



## What are your start up and commissioning goals?

No matter if your plant is stationary, on a platform or mounted to a barge, you have goals that you want the commissioning team to achieve. With over thirty years in the energy industry, TTS has managed or served in leadership roles in many startups totaling 30,000,000+ HP. In all that time and field experience, we have accumulated a vast array of lessons-learned and best practices that positions TTS as a trusted provider of commissioning services.

We offer a broad range of front-end and on-site services for a new facility start-up, unit relocation or station upgrades, TTS provides the expertise and equipment needed to commission your equipment. Our engineers provide personnel with the experience needed to start and commission your generator or compressor controls, gas turbine control systems, station BOP, as well as auxiliary systems.

Our start-up commissioning services can help reduce equipment failure and increase the efficiency of your plant operations. This includes the reduction of any potential outages due to faulty design or installation, thus offering you the advantage of having experienced start-up engineers coordinating and calibrating your equipment.



Our startup and commissioning services typically include activities such as:

- Mobilize a complete startup staff consisting of discipline leads, start up engineers, LOTO administrator, turnover package coordinator and startup scheduler
- Provide fuel lab testing
- Provide instrumentation calibration
- Provide base line equipment vibration analysis records
- Provide on-the-job training of plant personnel

## Management Scope

- Provide consulting services for contract management
- Provide an objective risk analysis
- Formal review of P&ID & engineering packages
- Write detailed field commissioning procedures specific to the project
- Write field commissioning test guidelines
- Customize a commissioning manual for the site
- Produce a detailed commissioning schedule for the gas turbine and ancillary equipment
- Provide a list of parts and maintenance procedures
- Manage the system safety program including lockout and tagout
- Manage subcontractors to meet project goals and milestones
- Manage the commissioning and startup budget
- Manage construction activities to meet project milestones
- Manage engineering issues related to the gas turbine
- Develop, administer and track the site punch-list
- Coordinate third party testing and performance testing

This is how your goals are met.

