



Case Study: Pulverized Fuel Ash – Power Gen PLC

IN BRIEF

Power Gen PLC of Retford, England rely on Macawber engineering at their Cottam Power Station (4x500 MW) to replace an existing fly ash handling system. The Macawber AshVeyor System was installed on unit #2 to continuously convey pulverized fuel ash (P.F.A.) over a distance of 560 feet.

MATERIAL CHARACTERISTICS

Material	Pulverized Fuel Ash
Bulk Density	53 lb/cu. ft.
Size	< 100 micron
Temperature	Up to 400°F(205°C)
Moisture	< 1%
Condition	Highly abrasive. Free flowing when aerated



SYSTEM OBJECTIVES

1. Continuous Conveying of P.F.A.
2. Air consumption efficiency
3. Reliable consistent conveying.
4. Maintain low pipe and valve wear.

SYSTEM PERFORMANCE

Transfer Capacity: 35 T/H
 Conveying Distance: 560 ft
 Pick-up Points: 9
 Reception Points: 1

- * Trouble free conveying on a continuous 24 hour basis.
- * No pipeline boosters are required on the Macawber technology.
- * Low pipewear – Macawber provides a no-wear guarantee.
- * Vessels filled via the unique Macawber Dome Valve technology.
- * Compact design and low profile allows for easy retrofit installation in restricted headroom applications.
- * Low-velocity Dense-phase conveying provides lower air consumption and increased energy efficiency.
- * Customer relationship strengthened through solid delivery on promises.

