

DANIEL E. ROSS, P. E.

SUMMARY

Conduct forensic engineering investigations and provide expert witness services related to:

Chemical process safety management (PSM)

- Process accident investigation
- Tank maintenance and management
- Process documentation
- Management of change, maintenance in kind

Turbo-machinery failure analysis and repairs

Chemical process engineering

- Unit operations
 - Scrubbing
 - Absorption
 - Stripping
- Pumps and pumping systems
- Combustion processes

Project management, estimating and planning

Chemical release investigation and remediation

Chemical and refinery maintenance, maintenance planning and cost control

Discipline detail: Chemical plant operations, maintenance and equipment. Specific processes include Urea, Ammonia, Nitric Acid, Ammonium Nitrate, Phosphate Ore Beneficiation, Sulfuric Acid and Ammonium Phosphate.

EDUCATION AND AFFILIATIONS

B. S. in Chemical Engineering, Auburn University
Professional Engineer, registered in Florida and Georgia, (Georgia inactive)
Member, American Institute of Chemical Engineers
Military: Attained the rank of Sergeant, United States Marine Corp

CAREER HISTORY

NC-Lube Engineering, LLC, Resident Engineer. Provided consulting, liaison and engineering services on a part-time basis for a petroleum re-refinery being constructed in the Port of Tampa.

Primary duties were to liaise between the Italian engineering firm and local suppliers, contractors and engineering firms.

DcR Engineering Services, Inc., Senior Project Manager. Managed engineering projects as well as managed the Process and Mechanical Department. The P&M Dept consisted of varying numbers of engineers and designers to a maximum of 12 individuals. This group provided all mechanical and chemical engineering services for the DcR group of five companies. In the role of Senior Project Manager, I provided point of contact between clients and DcR, and administered the engineering effort including establishing and maintaining the project budget, schedule and overall project plan.

CF Industries, Bartow, Florida, Senior Project Manager. Managed projects for any of the CF sites, from engineering studies through construction and start up. Studies include petroleum coke gasification as feedstock for ammonia production, replacement of two sulfuric acid converters, and uranium recovery from phosphoric acid. Projects managed through construction include sulfuric acid plant revamp (\$27M) and gypsum booster pumps (\$6M).

PennPro Engineering and Technical Services, Mulberry, Florida, and CDI Engineering Solutions, Senior Engineer. Provided technical services to IMC/Mosaic as contract engineer from the Pierce headquarters and at the Four Corners beneficiation plant. Projects included superheater replacement in a sulfuric acid plant, material balances and operations analysis for Washers, process modifications and slurry pumping applications in ore processing.

Nitram, Inc., Tampa, Florida: Chief Engineer, Technical Manager, Vice President/General Manager, Executive Vice President/Chief Operating Officer, President/Chief Operating Officer. Nitram was an ammonium nitrate manufacturer. As Chief Engineer and Technical Manager, conceived, engineered and installed modifications to all plant processes, including conversion to high density prilling, a major revamp of the nitric acid plants, energy recovery and environmental controls. Provided technical support for all departments and managed environmental affairs for the company. In the general management role, instituted manager training, developed the market for low density prill, formed a planning and scheduling group in the maintenance department to improve man-hour efficiency, reduced workers' comp experience factor from 0.96 to 0.82, and reduced employee turnover to acceptable levels.

Kaiser Agricultural Chemicals, Savannah, Georgia: Maintenance Superintendent. This Kaiser location was a nitrogen fertilizer manufacturing plant with ammonia, urea, nitric acid and ammonium nitrate capability. Implemented maintenance planning and scheduling, developed the preventive maintenance program for the plant and supervised a department of 30, including three supervisors and a planning section of three.

Columbia Nitrogen Corporation, Augusta, Georgia, Project Engineer, Maintenance Engineer, and Maintenance Supervisor. Columbia Nitrogen manufactured ammonia, urea, nitric acid and ammonium nitrate, and provided engineering and maintenance support for Nipro, Inc., an organic

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chemical plant that shares the same site. Engineered and managed installation of capital projects, planned turnarounds, performed process and maintenance troubleshooting and supervised maintenance in the fertilizer plant.

United States Gypsum Company, Birmingham, Alabama and South Plainfield, New Jersey. Project Engineer, Project Manager. These locations manufactured mineral wool for insulation. Engineered and installed capital projects and provided technical support for operations.

United States Steel Corporation, Fairfield, Alabama, Turn Supervisor. The Turn Supervisor manages the logistics of molds, scrap steel and molten iron for the Open Hearth Department.