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Abstract

Pulse-jet baghouses are considered state-of-the-art technology, but this design has fundamental flaws that compromise performance, limit filter bag life, and present troublesome maintenance challenges. Cement plant personnel have accepted and learned to live with these common drawbacks, even on modern pulse-jet units.

This presentation shows a new development in baghouse design. A design that uses the same particle filtration media as existing designs, but applies a new filtered dust cleaning system, offering numerous advantages over designs currently in service.

We begin with baghouse design history, outline inherent flaws in the design of modern baghouses and present a solution that largely eliminates these flaws. The presentation also includes performance results on a full-scale, real installation.