

A large-scale photograph of an industrial chemical or petrochemical plant at night. The scene is filled with tall distillation columns, complex piping, and storage tanks, all illuminated by numerous bright lights that create a starburst effect against the dark sky. The overall atmosphere is one of intense industrial activity.

CHEMICAL AND PETROCHEMICAL SERVICES

Engineering services to improve timelines and increase efficiency





HGA provides comprehensive engineering and EPCM services for the petroleum, petrochemical and chemical industries. Building upon prior experience, our team of engineers, construction experts and project managers applies best practice to create functional and flexible solutions to improve the facilities of tomorrow. For over 20 years, we have successfully executed grass-roots facilities, plant expansions, revamps, debottlenecking, feasibility studies, and provide in-plant contract management services. Our seasoned experts understand the ever-changing regulatory and design requirements and ensure a safe and reliable solution for your critical business challenge. Our teams work closely with our clients from conception to start-up of each project to ensure that their specific objectives are met within budget and on schedule.



We can bring expertise to the entire life cycle of the petrochemical industry, from engineering and technology to consultancy, construction management, and maintenance.

We offer a complete range of services:

- Detailed engineering design
- Front-end design
- Conceptual design
- Environmental services
- Process studies
- Feasibility studies
- Project management
- Procurement
- Construction management
- Project consultancy
- Commissioning and start-up services
- Plant operations
- On-site staffing services

Valuable project consultancy

Our teams have in-depth experience in the operation of chemical and petrochemical plants and have completed hundreds of projects, including technical evaluations for grassroots plants, plant expansions, and retrofits. Our consultancy team focuses on your challenges and drivers when developing the optimum processing facilities for our clients. To develop the optimal solution, our experienced project consultants offer feasibility studies and concept selections that are critical factors in determining project scope and valuable input for the investment decision. Our technical advisory experience increases your chances of success and the reliable operation of your plant.

HGA petrochemical consulting can help:

- Regulatory permitting assistance
- Environmental studies and systems
- Site evaluation
- Audits and annual submittals
- Water and wastewater permitting



Engineering design-to-delivery capability

During the project conceptual design phase, our engineering experts collaborate with your team to support pre-FEED design and conceptual activities. In addition to front-end engineering design, we perform evaluation studies, and detailed engineering—our engineering teams utilize the latest technology in computer-aided drafting and design/analysis programs to generate scenarios and optimize your facility design. These tools, combined with our extensive design and procedures, greatly enhance the optimum layout of your facility.

Our experience covers:

- Chemical process
- Mechanical piping
- Instrumentation
- Electrical
- Control systems integration
- Civil / structural
- Project management
- Project controls



Improving the quality of your asset

Our engineering and maintenance experience enable us to organize and minimize facility downtime and reduce maintenance costs. We take a consultative approach and specialize in dedicated project teams to overcome the challenges of comprehensive revamp packages and expansions. From inspection to execution services, our team works with you to improve processes, analyze mechanical integrity and perform plant assessments in live environments. HGA has the skills and experience to cover a wide range of revamping challenges, including remediation, shut-downs, upgrades, and expansions. In addition, we provide expert staffing resources for your specific business needs. Our core team of experienced specialists allows us to evaluate innovative solutions to boost production, improve operations and add new processes to existing plants.

OUR TRACK RECORD:

Albemarle

Pasadena, TX and Silver Peak, NV

A globally recognized specialty chemical company with leading positions in lithium, bromine and refining catalysts have just acquired a series of advanced or mature facilities in Pasadena, TX, Silver Peak, NV, and Kings Mountain, NC with established large processing facilities in both Chile and Australia. Albemarle has reached out to HGA because of the need for LIDAR and remote laser scanning, advanced re-validation on their process relief devices, in addition to their ongoing management concerns involving internal project and program tracking and controls. These proposals are all under review but is a function of HGA's superior management performance credentials.

Westlake Chemical

Lake Charles, LA

A client in Southwest Louisiana specializing in petrochemicals, polymers and fabricated building products needed to consider both a VistaTrak project management request to track their PRD, reliability and integrity systems, this has also led into advanced re-validation and mitigation assignments throughout multiple plant units. Collaborating closely with the client, HGA has performed pressure relief re-validation and mitigation (awaiting execution of the PRV re-validation and mitigation effort for various units, however, we are currently engaged in a VistaTrak platform application involving their Capital improvement program.

Kuraray

LaPorte, TX

Kuraray, a global leader in specialty chemicals, fibers, and resin materials, was having recurrent problems in their reliability and their mechanical integrity assessments regarding their pressure relief systems. They hired HGA to perform a multi-year integrity assignment for pressure relief devices including data collection, re-validation, mitigation and management of change conversions.

DOW/DuPont

Orange, TX

The world leader in agricultural, material science and specialty products hired HGA to a multi-year vertically integrated approach



to the assessment, data collection, revalidation of multiple process-controlled devices. HGA utilized internal methodologies that complement Dow/DuPont integrated platforms by collecting data on the entire systems with specific reference to regulatory, unique, redundancy, discontinued (4 categories – check with Paul) HGA has been successful in managing the relief systems process for two significantly complex clients that have resulted in a reliable program, which has increased efficiencies, transparencies and accountability especially during a difficult merger.

PPG

Westlake, LA

PPG needed to provide OSHA with complete and total relief systems documentation. However, they didn't have the expertise on site to do the job themselves. Because HGA had the necessary resources, they hired us to do the project. HGA has established benchmarks for mechanical integrity, internal processing, and mechanical re-alignment of various units throughout the plant.

Indorama Ventures, LLC

Westlake, LA

HGA has provided localized service for development reviews; regulatory and code compliance (permitting) on land use; building; and skilled installations. General interface with various governmental agencies regarding environmental, transportation, and open-space issues.



About us

Over the past two decades, HGA has built an unrivaled culture by listening to our clients, leveraging our experience and delivering on our commitments to an extensive portfolio of customers throughout the chemical industry. We seek long-term partnerships with our clients. Today, we serve multi-national corporations and many private industrial companies and have a proven track record managing, cost-driven mega-projects. Everything we do is grounded on our core values of building long-term customer relationships by listening to our clients. Our combination of resources enables us to deliver high-quality engineering designs and deliver objective information to increase the efficiency of your petrochemical assets and maximize your existing asset.

For more information on how HGA can help you with your next petrochemical project, contact your HGA representative, email information@hga-llc.com or visit www.hga-llc.com.



HGA

603 Reynolds Drive

Ruston, Louisiana 71270

Phone: 866. 255. 6825

information@hga-llc.com

www.hga-llc.com



Ruston
Baton Rouge
New Orleans
Lake Charles
Shreveport
Houston
Midland
Fort Worth
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New York