



Wilson-Mohr

I&C Scope Definition

Projects...Design to Operation

Do You Need To...

- Identify base line equipment health and control capabilities?
- Identify the cost of risk reduction?
- Increase efficiencies?
- Define project specifications?
- Develop a cost basis for future upgrades?



Then ...

Let Wilson-Mohr conduct an engineering study that includes

- Survey of existing controls and equipment
- Comparative analysis with applicable standards
- **Scope Definition** identifying the project requirements to complete the desired system
- Budgetary or firm cost estimates based on the **Scope Definition**



Leading To ...

- An execution plan that will result with your project being
- On Time – The engineering study will include engineering, delivery, installation and commissioning schedules
- On Spec – The engineering study will incorporate project specifications
- On Budget – The engineering study will include an estimate to complete the defined scope



CUSTOM ENGINEERING STUDIES

Wilson-Mohr Experience

Wilson-Mohr, Inc. has been providing instrument systems, process control & safety systems and custom engineering studies to the oil & gas, refining and petrochemical industries since 1965. Our experienced staff can engineer solutions to address the most demanding controls problems present today.

Sample Cost Estimate

Engineering Study

- Health and functionality checks of existing equipment
- Data analysis against applicable standards and operational objectives
- Results give you compliance, efficiency, safety, and reliability information for future upgrades

Customized Reports

An engineering study will help you identify the health and functionality of existing equipment and controls. An analysis of this data with applicable standards and operational objectives will give you the information needed to plan for future upgrades, comply with insurance, state, or corporate requirements, and increase efficiency, safety and reliability of any fired process.

Data Capture Requirements

- Compiled on site by Wilson-Mohr personnel
- Compiled by client personnel based on supplied questionnaires, checklists, and instructions
- Data requirements include P&ID's, mechanical flow diagrams, electrical and Boolean logic drawings, PLC programs or printouts, SAMA, ISA, or block diagram control strategies, physical examination of equipment, plant personnel interviews

What's Next?

Wilson-Mohr can also provide detailed engineering services from concept to bid ready specifications including turn key projects. Services include:

Compliance

- Our knowledge of the industry will benefit clients in identifying applicable code and standards requirements used as guidelines for the project. These may include:
 - National Fire Protection Association (NFPA)
 - Instrument Society of America (ISA) S-84
 - Insurance regulations, corporate practices
 - Country, state and local codes

- Project and instrument specifications
- P&ID, I/O list, and control strategy development
- Project management & procurement
- I&E construction supervision
- Control system integration and fuel skid fabrication
- Factory and site acceptance testing
- Start-up and commissioning support