



## BAGHOUSE OUTAGE PLANNING

**Because Planning Ahead Pays Off.**


**When it comes to baghouse maintenance, preparation makes all the difference. With decades of expertise and over a million filter bags delivered annually worldwide, Cleanova - together with our trusted family of industrial filtration brands - brings proven know-how to every baghouse project. We manufacture filter bags to your exact specifications to help ensure clean air and reliable operations.**

We deliver on time to meet your outage schedule and can supply the full range of baghouse parts and accessories needed for maintenance and repairs. The result: improved operating efficiencies, no surprises, assured compliance, and environmental protection.



Contact us to learn more about our full range of Baghouse Solutions including our Baghouse Maintenance and Repair Services, In-House Laboratory Testing and Training courses for your baghouse personnel. We've got you covered to meet the toughest environmental challenges.

## RECOMMENDED MAINTENANCE SCHEDULE

Daily		Weekly	
Stack opacity monitor	<ul style="list-style-type: none"> <li>✓ Check for increase in average opacity</li> <li>✓ Check for abnormal spike following a compartment cleaning</li> </ul>	Cleaning system	<ul style="list-style-type: none"> <li>✓ Perform system walk through and check for pulse valve leaks or malfunctions</li> <li>✓ Check damper cylinders and valves for leaks and proper operation</li> <li>✓ Repair components identified as defective during daily checks</li> </ul>
Pressure drop	<ul style="list-style-type: none"> <li>✓ Check for ability of system to maintain pressure drop within normal range, with normal cleaning frequency</li> </ul>	Removal system	<ul style="list-style-type: none"> <li>✓ Perform system walk through and check for normal operation</li> </ul>
Cleaning system controls	<ul style="list-style-type: none"> <li>✓ Verify that all dampers are opening and closing in a normal manner</li> </ul>	Instrumentation	<ul style="list-style-type: none"> <li>✓ Verify the proper operation of all key instrumentation sensors and output devices</li> </ul>
Compressed air supply	<ul style="list-style-type: none"> <li>✓ Verify the level of compressed air pressure is normal</li> <li>✓ Verify the pattern of compressed air usage during a cleaning cycle is normal</li> </ul>	Access Doors	<ul style="list-style-type: none"> <li>✓ Verify that all access doors are closed and sealed properly</li> </ul>
Inlet and outlet temperature	<ul style="list-style-type: none"> <li>✓ Verify that temperatures are within normal and acceptable ranges</li> </ul>		
Removal system	<ul style="list-style-type: none"> <li>✓ Verify the normal operation of conveying system</li> <li>✓ Check dust is being removed from the hoppers</li> </ul>		
System fans	<ul style="list-style-type: none"> <li>✓ Check fan bearing temperature and vibration detector recorders</li> </ul>		

During any compartment outage requiring the opening of the compartment		Annual or extended outage	
Clean air plenum	<ul style="list-style-type: none"> <li>✓ Check for the accumulation of dust on the tube sheet</li> <li>✓ Check for alignment of pulse pipes</li> <li>✓ Check for failed bags or loose bag/tube sheet connections</li> <li>✓ Check for signs of corrosion on walls, pulse pipes, or dampers</li> <li>✓ Verify the integrity and completeness of the door seals</li> </ul>	Ductwork	<ul style="list-style-type: none"> <li>✓ Check for any severe corrosion or sources of In-leakage</li> <li>✓ Check condition of all expansion joints</li> </ul>
Hopper	<ul style="list-style-type: none"> <li>✓ Check for signs of dust build-up or bridging on walls, inlet baffles, or at discharge</li> <li>✓ Check for signs of corrosion on walls</li> <li>✓ Check the alignment and condition of the bag bottoms</li> <li>✓ Check for signs of dust abrasion on walls or baffles</li> </ul>	System dampers	<ul style="list-style-type: none"> <li>✓ Check the physical condition of all damper blades, seals cylinders, and actuators</li> <li>✓ Visually confirm the proper movement and sealing of all dampers</li> <li>✓ Perform any scheduled PM on the cylinder and solenoid seals</li> </ul>
		Cleaning system	<ul style="list-style-type: none"> <li>✓ Check all valve diaphragms and solenoids</li> </ul>

## BAGHOUSE AND DUST COLLECTOR OUTAGE CHECKLIST



### Filter Bags

A wide range of filter media for all OEM baghouse and dust collector styles and types, such as pulse jet, reverse air, and shakers.



### Cages

We offer a diverse variety of cage styles and review every order to ensure optimum bag-to-cage fit.



### Repair Kits and Valves

to fit all standard pulse valves of the leading manufacturers. Kits use premium diaphragm material for maximum performance. Fast shipping.



### Tensioning and Clamps

A full range of hanging hardware and clamps available, to maintain proper tension and to prevent dust leakage and bag failure.



### Door Seals

Door seals and gaskets that prevent outside air from leaking into your fabric filter, preventing fugitive emissions, reduction of airflow and production loss.



### Leak Detection Powder

A fluorescent powder that helps detect fabric filter leaks after a bag changeout, ensuring a leak-free system at start-up or at any time during the life of the bags.



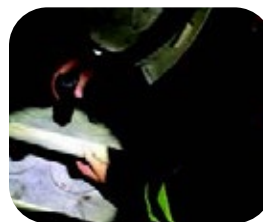
### Precoat

Our precoat, a chemically inert, light-density powder, gives you maximum, even, air flow and enhanced operational efficiency.



### Emissions Monitoring

Broken bag detectors to monitor fugitive emissions, for improved differential pressure and airflow control, preventing particulate emissions and reducing maintenance costs.



### Troubleshooting and Inspections

We offer professional and dedicated technical field services for any size baghouse or dust collector, offline or online, 24/7, 365 days/year.



### Installation Services

We provide everything from standard filter bag replacement to complete fabric filter refurbishment and conversions - supervision or full installation services.

From filters to full-service maintenance, Cleanova Micronics is your single source for expert baghouse solutions. Contact us today to learn more about our full range of solutions designed to maximize efficiencies, protect the environment, and keep you in compliance.