

FOOD & BEVERAGE MANUFACTURING

TAI is a full-service engineering firm that has served the **Food & Beverage Manufacturing Industries** with Engineering, Management and Technical Services since it's establishment in 1989. Our extensive technical expertise has enabled our clients to design, build, operate and maintain world class facilities over the last 30 years.

TAI is headquartered in Baltimore, MD and has offices in Dallas, TX and Wilmington, DE.



ENGINEERING

- Process & Mechanical
- Electrical, Instrumentation & Controls
- Automation & Systems Integration
- Packaging & Material Handling
- Structural & Civil
- Buildings & Facilities (MEP)



MANAGEMENT

- Project Management
- Construction Management
- Procurement Services
- Design-Build & Turnkey Solutions
- Staff Augmentation
- Process Safety Management



TECHNICAL SERVICES

- I&C Field Services
- 3D Scanning
- Inspection & Test
- Site Safety
- Mechanical, Electrical and Steel Construction

SERVICES

- * Preliminary & Detailed Engineering
- * Scope Development
- * Construction Cost Estimation
- * Master Planning
- * Project Economic Analysis
- * Equipment Sizing & Selection
- * Start-Up
- * Commissioning
- * Facility Documentation
- * Peer Review
- * Calibration Program Development
- * Electronic Calibration Lab Services

CERTIFICATIONS

ISO / IEC 17025:2005 (International)
ANSI / NCSL Z540-1-1994 (National)
Certification #: AC-2055

CONTACT

TAI Engineering
600 Red Brook Boulevard
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NOTABLE PROJECTS

■ Spice Manufacturing Plant



TAI provided multi-discipline engineering, design, and construction services to complete the construction documentation and bid packages for a new spice manufacturing plant. TAI also provided electrical and mechanical services, construction management services, project management, 3D Scanning, Construction Bid Documentation, and Construction Administration Services.

CLIENT: FUCHS NORTH AMERICA
MARKET: Food & Beverage Manufacturing
LOCATION: Hampstead, MD
SERVICES:

- Electrical & Mechanical
- Construction & Project Management
- Construction Bid Documentation
- Construction Administration
- 3D Scanning

COMPLETED: 2016
VALUE CLASS: \$5MM

■ New Bottling Equipment & Upgraded Production



TAI supported Diageo from concept to start-up to upgrade Diageo's key production areas and their three new high speed bottling lines; all which required a large-scale bulk storage area.

TAI provided engineering, design, procurement, construction management and commissioning. The project scope included: new receiving and bulk storage capability, new concrete containment, continuous in-line blending, automation of existing batch processing, and control system replacement.

CLIENT: DIAGEO
MARKET: Food & Beverage Manufacturing
LOCATION: Baltimore, MD
SERVICES:

- Engineering & Design
- Procurement
- Construction Management
- Commissioning

COMPLETED: 2010
VALUE CLASS: \$5-10MM

■ New Process & Packaging Line Design with Field Fabricated Refrigerated Hardening Tunnel



TAI provided design and architectural building improvements, utility modifications, floor plans for new equipment, equipment rigging, evaluating costs associated with purchasing and installing equipment, and creating a schedule for implementation. A construction bid package, containing design calculations, drawings, and specifications were also prepared for each area. The TAI project team participated in contractor walk-throughs and provided the written

documentation to answer technical questions throughout the bid and construction phases. Additionally, TAI served as the Construction Manager and was required to acquire all necessary construction permits.

CLIENT: NESTLE DREYERS ICE CREAM
MARKET: Food & Beverage Manufacturing
LOCATION: Laurel, MD
SERVICES:

- Construction Bid Package
- Construction Management & Documentation

COMPLETED: 2010
VALUE CLASS: <\$1MM

■ Flour Handling Improvements



TAI worked with Hershey to complete the engineering assessment, preliminary engineering and cost estimations for modifications of an existing flour unloaded, storage and supply operations. These multi-plant assessments also including upgrading the present flour handling systems. TAI's work included project definition, and evaluating several options for solving flour dust collection, leakage, and storage silo pressurization problems.

TAI's equipment design, implementation plans, and operational modifications addressed safety and operational concerns related to exposure, contamination and over pressurization in the operating and storage environments.

CLIENT: THE HERSHEY COMPANY
MARKET: Food & Beverage Manufacturing
LOCATION: Hazleton, PA
SERVICES:

- Project Management
- Engineering & Design
- Cost Estimation
- Project Definition and Evaluation

COMPLETED: 2017
VALUE CLASS: \$1MM+