



Construction Engineering

Company Overview

AG&P is a 118-year-old industrial infrastructure company with world-leading credentials across our three lines of business: Gas Logistics (LNG supply chain design, development and marketing), Modular Construction and FieldCOM (manpower services and site works). We have a long, established heritage of successfully serving blue-chip clients on some of the world's most demanding projects in the mining, utilities and oil and gas sectors.

Gas Logistics: AG&P delivers gas logistics solutions for new, growing markets through a unique and fully integrated platform with LNG engineering, technology, manufacturing, project management, local marketing, commercial and operational skills for LNG or natural gas delivery. Our innovative, customer-centric approach allows project owners the flexibility to choose the infrastructure they need according to the site and current demand. We simplify LNG logistics and make it affordable for our customers to switch energy sources.

Modular Construction: AG&P builds the world's infrastructure in Lego-like pieces in our highly controlled, world-class manufacturing facilities in the Philippines. We have a strong track record of providing award-winning modular construction solutions for LNG plants, refineries, petrochemical facilities, mining operations and utilities plants around the world. Our dense, high-value modules significantly improve project capex and schedule, while maintaining world-class quality and safety.

FieldCOM: AG&P's onsite construction team (Field Construction, Commissioning, Operations and Maintenance) provides clients with highly trained, experienced professionals and craftsmen who are deployed to project sites across the world. These dedicated teams of professionals take responsibility for functions at project sites from installation of AG&P's own modules and their subsequent commissioning, operation and maintenance (O&M) to full onsite construction.

AG&P's Construction Engineering Services

AG&P's construction engineering team specializes in engineering design calculation, preparation of detailed fabrication and erection drawings, preparation of lifting, weighing and load-out procedure and construction methodologies that will aid the modular construction and assembly of oil, gas and petrochemical facilities, offshore structures, power generation facilities, minerals and metal mining facilities and civil infrastructure projects.

With decades of experience from yard- and site-based environments, AG&P's in-house construction engineers bring hands-on expertise in drawing preparation, including as-built, in accordance with the project requirements and engineering detailing standards for civil, structural, architectural, piping, tank, vessel, electrical and instrumentation projects.



Using the latest technologies available, we are able to transform detailed design into fabrication and assembly drawings that consider all aspects of constructability, heavy-lift and installation, from the FEED/conceptual engineering phase to completion. Our teams also ensure standards, stresses, welding points and sea-fastenings are optimized for modularization, transport and end-use at the project site.

ENGINEERING SERVICES

Test pack (TP) preparation

- Marked-up piping and instrumentation diagram (P&ID)
- Piping isometrics
- Marked-up line classification lists
- TP information symbols
- Punch lists
- Approved checklists and forms

Lifting procedure

- Lifting arrangement drawing
- Rigging equipment
- Integrity check
- Center of gravity (COG) location

Weighing and load-out procedure

- Load cell location
- Rigging arrangement
- Self-propelled modular transporter (SPMT) arrangement
- COG location
- Transport stability calculation

Drawing preparation

- 3D modeling
- Detailing of erection and fabrication drawings

Construction methodology

- Fabrication and erection sequence in 3D presentation
- Fabrication and erection sequence in 3D animation



For more information on our construction engineering services, please contact Jaime Abarquez, VP Construction Engineering, at jaime.abarquez@agp.ph.

For more information, visit www.agp.ph

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