



## **New Filter Bag Start-Up Procedure For Pulse Jet Baghouses**

To protect new filter bags in a pulse jet baghouse during initial start-up, it is important to protect and control the rate of dust velocity impinging on the new bags during this critical period of filter bag life. This procedure outlines the method for accomplishing this under controlled conditions.

- If available, pre-heat the compartment using hopper heaters
- Immediately prior to start-up, inject a compatible pre-coat material into the compartment. This material helps accomplish two things:
  - Provides a porous layer of protective dust to the new bags
  - Absorbs moisture and acids that form as the compartment goes through dew points
- Restrict the gas flow into the compartment by limiting the opening of the inlet or outlet damper for 24-48 hours, or reduce fan speed or flow. This restriction is intended to control the velocity of incoming gas/ dust to a level at or near the design air-to-cloth ratio and allow a protective dust cake to safely develop. This flow restriction is typically achieved by limiting the damper opening to 20% of total. Note: Due to the high permeability of new bags, the flow volume should be sufficient to ventilate the process or pickup point.
- Reduce the cleaning energy by reducing the compressed air pressure to the pulse header. Typically during the first 8-12 hours, a 30-40% drop in compressed air pressure will still reduce the dust level enough to maintain satisfactory differential without overcleaning the accumulating dust cake. Note: This reduced cleaning also preserves the layer of protective pre-coat previously applied to the new bags.