

FOOD

Confectionery Snacks



S O L U T I O N O V E R V I E W

Powdered Sugar Production

The milling process creates another unique set of problems. Because of the presence of a combustible material (starch) in an enclosed environment, safeguards were provided to meet NEMA Class I, Division 1 requirements. Shick engineers worked closely with the client's architects and engineers to incorporate features into the building, electrical system and equipment design. Because fracturing of the sugar crystals produces heat, the milling system utilizes an anti-caking agent (starch), as well as vacuum sweeping of the mill with conditioned air for clean, efficient transfer and storage.

Heat and Humidity Control

In order to avoid caramelizing due to extreme temperature and high humidity, Shick designed a comprehensive conditioned air system. A regenerative desiccant drying and air and water assisted cooling system produced an ideal environment for successful transfer of these sensitive products.

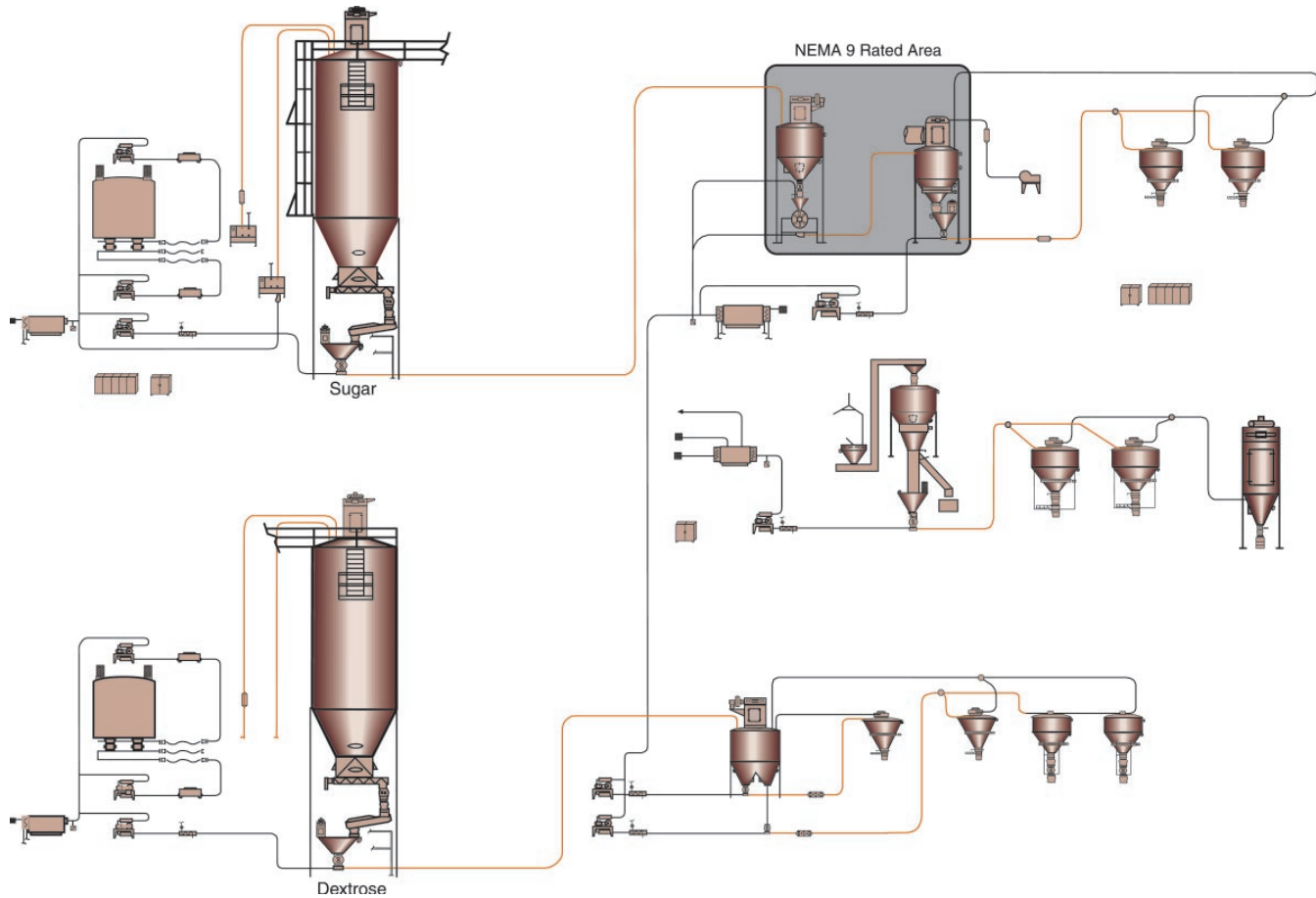
Rail and Truck Unloading

Shick's design included the installation of two new rail unloading systems and a separate truck unloading station to satisfy the customer's increased capacity and production requirements.

FOOD

Confectionery Snacks

PROCESS DIAGRAM



Final Product: Candy and Gum

Project Scope:

- Railcar Unloading
- Bulk Storage (2) 5,800 Ft³ Silos
- Sifting and Pneumatic Transfer System
- Sugar Milling System - Central Dust Collection Systems
- Hazardous Classification Adherence
- Dehumidification and Conditioning of All Conveying Air
- Programmable Logic Control System
- Ferrous Metal Removal

Materials Handled:

- Granulated Sugar
- Powdered Sugar
- Dextrose

Purchasing Rationale:

- Plant expansion for new product line
- Increase efficiency and capacity of bulk unloading



WORLD HEADQUARTERS

Shick Tube-Veyor Corporation
4346 Clary Blvd.
Kansas City, MO 64130 USA
Tel: (816) 861-7224
Fax: (816) 921-1901

ASIA PACIFIC

Shick Tube-Veyor Asia Pacific Pte Ltd
Blk 5000 Ang Mo Kio Ave 5 #05-07
Techplace II
Singapore 569870
Tel: (65) 4824600
Fax: (65) 4818255

www.shicktube.com