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Macawber Installation Case Study:

Silica Sand - Charlotte, NC

IN BRIEF

Two systems to handle sand were installed in Charlotte, North Carolina.

MATERIAL CHARACTERISTICS

Material Silica Sand

Bulk Density Aerated 1500 kg/m3 (100 lb/ft3)
Size 100% < below 300 microns

Temperature Ambient Moisture Content Zero

Condition Free flowing, highly abrasive

SYSTEM OBJECTIVES

1. Reliable, consistent conveying

2. Low pipe wear

3. Low air consumption

SYSTEM PERFORMANCE

Transfer Capacity Each system 9 Mt/h (9.9 t/h)

Conveying Distance 30m (100ft)
Reception Points Two each system

IMPROVEMENTS ACHIEVED

- 1. System operation is stable, reliable, and efficient
- 2. System capacity met the specified rate
- 3. Pipe wear is low



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