

Macawber Installation Case Study: **Bentonite – Wyoming, USA**

IN BRIEF

A company running a bentonite mining operation in Wyoming decided to replace their high maintenance bucket elevator with a Macawber pneumatic conveying system. Bentonite, a clay made up of minerals, is utilized in many different products from animal feed and cosmetics to casting molds and cement. The system purchased included an 8/8-5 Denseveyor® along with a 5" pinch type switch valve and pneumatic controls.

MATERIAL CHARACTERISTICS

Material	Bentonite
Bulk Density	65.9 lbs./ft ³
Temperature	≤ 212°F
Moisture Content	≤ 11.8%
Condition	Moderate flowing

SYSTEM OBJECTIVES

1. Reduce maintenance
2. Create operational savings
3. Decrease downtime

SYSTEM PERFORMANCE

Transfer Capacity	15.00 T/hr.
Conveying Distance	200 ft
Reception Points	2

IMPROVEMENTS ACHIEVED

1. Maintenance cost was reduced significantly
2. Generated savings
3. Downtime lessened with less moving parts and system reliability

