, 12, 17, 18
- (ii) Baghouse Manufacturer: Fuller
- (iii) Model Name and Number: Fuller Size 144 C10
- (iv) Design Flow Rate: 12,000 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-6" H2O
- (vii) Air to Cloth Ratio: 6.41:1.00
- (viii) Bag Weave: Singed Polyester - 16 oz.
- (ix) Bag Material: Polyester
- (x) Bag Cleaning Conditions: Pulse-Jet; air pressure: 90-100 psi
- (xi) Gas Flow Rate: 12,000 ACFM
- (xii) Gas Temperatures: Ambient
- (xiii) Stack Height Above Ground: 97 ft.
- (xiv) Exit Diameter: Rectangular 19” x 26”
- (xv) Process Controlled by Collection System: Loading of Packhouse Silo Nos. 11, 12, 17, and 18.

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination.

(2) Every 150 operating hours or at least semi-annually (as applicable)

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xx) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.

(ii) Inspect fans for corrosion and material build-up.
(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check dampers for proper seating.
(xii) Check the alignment of clean air pipes.
(xiii) Check the bag tension.
(xiv) Check the bag seating.
(xv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

006 Bulk Fine Material Storage - Bulk Silos 19, 20, 21, 24, (4) Bulk Jumbo Packers, and East Truck Loading Spout

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Bulk Silos 19, 20, 21, 24, (4) Bulk Jumbo Packers, and East Truck Loading Spout
- (ii) Baghouse Manufacturer: IAC
- (iii) Model Name and Number: 120TB-BHT-140:S6
- (iv) Design Flow Rate: 6,250 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-6" H2O
- (vii) Air to Cloth Ratio: 2.8:1
- (viii) Bag Weave: Felt, singed
- (ix) Bag Material: Polyester, 16 oz.
- (x) Bag Cleaning Conditions: Pulse-Jet; air pressure: 90-100 psi
- (xi) Gas Flow Rate: 6,250 ACFM
- (xii) Gas Temperatures: Ambient
- (xiii) Stack Height Above Ground: 147 ft.
- (xiv) Exit Diameter: Rectangular 14” x 13”
- (xv) Process Controlled by Collection System: Loading of Bulk Silo Nos. 19, 20, 21, 24, East Truck Loading Spout, (4) jumbo bag loading spouts, and pneumatic truck unloading into Silos 19, 20, and 21.

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least annually (as applicable)

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.

(xv) Check dampers for proper operation.
(xvi) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually
(i) Check floor plates.
(ii) Inspect fans for corrosion and material build-up.
(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check dampers for proper seating
(xii) Check the alignment of clean air pipes.
(xiii) Check the bag tension.
(xiv) Check the bag seating.
(xv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:
(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

007 Bulk Fine Material Storage - Bulk Silos 25 and 26

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Bulk Silos 25 and 26
- (ii) Baghouse Manufacturer: Dracco (Converted to pleated bags by BHA 1996)
- (iii) Model Name and Number: Dracco Model No. 40
- (iv) Design Flow Rate: 6,000 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-6" H2O
- (vii) Air to Cloth Ratio: 3.06:1.00
- (viii) Bag Weave: Spun bonded, pleated
- (ix) Bag Material: Polyester
- (x) Bag Cleaning Conditions: Pulse-Jet; air pressure: 90-100 psi
- (xi) Gas Flow Rate: 6,000 ACFM
- (xii) Gas Temperatures: Ambient
- (xiii) Stack Height Above Ground: 147 ft.
- (xiv) Exit Diameter: Rectangular, 22” x 17”
- (xv) Process Controlled by Collection System: Loading of Bulk Silos Nos. 25 and 26

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination.

(2) Every 150 operating hours or at least semi-annually (as applicable)

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xx) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.

(ii) Inspect fans for corrosion and material build-up.
(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check dampers for proper seating.
(xii) Check the alignment of clean air pipes.
(xiii) Check the bag tension.
(xiv) Check the bag seating.
(xv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

008 Bulk Fine Material Storage - Bulk Silos 22, 23, (2) Bulk Jumbo Packers, and West Truck Loading Spout

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Bulk Silos 22, 23, (2) Bulk Jumbo Packers, and West Truck Loading Spout
- (ii) Baghouse Manufacturer: IAC
- (iii) Model Name and Number: 120TB-BHT-140:S6
- (iv) Design Flow Rate: 6,250 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-6" H2O
- (vii) Air to Cloth Ratio: 2.8:1
- (viii) Bag Weave: Felt, singed
- (ix) Bag Material: Polyester, 16 oz.
- (x) Bag Cleaning Conditions: Pulse-Jet; air pressure: 90-100 psi
- (xi) Gas Flow Rate: 6,250 ACFM
- (xii) Gas Temperatures: Ambient
- (xiii) Stack Height Above Ground: 147 ft.
- (xiv) Exit Diameter: Rectangular 14” x 13”
- (xv) Process Controlled by Collection System: Bulk Silos 22, 23, West Truck Loading Spout, and (2) Bulk Jumbo Packers

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least annually (as applicable)

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xv) Check dampers for proper operation

(xvi) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

(i) Check floor plates.
(ii) Inspect fans for corrosion and material build-up.
(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check dampers for proper seating.
(xii) Check the alignment of clean air pipes.
(xiii) Check the bag tension.
(xiv) Check the bag seating.
(xv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

012 Bulk Fine Material and Bulk Coarse/Granular Material Storage – Finish Mill Feed Silos 7A, 7B, 7C, 8A, 8B, 8C, 9A, 9B, and KL

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

(1) Source Designator: Finish Mill Feed Silos 7A, 7B, 7C, 8A, 8B, 8C, 9A, 9B, and KL
(2) Baghouse Manufacturer: Fuller
(3) Model Name and Number: 96-4-4000, 4 Zone #96 Plenum Pulse
(4) Design Flow Rate: 20,000 ACFM
(5) Efficiency Rating at Design Capacity: 99+%
(6) Pressure Drop: 0-6" H2O
(7) Air to Cloth Ratio: 4.97:1.00
(8) Bag Weave: Felt
(9) Bag Material: Polyester Felt, 16 oz.
(10) Bag Cleaning Conditions: 90-100 psi Pulse
(11) Gas Flow Rate: 20,000 ACFM
(12) Gas Temperatures: Ambient
(13) Stack Height Above Ground: 83 ft.
(14) Exit Diameter: Rectangular, 29” x 25”
(15) Process Controlled by Collection System: Finish Mill Feed Silos 7A, 7B, 7C, 8A, 8B, 8C, 9A, 9B, and KL

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)
- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination.

(2) Every 150 operating hours or at least semi-annually (as applicable)
- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xx) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually
- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.
- (iii) Inspect baffle plate for wear.
- (iv) Thoroughly inspect bags.
- (v) Check duct for dust build-up.
- (vi) Inspect paint.
- (vii) Check screw conveyor flighting (if applicable).
- (viii) Check all bolts.
- (ix) Check welds.
- (x) Inspect hopper for wear.
- (xi) Check dampers for proper seating.
- (xii) Check the alignment of clean air pipes.
- (xiii) Check the bag tension.
- (xiv) Check the bag seating.
- (xv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.

(2) Maintaining bag failure records to identify which baghouse compartments require replacement.

(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

013 Bulk Fine Material Processing/Blending – No. 7 Transfer & No. 8 Separator

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: No. 7 Transfer & No. 8 Separator
- (ii) Baghouse Manufacturer: Dracco
- (iii) Model Name and Number: Dracco No. 52
- (iv) Design Flow Rate: 13,000 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-8" H2O
- (vii) Air to Cloth Ratio: 2.27:1.00
- (viii) Bag Weave: Duo Density Stratified
- (ix) Bag Material: Polyester Felt, 10 oz.
- (x) Bag Cleaning Conditions: Reverse
- (xi) Gas Flow Rate: 13,000 ACFM
- (xii) Gas Temperatures: Ambient
- (xiii) Stack Height Above Ground: 57 ft.
- (xiv) Exit Diameter: Square 24” x 24”
- (xv) Process Controlled by Collection System: Air drawn off No. 7 & 8 Transfer, No. 8 Separator, and No. 2 Surge Bin

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check dampers for proper operation
- (xiv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.

(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the bag tension.
(xii) Check the bag seating.
(xiii) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

016 Finish Mills – No. 9 Separators

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Finish Mill No. 9 Separators
- (ii) Baghouse Manufacturer: IAC
- (iii) Model Name and Number: 120TB-BHT-416:S6
- (iv) Design Flow Rate: 35,000 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-6" H2O
- (vii) Air to Cloth Ratio: 5.18:1.00
- (viii) Bag Weave: Duo Density Stratified Singed
- (ix) Bag Material: Polyester Felt, 16 oz.
- (x) Bag Cleaning Conditions: Pulse-Jet; air pressure: 90-100 psi
- (xi) Gas Flow Rate: 29,400 dscfm
- (xii) Gas Temperatures: 150°F +
- (xiii) Stack Height Above Ground: 83 ft.
- (xiv) Exit Diameter: Rectangular, 40” x 33”
- (xv) Process Controlled by Collection System: Dust drawn off the Two Separators and Main Elevator

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually (as applicable)

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xx) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

(i) Check floor plates.
(ii) Inspect fans for corrosion and material build-up.
(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check dampers for proper seating.
(xii) Check the alignment of clean air pipes.
(xiii) Check the bag tension.
(xiv) Check the bag seating.
(xv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every other 1500 hour inspection (3000 hours).

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

017 Finish Mills – No. 9 Feed Conveyor, Elevators, Surge Pumps

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Finish Mill No. 9 Bulk Fine and Bulk Coarse/Granular Material Transfer
- (ii) Baghouse Manufacturer: Dracco
- (iii) Model Name and Number: Dracco No. 52
- (iv) Design Flow Rate: 13,000 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-8" H2O
- (vii) Air to Cloth Ratio: 2.31:1.00
- (viii) Bag Weave: Duo Density Stratified Singed
- (ix) Bag Material: Polyester Felt, 10 oz.
- (x) Bag Cleaning Conditions: Reverse
- (xi) Gas Flow Rate: 13,000 ACFM
- (xii) Gas Temperatures: Ambient
- (xiii) Stack Height Above Ground: 57 ft.
- (xiv) Exit Diameter: Square 24” x 24”
- (xv) Process Controlled by Collection System: Air drawn off Drag Conveyor and Direct Feed Elevator, transfer to Main Elevator, #4 surge bin, transfer to Cement Pump “A” and “C”.

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check dampers for proper operation
- (xiv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually
   (i) Check floor plates.
   (ii) Inspect fans for corrosion and material build-up.
   (iii) Inspect baffle plate for wear.
   (iv) Thoroughly inspect bags.
   (v) Check duct for dust build-up.
   (vi) Inspect paint.
   (vii) Check screw conveyor flighting (if applicable).
   (viii) Check all bolts.
   (ix) Check welds.
   (x) Inspect hopper for wear.
   (xi) Check the bag tension.
   (xii) Check the bag seating.
   (xiii) Check bypass damper seals (if applicable).
(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every other 1500 hour inspection (3000 hours).

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:
(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

018 Finish Mills – No. 9 Mill

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Finish Mill No. 9
- (ii) Baghouse Manufacturer: Buell-Norblo
- (iii) Model Name and Number: 4-4B-576-14
- (iv) Design Flow Rate: 15,000 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-8" H2O
- (vii) Air to Cloth Ratio: 3.70:1.00
- (viii) Bag Weave: Duo Density Stratified Singed
- (ix) Bag Material: Polyester Felt 10 oz.
- (x) Bag Cleaning Conditions: Reverse
- (xi) Gas Flow Rate: 12,600 dscfm
- (xii) Gas Temperatures: 150°F+
- (xiii) Stack Height Above Ground: 32 ft.
- (xiv) Exit Diameter: Rectangular 28” x 23”
- (xv) Process Controlled by Collection System: Dust drawn off Finish Mill 9 and Floor Screw Conveyor

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check dampers for proper operation
- (xiv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.

(ii) Inspect fans for corrosion and material build-up.
(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the bag tension.
(xii) Check the bag seating.
(xiii) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

019 Finish Mills – No. 10 Separators and Feed Silos 10A-B

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

(i) Source Designator: Finish Mill No. 10 Separators
(ii) Baghouse Manufacturer: IAC
(iii) Model Name and Number: 120TB-BHT-416:S6
(iv) Design Flow Rate: 35,000 ACFM
(v) Efficiency Rating at Design Capacity: 99+%
(vi) Pressure Drop: 0-6" H2O
(vii) Air to Cloth Ratio: 5.18:1.00
(viii) Bag Weave: Duo Density Stratified Singed
(ix) Bag Material: Polyester Felt, 16 oz.
(x) Bag Cleaning Conditions: Pulse-Jet; air pressure: 90-100 psi
(xi) Gas Flow Rate: 29,400 dscfm
(xii) Gas Temperatures: 150°F+
(xiii) Stack Height Above Ground: 83 ft.
(xiv) Exit Diameter: Rectangular 40” x 33”
(xv) Process Controlled by Collection System: Dust drawn off the Two Separators, Main Elevator, #3 Surge Bin, and Finish Mill Feed Silos 10A and 10B

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

(i) Check and record pressure drop on the baghouse.
(ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually (as applicable)

(i) Observe stack (visually).
(ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
(iii) Note any unusual occurrence in the process being ventilated.
(iv) Assure that dust is being removed from system.
(v) Check fan bearings.
(vi) Check fan for dust emissions.
(vii) Check baghouse for excessive dust.
(viii) Check bag condition.
(ix) Check door seal.
(x) Unplug hopper if necessary. Check rotary valves.
(xi) Check all lubrication.
(xii) Check pipe condition (inlet and outlet).
(xiii) Check air pressure for pulsing.
(xiv) Check pulse jet cycling and valves.
(xx) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually
- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.
- (iii) Inspect baffle plate for wear.
- (iv) Thoroughly inspect bags.
- (v) Check duct for dust build-up.
- (vi) Inspect paint.
- (vii) Check screw conveyor flighting (if applicable).
- (viii) Check all bolts.
- (ix) Check welds.
- (x) Inspect hopper for wear.
- (xi) Check dampers for proper seating.
- (xii) Check the alignment of clean air pipes.
- (xiii) Check the bag tension.
- (xiv) Check the bag seating.
- (xv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every other 1500 hour inspection (3000 hours).

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.

(2) Maintaining bag failure records to identify which baghouse compartments require replacement.

(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

020 Finish Mills – No. 10 Feed Conveyor, Elevators

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Finish Mill No. 10 Bulk Fine and Coarse/Granular Material Transfer
- (ii) Baghouse Manufacturer: Dracco
- (iii) Model Name and Number: Dracco No. 52
- (iv) Design Flow Rate: 13,000 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-8" H2O
- (vii) Air to Cloth Ratio: 2.31:1.00
- (viii) Bag Weave: Duo Density Stratified Singed
- (ix) Bag Material: Polyester Felt, 8.5 oz.
- (x) Bag Cleaning Conditions: Reverse
- (xi) Gas Flow Rate: 13,000 ACFM
- (xii) Gas Temperatures: Ambient
- (xiii) Stack Height Above Ground: 57 ft.
- (xiv) Exit Diameter: Square 24” x 24”
- (xv) Process Controlled by Collection System: Dust drawn off Direct Feed Elevator, Drag Conveyors, transfer to the Main Elevator, and Floor Screw Conveyor

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check dampers for proper operation
- (xiv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually
   (i) Check floor plates.
   (ii) Inspect fans for corrosion and material build-up.
   (iii) Inspect baffle plate for wear.
   (iv) Thoroughly inspect bags.
   (v) Check duct for dust build-up.
   (vi) Inspect paint.
   (vii) Check screw conveyor flighting (if applicable).
   (viii) Check all bolts.
   (ix) Check welds.
   (x) Inspect hopper for wear.
   (xi) Check the bag tension.
   (xii) Check the bag seating.
   (xiii) Check bypass damper seals (if applicable).
(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every other 1500 hour inspection (3000 hours).

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:
(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

021 Finish Mills – No. 10 Mill

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Finish Mill No. 10 Processing/Milling
- (ii) Baghouse Manufacturer: Industrial Filter
- (iii) Model Name and Number: AA-1220-10
- (iv) Design Flow Rate: 15,000 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-6" H2O
- (vii) Air to Cloth Ratio: 5.00:1.00
- (viii) Bag Weave: Felt
- (ix) Bag Material: Nomex BHA Tex Surface Membrane
- (x) Bag Cleaning Conditions: Pulse-Jet; air pressure: 90-100 psi
- (xi) Gas Flow Rate: 12,600 dscfm
- (xii) Gas Temperatures: 150°F+
- (xiii) Stack Height Above Ground: 30 ft.
- (xiv) Exit Diameter: Rectangular 35” x 20”
- (xv) Process Controlled by Collection System: Dust drawn off Finish Mill 10 and Floor Screw Conveyor

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually (as applicable)

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xx) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually
- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.
- (iii) Inspect baffle plate for wear.
- (iv) Thoroughly inspect bags.
- (v) Check duct for dust build-up.
- (vi) Inspect paint.
- (vii) Check screw conveyor flighting (if applicable).
- (viii) Check all bolts.
- (ix) Check welds.
- (x) Inspect hopper for wear.
- (xi) Check dampers for proper seating.
- (xii) Check the alignment of clean air pipes.
- (xiii) Check the bag tension.
- (xiv) Check the bag seating.
- (xv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.

(2) Maintaining bag failure records to identify which baghouse compartments require replacement.

(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

027 Bulk Fine Material Transfer – Ship Unload Air Slides To Belt 7

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: E.U. ID Nos. 027
- (ii) Baghouse Manufacturer/Model No.: Industrial Filter AA 1517-10
- (iii) Design Flow Rate: 18,000 ACFM
- (iv) Efficiency Rating at Design Capacity: 99+%
- (v) Pressure Drop: 0 to 6 in. H_2O
- (vi) Air to Cloth Ratio: 6.1:1
- (vii) Bag Weave: Felt Singed Surface
- (viii) Bag Material: Polyester
- (ix) Bag Cleaning Conditions: Pulse; air pressure: 90-100 psi
- (x) Gas Temperatures: Ambient
- (xi) Stack Height Above Ground: 20 ft
- (xii) Exit Diameter: 2.06 ft x 1.83 ft (rectangular)
- (xiii) Exit Velocity: 80 fps
- (xiv) Water Vapor Contents: Ambient

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.
- (iii) Inspect baffle plate for wear.

(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the alignment of clean air pipes.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

031 Packhouse – Automated Packers

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

(i) Source Designator: (2) Automatic Packers and Material Transfer
(ii) Baghouse Manufacturer: Sly (Modified by BHA for Pulse Jet Cleaning, Snap-In Bags, BHA Project Number 500-0782, January 1985 and 1996)
(iii) Model Name and Number: Sly Type A-360
(iv) Design Flow Rate: 12,000 ACFM
(v) Efficiency Rating at Design Capacity: 99+%
(vi) Pressure Drop: 0-6" H2O
(vii) Air to Cloth Ratio: 4.62:1.00
(viii) Bag Weave: Felt
(ix) Bag Material: Polyester Felt, 16 oz. singed
(x) Bag Cleaning Conditions: Pulse-Jet; air pressure: 90-100 psi
(xi) Gas Flow Rate: 12,000 ACFM
(xii) Gas Temperatures: Ambient
(xiii) Stack Height Above Ground: 49 ft.
(xiv) Exit Diameter: 2.0 ft.
(xv) Process Controlled by Collection System: Air Slide, Elevator, Screw Conveyor, Screens, Screw Conveyor leading to the Storage Bins, and two (2) Automatic Packers

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

(i) Check and record pressure drop on the baghouse.
(ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least annually

(i) Observe stack (visually).
(ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, etc.).
(iii) Note any unusual occurrence in the process being ventilated.
(iv) Assure that dust is being removed from system.
(v) Check fan bearings.
(vi) Check fan for dust emissions.
(vii) Check baghouse for excessive dust.
(viii) Check bag condition.
(ix) Check door seal.
(x) Unplug hopper if necessary. Check rotary valves.
(xi) Check all lubrication.
(xii) Check pipe condition (inlet and outlet).
(xiii) Check air pressure for pulsing.
(xiv) Check pulse jet cycling and valves.
(xv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

(i) Check floor plates.
(ii) Inspect fans for corrosion and material build-up.
(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the alignment of clean air pipes.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

032 Packhouse/Blending Plant – Packer Bag Handling and Reclaim

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Packhouse Bag Handling and Reclaim
- (ii) Baghouse Manufacturer: Industrial Filter
- (iii) Model Name and Number: Pulse-Jet Model AA-1120-10
- (iv) Design Flow Rate: 13,000 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-6'' H_2O
- (vii) Air to Cloth Ratio: 4.73:1.00
- (viii) Bag Weave: Felt
- (ix) Bag Material: Polyester Felt, 16 oz., singed
- (x) Bag Cleaning Conditions: 90-100 psi Air Pressure
- (xi) Gas Flow Rate: 13,000 ACFM
- (xii) Gas Temperatures: Ambient
- (xiii) Stack Height Above Ground: 73 ft.
- (xiv) Exit Diameter: Rectangular 19" x 22"
- (xv) Process Controlled by Collection System: Bag Cleaner and Reclaim for (2) Automatic Packers, Manual Packer, and Blending Plant Packer

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.

(ii) Inspect fans for corrosion and material build-up.
(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the alignment of clean air pipes.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

042 Bulk Fine Material Transfer – Air Slide to Screen to Elevator to Air Slide

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: E.U. ID No. 042
- (ii) Baghouse Manufacturer/Model No.: Fuller Model 120C10
- (iii) Design Flow Rate: 8,000 ACFM
- (iv) Efficiency Rating at Design Capacity: 99+%
- (v) Pressure Drop: 0 to 6 in. H_2O
- (vi) Air to Cloth Ratios: 5.1:1
- (vii) Bag Weaves: Felt
- (viii) Bag Materials: Polyester, singed surface
- (ix) Bag Cleaning Conditions: Pulse; air pressure: 90-100 psi
- (x) Gas Temperatures: Ambient
- (xi) Stack Height Above Ground: 174 ft.
- (xii) Exit Diameters: 1' 3 1/8" x 1' 6 1/4" (rectangular)
- (xiii) Exit Velocity: 70 fps
- (xiv) Water Vapor Contents: Ambient

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.
- (iii) Inspect baffle plate for wear.

(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the alignment of clean air pipes.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

043 Bulk Fine Material Storage and Transfer - Silos 27/28, Air Slides, Reclaim Elevator

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: E.U. ID No. 043
- (ii) Baghouse Manufacturer/Model No.: Fuller Model 144C10
- (iii) Design Flow Rate: 10,000 ACFM
- (iv) Efficiency Rating at Design Capacity: 99+%
- (v) Pressure Drop: 0 to 6 in. H2O
- (vi) Air to Cloth Ratio: 5.35:1
- (vii) Bag Weave: Felt
- (viii) Bag Material: Polyester, singed surface
- (ix) Bag Cleaning Conditions: Pulse; air pressure: 90-100 psi
- (x) Gas Temperatures: Ambient
- (xi) Stack Height Above Ground: 174 ft
- (xii) Exit Diameter: 1' 4 3/4" x 1' 8 1/4" (rectangular)
- (xiii) Exit Velocity: 70 fps
- (xiv) Water Vapor Contents: Ambient

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.
- (iii) Inspect baffle plate for wear.

(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the alignment of clean air pipes.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

044 Bulk Fine Material Ship Unloading - North Dockside Vacuum Unloader

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: E.U. ID No. 044
- (ii) Baghouse Manufacturer/Model No.: Cyclonaire Kovako DS-2X400-E (Modified by BHA for Cartridge/pleated bags, BHA Project #505-2435, February 1998)
- (iii) Design Flow Rate: 5,280 ACFM
- (iv) Efficiency Rating at Design Capacity: 99+%
- (v) Pressure Drop: 0 to 6 in. H2O
- (vi) Air to Cloth Ratio: 1.56:1
- (vii) Bag Weave: Pleated, Spun Bonded Singed Surface
- (viii) Bag Materials: Polyester
- (ix) Bag Cleaning Conditions: Pulse; air pressure: 90-100 psi
- (x) Gas Temperatures: Ambient
- (xi) Stack Height Above Ground: 26 ft.
- (xii) Exit Diameter: 14" inside diameter
- (xiii) Exit Velocity: 82 fps
- (xiv) Water Vapor Contents: All ambient

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.

(ii) Inspect fans for corrosion and material build-up.
(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the alignment of clean air pipes.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

045 Bulk Fine Ship Unloading - South Dockside Vacuum Unloader

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: E.U. ID No. 045
- (ii) Baghouse Manufacturer/Model No.: Cyclonaire Kovako DS-2X400-E
- (iii) Design Flow Rate: 5,280 ACFM
- (iv) Efficiency Rating at Design Capacity: 99+%
- (v) Pressure Drop: 0 to 6 in. H2O
- (vi) Air to Cloth Ratio: 1.56:1
- (vii) Bag Weave: Pleated, Spun Bonded Singed Surface
- (viii) Bag Material: Polyester
- (ix) Bag Cleaning Conditions: Pulse; air pressure: 90-100 psi
- (x) Gas Temperatures: Ambient
- (xi) Stack Height Above Ground: 26 ft
- (xii) Exit Diameter: 14" inside diameter
- (xiii) Exit Velocity: 82 fps
- (xiv) Water Vapor Content: Ambient

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.
- (iii) Inspect baffle plate for wear.

(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the alignment of clean air pipes.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

058 Bulk Coarse/Granular Material Processing - Dryer And Drag Conveyor

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Slag Dryer
- (ii) Baghouse Manufacturer: Gencor
- (iii) Model Name and Number: 360-D
- (iv) Manufacturer's Rated Efficiency: 99.9%
- (v) Design Flow Rate: 31,300 ACFM
- (vi) Pressure Drop: 0-6 inches H2O
- (vii) Bag Material: Nomex
- (viii) Bag Cleaning Conditions: Pulse; air pressure: 90-100 psi
- (ix) Air to Cloth Ratio at Maximum Flow: 4.70:1
- (x) Bag Surface Area: 6660 sq. ft.
- (xi) Operating Temperature: 400° to 450° F
- (xii) Stack Height Above Ground: 62 ft.
- (xiii) Exit Diameter: 3 ft.
- (xiv) Water Vapor Content: 35.7%

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.
- (iii) Check and record temperature differential on the baghouse.

(2) Every 150 operating hours

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours

- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.

(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the alignment of clean air pipes.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every other 1500 hour inspection (3000 hours).

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

060 Bulk Fine Shipping – Truck Loadout from Silo 27

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: E.U. ID 060
- (ii) Baghouse Manufacturer/Model No.: Fuller Model 100C10
- (iii) Design Flow Rate: 7,000 ACFM
- (iv) Efficiency Rating at Design Capacity: 99+%
- (v) Pressure Drop: 0 to 6 in. H_2O
- (vi) Air to Cloth Ratio: 5.3:1
- (vii) Bag Weave: Felt, singed surface
- (viii) Bag Material: Polyester, 16 oz.
- (ix) Bag Cleaning Conditions: Pulse; air pressure: 90-100 psi
- (x) Gas Temperatures: Ambient
- (xi) Stack Height Above Ground: 35 ft
- (xii) Exit Diameter: 16" x 18" (rectangular)
- (xiii) Exit Velocity: 59 fps.
- (xiv) Water Vapor Contents: Ambient

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.
- (iii) Inspect baffle plate for wear.

(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the alignment of clean air pipes.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

061 Bulk Fine Shipping – Truck Loadout from Silo 28

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: E.U. ID 061
- (ii) Baghouse Manufacturer/Model No.: Fuller Model 100C10
- (iii) Design Flow Rate: 7,000 ACFM
- (iv) Efficiency Rating at Design Capacity: 99+%
- (v) Pressure Drop: 0 to 6 in. H_2O
- (vi) Air to Cloth Ratio: 5.3:1
- (vii) Bag Weave: Felt, singed surface
- (viii) Bag Material: 16 oz. polyester
- (ix) Bag Cleaning Conditions: Pulse; air pressure: 90-100 psi
- (x) Gas Temperatures: Ambient
- (xi) Stack Height Above Ground: 35 ft
- (xii) Exit Diameter: 16" x 18" (rectangular)
- (xiii) Exit Velocity: 59 fps
- (xiv) Water Vapor Contents: Ambient

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.
- (iii) Inspect baffle plate for wear.

(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the alignment of clean air pipes.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

066 Bulk Fine Material Transfer – Conveyor No. 7 To Hopper To Air Slide

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: E.U. ID No. 066
- (ii) Baghouse Manufacturer/Model No.: BHA Project 505-7197, June 2002, upgrade with pleated bags
- (iii) Design Flow Rate: 5,000 ACFM
- (iv) Efficiency Rating at Design Capacity: 99+%
- (v) Pressure Drop: 0 to 6 in. H_2O
- (vi) Air to Cloth Ratio: 3.0:1
- (vii) Bag Weave: Spunbond Pleated
- (viii) Bag Material: Polyester
- (ix) Bag Cleaning Conditions: Pulse; air pressure: 90-100 psi
- (x) Gas Temperatures: Ambient
- (xi) Stack Height Above Ground: 109 ft
- (xii) Exit Diameters: 11" x 13" (rectangular)
- (xiii) Exit Velocity: 83 fps
- (xiv) Water Vapor Contents: Ambient

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.

(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the alignment of clean air pipes.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

071 Packhouse - Rotary Packer

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Rotary Packer
- (ii) Baghouse Manufacturer: Dracco (Modified by IAC)
- (iii) Model Name and Number: 80PE-BHTX-180:S6
- (iv) Design Flow Rate: 20,000 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-6" H2O
- (vii) Air to Cloth Ratio: 2.96:1.00
- (viii) Bag Weave: Spun bond, pleated
- (ix) Bag Material: Polyester, 8 oz.
- (x) Bag Cleaning Conditions: Pulse; air pressure: 90-100 psi
- (xi) Gas Flow Rate: 20,000 ACFM
- (xii) Gas Temperatures: Ambient
- (xiii) Stack Height Above Ground: 12 ft.
- (xiv) Exit Diameter: Rectangular, 33” x 16”
- (xv) Process Controlled by Collection System: Rotary packer, airslide, elevators, bins, bag handling

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check air pressure for pulsing.
- (xiv) Check pulse jet cycling and valves.
- (xv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.

(ii) Inspect fans for corrosion and material build-up.
(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the alignment of clean air pipes.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

072 Blending Plant – Material Handling, Storage, and Blending

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

(i) Source Designator: Blending Plant
(ii) Baghouse Manufacturer: Dracco
(iii) Model Name and Number: Dracco No. 52
(iv) Design Flow Rate: 8,000 ACFM
(v) Efficiency Rating at Design Capacity: 99+%
(vi) Pressure Drop: 0-8" H2O
(vii) Air to Cloth Ratio: 2.13:1.00
(viii) Bag Weave: Duo Density Stratified Singed
(ix) Bag Material: Polyester, 16 oz.
(x) Bag Cleaning Conditions: Reverse Air
(xi) Gas Flow Rate: 8,000 ACFM
(xii) Gas Temperatures: Ambient
(xiii) Stack Height Above Ground: 49 ft.
(xiv) Exit Diameter: Rectangular. 16” x 33”
(xv) Process Controlled: Blending plant

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

(i) Check and record pressure drop on the baghouse.
(ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

(i) Observe stack (visually).
(ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
(iii) Note any unusual occurrence in the process being ventilated.
(iv) Assure that dust is being removed from system.
(v) Check fan bearings.
(vi) Check fan for dust emissions.
(vii) Check baghouse for excessive dust.
(viii) Check bag condition.
(ix) Check door seal.
(x) Unplug hopper if necessary. Check rotary valves.
(xi) Check all lubrication.
(xii) Check pipe condition (inlet and outlet).
(xiii) Check dampers for proper operation.
(xiv) Check bypass damper seals (if applicable).

(3) Every 1500 operating hours or at least annually

(i) Check floor plates.
(ii) Inspect fans for corrosion and material build-up.
(iii) Inspect baffle plate for wear.

(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check dampers for proper seating
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

073 Blending Plant/Packhouse - Manual Packer, Haver Packer, Jumbo Bagger

Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

- (i) Source Designator: Blending plant packer (Haver 2-spout), manual packer, jumbo bagging
- (ii) Baghouse Manufacturer: Dracco
- (iii) Model Name and Number: Dracco No. 52
- (iv) Design Flow Rate: 8,000 ACFM
- (v) Efficiency Rating at Design Capacity: 99+%
- (vi) Pressure Drop: 0-8" H2O
- (vii) Air to Cloth Ratio: 2.13:1.00
- (viii) Bag Weave: Duo Density Stratified Singed
- (ix) Bag Material: Polyester 16 oz.
- (x) Bag Cleaning Conditions: Reverse Air
- (xi) Gas Flow Rate: 8,000 ACFM
- (xii) Gas Temperatures: Ambient
- (xiii) Stack Height Above Ground: 49 ft.
- (xiv) Exit Diameter: Rectangular. 16” x 33”
- (xv) Process Controlled: Blending plant packer (Haver 2-spout), manual packer, jumbo bagging

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)

- (i) Check and record pressure drop on the baghouse.
- (ii) Perform an instantaneous visual emissions determination on the emissions unit.

(2) Every 150 operating hours or at least semi-annually

- (i) Observe stack (visually).
- (ii) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
- (iii) Note any unusual occurrence in the process being ventilated.
- (iv) Assure that dust is being removed from system.
- (v) Check fan bearings.
- (vi) Check fan for dust emissions.
- (vii) Check baghouse for excessive dust.
- (viii) Check bag condition.
- (ix) Check door seal.
- (x) Unplug hopper if necessary. Check rotary valves.
- (xi) Check all lubrication.
- (xii) Check pipe condition (inlet and outlet).
- (xiii) Check dampers for proper operation.
- (xiv) Check bypass damper seals (if applicable).

(3) Every 1500 operating hours or at least annually

- (i) Check floor plates.

(ii) Inspect fans for corrosion and material build-up.
(iii) Inspect baffle plate for wear.
(iv) Thoroughly inspect bags.
(v) Check duct for dust build-up.
(vi) Inspect paint.
(vii) Check screw conveyor flighting (if applicable).
(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check dampers for proper seating
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(4) Fluorescent dye will be used during investigations of holes/leakage in bag filter media or at least every 36 months.

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

<u>080 Finish Mills – Surge Pump "B"</u>
Operation and Maintenance Plan for Particulate Matter Control

(a) Process Parameters:

(i) Source Designator: E.U. ID No. 080
(ii) Baghouse Manufacturer/Model No.: IAC 48TB-BV-25:S4
(iii) Design Flow Rate: 300 ACFM
(iv) Efficiency Rating at Design Capacity: 99+%
(v) Pressure Drop: 0 to 6 in. H2O
(vi) Air to Cloth Ratio: 2.48:1
(vii) Bag Weave: Spunbond Pleated
(viii) Bag Material: Polyester
(ix) Bag Cleaning Conditions: Pulse; air pressure: 90-100 psi
(x) Gas Temperature: Ambient
(xi) Stack Height Above Ground: 39 ft
(xii) Exit Diameter: 4"
(xiii) Water Vapor Content: Ambient

(b) The following observations, checks and operations apply and shall be conducted on the schedule specified:

(1) Daily (if operating)
- (i) Check and record pressure drop on the baghouse.

(2) Every 150 operating hours or at least semi-annually
- (i) Walk through system listening for proper operation (audible leaks, proper fan and motor functions, etc.).
- (ii) Note any unusual occurrence in the process being ventilated.
- (iii) Assure that dust is being removed from system.
- (iv) Check fan bearings.
- (v) Check fan for dust emissions.
- (vi) Check baghouse for excessive dust.
- (vii) Check bag condition.
- (viii) Check door seal.
- (ix) Unplug hopper if necessary. Check rotary valves.
- (x) Check all lubrication.
- (xi) Check pipe condition (inlet and outlet).
- (xii) Check air pressure for pulsing.
- (xiii) Check pulse jet cycling and valves.
- (xiv) Check bypass damper seals (if applicable)

(3) Every 1500 operating hours or at least annually
- (i) Check floor plates.
- (ii) Inspect fans for corrosion and material build-up.
- (iii) Inspect baffle plate for wear.
- (iv) Thoroughly inspect bags.
- (v) Check duct for dust build-up.
- (vi) Inspect paint.
- (vii) Check screw conveyor flighting (if applicable).

(viii) Check all bolts.
(ix) Check welds.
(x) Inspect hopper for wear.
(xi) Check the alignment of clean air pipes.
(xii) Check the bag tension.
(xiii) Check the bag seating.
(xiv) Check bypass damper seals (if applicable).

(c) Additional work practices regarding the Operation and Maintenance of the baghouses shall include:

(1) Maintaining an adequate supply of spare parts on-hand at the facility for timely replacement and repair.
(2) Maintaining bag failure records to identify which baghouse compartments require replacement.
(3) Ensuring that the maintenance records include the dates on which excursions are corrected.

(d) Records: Records of inspections, maintenance, and performance parameters shall be retained for a minimum of five years and shall be made available to the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700 and 62-213.440(1)(b), F.A.C.]

Compliance Assurance Monitoring (CAM) Requirements

Pursuant to Rule 62-213.440(1)(b)1.a., F.A.C., the CAM plans that are included in this appendix contain the monitoring requirements necessary to satisfy 40 CFR 64. Conditions 1. – 17. are generic conditions applicable to all emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the attached tables, as submitted by the applicant and approved.

40 CFR 64.6 Approval of Monitoring

1. The attached CAM plan(s), as submitted by the applicant, is/are approved for the purposes of satisfying the requirements of 40 CFR 64.3.
[40 CFR 64.6(a)]

2. The attached CAM plan(s) include the following information:
(i) The indicator(s) to be monitored (such as temperature, pressure drop, emissions, or similar parameter);
(ii) The means or device to be used to measure the indicator(s) (such as temperature measurement device, visual observation, or CEMS); and
(iii) The performance requirements established to satisfy 40 CFR 64.3(b) or (d), as applicable.
[40 CFR 64.6(c)(1)]

3. The attached CAM plan(s) describe the means by which the owner or operator will define an exceedance of the permitted limits or an excursion from the stated indicator ranges and averaging periods for purposes of responding to (see **CAM Conditions 5. – 9.)** and reporting exceedances or excursions (see **CAM Conditions 10. – 14.).**
[40 CFR 64.6(c)(2)]

4. The permittee is required to conduct the monitoring specified in the attached CAM plan(s) and shall fulfill the obligations specified in the conditions below (see **CAM Conditions 5. – 17.).**
[40 CFR 64.6(c)(3)]

40 CFR 64.7 Operation of Approved Monitoring

5. Commencement of operation. The owner or operator shall conduct the monitoring required under this appendix upon the effective date of this Title V permit.
[40 CFR 64.7(a)]

6. Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
[40 CFR 64.7(b)]

7. Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. [40 CFR 64.7(c)]

8. Response to excursions or exceedances.

a. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions, if allowed by this permit). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

b. Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

[40 CFR 64.7(d)(1) & (2)]

9. Documentation of need for improved monitoring. If the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the permitting authority and, if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator

ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
[40 CFR 64.7(e)]

<u>40 CFR 64.8 Quality Improvement Plan (QIP) Requirements</u>

10. Based on the results of a determination made under **CAM Condition 8.b.**, above, the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with **CAM Condition 4.,** an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, may require the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.
[40 CFR 64.8(a)]

11. <u>Elements of a QIP</u>:

a. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.

b. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:

(i) Improved preventive maintenance practices.
(ii) Process operation changes.
(iii) Appropriate improvements to control methods.
(iv) Other steps appropriate to correct control performance.
(v) More frequent or improved monitoring (only in conjunction with one or more steps under **CAM Condition 11.b(i)** through **(iv)**, above).

[40 CFR 64.8(b)]

12. If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the permitting authority if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.
[40 CFR 64.8(c)]

13. Following implementation of a QIP, upon any subsequent determination pursuant to **CAM Condition 8.b.,** the permitting authority may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:

a. Failed to address the cause of the control device performance problems; or

b. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

[40 CFR 64.8(d)]

14. Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.
[40 CFR 64.8(e)]

<u>40 CFR 64.9 Reporting And Recordkeeping Requirements</u>.

15. <u>General reporting requirements</u>.

a. On and after the date specified in **CAM Condition 5.** by which the owner or operator must use monitoring that meets the requirements of this appendix, the owner or operator shall submit monitoring reports semiannually to the permitting authority in accordance with Rule 62-213.440(1)(b)3.a., F.A.C.

b. A report for monitoring under this part shall include, at a minimum, the information required under Rule 62-213.440(1)(b)3.a., F.A.C., and the following information, as applicable:

(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(iii) A description of the actions taken to implement a QIP during the reporting period as specified in CAM Conditions 10. through 14. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

[40 CFR 64.9(a)]

16. <u>General recordkeeping requirements</u>.

a. The owner or operator shall comply with the recordkeeping requirements specified in Rule 62-213.440(1)(b)2., F.A.C. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to CAM Conditions 10. through 14 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

b. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche,

provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.

[40 CFR 64.9(b)]

<u>40 CFR 64.10 Savings Provisions</u>.

17. It should be noted that nothing in this appendix shall:

a. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this appendix shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under Title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.

b. Restrict or abrogate the authority of the Administrator or the permitting authority to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.

c. Restrict or abrogate the authority of the Administrator or permitting authority to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.

[40 CFR 64.10]

Table 1. Monitoring Approach

Emission Units 001, 002, 003, 005, 006, 007, 008, 012, 013, 016, 017, 018, 019, 020, 021, 027, 031, 032, 042, 043, 058, 060, 061, 066, 071, 072, 073, and 080

	Indicator No. 1	Indicator No. 2	Indicator No. 3
I. Indicator	Visible Emissions	Pressure Drop	Inspection/maintenance
Measurement Approach	EPA Method 22 observations performed daily (except EU080). EPA Method 9 observations performed annually (except EU080).	Pressure drop across the baghouse is measured continuously using a differential pressure gauge. Readings are recorded daily.	Daily inspection for pressure drop and visible emissions (except EU080); periodic inspections (150 hour, 1500 hour, semi-annual, and annual) as applicable.
II. Indicator Range	An excursion is defined as the presence of visible emissions when conducting EPA Method 22. An exceedance is defined as opacity greater than 5 percent (6-min. avg.) when conducting EPA Method 9. Excursions and exceedances trigger an inspection, corrective action, and a reporting requirement.	An excursion is defined as a pressure drop greater than 8 in H_2O for reverse air baghouses and 6 in H_2O for pulse jet baghouses. Excursions trigger an inspection, corrective action, and a reporting requirement.	N/A.
QIP Threshold	The QIP threshold is nine excursions in a 6-month reporting period.	The QIP threshold is nine excursions in a 6-month reporting period.	N/A.
III. Performance Criteria			
A. Data Representativeness	Opacity variability is typically a gradual increase or decrease. A sudden and sustained increase in opacity could indicate a failure in one or more of the baghouse compartments.	Pressure drop across the baghouse is measured at the baghouse inlet and outlet. The pressure drop is indicative of the operation and maintenance of the baghouse. Operation outside of the applicable indicator range may result in exceedances of the particulate matter or visible emissions standards. The minimum accuracy of the device is $\pm$0.5 in H_2O.	Inspections are performed at the baghouse.
B. Verification of Operational Status	Daily instantaneous VE's will be conducted and recorded if the emission unit is in operation (except EU080).	Daily recording will note operational status of gauge and control device.	N/A.
C. QA/QC Practices and Criteria	Method 22: Observer will be familiar with the EPA Reference Method and follow the procedures. Method 9: Observer is certified every six months.	Pressure gauge calibrated annually or anytime a new gauge is placed into service. Pressure taps checked daily for plugging.	Qualified personnel perform inspection.
D. Monitoring Frequency	EPA Method 22: Daily instantaneous observations. EPA Method 9: Annual observations.	Pressure drop is measured continuously during operation and recorded daily.	Daily, 150 hour, 1500 hour, Semi-annually, and Annually as applicable.
E. Data Collection Procedures	Daily and annual observations are performed by qualified personnel.	Daily observations and annual calibrations are performed by qualified personnel.	Records are maintained to document all inspections and any required maintenance or corrective actions.
F. Averaging Period	EPA Method 22: Instantaneous. EPA Method 9: 6-minute average.	Instantaneous.	N/A.