

## Services to the Natural Gas Industry

THA Engineering Solutions provides a variety of engineering design and drafting services for the full range of natural gas facilities including pipeline, compression and measurement. THA Engineering project management will utilize both in-house personnel as well as outside resources as special needs arise.

### Construction Management

THA Engineering Solutions provides construction management services for all types of natural gas installations including project management, on-site inspection services and on-site “as-built” documentation.

- ❑ Provide general oversight of construction – to be the eyes and ears for the Owner
- ❑ Improve communications with Contractor to assure the project stays on-time and under-budget
- ❑ Be Owner’s Representative on-site to facilitate timely decision making to avoid “decision delays”
- ❑ Evaluate Requests for Payment and Change Orders

### MAOP Determination

THA Engineering Solutions provides MAOP determination of facilities using automated programs for evaluation of facilities including pipeline, measurement stations, fabricated assemblies and compressor stations. THA also provides Uprate Studies of facilities.



### Risk Assessment Investigations

THA Engineering Solutions provides field inspection of facilities, including inspection for a wide range of risks including design, relief valve calculation, proper relief valve usage and placement, external corrosion, fugitive emissions, inadequate nut and bolt engagement, and electrical and instrument NEC violations. THA maintains a list of over 150 items that may be selected for inspection. After inspection, each identified potential risk is tagged and a summary is given to the client for remediation.



### Integrity Management

THA Engineering Solutions prepares brief two to three page segment review documents for HCA’s, an automated process that evaluates over 75 unique parameters for each HCA. This has proven to be a very valuable tool for companies in emergency situations.

### Judicial Determination

THA Engineering Solutions reviews facilities and makes determinations of proper oversight by state and federal agencies. THA also provides the requirements and necessary documents as required by each entity. The facilities include storage fields, production and gathering, pipeline, compressor stations, and measurement facilities.

### As-Built Documentation

THA Engineering Solutions provides “as-built” documentation for any type of project, including on-site documentation during construction.

### Publish Engineering Manuals

THA Engineering Solutions edits, formats and publishes Engineering manuals, including engineering design manuals and O&M or Policy and Procedure Manuals in hardcopy and portable document format (PDF). THA also publishes manuals on CD-ROM, in fully searchable and linked Acrobat format for maximum ease in navigating on-screen.