

SNC LAVALIN

SEPT. 2006 – JAN. 2019

Lead Electrical Engineer – SNC Lavalin– Oil and Gas Houston. Oct. 2017 to Present

Provide Senior Lead Electrical Engineering services for multiple projects in the SNCL Houston Home offices for the LEAP Projects group. In this role I am managing engineering and design staff while providing engineering scope review, Pass Gate FEL design and estimate, engineering review approval and client interface for major projects. I also provide the same services for other in house client projects.

Lead Electrical Engineer – SNC Lavalin Baytown ExxonMobil Office – May 2016 to Oct. 2017

Provide plant Senior Lead Electrical Engineering services for multiple projects for the ExxonMobil Plant Refinery, Chemical Plant in Baytown and Mont Belvieu plant sites. Power engineering and design for plant upgrades, Turn Around Projects, Capital Projects and Maintenance project support.

Lead Electrical Engineer – SNC Lavalin– Oil and Gas Houston. April 2014 to May 2016

Electrical Engineering Lead for the project management group in the Houston Oil and Gas Office. Managing engineering and design staff while providing engineering scope review, Pass Gate FEL design and estimate, engineering review approval and client interface for major projects. Projects included are for plant based project expansions for new units including infrastructure. Also for in plant unit revamp projects to expand capacities. Projects include new plants from design to construction for Mid Stream systems as well as developing new plants inside existing operating plants.

JACOBS ENGINEERING – INTERIM ASSIGNMENT JUNE 2013 – APRIL 2014

Lead Electrical Engineer – Jacobs Engineering. Marathon Gulf Bay Refinery, Texas City, Tx.

(NOTE: This company move was a voluntary job position taken at my discretion with the approval of SNCL due to lack of project work in the SNCL home office)

Electrical Engineering Lead for the project management group with Jacobs Engineering at Texas City. Managing engineering and design staff while providing engineering scope review, Pass Gate FEL design and estimate, engineering review approval and client interface for Marathon and major projects. Managing plant electrical projects totaling \$45 million dollars for multiple substation restoration, replacement and upgrade projects. Provide electrical engineering support for major projects including Turnaround projects for major process vessel replacements and upgrades.

SNC LAVALIN-GDS

SEPT. 2006 – JUNE 2013

Lead Electrical Engineer – SNC Lavalin Engineers & Constructors Inc. Engineering Task Force

Electrical Engineering Lead for the Task Force with SNC Lavalin Engineers & Constructors Inc. Managing engineering and design staff while providing engineering scope review, Pass Gate FEL design and estimate, engineering review approval and client interface for ConocoPhillips and major projects. Sit on the Electrical Department Senior Staff. Projects include plant wide ETAP Power Analysis Project, Secured Electrical MEC Client contract for total plant ETAP electrical management including management scope procedures for the power assignment of all projects, a 5000HP compressor conversion, revamp of a CO boiler to steam with VFD FD Fan, NGL unit energy conservation project, new MCC distribution center for new OSBL and ISBL of a new sulphur unit, Emergency Isolation Valve project and a Crude Terminal seven transformer power system dual feed revamp. Providing engineering and management supervision for multiple clients and sites for projects.

CONTECH/GDS(SNCL)/S&B ENGINEERS.

JAN. 2003 – SEPT. 2006

Electrical Engineering Specialist, – Contractor – BP Refinery/Chemical, Texas City, TX.

Provide scope review, Pass Gate FEL design and estimate, engineering review, E&C contractor review for electrical projects. I was transferred to the different supporting companies to maintain position in the Enterprise Contract roles under Jacobs with BP.

- ◆ Provided design, review and engineering for a 50 KVA UPS Upgrade, a 50 hp VFD installation and cooling tower motor vibration S/D system in the FCCU#3 Unit for the 2004 TAR. Providing Plant Security Hardening design for controls, power, lighting and system integration design and construction consultation for entire plant site security projects. Also providing load study and recommendations for building upgrades.

ADMINISTRATIVE EXCHANGE, INC.

OCT. 2000 – JAN. 2003

Electrical Engineering Specialist, Project Maintenance Coordinator – Contractor – Lyondell Citgo Refinery, Houston, TX.

Provide scope review, Pass Gate FEL design and estimate, engineering review, E&C contractor review and approval for all electrical projects and provide interface coordination between capital projects engineering group, maintenance and construction to ensure the successful completion of the projects.

I provided electrical engineering support for approximately 150 projects overall.

- ◆ Provided design, review, engineering approval and check out for 700 hp VGO dock pump system, Crude unit 1500 hp pump upgrade, heat trace design for Coker heater feed, 2000 hp air compressor and power distribution system with CCC Control, and FCCU Cooling Tower MCC upgrade along with various pump, process, power distribution and project support efforts.
- ◆ Wrote and implemented plant standards for power distribution requests that standardized engineering requests for projects and maintenance. Also initiated and wrote construction commissioning and checkout procedures.

GDS ENGINEERS

MAY 2000 – OCT. 2000

Electrical Engineering Specialist – Contractor - BP-Amoco Chemical Texas City, Tx.

Providing electrical engineering support for unit operations and small projects. Also leading OSHA 1910.119j Mechanical Integrity program efforts for the I&E discipline.

WALLER MARINE, INC., HOUSTON, TX.

JAN. 2000 – MAY 2000

Electrical Engineering Specialist – Contractor

Providing electrical engineering support for an electrical distribution power plant barge. This is a multi country design project for a power distribution system with four LM6000 gas turbines and one steam generation unit. Project requires interfacing electrical design system with the co-ordination design contractor.

GDS ENGINEERING, TEXAS CITY, TEXAS

APRIL 1999

Electrical Engineering Specialist – Contract assignment to Sterling Chemicals, Inc.

Requested by Sterling Chemicals to provide engineering shutdown support for the electrical maintenance department during a major plant turn around.

MONSANTO/STERLING CHEMICALS, TEXAS CITY, TX.

1979 - 1998

Electrical Engineering Specialist - Maintenance Dept.

1987 - 1998

Responsibilities:

Reported to the I/E maintenance department for plant support of department foreman, equipment and system maintenance, major equipment replacement and preventive maintenance routines. Was promoted from Senior Electrical Engineer to Electrical Engineering Specialist in 1995.

- ◆ Designed and supervised electrical distribution and controls and started up new Sodium Cyanide unit resulting in a profitable operating unit.
- ◆ Wrote and implemented plant standards for heat trace systems that standardized process controls, testing and maintenance of 25,000 feet of Acetic Acid and Caustic piping systems.
- ◆ Designed, scoped and supervised through startup seven 480 volt, 1 MVA and above transformer switchgear installation upgrades.
- ◆ Designed, scoped and supervised through check out and startup ten UPS projects from 5 kva to 50 kva.
- ◆ Designed, specified and supervised through check out new and upgraded five 480 volt backup generator systems with auto transfer functions.
- ◆ Backup system manager for Fisher Instrument Information System. (SQL Server application).

- ◆ Designed and supervised through check out and startup five UPS maintenance bypass interlock control switch systems with dual UPS battery systems with 480 volt generator and auto transfer switch.
- ◆ Tested and implemented with team initial plant wide network providing the plant with plant wide networking system.
- ◆ Competent in computer software and hardware on PC systems from building and startup to Microsoft programs, spreadsheets and IIS.

Senior Electrical Engineer - Electrical Projects Construction Coordinator 1983 - 1987

Responsibilities:

Planned, scheduled, directed and interfaced project engineering with plant construction personnel for all projects. Directed plant craftsmen and contractors for installation, check out and startup of capital projects.

- ◆ Directed electrical work force for Methanol unit upgrade and conversion project including equipment inspection acceptance and startup.
- ◆ Directed both direct plant electrical craftsmen and electrical contractors for engineering department projects with responsibility for installation, check out and startup.

Senior Electrical Engineer - Electrical Engineering Projects Engineer 1979 - 1983

Responsibilities:

Estimated, designed, procured, perform check out and startup of plant capital projects. Overall project estimates were less than 5% deviant from final project costs.

- ◆ Estimated, designed, procured and supervised through startup analyzer building projects, building lighting systems, turbine speed control systems, 480 volt and 4160 volt large motor installations and 480 motor control projects.

ALUMINUM COMPANY OF AMERICA, POINT COMFORT, TX. 1974 - 1979

Senior Electrical Engineer - Electrical Engineering Projects Engineer. 1974 - 1979

Responsibilities:

Estimate, design, procure, perform check out and startup of plant capital projects. Was promoted from Engineer to Senior Engineer in 1977.

- ◆ Estimated, designed, specified and supervised through startup a 93MVA, 138KV/34KV/7.2KV transformer repair and startup. Also performed maintenance repair design and direction on 8 other one MVA 480 volt transformers, one 7.2KV 14MVA unit and three 10MVA 34KV rectifier units.
- ◆ Estimated, designed and supervised to startup a 7.2KV feeder for a unit transformer including tie feeders, switchgear and controls.
- ◆ Estimated, designed and supervised installation of primary feeder upgrade of 7.2KV cable system to 63 1MVA transformers to upgrade installations of existing systems for OSHA required safety regulations.
- ◆ Revised new design for 60KV-DC power distribution ducts on an electro-static precipitator to facilitate safer servicing of the unit for personnel.

PROFESSIONAL AND PERSONAL DEVELOPMENT

Registered Professional Engineer, Texas 76315

Training in Covey, Diversity Training, Root Cause Failure Analysis, Managerial Analytics
Spence Leadership and Facilitator Trainer, Front End Loading (FEL) Process
Heat Trace Design Systems