

Third Party Subject Matter Experts (SME's)

The Father of Scientific Management

Frederick Winslow Taylor (March 20, 1856 – March 21, 1915) was an [American mechanical engineer](#) who sought to improve [industrial efficiency](#)



“In the past the man has been first; in the future the system must be first... The first object of any good system must be that of developing first class men.”

Our REZOURCES LLC Team Network of Recommended Subject Matter Experts have personally supported either Scott Zinkham, Michael Regan, and/or James Donohue in complex specialized project tasks. Their diligent support efforts and expertise have resulted in the highest rated implemented major projects for Nuclear Utilities and are available for part time or full time project assistance in the following areas:

Engineering Design Package Development:

Technical Oversight, Review, Ghost Preparation

Independent Review at Initiation, 30%, 70%, and 100% Design

50.59 Applicability, Screening, Evaluations

Design Change Regulatory and Design Bases Review

Specification Preparation and Review

AUTOCAD Drawing Details and Solid Design Modeling

Procurement:

Technical Specification Development

Required Receipt Inspection Documentation Reviews and/ or Preparation

Procurement Change Package Development

Vendor Surveillance

Factory Acceptance Testing

Civil/Structural:

Safety Related, Non-Safety Related, and Commercial Piping and Piping Components Code Design, Piping and Component Stress Qualifications, Installation Specification, and Construction Oversight

Safety Related, Non-Safety Related, and Commercial Structural Building Design and Qualification, Piping and Equipment Support Design and Qualification,

Safety Related, Non-Safety Related, and Commercial Code Concrete Mixture, Concrete Reinforcement, Concrete Foundation, and Concrete Support Design

PE Certified Heavy Lifting and Rigging Plan Design

ANSYS Elastic- Plastic Pipe Break Analysis and Hinge Development.

Elastic-Plastic Pipe Whip Restraint Design

Seismic Design of New Build and Existing Plant SSC Qualifications

Mechanical and Mechanical Systems:

Fluid Systems Modelling Utilizing State of the art Fluid Software Programs including ANSYS CFD, RELAP, PROTOFLOW, and Others.

Pressure Relief Design per ASME Code – Relief Valve Sizing, Valve Outlet Piping Discharge Requirements and Relief Tank

Pressure Vessel and Pressure Vessel Nozzle Design and Qualification for Internal Pressure and External Loads.

P&ID System Configuration Design and System Failure Mode and Effects Analysis

System Valve Design, Replacement and Procurement Specification – AOVs, MOV's, Relief, Etc.

Pump Sizing, Pump Flow and Pressure Design Requirements

Piping, Pressure Vessel, and Piping Component ASME Time dependent Fatigue Analysis.

Plant System Performance Simulation

Electrical and Instrumentation Control:

Electrical System Design

Electrical System Analyses and Qualification

Electrical System Modifications

Instrumentation System Design and

Instrumentation System Analyses and Qualification

Instrumentation System Modifications

Instrument System Setpoints

Uncertainty Calculations

Digital Upgrades

System Controls and Monitoring

Digital Controller Programming

Plant Site Construction

Piping Installation

Structural Modifications

Construction Tests

Mechanical and Electrical System Pre-Operational Testing

Construction Walk-downs

Concrete Foundations

Vacuum Extraction of Site Soil for Buried Component Installation

Mechanical, Electrical/I&C, and Civil Construction Projects

PWR and BWR OPERATIONS

Staff Augmentation SRO's

Staff Augmentation RO's

Staff Augmentation Shift Managers