

Bulk Material Handling

OVERVIEW

The following projects are a representative sample of our experience in bulk material handling and calcium carbonate. We welcome the opportunity to discuss these and other projects in more detail.

PROJECTS

POWDERED MILK CANNING LINE

Saputo, Inc.
Fond du Lac, Wisconsin

The project consisted of relocating an existing powdered milk canning line from one facility to another. The system consisted of bulk unloading, pneumatic and screw conveyors, vibratory screening and a can filling operation. The cans were then sealed and conveyed to an automatic case packager.

Our scope included evaluation and specification of supersack unloading equipment, alternate methods of conveying to accommodate the new layout and replacement of the existing relay based control system with an Allen Bradley PLC. All existing equipment capacities were evaluated to accommodate system operating revisions.

STARCH UNLOADING & STORAGE

Boise Cascade Corporation
International Falls, Minnesota

This project consisted of unloading of starch supersacks and transferring to storage hopper using a flexible screw conveyor. Material was then transferred to a makedown tank using a metering screw conveyor. The entire system was PLC based control. Similar systems were installed at various locations including Appleton Papers, International Paper and Potlatch Corporation.

POPPING CANDY MANUFACTURING

Raven Manufacturing
Neenah, Wisconsin

Project consisted of the manufacturing and packaging of popping candy and ingredients. The solidified candy is transferred to a vibratory screen and separated for oversized, undersized and accepts. The oversized particles are then processed through a Quadro mill and reintroduced before the vibratory screen. The accepts pass through a metal detector before being packaged in bulk boxes and/or drums. Because the product is temperature and moisture sensitive, very tight temperature and humidity controls are required for the manufacturing and packaging portions of the facility.

FORAY PROJECTS

Ansul, Inc.
Marinette, Wisconsin

Completed various projects in the Foray Plant including bulk rail car unloading, bin and bag unloading stations, pneumatic transferring of product, storage hoppers and silos, bin vent filters, blending and packaging. Foray is a monoammonium phosphate based fire extinguishing agent used in hand held extinguishers.