



GORE® Filtration Products

Cement Industry

Case History 1

Cement Kiln - Wet

OPTIMIZATION POTENTIAL

ESPs provided emission control for two long wet kilns. Performance was inefficient and costly to maintain, coincidentally the plant switched to the use of alternative fuels further aggravating the problems.

SOLUTION

The plant replaced the ESPs with two baghouses. W. L. Gore & Associates installed GORE® membrane/SUPERFLEX® fabric filter bags in the baghouses and fully optimized all system settings.

RESULT

Installation of GORE® membrane/SUPERFLEX® fabric filter bags resulted in the following improvements to the baghouse and overall production process:

- Baghouses ran at the design airflow (135, 000 acfm).
- Differential pressure was maintained at acceptable levels for life of bags
- Emissions remained low and environmentally compliant for life of filter
- Filter bag life exceeded 84 months



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|-----------------------------------|--------------------------------------|
| Process description: | Cement kiln exhaust |
| Collector manufacturer: | Solios (formerly Proceadair) |
| Design airflow rate: | 135, 000 acfm |
| Design temperature: | 410° F |
| No. bags per collector: | 1,425 |
| Cleaning system: | Low pressure/high volume |
| Air-to-cloth ratio design: | Gross 3.86:1 |
| Bag material: | GORE® membrane/ SUPERFLEX® fabric |

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