

SYSTEM AUDIT AND ANALYSIS

SYSTEM AUDIT AND ANALYSIS INCLUDES...

1. *Equipment and Substation Audit*
2. *Documentation of Equipment and System Operating Conditions*
3. *Updating One Line Diagrams*
4. *Load and Harmonic Audit*
5. *Power Factor and Harmonic Analysis*
6. *Short Circuit, Coordination, and Arc Flash Analysis*
7. *Development of a Plan With Specific Recommendations*

FOR INDUSTRIAL PLANTS OVER 20 YEARS OLD, OFTEN...

- The system was designed to standards and codes that may be out of date.
- There are many different types of equipment.
- There is equipment from many different manufacturers.
- System and equipment documentation is either incomplete or nonexistent.
- One-line diagrams are either badly out-of-date or nonexistent.
- Less reliable analog trip devices are in use instead of modern static trip devices.
- Consideration is given to replacing aging switchgear.
- Equipment short circuit ratings may be inadequate.
- Equipment maintenance is lacking.
- When a breaker trips or a process misoperates, it is difficult to identify the source of the problem.

Develop a **“PLAN”** so that steps can be taken to improve system efficiency and reliability. Begin with a **“SYSTEM AUDIT AND ANALYSIS”** done by the experienced staff at *Qual-Tech Engineers, Inc.*

OLDER PLANTS ARE A CHALLENGE....

....THEY ARE OUR **“SPECIALTY”** AT QUAL-TECH !!!