

## 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.

## Integrity Management

THA Engineering Solutions provides:

- MAOP Determination Studies
- Risk Assessment Investigations
- Judicial Determination
- Integrity Management / HCA's
- Special Permits Support



## MAOP Determination

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



## Risk Assessment Investigations

THA can provide 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.

## 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.

## 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.

## Special Permits

THA can provide support to clients seeking to obtain, commission and operate pipelines under Special Permit. This includes both class location Special Permits as well as the PHMSA 80% SMYS Special Permits.