



I have been directly involved in the power industry for over 30 years with experience across the United States as well as numerous international locations. I have worked with several of the largest domestic and international construction and operating companies to bring new electrical power to communities with the industry's latest technology. Working primarily on the construction and commissioning of new facilities, I have been on the leading edge of the continuously refined use of different types of fuel including solid fuel (coal, refuse and biomass), liquid fuel (fuel oil, naphtha and ethane), gas (LNG, LPG and natural gas) and Geothermal. The durations and diversity of my previous opportunities have contributed to a wide variety of experiences, qualifying us to perform or provide oversight for the following crucial facility construction / operation roles.

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Support Services

- Commissioning
- Startup
- Testing
- EH&S
- Compliance
- Facility Management
- Operation
- Maintenance
- Training

Facility Commissioning:

During the construction of a new facility, coordinating the transition from system / major component construction to normal operation is critical. We will lead the development of programs to ensure a smooth and safe transition. The following are some examples:

- Schedule review and evaluation
- Punchlist - identifying system defects and deficiencies
- Turn over documentation - system / component installation information
- Safety programs - Safe Work Permits, Lockout / Tagout,
- System flush procedures
- System Operating procedure <http://www.sierrapowerconsulting.com>
- Preventative Maintenance Scheduling

Facility Operation & Optimization:

Elevating the awareness of the personnel operating / maintaining the facility with standardized expectations will develop more of a proactive versus reactive approach to maintaining overall facility efficiency. Our firm offers the following to provide oversight to monitor / evaluate optimization of facility operations:

- Evaluate start-up and shutdown operating procedures
- Evaluate start-up and shutdown performance data
- Perform on-site witness of start-up and shutdown practices, walk-down of systems and plant components, data trend review for optimization
- Compare start-up and shutdown curves (OEM vs. Actual)



Facility Outage Planning:

It is critical to properly define the scope and duration of a planned facility outage. Our firm will assist in developing an outage plan which will optimize the following:

- Outage duration
- Available spares
- Vendor support
- Craft support
- Specialty work (machining parts, code welders, etc.)
- Recertification of pressure parts or vessels
- Inhouse resource and equipment stop / start scheduling
- Utility / Agency notifications

Facility Operation Training:

Equal to sound facility procedures is personnel training on the procedures. All employees will benefit from facility / system training whether it is initial training to new employee or refresher information to an employee who has been present for a longer period. We will work with your personnel to ensure that initial and refresher training programs are established and maintained with the following:

- Tracking program
- Periodic review / update
- Implementation of lessons learned