

Process and refrigeration system design including load calculations, equipment selection, detailed refrigeration systems design/engineering, industrial ventilation, computer controls, energy rebate incentives, PSM, RMP, operator training, mechanical integrity and field inspection. More than 25 years experience in the industrial refrigeration design/build arena and as design engineer of large ammonia and freon industrial refrigeration systems, test facilities and blast freezers.



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AFFILIATIONS

Registered Professional Engineer

ASHRAE • RETA

IIAR • NSPE

NFPA • ICBO

SERVICES

Engineering
Facility Construction
Operator Training
Industrial Ventilation
Computer Controls
Mechanical Integrity Inspections
Process Safety Management
Risk Management Planning



INDUSTRIES SERVED

Food Processing
Food Distribution
Petrochemical
Beverage
Pharmaceutical



PROJECTS

General Mills • Wellston, OH
New pizza roll line; replacement of evaporative condensers and air handling units; chiller replacement and upgrades; spiral freezer upgrades

General Mills - Yoplaït • Reed City, MI
Evaluation of refrigeration loads and equipment operation

Sweet Street Desserts, Inc. • Reading, PA
Bakery process 1800 TR refrigeration system

General Mills • Swedesboro, NJ
Conduction of mechanical integrity and assistance in development of mechanical integrity inspection of R-22 system

Wegmans Food Markets, Inc. • Schuylkill, PA
800,000 SF full line distribution center; 1500 TR refrigeration system

Pepperidge Farm • Downers Grove, IL; Aiken, SC; Denver, PA; Downingtown, PA; Lakeland, FL
Bakery refrigeration systems to 2500 TR using Ammonia or R-507

Sara Lee Bakery • multiple locations
150,000 to 600,000 SF bakery additions and greenfield facilities; design of 1800 TR Ammonia refrigeration system; Freon to ammonia conversions; glycol mixer refrigeration systems using ammonia and glycol; mechanical Integrity reviews

Molson Brewery • Etobicoke, Ontario; Montreal, Quebec
Review of installation of ammonia refrigeration systems

Wawa Dairy • Wawa, PA
Cooling of bottle receiving room, docks and bottled milk and juice products; refrigeration system design, operator training, operation procedures; addition to ammonia/glycol system for cooling product

**Institution Food House
Florence, SC**
320,000 SF food service distribution center

Knouse Foods • Orrtanna, PA
Cooling of blow molding equipment and bottled product



Tropicana • Bradenton, FL
Completed relief valve calculations for facility

Gensyme • Cambridge, MA
Carousel cooler using R-507

Roche • Florence, SC
Freon to ammonia conversion central refrigeration systems using Syltherm

**U.S. Department of Defense
Pearl Harbor, HI**
80,000 SF freezer, cooler and distribution facility

Sam Addams (formerly Diageo) • Allentown, PA
Product cooling using glycol/ammonia system; PSM and RMP, operator training, safety review

Dole Fresh Vegetables, Inc. • CA
Field heat cooling systems

McCain's • multiple locations worldwide
Design of refrigeration systems for freezing french fries

Mission Foods • Dallas, TX
200,000 SF bakery facility using refrigeration to provide air-cooling of product in tunnels

EXCEL • Hazelton, PA
PSM assistance and design review of Ammonia refrigeration system

Turkey Hill Dairy • Lancaster, PA
Conducted Mechanical Integrity Review of refrigeration system installation

OSHA • Philadelphia, PA
Refrigeration systems consulting

Pepsi • Pennsauken, NJ; Raleigh, NC; Brooklyn, NY
Design of carbo-cooler refrigeration expansions using ammonia; mechanical integrity review of refrigeration systems, operator training