

Amy Rainwater, PMP

President



30 YEARS EXPERIENCE

EDUCATION

B.S., Technical Management, DeVry University, 2015

United States Air Force Associate of Electrical Power Systems 1992-1996

Accomplished Project Management Professional (PMP) with extensive experience leading large strategic projects with complex scopes involving multidiscipline technology solutions. Decisive leadership with strategic planning and execution, including development of objectives, scopes of services, contracts, schedules, and budgets based on project-specific needs and client requirements. Creative problem solver skilled at building client confidence through use of new and innovative technologies and solutions. Highly developed and proven interpersonal skills in: managing relationships with clients, contractors, and internal project teams and support staff; providing supervision and mentoring; written and verbal communication. Collaborative motivator for process improvement with the ability to create, monitor and forecast project schedules and budgets, developing procedures for project staffing and execution, and possessing an understanding of the importance of managing these processes to the overall success of a project, client, and company.

REPRESENTATIVE PROJECT EXPERIENCE

Northern Indiana Commuter Transportation District (NICTD) South Shore Line Extension and Double Track Electric Facility Relocations – Northern Indiana Public Service Company (NIPSCO), Lake, Porter and LaPorte Counties, IN

In preparation for the new extension of NICTD's South Shore Line commuter rail in the West Lake Corridor, 7.8 miles of NIPSCO electrical facility relocations were required between Hammond and Dyer, IN. Similarly, in advance of installing a second set of tracks along 25 miles of NICTD's South Shore Line between Gary and Michigan City, approximately 700 electrical facility relocations were required. Ms. Rainwater managed this \$39MM effort (\$14MM for West Lake Corridor and \$25MM for Double Track) for NIPSCO, which required coordination and management of multiple subcontractors including NIPSCO engineering and construction contractors. The projects required public outreach as well as coordinating the work with other railroads, multiple municipalities, the National Parks Service, INDOT, NICTD and its design-build firm, other utilities, real estate acquisitions, material vendors, and legal teams. Project required management of project cost estimates, budget, schedules, contract administration, risk management action items, and safety concerns. Identified key project issues/problems and provided resolution. Established priorities and objectives to implement solutions in collaboration with a multifaceted, interdisciplinary team.

Veteran Administration Hospital Backup Power Plant – Fairbanks Morse, Houston, Texas

Successfully turned around a \$6MM project that was behind schedule. Through resourceful collaboration with the EPA regarding emissions permitting and control equipment exemptions for new emergency generators being installed at the facility's central utility plant, cut 6 months out of the schedule to deliver the product on schedule and budget.

EXPERTISE

Project/Program Management

Electrical Utility Infrastructure

- Transmission
- Substation Design (Greenfield) and Expansion (Brownfield)
- Distribution
- Testing and Commissioning

System Integration and Controls

Utility Systems Smart Technology Integration and Implementation

- Advanced Metering Infrastructure (AMI)
- Data/Telecommunications

Circuit Prioritization

- Volt/VAR Optimization (VVO)
- Distribution Automation Circuit Reconfiguration (DACR)

Industrial and Manufacturing Automation Applications

Emerging Technologies

Feasibility Studies

Renewable Energy

Energy Storage/Batteries

Smart City

- Street Lights
- Electronic Vehicle Supply Equipment (EVSE)
- IoT Integration

Low Energy Technologies

Project Controls

CERTIFICATIONS

Project Management Professional

PROFESSIONAL AFFILIATIONS

Project Management Institute (PMI)



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Emerging Technologies Program Management – Commonwealth Edison (ComEd) in collaboration with Illinois Institute of Technology, Oakbrook Terrace, Illinois

Responsible for business transformation and change management for a high-profile, clustered microgrid installation in the Bronzeville neighborhood of Chicago, Illinois. The microgrid includes integration of technologies in building energy management systems (BEM), automated control of grid functions, and distributed energy resources (DER) including solar and rolling power generation and battery energy storage systems (BESS). The Bronzeville Microgrid is the first utility clustered microgrid in the nation. This pilot is being conducted in close coordination with the Department of Energy and is expected to be the model for future similar projects throughout the United States. Coordinated interfacing between interutility groups to identify roles and responsibilities, including installation, testing and commissioning, operations/monitoring at the Operations Control Center, communication and IT, construction (including scheduled maintenance and unscheduled corrective actions), and training. As part of the program, was also responsible for implementing business transformation processes for other emerging technologies for utility operational readiness.

Advanced Metering Infrastructure (AMI) Management – American Electric Power (AEP), Columbus, Ohio

As the external AMI Program Manager, planned and initiated state-wide deployment of AMI system for over 750,000 meters. Managed team of AEP and internal Project Managers, Business Analysts, and Project Schedulers, with responsibilities to multiple groups within the utility as well as state utility commissions. Presented status to regulatory commission regarding adherence and timeline detailed in the original order approving the AMI project. Managed meter/network installation contractors with daily meetings to track and monitor production levels, safety, inventory, issues, and risks.

AMI and Distribution Automation Circuit Reconfiguration/Volt Var Optimization (DACR/VVO) Feasibility Studies – American Electric Power (AEP), Columbus, Ohio

Managed feasibility studies required by the Public Utilities Commission of Ohio to evaluate costs/benefits of the AMI program and DACR/VVO projects for Phases 2 and 3 of AEP's rollout of Smart Grid deployment in urban and rural areas throughout AEP's Ohio service areas, respectively. Feasibility studies evaluated options for AMI deployment to optimize customer and utility benefits versus communication infrastructure costs. For DACR, the studies: 1) evaluated the circuits that had been the worst performing in recent years in order to identify the circuits that would yield maximum customer reliability benefits; and 2) prioritize the DACR deployment to achieve the greatest outage improvement opportunity based on the System Average Interruption Frequency Index (SAIFI) and System Average Interruption Duration Index (SAIDI) to minimize the overall customer-minutes of interruption (CMI). Lastly, the studies evaluated peak power (megawatt) and energy (megawatt-hour) demands and the costs/benefits of VVO deployment with respect to customer bill savings attributable to energy/capacity savings and air emission benefits from the program resulting from any VVO efficiency gains.

Distribution Engineering Program Management – ComEd, Oakbrook Terrace, Illinois

Developed and managed program of startup contracts to deliver over \$8MM in electrical distribution system design work and testing and commissioning services. Reviewed 80 plus scope statements regarding Distribution Automation (DA), Energy Infrastructure Modernization Act (EIMA), and summer critical projects for both overhead and underground infrastructure. Program manager for concurrently delivering over 60 distribution engineering projects totaling over \$1.2 MM in engineering, utilizing cross-functional teams and tight budgets. Developed process flow for project design to enable staff to efficiently complete projects from inception to conclusion in an effort to deliver high quality, economical designs.

Substation Project Manager – CenterPoint Energy, Houston, Texas

Managed multiple projects with various scopes and budgets. Projects included multiple site engineering and coordination efforts, as well as budgets in excess of \$10MM. Monitored project health through budget and schedule monitoring. Created status reports utilizing earned value metrics. Project and Construction Management of CenterPoint Energy's first EPC (engineering, procurement, construction) project for a substation expansion for additional feeders, control house upgrades and bus expansion and reconfiguration.