

Scott Barrus, STS

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PROFILE:

“Hands on” Electrical Systems, Process Control and Automation professional with over 20 years of Engineering, Maintenance and Leadership experience. Excellent troubleshooting skills and strong experience in plant commissioning and start-ups. Recognized for strong safety culture, excellent critical thinking and problem solving skills. Consistently ranked at the top of my peer group throughout my career. Proven ability to work well as team member and leader under critical project deadlines, heavy workloads and plant emergency situations.

KEY SKILLS:

- Plan and Perform all tasks with Safety as top priority
 - HMI configuration
 - Ladder Logic PLC programming
 - Alarm Handling Systems
 - Data Highway, Ethernet, Device Net, Control Net, Profibus
 - Data Historian
 - Read and understand P&ID's, Electrical Schematics, Wiring Diagrams and Loop Drawings.
 - NFPA 70E Electrical Workplace Safety instructor (LV and HV)
 - Loop Tuning
 - Stand-by\Back- up Generator Systems
 - Variable Frequency Drives (VFD)
 - Motor Control Centers (MCC)
 - Uninterruptible Power Supplies (UPS)
 - Industrial Hydraulic Systems
 - Instrumentation Calibration (Temp, Flow, Level, Press, Density, pH)
 - Preventative and Predictive Maintenance
 - Configuration Control
 - Project Management
 - Root Cause Analysis
 - Quality Assurance, Procedure and Regulatory Compliance.
 - Customer Service/Support
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WORK EXPERIENCE:

Dean Fluor, UDC

Bluffdale, Utah 84065

Electrical Systems Manager

Responsible for all site Electrical Systems Operations, Maintenance and the Installation and commissioning of new equipment. Provide Subject Matter Expert (SME) advice to the Client and other contractor groups. Safely troubleshoot and repair system/equipment problems. Provide safe, technically sound and cost effective solutions to problems faced. Set up from scratch site Electrical Shop procuring all tools, test equipment and PPE to maintain the facility. Provide NFPA 70 E training to all Dean Fluor employees. Other duties include:

- Manage all work with personnel safety as top priority. Recordable Injury Rate <1.
- Developed Site Electrical Safety Plan.
- Create, review and validate Switching Procedures for complex redundant and integrated Electrical Distribution Systems, Substations, Generator Plants, ATS's, UPS systems, STS's and PDU's.
- Use ETAP for Power System Modeling, Analysis, Design and Arc Flash incident energy calculations.
- Use Electrical Schematics, Equipment Manuals, NFPA 70B, NETA MTS, IEEE and other materials to determine maintenance requirements, testing procedures and adjustment methods.
- Use Power DB database and created custom forms to document NETA maintenance and test results.
- Use Maximo to create detailed Work Plans for all Predictive, Preventative and Corrective Maintenance work. These Work Plans include work hazards, mitigating measures, work prerequisites, tools required, detailed step by step work instructions.
- Perform NETA maintenance testing on Low & Medium voltage Metal Clad Switchgear, Air, Vacuum and SF6 Circuit Breakers, Air and SF6 Sectionalizing Switches, Protective Relays, Large Oil filled and Dry Transformers.
- Preventative Maintenance on Lightning Protection and Equipment Grounding systems.
- Preventative Maintenance and Operation of large stand by generator systems.
- Responsible for all Predictive, Preventative and Corrective Maintenance work on facility UPS modules and associated battery strings.
- Utilize precision measuring instruments and complex testing equipment such as HI POT, Micro-Ohm meter, TDR's, Power Quality Meters, Fall of Potential test sets, Relay Test Sets, Insulation Resistance Meter (Megger), Primary Injection Test Sets.
- Commission and Baseline Partial Discharge Monitoring on all Medium Voltage cables.

Dec '13 to Present

URS Corporation, TOCDF

Tooele, Utah 84074

Engineering Supervisor

Supervise a group of 12 Engineers, responsible for the plant SCADA/Control system. Provide technical leadership for design and execution of all SCADA/Control system modifications. This system is one of the largest networks of Allen Bradley PLCs in the country and has over 26 man years in design and development. Responsible to ensure that my department provides safe and environmentally sound solutions to the plants continually changing production needs. Ensure that these solutions are provided on schedule and within budget constraints. Member of the facility Design Authority Group, making technical recommendations, providing review and authorization of all facility SCADA/Control system designs.

July '05 to Dec '13

URS Corporation, TOCDF

Tooele, Utah 84074

Shift Maintenance Superintendent

Responsible for all plant maintenance activities and personnel while on shift. Shift Maintenance personnel included 1 Mechanical Supervisor, 1 Instrument and Electrical supervisor, 2 Maintenance planners, 1 Maintenance Engineer, 10 Maintenance Mechanics, 8 Instrument and Electrical Techs, and 1 laborer. Ensure that all scheduled Maintenance activities are completed safely and on time. Ensure that all personnel are current on all necessary safety, environmental, medical and training requirements.

April '03 to July '05

URS Corporation, TOCDF

Tooele, Utah 84074

Controls Engineer

Maintain, troubleshoot and repair plant SCADA/Control system. Optimize the performance of plant control equipment and identify potential areas to improve safety, reliability and efficiency. Develop, modify and function test controls software programs for processing and tracking chemical surety materials. Software development work includes PLC Ladder Logic, HMI system configuration with screen graphics design and animation, database configuration. Ensure compliance with engineering specifications and industry standards. Provide engineering support as required maintaining TOCDF within local & federal regulations and designed parameters.

March '99 to April '03

Safety Kleen, Aragonite Incineration Facility

Aragonite, Utah 84029

Instrument & Electrical Technician

Maintain, troubleshoot, repair and calibrate all plant process control loops and electrical systems. Design, order & install new process control and electrical systems for the plant. My responsibilities for these new systems run from the design phase through the commissioning & operation phases including the red-lining of all related drawings and the production of new operation procedures. Perform software modifications and troubleshoot software on plant DCS and PLC networks. Supervise instrument and electrical contract employees to ensure safe and efficient completion of assignments. Filled in as plant Instrument & Electrical supervisor.

April '97 to March '99

Safety Kleen, Clive Incineration Facility

Clive, Utah 84029

Instrument & Electrical Technician

Set up the Instrumentation and Electrical shop, ordering all maintenance and calibration equipment. As a member of the E & I start-up team I performed loop checks, interlock & alarm checks, calibration, tuning and troubleshooting of all process control loops. Maintained, troubleshot and repaired low and medium voltage switchgear, MCCs, UPS and associated battery banks, motor starters, transformers, heaters and all other plant electrical equipment. Perform software modifications and troubleshoot software on plant DCS and PLC networks. Supervise instrument and electrical contract employees to ensure safe and efficient completion of assignments. Filled in as plant Instrument & Electrical supervisor.

Dec '92 to April '97

Magnesium Corporation of America

Rowley, Utah 84029

Instrumentation Technician

Troubleshoot, design, calibrate and repair all process control loops necessary to the efficient operation of the plant. Perform routine preventative maintenance on a weekly, monthly, quarterly and annual basis.

May '92 to Dec '92

SPECIALIZED TRAINING:

<i>E-HAZARD Train the Trainer NFPA 70E and OSHA</i>	9-15	<i>LYNCOLE XIT GROUNDING;</i>	5-17
-Low Voltage Qualified Instructor		-Lightning Protection & Ground Systems testing	
-High Voltage Qualified Instructor		<i>UTAH ELECTRICAL JATC;</i>	3-04
<i>ROCKWELL AUTOMATION;</i>		-Grounding & Bonding, Transformers and	
-ALLEN BRADLEY 1336 Variable Frequency Drives	4-95	Motor installations	
-ALLEN BRADLEY SLC 500 Configuration	6-93	-Hazardous Locations, Grounding & Bonding and	
-ALLEN BRADLEY PLC5 Configuration	9-96	Conductor installation	
-Developing Rsviw32 projects	9-05	<i>PAR SYSTEMS;</i>	8-99
-RSSQL	2-06	-CIMROC 4000 robot control	
-Control Logix 5000	5-09	<i>BERENDSEN FLUID POWER;</i>	5-95
<i>SCHNIEDER;</i>		-Industrial Hydraulics	
-PowerLogic SCADA Administrator	8-14	<i>INTERSTATE HYDRAULICS;</i>	9-97
<i>FOXBORO;</i>	6-96	-Industrial Hydraulics Design	
-PID Loop Tuning		<i>SOLIDWORKS;</i>	6-12
<i>MOORE DCS;</i>	6-93	-SolidWorks Essentials Course	
-Mycro 352 Configuration		<i>ORACLE DATABASE 10g;</i>	4-08
-Mycro 324 Configuration		-SQL Fundamentals	
-Process Control Fundamentals		<i>LEADERSHIP ESCENTIALS;</i>	9-93
-APACS Controller Configuration	6-95	-Building winning teams in the workplace	
<i>SIEMENS;</i>	5-10	<i>MANAGING EMPLOYEE DISCIPLINE;</i>	1-05
-S7 Tools & Troubleshooting 1		-How to Firm, Fair and Effective	
-S7 Tools & Troubleshooting 2		<i>CRUCIAL CONVERSTATIONS;</i>	3-11
-SIMATIC WinCC SCADA configuration		-Tools for talking when stakes are high	
-SIMATIC NET Profibus, Profinet, Ethernet		<i>EARNED VALUE MANAGMENT;</i>	1-06
-SINAMICS G120/MICROMASTER		-Quantitative measure of schedule deviation	
<i>HORIBA STACK GAS ANALYZER;</i>	3-94	in dollars.	
-Continuous Measurement of NOx/SO2/CO2/CO/O2 in		<i>EXECUTRAIN;</i>	9-06
Plant Gas Emissions instrumentation.		-Project Management Foundations	
<i>WESTINGHOUSE;</i>	6-96	-Project Management Advanced	
-Transformer Maintenance		<i>POWERDB;</i>	9-16
<i>GE MARK 1 SPEEDTRONICS;</i>	7-92	-PowerDB Pro Test Data Management Software	
-Gas Turbine Speed Controls			

EDUCATION & PROFESSIONAL CERTIFICATIONS:

<i>ITT Technical Institute</i>	<i>B.A.S. - E.E.T.</i>
<i>Electronics Engineering Technology</i>	<i>GPA 3.98 *Class Valedictorian</i>
<i>Salt Lake City, Utah</i>	<i>Graduation, 8-98.</i>
<i>*Certified by the Fluid Power Society of America as an Industrial Hydraulic Mechanic.</i>	
<i>*Certified Safety Trained Supervisor (STS) by the Board of Certified Safety Professionals (BCSP, May 2010).</i>	
<i>*Certified NFPA 70E Low Voltage and High Voltage Instructor.</i>	
<i>*Top Secret -SCI Clearance-</i>	
