

# Stephen R. McCurdy

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**Site Management, Diesel Power Generation, and Utilities Management** expert with over 20 years of experience driving optimal performance across diverse organizations including 15+ years on international assignments. Successful record of managing complex projects and programs with near-zero downtime. Built and managed multi-national workforce up to 20 different nationalities.

*Provided management expertise and oversight in the operation, maintenance, and repair of the central energy plant (CEP). Manage CEP and supporting department's workload activities and employees, guide the O&M team in the preventative maintenance, operations, engineering systems improvements, equipment replacement, utility usage, and long-term efficiency of Boilers, Chillers, Generators, Power Distribution System, and HVAC System's*

## **TRAINING CERTIFICATIONS.**

**US Core Engineers US Army Core Engineers (QC Management for Contractors 784)**

**US Core Engineers US Army Core Engineers Safety and Health EM385**

**OSHA 30 and OSHA 10**

NFIPA 70E, & Electrical Safety Arch Flash Safety, & Electrical Fire & Safety

SCADA Seimens Automation Wincc Electrical Troubleshooting, PLC Troubleshooting 70

Understanding 30 Power Plant and Plant Distribution

Caterpillar Operations and Maintenance Emergency Diesel Generator Set 1500kva and

Associated Systems

Caterpillar 3600 Series 3500KVA Diesel Generator Set and Associated Equipment

UTI associate degree Automotive and Diesel Technology

40-hour HAZWOPER

24-Hour Onsite Emergency Manager Caterpillar 3500 & 3600 Series Training H2SGAS

Training

Detroit Diesel Series 3600 Engine Troubleshooting & Overhaul Procedures Detroit

Diesel Series 71, 92 Engine Troubleshooting & Overhaul Procedures

## **SKILLS & EXPERTISE**

- Site Management
- Operations & Maintenance Oversight
- Program and Project Management
- Utilities Management
- Electrical Power Generation & Distribution
- Power Plants Program and Project Management
- US Army General Fund Enterprise Business Systems
- Quality Assurance Management
- Contract Development & Negotiation
- Natural Gas Rebuilds
- Camp Facilities O & M
- Power Plant and Stand by Diesel Generators Quality Assurance Program and SOP Development
- Power Plant Construction Operations, Maintenance and Commissioning.
- Power Plants Program and Project Management
- Strategic Planning
- Budget Development and Administration
- Materials & Inventory Management
- Continuous Process Improvement
- Safety Program Management Ahas, & Site HSE Plan's
- Regulatory Compliance
- Risk Management & Mitigation
- Preventive Maintenance, Installation & Repair
- Microsoft Office (*Word, Excel, Outlook, Project*)
- Maximo

## **PROFESSIONAL HIGHLIGHTS**

Managed Program Environmental, Safety, Health, and Quality Assurance requirements, commissioned MW power station, critical power systems, and medium voltage distribution systems.

Recognized for excellent strategic planning to identify and address subpar operations, increase productivity, cut costs, and implement quality improvement to enhance performance, compliance, and stakeholder satisfaction.

Demonstrated ability to manage, motivate, and build cohesive teams to achieve results, utilizing exemplary leadership and communication skills.

Managed power generation, control room, various size generators (Cat c-280), (CAT 3512), (CAT 3516), Cummins QSK60, KTA50G3, KTA50G9, MTU20V400G24F, MTU 20V4000G34F, Alternators CAT 1MV, 24vDC to 15kVAC power generation-distribution grid, GE and Siemens systems, PLC and electronic controls, switchgear, step- up and step- down transformers, substations, fusible switches, SCADA system, and automatic transfer switches.

## PROFESSIONAL EXPERIENCE

MBP 2600 Park Tower Drive Suite 801Vienna, VA 22180 2/21/2024 to Present

**Qa Construction Engineering Technician In Direct Support of FY20 MCAF P-9021/PAF189021 APSI - AIRFIELD DEVELOPMENT, PHASE 1 AND FY20 MCAF P-9022/PAF189022 APSI - PARKING APRON, TINIAN INTERNATIONAL AIRPORT, TINIAN, CNMI**

\$221,690,757 firm-fixed-price contract for site development and for the construction of an aircraft parking apron and taxiway at the Tinian International Airport, Tinian, Commonwealth of the Northern Mariana Islands (CNMI).

Managed on-site supervision and inspection of construction and environmental activities on assigned projects.

Reviewed plans and specifications during final design and/or bidding phase paying special attention to existing field conditions at the time of review and prepares comments for possible changes to plans and specifications.

Conducted pre-construction conferences in the direction of the Resident Engineer.

Reviewed and evaluates contractor's safety program for consistency with requirement of EM 385-1-1 and ensures strict enforcement of safe practices and safety program at the assigned project site.

Managed problems largely on own initiative and acts independently to perform quality assurance and safety assurance functions but keeps supervisor apprised on any controversial issues and/or policies of an unusual nature.

Reviewed work in the form of reports, correspondence, etc., that are referred to the supervisor for signature.

Supervised the overall construction management process, including, under minimal supervision, establishing budget and contract constraints, performing inspections, and coordinating with design and other support staff.

Independently assesses existing site conditions and evaluate customers' requests to develop scopes of work.

NAVFAC Southwest Navy Base Ventura County Public Works Department 10/11/2023 to Present

### **Electric Controller Leader**

Managed Powerhouse Operators Hi-Voltage Technicians and Maintenance PM's.

Managed Powerhouse and Wind Farm Quality and Safety and Commissioning project's

Supervised crews in troubleshooting cable systems to locate shorts, electrolysis damage, capacitance imbalance or cable breaks.

Managed a team as a High Voltage Electrician completing high voltage electrical inspections, repairs, and maintenance activities.

Maintained proper work methods, explain steps and or processes to ensure the safety of crew members and safe operations of the equipment.

Interpreted federal, state and local safety requirements and procedures.

Used single line drawing to reroute and distribute power throughout the electrical grid.

Used drawings and load data to develop electrical switching plans and directions.

Responsible for Control of transmission and distribution substation systems. Monitors and ensures proper operation of equipment as well as the operation of substation equipment including transformers, breakers, disconnects, etc.

Receives, troubleshoots, prioritizes, and dispatches appropriate personnel and equipment for all emergency and nonemergency calls for SCIP during business hours and non-business hours. Operation of substation equipment including transformers, breakers, disconnects, etc.; issues emergency and routine switching orders based on loading limits of high voltage lines and other equipment.

Maintained logs and other system reports generated through the Energy Management System (EMS); completes and distributes outage reports; maintains system outage database and customers count databases; generates and maintains reports daily, weekly, and monthly.

Responsible for the safe switching operations, including writing and reviewing the switching related documentation and the roles and responsibilities including permit sand barriers, locking and tagging, common switching operation tasks, the practical checks before and after switching apparatus and switching related hazards etc.

American Systems Group 02/17/2023 to Present **QA Construction Engineering Technician –**

OCONUS – NAVSTA Guantanamo Bay, Cuba

Direct Engineering Technician Support to ASG Seaport NxG Contract N0017819D7175 – Task Order - N N6945021F3002 in NAVSTA Guantanamo Bay, Cuba.

Reviews plans and specifications during final design and/or bidding phase paying special attention to existing field conditions at the time of review and prepares comments for possible changes to plans and specifications.

Conducts pre-construction conferences in the direction of the Resident Engineer.

Manages on-site supervision and inspection of construction and environmental activities on assigned projects.

Reviews and evaluates contractor's safety program for consistency with requirement of EM 385-1-1 and ensures strict enforcement of safe practices and safety program at the assigned project site.

### **American Systems Group (Continued)**

Worked out problems largely on own initiative and acts independently to perform quality assurance and safety assurance functions but keeps supervisor apprised of any controversial issues and/or policies of an unusual nature.

Reviewed work in the form of reports, correspondence, etc., that are referred to the supervisor for signature.

Supported the overall construction management process, including, under minimal supervision, establishing budget and contract constraints, performing inspections, and coordinating with design and other support staff.

Independently assesses existing site conditions and evaluates customers' requests to develop scopes of work.

### **Curtis Power Solutions Baltimore, Maryland Branch Operations Manager 09/22 to 02/23**

Managed Overall Branch Operations to ensure Safety, Productivity, Customer Service and Profitability. Prepared and Managed WIP reports, including profit and loss statements, monthly operating reviews, yearly budgets, and generator renewal pm maintenance contracts. CUP Manager

### **J&J Worldwide Services Brian D. Allgood Community Hospital CUP Manager - MEDDAC Korea Camp Humphreys South Korea 08/30/2021 to 08/31/2022**

Provided management expertise and oversight in the operation, maintenance, and repair of the central energy plant (CEP).

Manage CEP and supporting department's workload activities and employees, guide the O&M team in the preventative maintenance, operations, engineering systems improvements, equipment replacement, utility usage, and long-term efficiency.

Provided management expertise and oversight in the operation, maintenance, and repair of the central energy plant (CEP).

Prepared monthly reports as assigned; review assigned service orders monthly to determine the percentage.

Manage CEP and supporting department's workload activities and employees, guide the O&M team in the preventative maintenance, operations, engineering systems improvements, equipment replacement, utility usage, and long-term efficiency.

Managed and supervises work orders to ensure timely, accurate, and effective completion.

Managed the Boilers, Chillers, Generators, Power Distribution System, and HVAC System's.

Prepare monthly reports as assigned; review assigned service orders monthly to determine the percentage.

Completed to invoice the government.

Solicited bids for Service Contracts for Maintenance work and oversees timely completion.

Served as the preventative and corrective maintenance expert for the team to come to for guidance and direction.

Ensured conformance to contract requirements and reviews performance indicators to improve Efficiency.

Managed building files, drawings, and maintenance records are kept up to date.

Performed frequent Quality Control (QC) inspections, initiated, oversees, and documents.

Corrective and preventative actions in support of the QC program.

Planned, managed, directed, and motivated assigned personnel and long-range activities, and ensures All programs and procedures are being properly implemented.

Effectively managed maintenance operations necessary to execute all scheduled maintenance and Unscheduled maintenance events described in the project work scope with established regulatory Responsible for assigning work orders and duties and reviewing all corrective and preventative Maintenance for proper documentation.

Investigated equipment failures and issues to diagnose faulty operation, and to make.

### **Vectrus Systems Corp Site Manager Muwaffai-Salti Air Base (MSAB), Jordan | 01/2021 – 06/17/2021**

Project: 8MW Power Plant for the United States Air Force on the AFCAP IV contract. • 11kV distribution system with five 11KV feeders and MV 600A 4-way switched disconnect switchgear/feeder.

Perform duties of Site/Power Plant Manager, Quality Control Manager, Safety Manager, and Property Control Manager for property inventory to establish property control plan.

Coordinate and oversee the day-to-day O&M, personnel, and services to ensure quality.

Responsible for EHS practices, procedures and techniques, and logistics/supply support services. Key Achievements: Performed installation and commissioning of the power plant and provided daily quality control and progress report to the prime contractor for review. Perform daily quality control inspections on civil engineering construction.

### **PAE Supervisor, Power & Fuel System Supervisor U. S. Embassy Kabul, Afghanistan 01/2019 – 10/2020**

Oversaw management of the 26 MW power station, critical power systems, and medium voltage distribution system. Responsible for maintaining a safe workplace and complying with all Program Environmental, Safety, Health, and Quality Assurance Requirements.

Monitored energy efficiency and analyzed system performance to provide engineering recommendations to improve compound sustainability and resiliency. Responded to critical service (power) outages and effected service restoration in a safe and expedient matter.

Managed and oversaw the operation, calibration, diagnostics, troubleshooting, and repair of all mechanical and electrical equipment systems and electric/pneumatic control systems on-site. Interpreted work orders and associated specifications, operating manuals/procedures, and technical publications to properly schedule work and provide advice to workers.

Determined schedules, sequences, and assignments for work activities, based on work priority, type of utility services, and skill of personnel. Monitored work locations to detect unsafe work conditions and implemented on- the-spot corrections and process improvements as required.

Key Achievements:

Served as liaison with State Department's Bureau of Overseas Buildings Operations on commissioning and operational integration of ongoing and future engineering projects.

Participated in budget preparation, capital expenditure reviews, purchasing, and monitoring expenditures.

Arranged and conducted worker training in utilities operational procedures, equipment use, and repair and maintenance techniques.

DynCorp International **High Voltage Power Generation Foreman** US Army Garrison Kwajalein Atoll Republic of Marshall Islands 08/2018 – 01/2019

IAP High Voltage Power Generation Foreman Kwajalein Atoll Republic of Marshall Islands Contract changeover to DynCorp 03/2018 – 08/2018  
Lead plant operator, lead floor operator and served as control room/floor operator when needed. Maintained Intrepid SCADA system and drawing and plant parameters. Conducted audits and submitted reports on diesel generators and auxiliary equipment. Performed emergency repairs on Cat C280 generator.

Key Achievements:

Utilized in-depth knowledge and ability to perform maintenance on power generation equipment to include engine, Alternating Current (AC) alternators, electronic controls, electrical wiring, and accessories. Performed load calculations to properly size power generators for power plant operations.

**KBR Power Generation Foreman** Camp Redleg UAE 01/2018 – 03/2018

Performed preventive maintenance services and repairs on 6-kW to 1000-kW generators involving installation and removal operation of generators from locations to power generation shops. Troubleshoot and rebuilt engines, alternate current (AC) systems, direct current (DC) systems, electronic control systems, and other program logic controls, electrical wiring, and accessories.

Maintained all types of power generation equipment including FG Wilson, Caterpillar, Volvo, Cummins, SDMO, AKSA, MEPS, and other military design generators.

Louis Berger **Power Plant Senior Technician & Operator** Al Asad Air Base, Iraq | 04/2017 – 12/2017

Lead maintenance and plant operator of a 6mw electric-driven diesel power plant. Managed, developed, and implemented projects of varying complexity and size in the delivery of 10 - 3phase/60 Hz/4160V stationary diesel engine-driven electrical power generation systems.

Coordinated and supervised the overall delivery of quality performance by service technicians. Developed maintenance, labor, and parts budgets. Created work schedules and maintained accounting of productivity. Provided employee training and development.

Generated service-related revenue scheduling and performed timely repairs for the power plant. Reviewed engineering documents for power generation and electrical utility systems for proper construction. Developed and implemented standard operating procedures, policies, and code compliance.

Developed and provided. Oversight of electrical utility quality assurance and safety program.

Florida Detroit Diesel Allison Power **Production Supervisor** Miami, Florida 01/2017 – 04/2017

Managed installation and replacement of generators: manpower, supplies, service technician assignments, verification of work completion and safety requirements, scheduling of outages. Assisted service advisors in resolving customer complaints. Developed and set budgets for shop costs to achieve margin objectives and budgets. Established work standards to assess service technician performance. Coordinated and supervised the overall delivery of quality performance by service technicians. Developed maintenance, labor, and parts budgets.

Sallyport **Power Production Superintendent** Balad, Iraq 03/2016 – 01/2017

Orchestrated a multinational team of 20 in daily operations. Planned and led preventative and reparative maintenance initiatives. Managed full implementation and quality project lifecycle. Oversaw 20 Prime Power Caterpillar diesel generators and 280 generators and light sets ranging from 5 kw to 1.8 mw. Drafted and established Standard Operating Procedures, service schedules, job plans, desktop guides, and safety forms to ensure all standards met and hazards identified and prevented.

Key Achievements:

Implemented modified quality control and quality assurance procedures to enhance the level of maintenance.

Conducted regulatory training to ensure all personnel was knowledgeable of all policies and procedures.

Performed fuel usage studies and monitored loads daily on all equipment to optimize the grid and yield fuel savings.

Conducted root cause analysis to identify, isolate, and remediate ongoing and emergent equipment issues.

Alyeska Resort & The Hotel Alyeska **Utilities & Project Manager** Girdwood, Alaska 10/2015 – 03/2016

Managed electrical power generation and distribution, medium voltage, and auxiliary diesel generator maintenance for 10 hotel boilers directly supporting the hot water system for the resort. Provided project management oversight of two MT Gas Turbine 250kw generators. Directly supported resort electrical expansions and projects.

Centerra LLC **Utilities Manager** US Navy Support Facility Diego Garcia, BIOT 03/2015 – 08/2015

Managed electrical power generator, medium voltage, auxiliary diesel generator departments with an array of diverse equipment including opposed-piston engines synchronous generators, and solar water panels. Managed and developed plant budgets focused on controlling costs.

Successfully bid and received the award to overhaul 14 Fairbanks Morse generators with a total award of \$6.3M.

Developed a robust contingency plan while monitoring a diesel generator operation. Implemented progressive measures to achieve mobile generator capabilities. Trained and mentored power generation crews to maintain power generators and repair/replace them as needed.

Entege Engineering Technical Group **Delivery & Execution Project Manager - Strategic Accounts** Contracted to Cummins Power Generation Corp. New Hope, Minnesota | 03/2013 – 04/2014

Managed, developed, and implemented projects of varying complexity and size in the delivery of 643phase/60 Hz stationary diesel engine-driven electrical power generation systems into 4 data centers. Managed issues, scope, resources, and schedule. Created and executed communication plans for the unique needs of various stakeholders.

Fluor-FGG, Inc. **Power Generation Manager** US Army Sustainment Command FOB Salerno Afghanistan 01/2009 – 03/2013

Provided oversight at LOGCAP IV Task Order 05 for US Military Operations & Maintenance Support, power generation operations, and maintenance for AOR Salerno. Supervised power plant containing eight engine-driven electrical generators rated 2.5 MW power at 3-phase/60 Hz and associated electrical equipment and switchgear systems.

**Fluor-FGG, Inc (Continued)**

## Key Achievements:

Managed operations and maintenance of 1375 auxiliary diesel engine-driven electrical generators.  
Supervised and mentored 40 Third Country Nationals and 10 Expatriates in power generation and electrical roles.  
Provided oversight of environmental and safety programs.  
Reviewed engineering documents for proper construction standards, operating procedures, and code compliance.  
Achieved seamless installations and replacements by cultivating open and collaborative lines of communication

## Continued Employment

Power Generation Foreman | KBR FOB Orgun | Afghanistan | 03/2008 – 11/2009 O & M Supervisor | DynCorp International | Iraq & Afghanistan | 10/2006 – 03/2008 Power Generation Foreman | KBR | Camp Taji | Iraq | 03/2005 – 09/2006  
Power Generation Foreman | KBR | USMI Camp Babylon | Iraq | 03/2003 – 03/2005 Power Systems Superintendent | ITT Systems | Qatar | 01/2003 – 03/2003  
Maintenance Supervisor-EDG Services | Burns & Roe Service | US Naval Station Cuba | 01/2002 - 01/2003  
Power Plant Maintenance | Raytheon Range Systems | location | 02/2001 – 12/2001 Junior Engineering | Chevron Shipping Company & Tidewater Marine | Alaska | 1994 – 1998

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