

## NATURAL GAS & LNG

TAI has an enviable track record providing Engineering, Management and Technical Services to the **Natural Gas & LNG Industry**. Our extensive technical expertise has enabled our clients to operate and maintain world-class facilities since 1989. Skills honed in a multitude of specialty engineering segments are cross referenced with regulatory know-how to create innovative solutions. TAI strives to be your partner for the life-cycle of the facility.

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



### ENGINEERING

- Facilities Engineering
- Process & Mechanical
- Structural
- Electrical
- Automation & Systems Integration



### MANAGEMENT

- Project Management
- Construction Management
- Procurement Services
- Design-Build & Turnkey Solutions
- On-Site Staffing & Augmentation
- Industrial Risk (HSE)



### TECHNICAL SERVICES

- Instrumentation & Controls
- NDE/NDT Inspection & Test
- Site Safety
- 3D Scanning
- Mechanical Construction
- Electrical Construction

### SERVICES

- \* As-Built Plant Documentation
- \* Bid and Construction Management
- \* Conceptual Design
- \* Construction Cost Estimation
- \* Construction Management
- \* Dehydrators
- \* Detailed Multidisciplinary Design
- \* Equipment Sizing & Selection
- \* Facility Modifications & Upgrades
- \* Feasibility Studies
- \* Gas Compression Facility Design
- \* Gathering, Transmission & Storage
- \* Master Planning
- \* Metering & Instrumentation
- \* OSHA Safe Working Practices
- \* Peer Review
- \* Pipeline Connection, CWI Inspections
- \* Preliminary & Detailed Engineering
- \* Project Economic Analysis
- \* Project Management \* Scope Development
- \* Start-Up / Commissioning
- \* System Integration \* Turn-Key Integration
- \* Vaporization & Vapor Handling

#### CONTACT

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Toll Free: (844) 261-1080

## ■ Bridgeville & Delaware City Compression Stations



ESNG needed to invest in more capacity to meet demand so they needed engineering to design and build two new compressor stations in Bridgeville and Delaware City. Specifically, (3) CAT 3606 / Ariel 4 Compressor Packages.

TAI provided project management, mechanical engineering, process engineering, architectural / structural engineering, electrical engineering, and automation & control engineering as well as design services. TAI managed relationships with other subcontractors which included geotechnical, surveying, civil (related to erosion & sediment control) and utility location services for both compressor stations.

**CLIENT:** EASTERN SHORE NATURAL GAS (ESNG)  
**MARKET:** Natural Gas & LNG  
**LOCATION:** Bridgeville and Delaware City, DE  
**SERVICES:**

- Detailed Engineering Package
- Construction & Support Documents
- Project Management
- Engineering: Mechanical, Process, Architectural, Structural, Electrical

**COMPLETED:** 2015  
**VALUE CLASS:** \$18MM

## ■ Davis Compressor Station Electrical Upgrade



TAI provided a detailed engineering package for bid and construction for the addition of a second natural gas compressor and a new electrical service with emergency back-up power for this Dominion Compressor Station. The scope of the electrical project included

specification of a new electrical building, new Motor Control Center and Automatic Transfer Switch as well as detailed electrical drawings.

**CLIENT:** DOMINION TRANSMISSION  
**MARKET:** Natural Gas & LNG  
**LOCATION:** Clarksburg, WV  
**SERVICES:**

- Detailed Engineering Package
- Bid Documents

**COMPLETED:** 2011  
**VALUE CLASS:** \$4MM

## ■ Cove Point Gas Terminal



Dominion aimed to further develop the infrastructure to increase the ship unloading capacity from 155,000 cubic meters of LNG to 267,000 cubic meters of LNG. TAI was brought on to reinforce the offshore platform to accomplish this

goal. Dominion Cove Point LNG, LP contracted directly with TAI to provide structural engineering related services to upgrade the offshore platform through the installation of four (4) new mooring dolphins at each berth, reinforcement of four (4) existing breasting dolphins at each berth and the installation of seven (7) new quick-release mooring hooks for each berth. In addition, new automated gangways, approach display boards, hook release control panels, docking aid systems, load management systems, central monitoring systems, and area walkway lighting will be included in the offshore unloading pier upgrade. TAI also provided on-site mechanical, process and electrical controls engineering personnel that were directed by Dominion Engineering Management as well as senior level plant operators.

**CLIENT:** DOMINION TRANSMISSION  
**MARKET:** Natural Gas & LNG  
**LOCATION:** Lusby, MD  
**SERVICES:**

- Structural Engineering
- Construction Oversight
- Onsite Support
- Cost Estimating/Scheduling
- Mechanical & Process Engineering
- Electrical Controls Engineering

**COMPLETED:** 2010  
**VALUE CLASS:** \$50,000

