## Case Study:

# Cement Kiln Dust - Holcim, Brazil



#### **IN BRIEF**

Holcim Cantagalo recently came to Macawber Engineering's Brazilian licensee, PDL Sistemas for a quality Cement Kiln Dust pneumatic conveying system for an intermediate system conveying to a final storage silo. This is to replace a pressurized silo truck which led to dusty conditions and inefficient plant operations. The systems have been installed and continue to operate reliably for the customer.

## **MATERIAL CHARACTERISTICS**

Material Cement Kiln Dust (Filter Dust)
Bulk Density Aerated 500-700 kg/m3 (31-44 lb/ft3)

Size 14,000 Blane Temperature 130°C (266°F)

Moisture Content 0%

Condition Medium abrasiveness, with poor flowing

characteristics (fluidizing pads and Teflon coating were required)

## **SYSTEM OBJECTIVES**

- 1. Cost reduction on material handling
- 2. Automatic conveying for material transfer
- 3. Elimination of dust spillage

### SYSTEM PERFORMANCE

System Type Cementveyor Transfer Capacity 10 Mt/h (11 t/h) Conveying Distance 294 m (965ft)

Reception Points One Vertical Lifts Four



