

AT&V

A World of Products Serving the World

Turnkey Liquid Terminals



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Introduction to AT&V

American Tank & Vessel, Inc's. (AT&V) AT&V has been involved in designing and constructing tanks and terminals around the world from as early as the mid 50's, working on projects from crude to cryogenic, one tank to 50, from China to Jamaica.

AT&V provides a unique service, with the in-house ability to deliver a single tank or an entire terminal. Combined with patented technology and proprietary systems, AT&V can offer the most advanced applications for your tank or terminal needs around the world.

In-house capacity sets AT&V apart. With the in-house design, systems, fabrication and construction services, the quality, safety, and schedule of your project is in AT&V's control. To learn more about AT&V's in-house capacity, visit our website at www.at-v.com.

AT&V's in-house services can help support project financing, sourcing of terminal partners, EPC, commissioning and even operation. With experience in Asia, North America, South America, Central America and Africa, AT&V can deliver world class performance at a great economic value.



AT&V is your one-source contact for design, procurement and construction (EPC) of terminal projects around the world.

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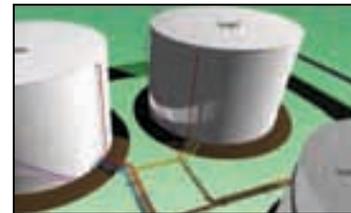
Design Systems

AT&V supports disciplines for all aspects of tank and vessel design, construction, operation, erection and service.

AT&V's in-house design team supports proprietary technology to improve welding systems, NDE, safety, tank emissions and a variety of other issues for tanks and terminals.

AT&V's design support for turnkey terminals includes siting, permits, layouts, environmental, electrical/instrumentation, civil, mechanical, process, automation, inbound/outbound applications and miscellaneous disciplines to customize your applications. AT&V's patented and proprietary technologies can improve the performance and overall value of your terminal applications. Whether the application requires the storage of nuclear waste or liquid oxygen, AT&V's design team has the experience.

AT&V's in-house design group is licensed in many states in the U.S. and has applied international standards on a variety of projects. In addition, AT&V's designers have helped build standards such as LNG standards for Brazil, floating roof standards for Malaysia, as well as emission reduction standards for Africa.



The AT&V team will bring a world of experience to meet your objectives in an efficient, timely and professional manner, providing the most advanced technologies in the industry.

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Global Procurement Services

AT&V's procurement of tank components and terminal facilities, sources materials in the United States, as well as globally. AT&V's experience associated with procurement has developed sources in Asia, North America, South America, Europe and Africa.

Procurement staff standards and procedures realize performance far above project requirements. Relationships with vendors have resulted in preferential rates and relationships superior to our competitors. In-house systems and procedures associated with procurement tie design and construction to weekly team meetings with the procurement group. Cost control systems help ensure that all budgets are met with the required materials, documentation and schedules. In-house documentation associated with materials and procurement items are electronically recorded for traceability and electronically generated for documentation to customers at completion of the project. Spare parts, replacement parts and other issues are facilitated by AT&V's procurement department for the life of your facility.

AT&V has entered into domestic and global agreements with select vendors benefiting AT&V's customers with preferential pricing, expanded services and enhanced schedules.



AT&V maintains the best schedules in the industry – specializing in critical-schedule needs and fast completions.

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In-House Fabrication

AT&V's in-house fabrication capabilities continually exceeds customer specifications and capacity requirements. Fabrication performance associated with quality and schedules have consistently outperformed AT&V's competitors in multiple markets.

AT&V supports fabrication in (3) locations in the U.S., as well as Canada, South America, Central America, Asia and West Africa.

AT&V's fabrication facilities in the U.S. extend over 200 acres and approach a half-million square feet of fabrication under hook. AT&V's U.S. facilities support America's largest press at over 8,000 tons, plate rolls up to 20' X 4 ½"; 50' diameter turning ability, in-house heat treating, as well as automated welding systems and traditional equipment. For additional information on AT&V's U.S. facilities, please visit the website at www.at-v.com.

In the U.S. AT&V's fabrication facilities are supported with transportation by water, rail, and in-house trucking. Material inventories, backup equipment and excess shop capacity give AT&V the ability to ensure fabrication schedules are always met.



Gulf Coast Water Front Fabrication



80 Acre Fabrication Plant



Houston Export Fabrication Yard



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Site Construction Experience

AT&V's experience associated with construction spans the use of labor from Sri Lanka, Pakistan, the Philippines, Brazil, Trinidad, Jamaica, Canada, United States, the Caribbean and West Africa. AT&V's management and systems have a proven track record of leading the world standards for safety, quality, schedules and productivity.

AT&V's construction management represents the best talent in the world, coupled with AT&V's philosophy of empowerment. Through proper education, tooling and support AT&V empowers their management team to set new standards for the industry.

AT&V's varied experience from rainforest to deserts, from high density populations to remote islands, proves that the AT&V formula works. AT&V has established procedures and a track record that has yielded consistent high performance. AT&V's approach to your project will identify the parameters that require special attention to ensure that the appropriate adjustments are incorporated.

AT&V's construction staff, technology, empowerment, equipment and corporate support make the difference no matter what the location.



AT&V's waterfront facility in Mosspoint, MS, has the ability to have inbound truck, rail and water, as well as outbound by truck, rail and water.

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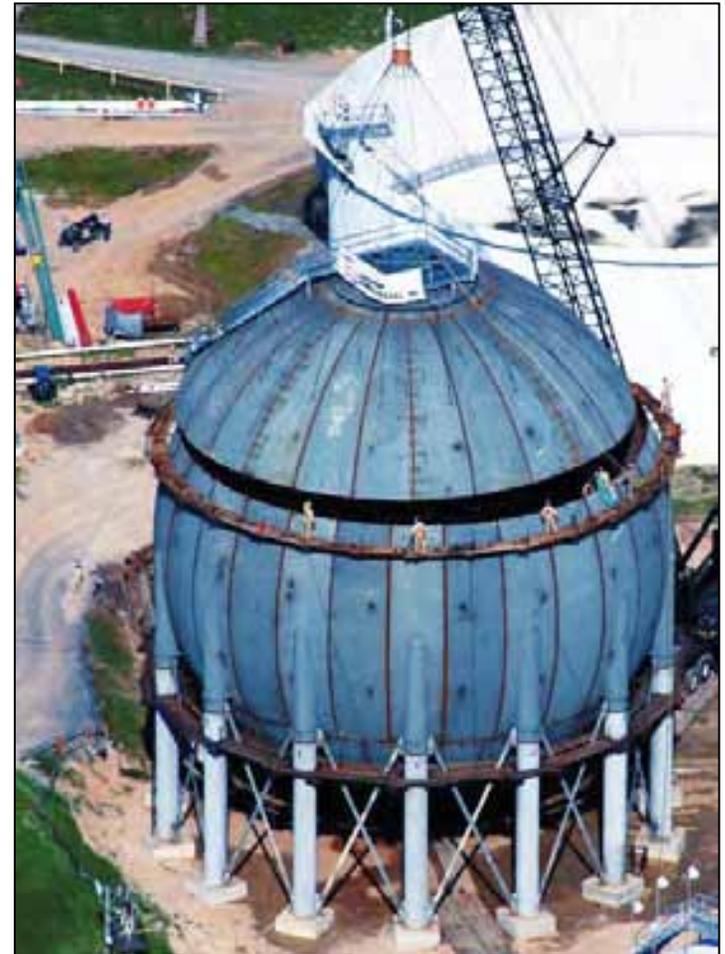


The AT&V Advantage

During the first 10 years in AT&V's history, the focus was exclusively on the U.S. market. During these early years, AT&V pioneered a system for project risk mitigation through the development and careful implementation of a project reviewing process. This process resulted in a higher than industry average successful project execution, as measured by project completion schedules and above market profitability.

The company's **competitive advantage** is in the speed in which it erects tanks and other structures in the field. This is accomplished through raw material fabrication quality control processes, job site material delivery, and field crew tank erection training and process control. **AT&V's technology and know-how** was developed in the U.S. market, the most competitive and **performance**-demanding tank and terminal market in the world.

During the first 15 years of AT&V's international expansion, projects were brought to AT&V on an unsolicited basis, primarily from its U.S. customers. During this time, the company took its U.S. developed technology and know-how and fine tuned it for execution in the non-U.S. market. The company found that the project risk mitigation processes developed for the U.S. market became even more critical in the non-U.S. market. AT&V proves this process year after year, in domestic and foreign markets.



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U.S. Standards to World Markets

Beginning 5 years ago, the company began to aggressively pursue international work. Since the company's **international expansion**, the labor pool and construction material sourcing is not limited to the U.S. By example **AT&V has access to field labor in the Caribbean, Central and South America, Africa, the Far East and Canada.** In addition the company has developed an extensive non-U.S. fabrication supplier network allowing the company to source both labor and material from the world's most efficient markets.

While AT&V's international projects are directed from the U.S., the same core competitive advantages are still emphasized by our local management. As an example, over the last 3 years in Ghana, AT&V incurred over 550,000 field man-hours on projects, with only **1 day in lost time incidents.** This is proof of the AT&V system at work.



Over 50 tanks in the picture above have been built by and/or reconstructed by AT&V.

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U.S. and Non-U.S. Project Overview

AT&V has executed and completed over 2,500 projects in the United States, as well as in many foreign countries. Projects range in size from a single tank to an entire terminal or pipeline system.

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Below and on the following pages is a short list of some completed projects reflecting AT&V's comprehensive capabilities.



- EPC for special chemical terminal – (58) various field erected tanks – carbon, stainless, IFR's and pressurized. – New Orleans, LA, USA



- EPC for Clean Products Terminal for 90,000 Cubic Meters of storage, with in-bound pipeline system and truck racks – Tema, Ghana.



- EPC for (10) – API-650 tanks from 40' diameter to 110' diameter – Multan, Pakistan

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U.S. and Non-U.S. Project Overview



- Design Construction of (30) – 100,000 barrel API-650 tanks with internal floating roofs and painting – Houston, TX USA
- Design, procurement, and fabrication of ASME Section VIII Div. II reactor, 28' x 260' tall – Santos, Brazil



- DPC for 110' tall API-620 propane refrigerated service tank, foundation, insulation – Equatorial Guinea, West Africa
- Design and Construction of (4) – 284' X 56' tall external floating roof tanks – Saudi Arabia

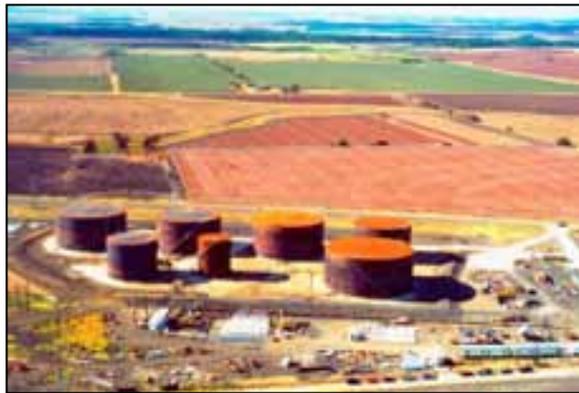


- DPC of 70,000 cubic meter terminal with fire systems, OWS, and MCC, with inbound and outbound pipeline systems – APD, Ghana.
- Design and construction of (1) – 770,000 barrel API-650 tank with internal floating roof – Tulsa, OK, USA

AT&V – your partner for safety, quality, price and delivery – provides new or repair services for tank, foundation, sub-grade, pipe runs, structural work, electrical and instrumentation, cathodic protection and leak detection.



U.S. and Non-U.S. Project Overview



- DPC of seven (7) tank terminal, 400,000 barrels with civil, mechanical, and paint – Dallas, TX, USA
- DPC of (2) – 233' diameter API-650 pressurized double bottom tanks for VCM storage – Corpus Christi, TX, USA



- Design, procurement, and fabrication of API-620 Q LNG tank with submerged pumps and process support – Paulina, Brazil
- Design and construction of (1) – 75' diameter ASME Section VIII Div. I sphere, PWHT – Freeport, TX, USA



- Design, procurement, fabrication and field erection of API-620 R LPG tank with valves, vents, instrumentation and process support – Chesapeake, VA, U.S.A.
- DPC for Jet Fuel including storage tanks and systems for U.S.A. Defense Department – Tonopah, NV, U.S.A.

The AT&V team will bring a world of experience to meet your objectives in an efficient, timely and professional manner.

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Financial and Analytical Support

AT&V can provide full financial and quantitative tools and analysis to solicit financing, as well as provide teaming arrangements for sourcing multiple types of capital.

Services include:

- **Project development costs and timelines**
- **Financing, including international, equity, and commercial debt sourcing**
- **Construction cost estimates**
- **Cashflow analysis for financing/construction**
- **Operating cost projections**



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Terminal Logistics Know-How

AT&V systems and employees support a great deal of experience associated with terminal logistics, operation and analysis. Initial siting to proper layout for rail, marine, pipeline and/or trucking AT&V can support all your terminal development needs. In addition the AT&V team can present options associated with customer's goals for liability management, life of structures and maintenance timelines. Our logistics and know-how support the following:

- **Site selection in multiple countries**
- **Market analysis for local, domestic and international**
- **Terminal operation philosophies**
- **Future expansion design considerations**
- **Expertise for truck, rail, pipeline and offshore loading/unloading systems**
- **Throughput maximization/optimization programs**
- **Identification and support of value added services**
- **Sourcing throughput**



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Throughput Integration

- Interface analysis for multiple throughputs
- Cost and schedules for throughput options
- Value added services
- Sourcing throughput demand
- Advanced custody transfer systems
- Integrated accounting systems
- Product mix optimization



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Design, Procurement and Construction (DPC)

- Assistance with permitting
- Liability management of targets
- Full in-house design capabilities
- Patented and award winning technology
- Self-performed major construction
- Industry leading schedule performance
- Exemplary worldwide safety record
- Service available for commissioning and operations



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Existing Facility Upgrades

- **Advanced automation and new system design**
- **Upgrading old control and inventory**
- **Integration of expansion works to existing systems**
- **Expansion of old systems for increased capacity of throughput**
- **Tank restoration and modernization services**
- **Facility review and optimization**
- **Environmental upgrades, compliance, and credits**

