

Request for Proposals

ELECTRICAL, INSTRUMENTATION, AND CONTROL SYSTEM SERVICES



RFP #230139-P-AS

SUBMITTED TO:

CITY OF TARPON SPRINGS

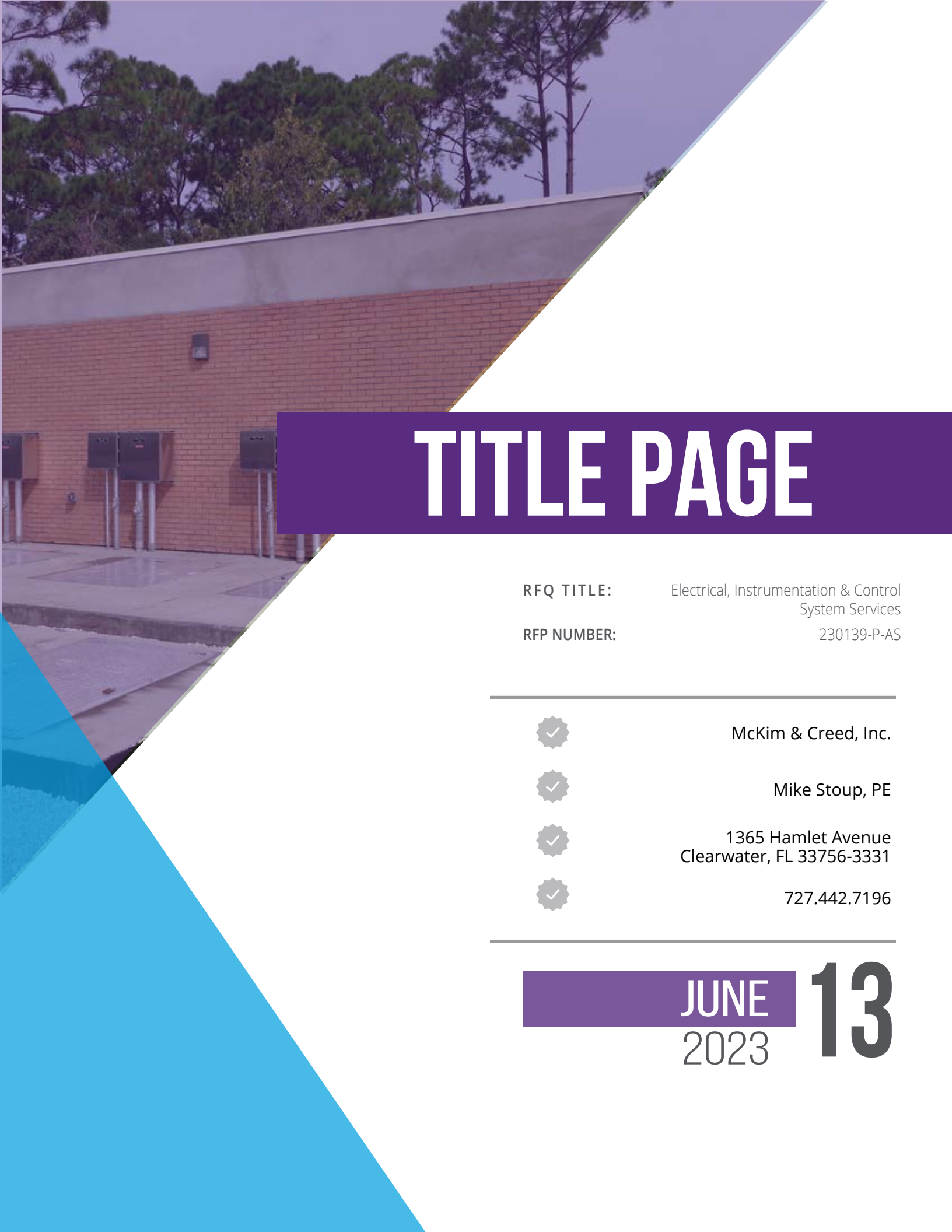
Tarpon Springs, Florida

SUBMITTED BY:

MCKIM & CREED

Clearwater, Florida

 **MCKIM & CREED**
ENGINEERS SURVEYORS PLANNERS



TITLE PAGE

RFQ TITLE: Electrical, Instrumentation & Control System Services

RFP NUMBER: 230139-P-AS



McKim & Creed, Inc.



Mike Stoup, PE



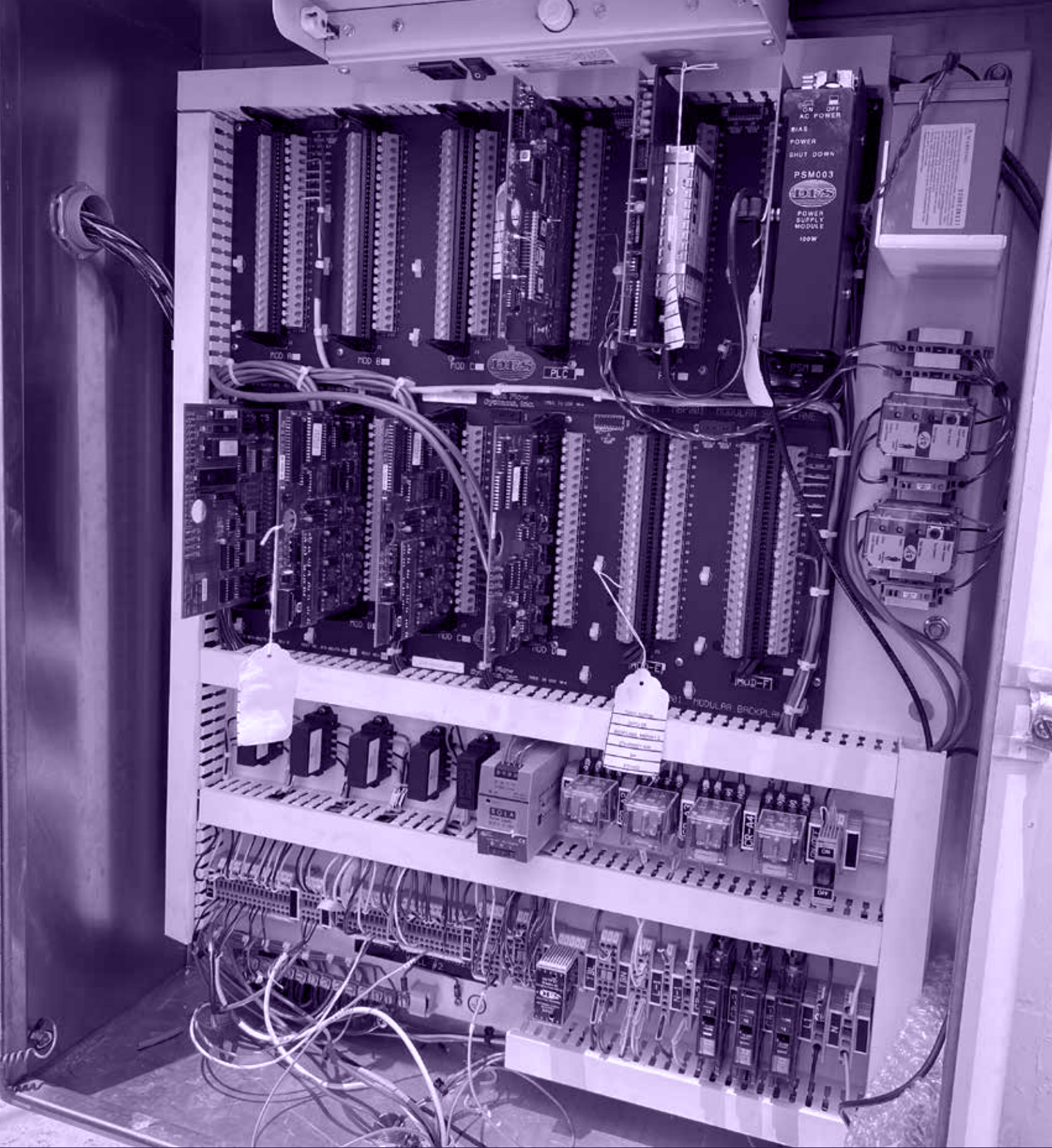
1365 Hamlet Avenue
Clearwater, FL 33756-3331



727.442.7196

JUNE
2023

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TAB 1: TRANSMITTAL LETTER

June 13, 2023

City of Tarpon Springs
Procurement Services Department
324 E. Pine St
Tarpon Springs, Florida 34689



RE: RFP # 230139-P-AS: Electrical, Instrumentation, and Control System Services

Dear Members of the Selection Committee:

The McKim & Creed team is grateful for the opportunity to be considered for this important contract and looks forward to continuing to serve the City of Tarpon Springs.

PHILOSOPHY OF PLAY / With our business mission of “People Helping People Achieve Their Goals and Dreams,” we always put our clients’ needs first. We pursue this by comprehending your issues, challenges, and requirements. We recognize the value and relevance of maintaining working electrical systems and an up-to-date SCADA system. As a utility, consistent power and an up-to-date SCADA system are required to power, monitor, and manage the processes. A coordinated system that integrates data from power systems and plant SCADA systems saves time and allows operators to focus on more critical activities.

TEAM QUALIFICATIONS / The electrical and instrumentation (E&I) Group at McKim & Creed consists of 28 engineers, designers, programmers, integrators, and field administrators. We can also combine these resources with those of our internal IT department and our subcontractor OT Overwatch to secure the security of your utility system. We have over 150 years of combined experience with electrical and SCADA systems in municipal and industrial industries. We employ ten licensed professional engineers with licenses in more than 15 states. Our team’s expertise includes critical specialty services such as IT resources, electrical engineering assistance, and MEP design.

EXPERIENCE & KNOWLEDGE / McKim & Creed, founded in 1978, provides a comprehensive range of engineering, surveying, and planning services. Electrical engineering, SCADA system design, PLC programming, SCADA HMI configuration, IT networks and cybersecurity, water and wastewater process planning and design, electrical and site/civil engineering, landscape architecture, structural engineering, and surveying specialties are among the firm’s core competencies.

FOR OUR ORGANIZATION, SCADA IS NOT SECONDARY, BUT RATHER OUR PRIMARY FOCUS.

Our team has extensive experience ranging from standard design engineering to master planning investigations. This is supplemented by considerable experience in PLC, HMI, and related software development, network communications, system integration, instrument calibrations, and plant control system starting and conversions. The municipal water and wastewater industry is where McKim & Creed’s SCADA expertise shines.

UNDERSTANDING OF THE SCOPE / We understand the necessity to keep operations running, and we have vast expertise in upgrading electrical and control systems to meet these needs. We understand the selected consultant will get individual work orders on an ongoing basis to offer electrical and SCADA planning, design, and integration at City facilities under this contract. We will also be able to help with networking issues, cybersecurity concerns, and process enhancements thanks to our enhanced in-house expertise.

Sincerely,

McKim & Creed, Inc.

Mike Stoup, PE
Project Manager

Mike Stoup, PE
Project Manager

1365 Hamlet Avenue
Clearwater, FL 33756-3331
727.442.7196
mstoup@mckimcreed.com



2023 OFFICER LIST

<u>Titles of Officers</u>	<u>Names</u>	<u>Business Street Address</u>	<u>City</u>	<u>State</u>	<u>Zip</u>
Chief Financial Officer	Chris Nelson	1731 Varsity Drive, Suite 500	Raleigh	NC	27606
President & CEO	A Street Lee	1365 Hamlet Avenue	Clearwater	FL	33756
Chairman of the Board	John Lucey	242 North Front Street	Wilmington	NC	28401
Director and Secretary	Herbert P. McKim, Jr.	243 North Front Street	Wilmington	NC	28401
Director	Mark Mulhern	1730 Varsity Drive, Suite 500	Raleigh	NC	27606
Director	Ken Garcia	1730 Varsity Drive, Suite 500	Raleigh	NC	27606
Director	Paula Sims	1730 Varsity Drive, Suite 500	Raleigh	NC	27606
Director	Jeanne Cormier	1730 Varsity Drive, Suite 500	Raleigh	NC	27606
Senior Vice President Geomatics	David L. Jones	242 North Front Street	Wilmington	NC	28401
Senior Vice President Geomatics	Tom Ruschkewicz	8868 Research Blvd	Austin	TX	78758
Senior Vice President	Matthew Daves	1730 Varsity Drive, Suite 500	Raleigh	NC	27606
Senior Vice President	Grant Livengood	1730 Varsity Drive, Suite 500	Raleigh	NC	27606
Vice President	John D. Thompson	243 North Front Street	Wilmington	NC	28401
Vice President	Tim VanGelder	1730 Varsity Drive, Suite 500	Raleigh	NC	27606
Vice President	Tony Boahn	243 North Front Street	Wilmington	NC	28401
Vice President	Donald Pettigrew	8020 Tower Point Drive	Charlotte	NC	28227
Vice President	Tom Lawry	2593 Wexford Bayne Rd., Suite 306	Sewickely	PA	15143
Vice President	Robert Garland	551 North Cattlemen Rd	Sarasota	FL	34232
Vice President	Edward Pollard	1730 Varsity Drive, Suite 500	Raleigh	NC	27606
Vice President	Glenn Halstead	1206 N. Palafox St	Pensacola	FL	32501
Vice President	Patrick Jehle	1206 N. Palafox St	Pensacola	FL	32501
Vice President	Chris Martin	1730 Varsity Drive, Suite 500	Raleigh	NC	27606
Vice President	Mike Stoup	1365 Hamlet Avenue	Clearwater	FL	33756
Vice President	Barry Hales	243 North Front Street	Wilmington	NC	28401
Vice President	Glenn Shaheen	1022 Purpera Avenue	Gonzales	LA	70737
Vice President	Daniel Keck	1365 Hamlet Avenue	Clearwater	FL	33756
Vice President	Christopher Bosshart	3903 Northdale Blvd. Suite 115E	Tampa	FL	33624
Vice President	Richard Dorr	9960 West Sam Houston Parkway	Houston	TX	77099
Vice President	William Wudte	551 North Cattlemen Rd	Sarasota	FL	34232
Vice President	James Rudd	370 N. Louisiana Ave.,	Asheville	NC	28806
Vice President	Brad Palmisiano	300 Bilmar Drive	Pittsburgh	PA	15205
Vice President	John Reese	300 Bilmar Drive	Pittsburgh	PA	15205
Vice President	Gregory Schmidt	12718 Century Dr.	Stafford	TX	77477
Vice President	Brian Nesvadba	12718 Century Dr.	Stafford	TX	77477
Assistant Vice President Engineering	Charles Hill	1901 Mason Avenue, Suite 102	Daytona Beach	FL	32117
Assistant Vice President Engineering	Richard Collier	243 North Front Street	Wilmington	NC	28401
Assistant Vice President Engineering	Emmett Anderson	4720 Salisbury Road, Suite 117	Jacksonville	FL	32256
Assistant Vice President Engineering	Bob Huffmyer	2593 Wexford Bayne Rd, Ste 306	Sewickley	PA	15143



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TAB 3: PRICE



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TAB 4: PREVIOUS EXPERIENCE



1 AS-NEEDED INSTRUMENTS, SCADA, PLC'S, ELECTRICAL AUDIT
TARPON SPRINGS, FL

McKim & Creed worked closely with the City of Tarpon Springs to provide comprehensive support for I&C and electrical systems, focusing on Citect before the conversion of VTScada, VTScada after the conversion, and Allen-Bradley PLCs. McKim & Creed assisted with their communication systems for their remote sites and provided instrumentation calibration for DEP compliance. McKim & Creed worked closely with the City of Tarpon to improve the control systems and optimize their water and wastewater treatment processes. The enhancements have increased efficiency and improved both performance and regulatory compliance for the facilities.



KEY HIGHLIGHTS

- + Citect to VTScada Conversion
- + Process Optimization
- + Fast Response with all requests
- + PLC code enhancements

PROJECT DETAILS

OWNER
 Tarpon Springs, FL
 Raymond Page
 Utilities Superintendent
 rpage@ctsfll.us
 727.224.3024

LOCATION
 Tarpon Springs

PROJECT DATES
 2018 - Present

PROJECT COSTS
 \$760,000

SERVICES PERFORMED
 SCADA Cybersecurity Audit
 Field Research
 Final Report

PROJECT TEAM

- ▶ Mike Stoup, PE
- ▶ Eric Brown
- ▶ Flavio Velecela, EI
- ▶ Ian Ott
- ▶ Jon Van Waardhuizen
- ▶ Adam DiRienzo



2 MASTER PLAN – PLANNING, VISION, PLC’S, SCADA, MCC’S, BACKUP GENERATION TARPON SPRINGS, FL

McKim & Creed provided a thorough review and evaluation of the electrical and I&C systems for the City of Tarpon Springs. Evaluations included the power distribution and backup generation gear at both facilities and the remote pumping stations, as well as a complete review of the SCADA and PLC systems. The network switches and connectivity were also reviewed for the SCADA network as part of the plan to identify any cybersecurity issues. Telemetry options to add redundancy were evaluated due to the risk Florida has for hurricanes. All findings were assembled into a technical memorandum including recommendations for improvement. Project profiles were developed including scopes, budget estimates, and priority of execution were included in the report to assist the City with CIP planning.

KEY HIGHLIGHTS

- ➕ Identified Obsolete Equipment
- ➕ Road Map for Electrical Upgrades
- ➕ Future CIP Planning

PROJECT DETAILS

OWNER

Tarpon Springs, FL
Thomas Kiger, P.E.
Assistant Public Services
Director
727-942-5616 Ext. 2300

LOCATION

Tarpon Springs

PROJECT DATES

2022-2023

PROJECT COSTS

\$79,054

SERVICES PERFORMED

SCADA Cybersecurity Audit
Field Research
Final Report
CIP Project Recommendations

PROJECT TEAM

- ▶ Mike Stoup, PE
- ▶ Eric Brown
- ▶ Chris Anderson
- ▶ Suvath Seng
- ▶ Brian Thorniley, PE
- ▶ Mike Fadini, PE





3 SCADA SYSTEM CYBERSECURITY AUDIT CHARLOTTE COUNTY

Charlotte County Utilities (CCU) recognized they could be a more mature security organization. They engaged McKim & Creed and Crimson Resolve for a supervisory control and data acquisition (SCADA) System Cybersecurity Audit. Our team identified several architectural issues and firewall misconfigurations that could allow threat actors to gain access to both the IT and OT networks. Additionally, we upgraded several Internet discoverable and accessible devices to newer models, making them not visible via the internet.

During our audit, CCU acted very quickly to remediate issues upon discovery, such as disabling several insecure protocols such as SMBv2 and NetBIOS. Our team identified the protocols and improperly configured Business Modems, then corrected the configurations and mitigated the protocols.

The County's SCADA network hardware, configurations and policies were reviewed as well as their PLC hardware to ensure the most recent firmware versions were in use. A more comprehensive network audit was also performed to provide recommendations for improved security. Primary items audited were the SCADA facility and remote communication networks, network architecture, remote access, and the current backup and disaster recovery plan. A roadmap to Maturity was prepared to give the County guidance for moving the organization towards a high level of security maturity.

Charlotte County Utilities improved its security posture significantly and provided a roadmap for future maturity due to the attention given by the McKim & Creed and Crimson Resolve Team.

KEY HIGHLIGHTS

- + Rogue Device Removal
- + Internet Visible Exploitable Firewalls Found/Replaced
- + Unknown Network found with no ownership
- + Roadmap to architectural maturity reported

PROJECT DETAILS

OWNER

Charlotte County
Bryan Hatfield
Project Manager
Bryan.Hatfield@charlottecountyfl.gov
941-764-4385

LOCATION

Port Charlotte

PROJECT DATES

2020-2021

PROJECT COSTS

\$140,384

SERVICES PERFORMED

SCADA Cybersecurity Audit
Field Research
Final Report

PROJECT TEAM

- ▶ Mike Stoup, PE
- ▶ Eric Brown
- ▶ Robert Burney





4 AS NEEDED – SERVER, NETWORKS, INSTRUMENTS, PLC'S, SCADA CHARLOTTE COUNTY

McKim & Creed worked closely with Charlotte County to provide comprehensive support for I&C and electrical systems, focusing on Wonderware before the conversion of VTScada, VTScada after the conversion, and Allen-Bradley PLCs. McKim & Creed assisted the County with its OT network and supported the IT Department when needed. As part of this contract, we provided emergency repair services to minimize downtime and prevent disruptions to the treatment processes. We installed new instrumentation and electrical equipment as required for system expansion or replacement; implemented upgrades and retrofits to enhance the performance, reliability, and efficiency of existing systems; ensured seamless integration of new equipment with the client's current infrastructure; and assisted with the commissioning and startup of the upgraded systems.



KEY HIGHLIGHTS

- + PLC Troubleshooting
- + SCADA Enhancements
- + Process Optimization
- + OT Network Assistance

PROJECT DETAILS

OWNER

Peter Giannotti
I&C Supervisor
Peter.Giannotti@charlottecountyfl.gov
941-626-0013

LOCATION

Port Charlotte

PROJECT DATES

2019-Present

PROJECT COSTS

\$232,000

SERVICES PERFORMED

PLC Programming
Wonderware / VTScada
Programming
Networking

PROJECT TEAM

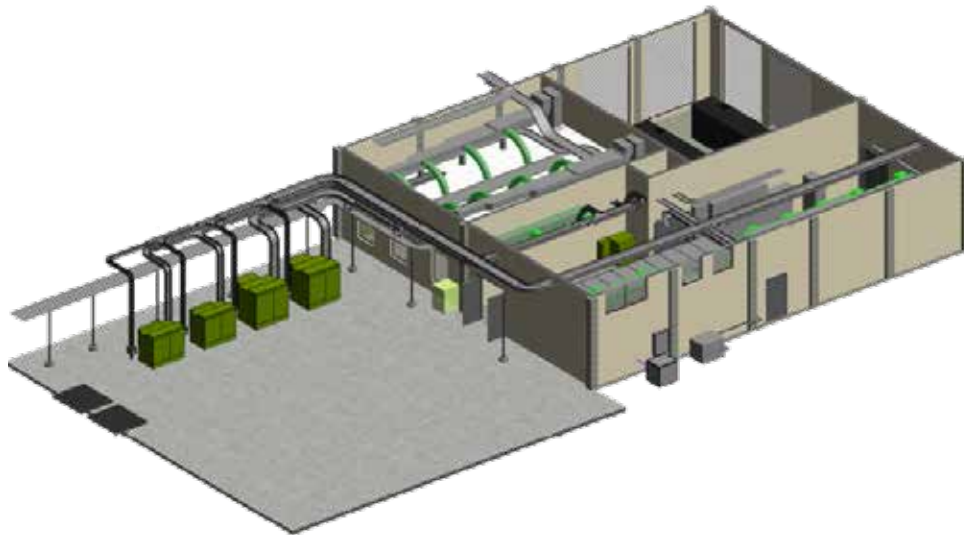
- ▶ Eric Brown
- ▶ Flavio Velecela, EI
- ▶ Brian Thorniley, PE
- ▶ Ian Ott
- ▶ Jason Burnett





5 MANATEE SSWRF POWER UPGRADE – POWER DISTRIBUTION, MCC’S, BACKUP GENERATION MANATEE COUNTY

McKim & Creed provided design and construction of various electrical improvements at the Manatee County Southwest Water Reclamation Facility. The project included the replacement of medium voltage switchgear into a new climate-controlled room and replacing and reconfiguring six (6) existing substations with the creation of a new Florida Power and Light Transformer Vault. The project included I&C implementation of the electrical equipment in the facility’s SCADA system and upgrading its obsolete PLC.



KEY HIGHLIGHTS

- ⊕ Design Build Construction
- ⊕ Advanced Protection Relays to Mitigate Arc Flash
- ⊕ Advanced Power Quality Monitoring
- ⊕ Reduction of Heat Loading

PROJECT DETAILS

OWNER

Wharton-Smith
Helia Baxley
Project Manager
HBaxley@whartonsmith.com
813-369-8681

LOCATION

Bradenton, FL

PROJECT DATES

2021-2023

PROJECT COSTS

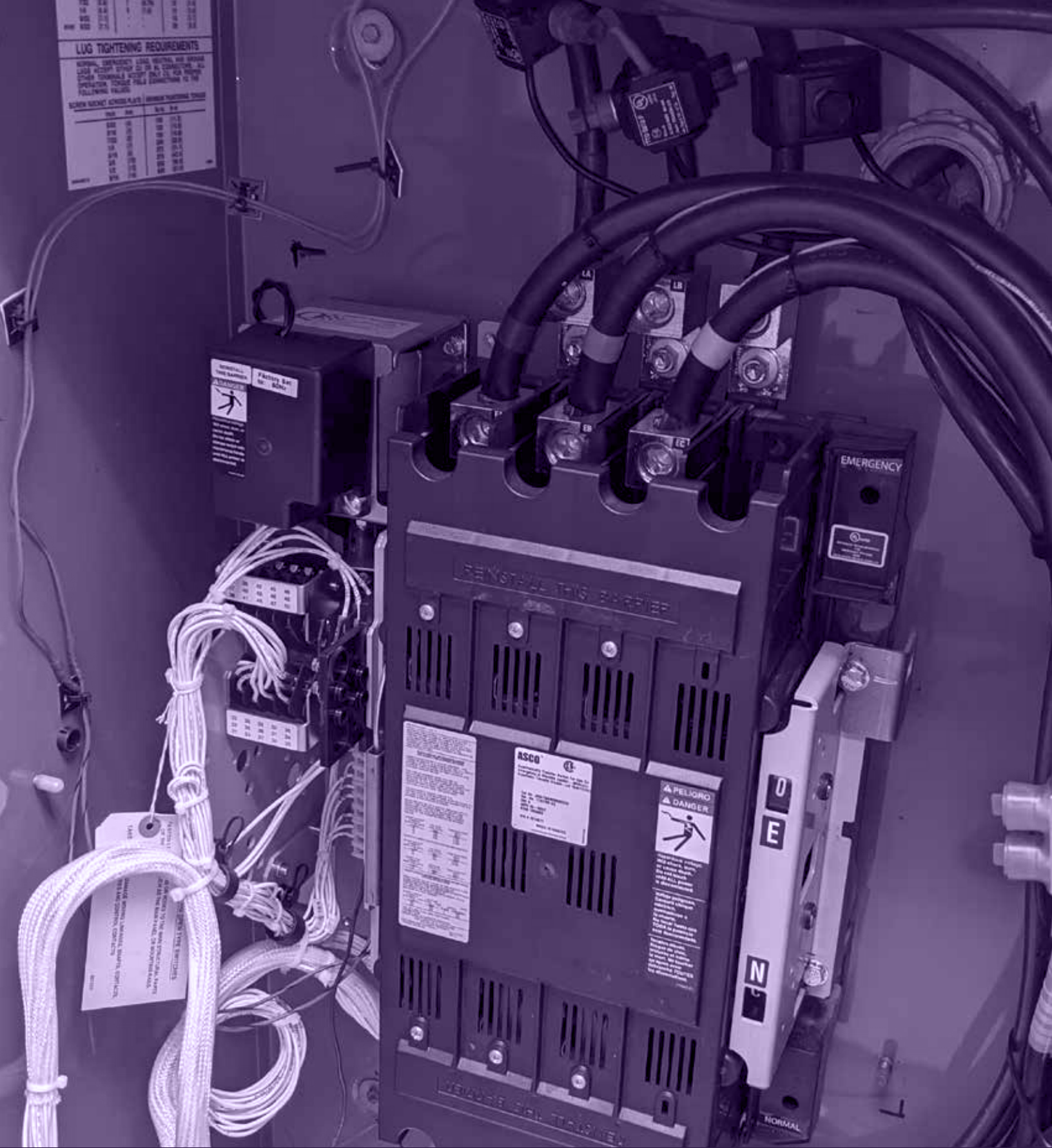
\$854,694.75

SERVICES PERFORMED

Medium Voltage Design
I&C Implementation
Construction Services

PROJECT TEAM

- ▶ Aubrey Haudricourt, PE
- ▶ Mike Tweedel, PE
- ▶ Eric Brown
- ▶ Suvath Seng, EI
- ▶ Laurel Smith, PE
- ▶ Mike Stoup, PE
- ▶ David Stoner, EI



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TAB 5: ABILITY OF FIRM TO PERFORM

5 ABILITY OF FIRM TO PERFORM

McKim & Creed has years of experience with the City of Tarpon Springs' SCADA systems and decades of experience with electrical and SCADA systems throughout the Southeast US. Our scope of services ranges from equipment evaluation, initial conceptual design, detailed design, programming, commissioning, construction administration, and cost estimating. Our staff is trained and located to provide exemplary service to the City of Tarpon Springs for all of their electrical and SCADA needs.

McKim & Creed's E&I Group is comprised of 28 engineers, designers, programmers, integrators and field administrators. Collectively we have over 150 years of experience with electrical and SCADA systems in the municipal and industrial markets. We have ten licensed professional engineers on staff that hold licenses in over 15 states.

We will service this contract from our E&I Group's Clearwater, FL office where we have 16 engineers, designers and programmers. Eric Brown, our Florida I&C Manager, lives less than two miles from the Tarpon Springs Wastewater Treatment Plant and will be available for support and project for the City.

We are proficient in the following hardware, software, and communication networks:



HARDWARE

Allen-Bradley PLC5, SLC-500, MicroLogix, CompactLogix and ControlLogix

Schneider SCADAPack, M340 and M580

Modicon Quantum

Siemens S5 Series and S7 Series

GE 9030 and RX3i

Automation Direct PLCs

Data Flow Systems (DFS)



SOFTWARE

Trihedral VTScada

Schneider Electric Citect

Wonderware InTouch and System Platform

Rockwell FTViewSE and FTViewME

GE Intellution and iFix

Induction Automation Ignition

Data Flow Systems (DFS)



COMMUNICATION

Ethernet

Ethernet I/P

Modbus

Modbus TCP

DNP3

Fiber Optic Networks including both single-mode and multi-mode

Licensed and Unlicensed Radio Frequencies

Cellular

WE ALSO HAVE EXTENSIVE PROCESS EXPERIENCE IN ALL AREAS OF THE WATER AND WASTEWATER FIELD INCLUDING:

- » Water Plant Processes
- » Wastewater Plant Processes
- » Well Field Processes
- » Surface Water Applications
- » Sewer Pump Station Processes
- » Stormwater Pumping
- » Sluice Gate Control



CONTROL AND AUTOMATION EQUIPMENT AND METHODS:

- » Remote Telemetry Devices and Systems
- » Data Flow Systems (DFS)
- » Integrating OEM packages into overall plant systems
- » Green field design of new plants or plant expansions
- » Upgrade designs of plant control systems
- » Cloud-hosted HMI solutions
- » Virtualized server solutions

ELECTRICAL AREAS OF EXPERTISE:

- » Power distribution design — 15kv and below
- » Transformers, automatic transfer switches, redundant busses
- » Utility service and coordination
- » Backup & emergency generation
- » Grounding, lighting, lightning protection
- » Fire systems
- » Master planning
- » Asset inventory and evaluation
- » Arc flash studies and labels

CYBERSECURITY

McKim & Creed also brings extended services with us to this contract for IT services, Cybersecurity experience and knowledge of the Tarpon Springs processes. SCADA, IT and plant processes are all inter-related and the firm that can speak all three languages and interconnect them in design and application will produce a more well-rounded project solution. Sean Bolster is a member of our internal IT Group and will be available to the City for networking design and configuration support. Sean lives in Spring Hill, FL and works in the Tampa and Clearwater offices. Robert Burney, a subcontractor to us from Overwatch OT, lives in Sarasota and has extensive experience with Cybersecurity. He has worked with McKim & Creed and the City in the recent past to audit the cybersecurity profile and prepare a path towards a more mature system. He will work with our local SCADA resources to lead the City through the risk assessment and mitigation strategies to ensure a secure system.

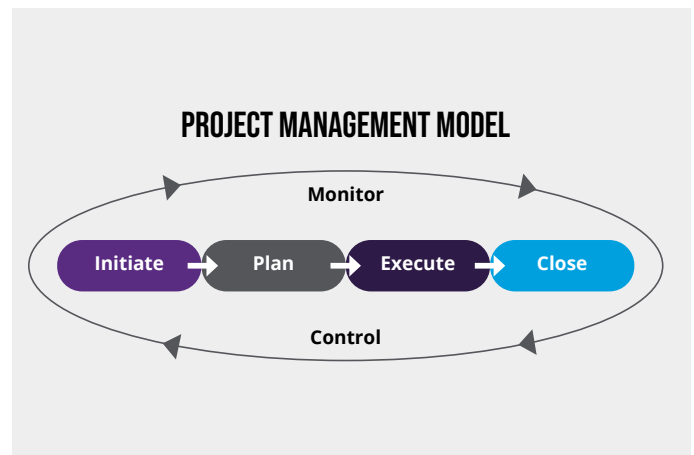
While having all of this experience, knowledge and capabilities internally is important, without solid project management we cannot execute successful projects.

ADDITIONAL SERVICES:

- » Conceptual Design and Scope Development
- » Engineering Design and RFP Development
- » Support through bidding and award of integration
- » Development of PLC and HMI programs and integration
- » Design/Build solutions
- » Construction Administration
- » Construction Management
- » Field Investigation
- » As-Built documentation development
- » Panel fabrication
- » Field installation
- » System check-out, startup and commissioning
- » Training and O&M Manual Development

The City of Tarpon Springs can continue to depend on the McKim & Creed E&I team as they have since 2007.

McKim & Creed at its core is a professional engineering consultant firm and brings to every project our formal project management program. eTOPS (Electronic Threshold Operating Procedures and Standards) is closely woven into the fabric of the company and provides a sound, proven project management approach to ensure success.





Our method to managing and completing this project will include developing the scope, timeline, and fees, forecasting manpower, allocating resources, quality control, and reporting project progress. Where applicable, our scope creation approach involves research of current stations, interviews with key employees, and the application of years of industry experience. Internally, draft scopes are examined by top management before being given to the City for evaluation and discussion, with the final scope being the result. The project manager and/or project engineer assigned to the project develop the schedule and fees. Schedules and fees are created utilizing a work breakdown structure (WBS) approach, in which the project is divided into smaller jobs with their own costs and dates. Prior to submission, all schedules and fees are checked by higher management.

Team members are assigned to each project depending on technical needs, availability, and project timeline. Tasks are assigned based on team member experience and capability, and younger staff members work under the supervision and direction of senior staff members.

Each project begins with a kick-off meeting attended by the City, McKim & Creed, and suitable subcontractors. A communication plan is prepared after reviewing the safety program, scope, schedule, and budget. All projects have a purpose, which is frequently lost during the RFP and solicitation phases. We believe it is critical to discuss the project purpose during the kick-off meeting so that we completely comprehend the project's aim, not just the written scope. This technique frequently leads to value engineering opportunities that would otherwise be overlooked or ignored.

Projects are carried out using both internal McKim & Creed project management methods and industry-standard project management processes. Using both of these ensures a solid, well-rounded management strategy and a successful project. Throughout the length of the project, regular project meetings are held both internally and with the City. A single point of contact, usually the project manager, is designated. A formal QA/QC process that involves peer review and project engineer/manager evaluation is used to assess all submittals. Electronic and/or textual comments are recorded and included into the final submittal, depending on the submittal being authorized. These

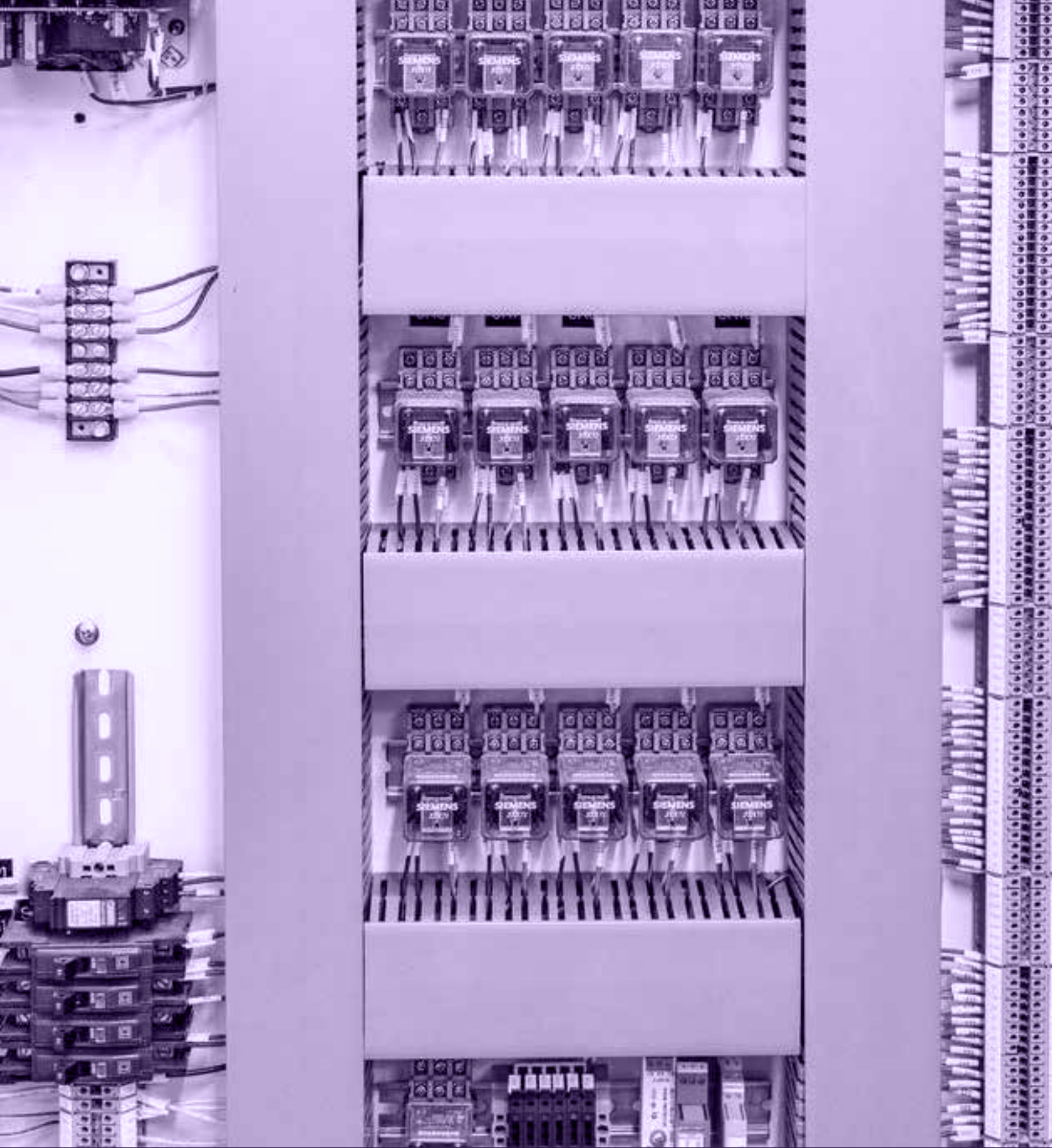
comments are saved for further consideration as part of the QA/QC process. These reviews are performed and approved by successively higher-level people to guarantee that both the tiniest detail and the general goal of the design scope are accomplished.

Our considerable experience in the municipal sector has taught us the value of public safety and service. Every project undertaken by a municipality has the public as its ultimate client, and the project's performance is inversely proportional to its influence on the community. When carrying out projects, visually beautiful installations that do not disrupt public activities, the reduction or removal of environmental consequences, as well as thoughtful work schedules and alternatives to reduce noise and air pollution, are all priorities. Involving public and municipal project resources in project planning reduces the impact on the community and adds to a successful project. McKim & Creed has the experience required to detect and resolve possible challenges through the use of innovative concepts and methodologies.

McKim & Creed has had a fruitful 15-year collaboration with the City of Tarpon Springs. Our team designed a large portion of the SCADA system and was significantly involved in its installation. We recently completed a master plan for your electrical and SCADA systems to assist you in creating a vision for the future, and in the process, we got an extensive understanding of your plants. We will apply this knowledge and experience to improve plant operations by improving the process via SCADA data gathering and analysis. Our IT Group and Cybersecurity experts will collaborate with City staff to integrate the controls and city networks in a secure and easy-to-maintain manner.

McKim & Creed is one of the few firms that has worked on Data Flow Systems (DFS) and has merged their hardware and software into other SCADA systems. We have integrated data collecting and control with DFS systems at your site, as well as those in Manatee County, Charlotte County, Palm Coast, the City of Clearwater, Citrus County, and Marion County.

McKim & Creed is the apparent choice as the best firm for this contract based on its proximity to the City, knowledge of the City's systems and processes, and ability to provide in-house IT and Cybersecurity support. We are excited to work with the City again.



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TAB 6: QUALIFICATIONS OF KEY PERSONNEL








6 QUALIFICATIONS OF KEY PERSONNEL

Backed by more than 40 years of industry experience, the instrumentation, controls and electrical professionals at McKim & Creed know and understand water and wastewater operations and the processes that control them. Through our approach of collaborative teamwork, outstanding engineering design, seamless system integration, thorough training and ongoing support, we plan, design, and implement in-plant and system-wide SCADA / I&C systems and in-plant power distribution systems that enable utilities to operate efficiently, effectively and safely.

To strengthen our team even further, we have added Robert Burney, with Overwatch OT as a subcontractor. Robert is located in Sarasota, FL and has extensive experience with Cybersecurity. He has worked with McKim & Creed and the City recently to audit the cybersecurity profile and prepare a path toward a more mature system. He will work with our local SCADA resources to lead the City through risk assessment and mitigation strategies to ensure a secure system.

Below is a table that highlights our proposed team, their office locations, years of experience and their areas of technical competency highlighted in the RFP. In addition, full-page resumes have been included for our **KEY STAFF** identified to the right.

KEY PERSONNEL:

-  Mike Stoup, PE
-  Eric Brown
-  Flavio Velecela, EI
-  Ian Ott
-  Adam DiRienzo
-  Laurel Smith, PE
-  Mike Fadini, PE

TEAM'S TECHNICAL COMPETENCY

Table 1 | Team's Experience, Location & Technical Competency

Name	Location	Years Experience	TEAM'S TECHNICAL COMPETENCY					
			SCADA	ELECTRICAL	GE POWER DISTRIBUTION	MOTOR CONTROL CENTER EQUIPMENT	SERVER + NETWORKING	CYBERSECURITY
Mike Stoup, PE	Clearwater, FL	28	●	●		●	●	●
Eric Brown	Clearwater, FL	29	●	●	●		●	●
Mike Fadini, PE	Clearwater, FL	36		●	●	●		
Brian Thorniley, PE	Clearwater, FL	32	●	●		●	●	
Laurel Smith, PE	Clearwater, FL	8		●	●	●		
Suvath, Seng, EI	Clearwater, FL	6		●	●	●		
Ian Ott	Clearwater, FL	13	●				●	●
Adam DiRienzo	Clearwater, FL	12	●				●	●
Jon Van Waardhuizen	Sarasota, FL	2	●				●	
Jason Burnett	Sarasota, FL	15	●				●	●
David Stoner, EI	Clearwater, FL	3		●	●	●		
Chris Anderson	Clearwater, FL	21		●	●	●		
Regina Sandbach	Clearwater, FL	12		●		●		
Dan Cox, PE	Clearwater, FL	13		●	●	●		
Flavio Velecela, EI	Clearwater, FL	24	●			●	●	●
Sean Bolster	Tampa, FL	16					●	●
Chris White	Clearwater, FL	26	●			●	●	
Sterling Graham	Clearwater, FL	12		●	●	●		
Robert Burney	Sarasota, FL	16					●	●



Mike Stoup, PE

PROJECT MANAGER

QUALIFICATIONS

- + Team management
- + Extensive E&I experience
- + Knowledge of available technology
- + Focus on practical application of automation

EDUCATION

B.S., Electrical Engineering, University of South Florida

LICENSURE

Professional Engineer, FL #65702

Professional Engineer, LA, TX, NC

AFFILIATIONS

FS-AWWA Information Systems Division Chair

FS-AWWA Automation Past Committee Chair

ISA Tampa Chapter Past Vice President & Past Program Chair

MILITARY SERVICE

Air Defense Crewman, US Army, 1985-89

Mike's career spans over 28 years of planning, design, implementation and management of SCADA system and process instrumentation and controls projects in the industrial and municipal marketplace. He offers extensive experience in the areas of project management, QA/QC, control system planning and design, PLC and HMI software implementation, communications and network planning and control systems implementation. His system hardware and software knowledge extends to platforms provided by VTScada, Allen Bradley/Rockwell, Schneider Electric, Trihedral, Inductive Automation and Wonderware software.

► Project Experience

SCADA Modernization | Virginia Beach, VA: Project Manager. McKim & Creed worked with Virginia Beach and the contractor to put together a comprehensive plan to upgrade 450 stations while continuing to provide uninterrupted services to the residents and businesses of Virginia Beach. This plan included the offline testing of each component of the system prior to deployment to the field to ensure minimum downtime. Virginia Beach Operations was included in the plan development so they could make system configuration changes to maintain service during the upgrade outage.

HMI Evaluation and Recommendation | Hillsborough County | Tampa, FL: Project Manager. The McKim & Creed team evaluated six different SCADA Human Machine Interface (HMI) software platforms and submitted an evaluation report of the findings with recommendations to Hillsborough County. The evaluation was performed to provide the County with a basis for determining if an upgrade to its HMI software is required, and which of the available software platforms would best support the County's management of its water and wastewater utilities.

Charlotte County SCADA Master Plan | Charlotte County, FL: QA/QC Manager. Charlotte County enlisted McKim & Creed to develop a SCADA master plan that acts as a detailed roadmap to the County for enacting SCADA system improvements. Our team's scope of work included five key elements: project management, goals/objectives workshops, system data collection, information analysis and development of the master plan document.

FMS Phase II SCADA Server Split and Rebuild | Hillsborough County, FL: Project Manager. McKim & Creed was selected to create a single Citect HMI application with four separate clusters (FMS, FMSN, FMSC and FMSS) for the Northwest pumps, BSOC and South County AWTP Citect application zones. This single application was loaded on each of the three sets of redundant server pairs.

WWTP SCADA Upgrade Evaluation | City of Inverness | Inverness, FL: Principal. McKim & Creed provided professional engineering services to replace the aging SCADA system at the City's wastewater treatment plant with a VTScada HMI. The scope of work included onsite programming and configuration work to stabilize the old system while upgrades were accomplished.



Eric Brown

ASSISTANT PROJECT MANAGER

QUALIFICATIONS

- + Project Management
- + SCADA
- + HMI
- + PLC Programming
- + Electrical Circuits and Design
- + Electrical Control Panel Design
- + Communications
- + Networking

EDUCATION

B.S.E.E Electrical Engineering, University of South Florida

A.S. Computer and Electrical Engineering, Tampa Technical Community College

A.A. General Studies, Saint Petersburg College

CERTIFICATIONS

- VTScada
- Wonderware System Platform
- Wonderware Intouch
- Wonderware Historian

Eric offers over 28 years of experience in designing, building and installing hardware and software for SCADA applications in the wastewater and water industries. Mr. Brown is well-versed in PLC programming using Siemens, Emerson, Schneider Electric, GE, Automation Direct and Allen Bradley applications and has experience with numerous SCADA related Human Machine Interface (HMI) software packages including VTScada, Wonderware, CitectSCADA, VTScada, Rockwell FactoryTalk, and iFix.

► Project Experience

As-Needed - Instruments, SCADA, PLC's, Electrical gear | Tarpon Springs, FL:

Project Manager. McKim & Creed worked closely with the City of Tarpon Springs to provide comprehensive support for I&C and electrical systems, focusing on Citect before the conversion of VTScada, VTScada after the conversion, and Allen-Bradley PLCs. McKim & Creed assisted with their communication systems for their remote sites and provided instrumentation calibration for DEP compliance. McKim & Creed worked closely with the City of Tarpon to improve the control systems and optimize their water and wastewater treatment processes. The enhancements have increased efficiency and improved both performance and regulatory compliance for the facilities.

Charlotte County SCADA Master Plan | Charlotte County, FL:

Senior I&C Specialist. Charlotte County enlisted McKim & Creed to develop a SCADA master plan that acts as a detailed roadmap to the County for enacting SCADA system improvements. Our team's scope of work included five key elements: project management, goals/objectives workshops, system data collection, information analysis and development of the master plan document.

SCADA System Upgrades | Charlotte County, FL:

Project Manager. McKim & Creed migrated their current SCADA system from Wonderware App Server to VTScada to reduce costs and improve functionality. The project scope included procurement of computer equipment and software as well as the development of the SCADA applications to migrate 5 facilities: Burnt Store WRF, Rotunda WRF, Burnt Store WTP, East Port WRF, West Port WRF. McKim & Creed met with operations to discuss screen design and functionality prior to development. With the intention to define the conceptual screen layouts, pop-ups, navigation, and functionality for all facilities using these decisions.

SCADA Standards | Charlotte County, FL: Project Manager. McKim & Creed worked with the County staff to develop SCADA standards for us in future projects. We developed the specifications and drawings to define how the PLC and SCADA programming and hardware design would be performed. This will ensure the County receives a standard, repeatable, and proven design each time regardless of the consultant performing the work. We also researched various communication products and protocols and selected one that would optimize their remote site communications and preserve data during times of communication interruptions.

Master Plan - Planning, Vision, Plc's, Scada, Mcc's, Backup Generation | Tarpon Springs, FL:

Project Manager. McKim & Creed provided a Cybersecurity audit in two phases for the City of Tarpon Springs with the assistance of our sub-contractor. The project's first phase identified immediate threats to the system and vulnerabilities that required attention. The project's second phase provided a more in-depth audit of the systems, where we evaluated the network topology, reviewed the City's disaster recovery plan, reviewed remote connectivity methods and procedures, and provided a roadmap for cybersecurity maturity.



Ian Ott

SENIOR TECHNICAL SPECIALIST

QUALIFICATIONS

- ⊕ PLC & HMI Programming
- ⊕ VTScada, Ignition, Citect, and Wonderware Platforms
- ⊕ Allen Bradley/Rockwell and Schneider Software

EDUCATION

B.S., Electrical Systems Technology, Southern Illinois University

Ian is an I&C Specialist with over a decade of experience in the design, implementation and management of SCADA system and process instrumentation and controls projects in the industrial and municipal marketplace. He has experience in PLC programming, HMI development, VFD integration and Servo/robotics programming. His hardware and software knowledge extends to platforms provided by Allen Bradley/Rockwell software, Schneider software, VTScada, Ignition, Citect, and Wonderware.

► Project Experience

SCADA Standards | Charlotte County, FL: Senior Technical Specialist .McKim & Creed worked with the County staff to develop SCADA standards for us in future projects. We developed the specifications and drawings to define how the PLC and SCADA programming and hardware design would be performed. This will ensure the County receives a standard, repeatable, and proven design each time regardless of the consultant performing the work. We also researched various communication products and protocols and selected one that would optimize their remote site communications and preserve data during times of communication interruptions.

SCADA Migration - Remote Sites | Charlotte County, FL: Senior Technical Specialist. Charlotte County Utilities (CCU) requested a SCADA Master Plan to identify concerns and prepare a vision for their future SCADA system. Per the County's needs, McKim & Creed added the current remote sites to the newly installed VTScada system for better visibility and to be prepared for migration to different technologies. McKim & Creed procured the software as well as developed the SCADA applications to use VTScada and display the information from the DFS remote sites. VTScada was connected to DFS's Hyper SCADA Server and collected the station data from there instead of communicating directly from VTScada to each remote station which consisted of the 6 following locations: Vacuum Sewer Stations, Water Booster Stations, Lift Stations, Reclaim Stations with Tanks, Reclaim Stations without Tanks, and Ingraham Disinfection Station.

Wonderware/SCADA Support Services | Charlotte County, FL: Senior Technical Specialist .McKim & Creed upgraded the Allen-Bradley SLC-504 and Data Highway Remote I/O Components at the West Port Water Reclamation Facility due to the lifecycle status of their hardware. Included in this project scope upgrade was the programming of the new PLC components purchased by the County and the modifications to the recently installed VTScada application. The County performed the installation of the components with the assistance of McKim & Creed. The County's IT department is in the process of installing the fiber optic cabling and configured the new managed network switches. McKim & Creed is executing this project in collaboration and coordination with the CCU staff.

SCADA Standards | City of St. Petersburg, FL: Senior Technical Specialist. McKim & Creed is providing SCADA Standards for the City of St. Petersburg. These standards are critical for consistent and reliable SCADA system development, implementation and maintenance. Proper use will reduce maintenance and operations costs as well as improve the overall functionality, reliability, and maintainability of the system. This project is to develop and document the standards associated with proper and successful SCADA system development and implementation. Included is the development of code blocks and objects that can be reused, reducing development time. Two standard lift station RTU designs will be developed in conjunction with the Lift Station Standards team.



Flavio Velecela, EI

I&C SPECIALIST

Flavio specializes in instrumentation and controls design and programming in our Clearwater, Florida office. He is proficient with electrical industrial equipment, instrumentation, programmable controllers, operator interfaces, SCADA network system and fiber distribution systems. Flavio has a thorough understanding of various software packages, including RSView32, InTouch, Allen Bradley, Siemens and Modicom controllers. His expertise also extends to electrical power and distribution having prior experience as an electrician and low voltage technician. He offers more than 18 years of experience working with instrumentation, automation, and control systems.

► Project Experience

Master Plan – Planning, Vision, Plc’s, Scada, Mcc’s, Backup Generation | Tarpon Springs, FL:

I&C Specialist. McKim & Creed provided a Cybersecurity audit in two phases for the City of Tarpon Springs with the assistance of our sub-contractor. The project’s first phase identified immediate threats to the system and vulnerabilities that required attention. The project’s second phase provided a more in-depth audit of the systems, where we evaluated the network topology, reviewed the City’s disaster recovery plan, reviewed remote connectivity methods and procedures, and provided a roadmap for cybersecurity maturity.

SCADA System Upgrades | Charlotte County, FL:

I&C Specialist. McKim & Creed migrated their current SCADA system from Wonderware App Server to VTScada to reduce costs and improve functionality. The project scope included procurement of computer equipment and software as well as the development of the SCADA applications to migrate 5 facilities: Burnt Store WRF, Rotunda WRF, Burnt Store WTP, East Port WRF, West Port WRF. McKim & Creed met with operations to discuss screen design and functionality prior to development. With the intention to define the conceptual screen layouts, pop-ups, navigation, and functionality for all facilities using these decisions.

As Needed SCADA Support Services | City of Clearwater, FL:

I&C specialist. McKim & Creed is providing on a continual basis the City of Clearwater as-needed technical consulting to support the continued maintenance and operation of the computer hardware, software and HMI systems used by the Water Pollution Control Division in monitoring and control of the wastewater treatment facilities.

William Dunn WWTP Belt Press Control Panel Replacement | Pinellas County, FL:

I&C specialist for the complete upgrade of the MCP-DW with a PLC-based solution featuring flat-panel touch screens and operator-process interface (OPI) and functionality. The electrical/control cabinets of two belt filter presses (BFPs) were gutted and replaced; only the cabinets and some field equipment were reused. McKim & Creed’s turnkey services included overall retrofit design; equipment removal, procurement and installation; management of electrical and panel fabricator subconsultants; wiring and testing; and PLC and SCADA programming. The new system allows plant operations staff to monitor and control the sludge press equipment locally via the OPIs, as well as remotely through the plant’s SCADA system.

QUALIFICATIONS

- ⊕ Extensive experience with PLC Programming
- ⊕ History of delivering projects on time and within budget
- ⊕ Power & Distribution
- ⊕ Instrumentation and Controls (I&C) Systems
- ⊕ HMI Programming
- ⊕ AutoCAD

EDUCATION

B.S., Electronics & Control Engineering, National Polytechnic University

LICENSURE

Engineer Intern,
FL #1100011107

CERTIFICATIONS

NICET Certification

FEMA-ICS100

FEMA-ICS700

AFFILIATIONS

Institute of Electrical and Electronics Engineers

International Society of Automation (ISA)



Mike Fadini, PE

DESIGN ENGINEER

QUALIFICATIONS

- + Instrumentation & Controls
- + Electrical Engineering
- + I&C/SCADA System Hardware

EDUCATION

B.S., Electrical Engineering,
Ohio State University

LICENSURE

Professional Engineer, FL
#87173

Professional Engineer, NJ,
DE

Mike's career spans over three decades of design, implementation and project management of electrical and instrumentation systems in the industrial and municipal marketplace. He is adept at engineering designs, AutoCAD, and construction management, including start-up, troubleshooting and commissioning. Additionally, Mike excels at managing projects, mentoring designers and engineers, construction support and building client and trades relationships. He has recent experience and professional development in Ethics, Safety, 2017 NEC Code Changes, SEL Protective Relay Programming for Transformer and Motor Protection, Allen Bradley VFD and Smart MCC programming.

► Project Experience

East Port WRF Expansion Design | Charlotte County, FL: Senior Electrical Engineer. McKim & Creed provided electrical and I&C design services as subconsultant to Jones Edmunds to support the contract with Charlotte County Utilities (CCU) for engineering and construction of upgrades to CCU's East Port Water Reclamation Facility (WRF). The scope of services included a capacity analysis of all WRF electrical distribution systems; an energy efficiency evaluation with consideration of alternatives that include solar, anaerobic digestion with biogas, natural gas and technology advances on process equipment; evaluation of expansion plan relative to electrical and I&C systems; and update of the Preliminary Engineering Report developed by Jones Edmunds to upgrade the existing facility from 6 mgd to 9 mgd capacity. Our team also supported the application for State Revolving Fund assistance for the project.

Burnt Store Water Reclamation Facility | Charlotte County, FL: Senior Electrical Engineer. Charlotte County has retained McKim & Creed to provide master planning, preliminary engineering, design and construction phase services in three distinct, overlapping and integrated phases to replace the existing 0.5 mgd Burnt Store Water Reclamation Facility (WRF) with a new 2.5 mgd facility with the capability to expand to 7.5 mgd. The existing WRF will be decommissioned and demolished upon completion and successful start-up of the new WRF. Major unit treatment processes in the new WRF will include: influent lift station, headworks structure, biological treatment system, clarifier flow splitter box, secondary clarifiers, return/waste activated sludge pump station, tertiary treatment, chlorine contact basin, sodium hypochlorite disinfection system, effluent transfer pump station, reclaimed and reject water storage, reclaimed water high-service pump station, aerated sludge holding, plant drain pump station, electrical building and standby power facilities.

Master Plan - Planning, Vision, Plc's, Scada, Mcc's, Backup Generation | Tarpon Springs, FL: Senior Electrical Engineer. McKim & Creed provided a Cybersecurity audit in two phases for the City of Tarpon Springs with the assistance of our sub-contractor. The project's first phase identified immediate threats to the system and vulnerabilities that required attention. The project's second phase provided a more in-depth audit of the systems, where we evaluated the network topology, reviewed the City's disaster recovery plan, reviewed remote connectivity methods and procedures, and provided a roadmap for cybersecurity maturity.



Adam DiRienzo

I&C PROGRAMMER

QUALIFICATIONS

- + PLC & HMI Programming
- + VTScada and Wonderware Platforms
- + Schneider Software

Adam is an I&C Programmer with over a decade of experience in the design, implementation and management of SCADA system and process instrumentation and controls projects in the industrial and municipal marketplace. He has experience in Networks, Servers, PLC programming, HMI development programming. His hardware and software knowledge extends to platforms provided by Schneider software, VTScada, and Wonderware.

► Project Experience

Pinellas County PS-190 RTU Replacement | Pinellas County, FL: I&C Programmer. Pinellas County Utilities recently commissioned a SCADA Master Plan to identify concerns and prepare a vision for their future SCADA system. Detailed in the recommendations of the final report was developing a design standard for the lift station RTU panels. To stay with this vision, PCU upgraded the RTU at PS-190 from Motorola ACE to Schneider Electric M340. The project included the design of PS-190 RTU panel and the development of the RTU programming as well as the modification of the Wonderware SCADA template.

Pinellas County Security Audit | Pinellas County, FL: I&C Specialist. McKim & Creed provided an audit on the major facility security equipment, such as cameras, fence lines, gates, and card access stations, to better improve their facility security posture. This audit focused on coverage of the major facilities, access to controlled areas, and equipment technological advances. Prepared a technical memorandum with an audit summary, and recommendations for security posture improvement.

Town of Horseshoe Beach As-needed Services | Pinellas County, FL: I&C Programmer. McKim & Creed provided as-needed services for the City of Horseshoe Beach / US Water. The services included assisting with their Siemens S7-300 PLC and the WINCC application. In addition the programming assistance, We programmed, configured and installed their firewall device to allow for a secure VPN connection.



Laurel Smith, PE

DESIGN ENGINEER

QUALIFICATIONS

- + Electrical & Control Engineering
- + Evaluates system reliability & makes recommendations for improvements
- + Identifies complex problems & reviews relevant information
- + Experienced with the design of power distribution system elements
- + Highly skilled in the use of CAD, Excel, and MathCAD based tools

EDUCATION

B.S., Electrical Engineering,
University of South Florida

LICENSURE

Professional Engineer, FL
#91041

Laurel is experienced with the design of power distribution system elements such as generators, medium and low voltage switchgear, motor control centers, and single and three-phase panel boards. She has experience performing voltage drop calculations and expected load calculations including three-phase current vector plotting, designing electronic control systems for pump stations and other wastewater facility components, and performing cost-benefit analysis for both new installations and upgrades to existing equipment and facilities. She is highly skilled in the use of CAD, Excel, and MathCAD based tools.

Project Experience

SEWRF 10 MG Storage Tank and High Service Pumps | Manatee County, FL:

Engineer Intern. Ms. Smith set up an independent low service (low pressure) system at the SEWRF to distribute effluent from the CCCs to the storage ponds. This effort was implemented to improve MCMRS reliability during facility upset conditions and reduce power consumption of the facility to bring down operating costs. Project included installation of new 10 mg GST, high service RCW pumping system, electrical and SCADA system components.

WWRF Biological Treatment Improvements DCP | City of Largo, FL:

Engineer Intern. Ms. Smith provided electrical engineering design for upgrading "middle of the plant" processes to increase capacity and mitigate storm surge. Electrical design included elevated standby generation systems and elevated electrical distribution buildings in several locations throughout the plant. Process changes provided for elevated pumping, filter and valve systems. Design-build construction was used to expedite the project schedule to accommodate for the annual storm season.

Howard Curren WWTP Master Plan Phase I City of Tampa, FL:

Engineer intern. McKim & Creed provided engineering services for phase 1 of the project, which included; review of the historical and ongoing projects, reports and studies; initial observation and familiarization of the plant; and a conceptual level assessment of major equipment within the facility and the current operations.

Marshall St. Lab and East APCF Generator Improvement Project | City of

Clearwater (David Porter), Clearwater, FL: Engineer intern. Project included demolition of two standby generator systems and the consolidation into one single standby generator which was mounted on a raised concrete platform with hurricane rated enclosure. New power ductbanks and switchgear were installed along with four new transfer switches. Complete bulk fuel and day tanks were also part of the project. Controls of these system were a combination of hardwired and Ethernet over a fiber media.

Water Treatment Plant Biological Treatment Unit | Manatee County, FL:

Engineer intern. Provided design, permitting, bidding and construction phase services needed for the WTP Biological Treatment Unit (BTU). Electrical design called for upgrades and addition to existing medium voltage (MV) plant distribution system with the addition of MV breakers and 2000kVA transformers, new MV feeders to raw water pumping stations, and 1500kVa plant process transformers, motor control centers and switchgear.

User: None

DISINFECTION PROCESS AND CONTROLS

SODIUM HYPOCHLORITE

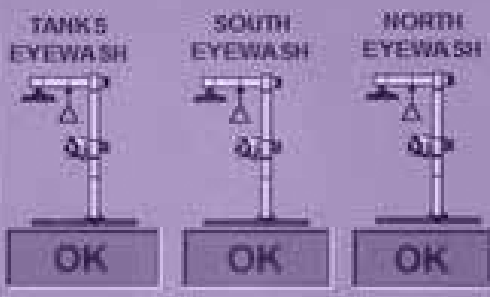
BISULFITE

	PUMP 1	PUMP 2	PUMP 3
MODE	AUTO	AUTO	AUTO
STATUS	OFF	RUNNING	OFF
SPEED	0.0 %	46.1 %	0.0 %
CAPACITY	38.0 GPH	38.0 GPH	38.0 GPH
STROKE LENGTH	152.0 SPM	152.0 SPM	152.0 SPM
COMMANDS	START STOP	START STOP	START STOP
	RESET	RESET	RESET
	Manual Start OFF	Manual Start OFF	Manual Start OFF

	PUMP 1	PUMP 2
SPEED	74.1	
FEED RATE	0.0 GPD	20.0 GPD
PUMP CAPACITY	120.0 GPD	120.0 GPD
COMMANDS	START STOP	START STOP

CLEARWELL CL2 RESIDUAL

0.30 PPM



MODE

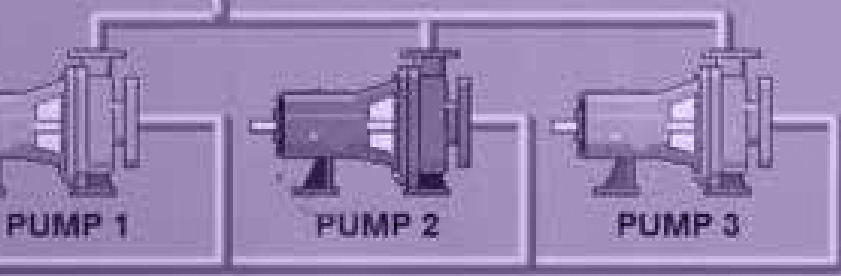
MOD

(0) = OFF

(1) = MANUA

(2) = FLOW

(3) = FLOW



FLOW SELECTION

CCC CCC FILTER

N 6.1 MGD 5.0 MGD

S 0.0 MGD

CHL

CHAM

NORT

IN

IN

Disinfection Process

Disinfection Process

City of Clea

7 TAB 7: LOCATION OF PERSONNEL

7 LOCATION OF PERSONNEL

In this section, we have provided a map (below) outlining the location of our proposed team and their respective locations, as well as an organizational chart on the following page. In addition, Table 1 on the following page includes information about our team's location, years of experience, and technical competencies relative to the scope of work identified in this RFP.

Our Instrumentation and Electrical (I&E) group is fully capable of responding quickly to the City's work authorizations. Our staff members are multifaceted in I&C and electrical design and implementation and capable of performing SCADA, PLC, HMI, communication, and electrical repair, maintenance and training.

McKim & Creed will manage and execute assignments, minimizing City involvement to where it is most needed, thus saving your valuable time for other duties.



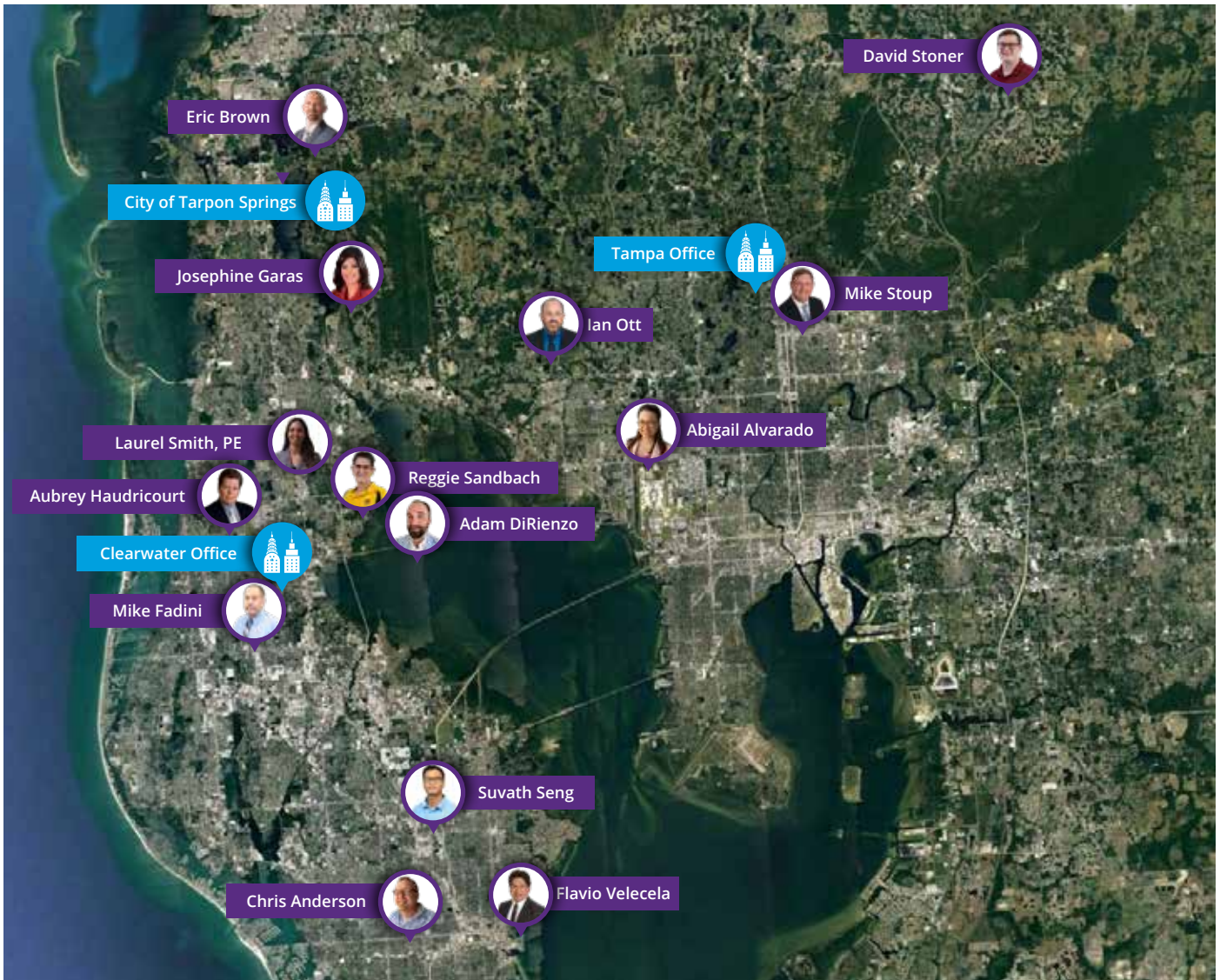
Personnel Fast Facts:

13

LOCAL SCADA
PERSONNEL

150+

COLLECTIVE YEARS
OF EXPERIENCE



Map | Team's Location



TEAM'S TECHNICAL COMPETENCY

TEAM'S TECHNICAL COMPETENCY

Name	Location	Years Experience	SCADA	ELECTRICAL	GE POWER DISTRIBUTION	MOTOR CONTROL CENTER EQUIPMENT	SERVER + NETWORKING	CYBERSECURITY
Mike Stoup, PE	Clearwater, FL	28	●	●		●	●	●
Eric Brown	Clearwater, FL	29	●	●	●		●	●
Mike Fadini, PE	Clearwater, FL	36		●	●	●		
Brian Thorniley, PE	Clearwater, FL	32	●	●		●	●	
Laurel Smith, PE	Clearwater, FL	8		●	●	●		
Suvath, Seng, EI	Clearwater, FL	6		●	●	●		
Ian Ott	Clearwater, FL	13	●				●	●
Adam DiRienzo	Clearwater, FL	12	●				●	●
Jon Van Waardhuizen	Sarasota, FL	2	●				●	
Jason Burnett	Sarasota, FL	15	●				●	●
David Stoner, EI	Clearwater, FL	3		●	●	●		
Chris Anderson	Clearwater, FL	21		●	●	●		
Regina Sandbach	Clearwater, FL	12		●		●		
Dan Cox, PE	Clearwater, FL	13		●	●	●		
Flavio Velecela, EI	Clearwater, FL	24	●			●	●	●
Sean Bolster	Tampa, FL	16					●	●
Chris White	Clearwater, FL	26	●			●	●	
Sterling Graham	Clearwater, FL	12		●	●	●		
Robert Burney	Sarasota, FL	16					●	●

Table 1 | Team's Experience, Location & Technical Competency

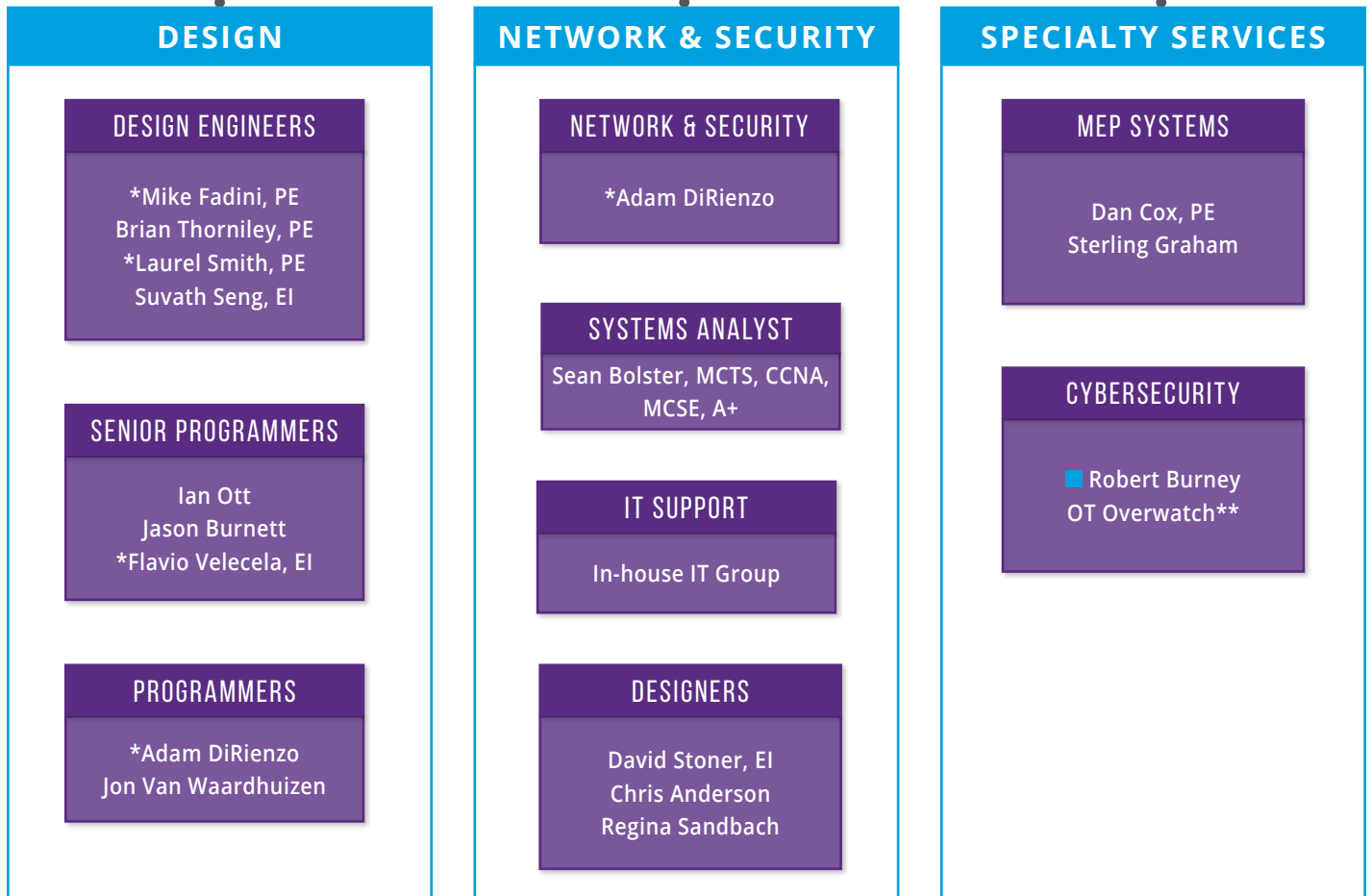
ORGANIZATION CHART



KEY:

* Key Staff

■ Subconsultant





8

TAB 8: FORMS

PROPOSAL FORMS

FIRM INFORMATION SHEET

The information below is required to complete your proposal packet. Type or print only.

Company Name: McKim & Creed, Inc.

Address 1: 1365 Hamlet Ave

Address 2: _____

City: Clearwater

State: FL

Zip Code: 33756

Phone Number: 727.442.7196

Fax Number: _____

Project Contact: Mike Stoup, PE

e-mail address: MStoup@mckimcreed.com

Remittance (Payment) Mailing Information

Address 1: 1365 Hamlet Ave

Address 2: _____

City: Clearwater State: FL

Zip Code: 33756

Phone Number: 727.442.7196

Fax Number: _____

Project Contact: Mike Stoup, PE

e-mail address: MStoup@mckimcreed.com

Federal Tax ID No.: _____

56-2136769

Tax ID Type: Federal Tax ID Social Security Number

1. The undersigned Proposer proposes and agrees, if this Proposal is accepted, to enter into an Agreement with City of Tarpon Springs to perform as specified and in accordance with the scope of services and the other terms and conditions of the Contract Documents.
2. This Proposal will remain subject to acceptance for 90 days after the day of Proposal opening.
3. In submitting this Proposal; Proposer represents, as more fully set forth in the Agreement, that:
 - (a) Proposer has examined and carefully studied the Proposal Documents and the following Addenda (receipt of all which is hereby acknowledged):

Date	Number	Date	Number
<u>5.22.23</u>	<u>1</u>	_____	_____
<u>5.30.23</u>	<u>2</u>	_____	_____
 - (b) Proposer is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect furnishing of the Work.
 - (c) This Proposal is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Proposer

has not directly or indirectly induced or solicited any other Proposer to submit a false or sham Proposal; Proposer has not solicited or induced any person, firm or corporation to refrain from bidding; and Proposer has not sought by collusion to obtain for itself any advantage over any other Proposer or over City of Tarpon Springs.

- 4. Proposer will perform scope of services in accordance with the Proposal Documents for prices shown on the Pricing Summary submitted with the Proposal.

Proposer: *Mike Stang* (signature)

RFP No. 230139-P-AS
Electrical, Instrumentation, and Control System Services
REFERENCES – INCLUDE IN TAB 4

#1 Agency	Charlotte County Utilities	
Address	3100 Loveland Blvd	
City, State, Zip	Port Charlotte, FL 33980	
Contact Person	Peter Giannotti	
Telephone:	941-626-0013	Email: Peter.giannotti@charlottecountyfl.gov
Date(s) of Service	2016-Present	
Type of Service	As-Needed, Electrical, I&C, Networking	
Comments		
#2 Agency	City of St. Petersburg	
Address	1650 3rd Ave N, St.	
City, State, Zip	St. Petersburg, FL 33713	
Contact Person	Paul Mac	
Telephone:	727-892-5666	Email: Paul.Mac@stpete.org
Date(s) of Service	2002-Present	
Type of Service	As-Needed, I&C programming, I&C design, Networking	
Comments		
#3 Agency	Manatee County	
Address	3333 Lena Road	
City, State, Zip	Bradenton, FL 34211	
Contact Person	Christian Collins	
Telephone:	941-920-2083	Email: chris.collins@mymanatee.org

Date(s) of Service	2002-Present	
Type of Service	As-Needed, Electrical Design, I&C programming, I&C design, Networking	
Comments		
#4 Agency	Citrus County	
Address	3600 W. Sovereign Path	
City, State, Zip	Lecanto, FL 34461	
Contact Person	Gary Loggins	
Telephone:	352-302-6152	Email: GARY.LOGGINS@citrusbocc.com
Date(s) of Service	2002-Present	
Type of Service	As-Needed, I&C programming, I&C design, Networking	
Comments		
#5 Agency	City of Oldsmar	
Address	300 Commerce Blvd	
City, State, Zip	Oldsmar, FL 34677	
Contact Person	Johna Jahn	
Telephone:	Jjahn@myoldsmar.com	Email: Paul.Mac@stpete.org
Date(s) of Service	2002-Present	
Type of Service	As-Needed, Electrical, I&C, Networking	
Comments		

NON-COLLUSION AFFIDAVIT

I, Mike Stoup, PE, depose and say that:

1. I am Vice President of the firm of McKim & Creed, Inc., the firm submitting the response described in this Request for Proposals for: RFP 230139-P-AS, Electrical, Instrumentation, and Control System Services and that I executed the said response with full authority to do so:

2. the prices in this bid have been arrived at independently without collusion, consultation, communication or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;

3. unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to bid opening, directly or indirectly, to any other bidder or to any competitor; and

4. no attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit, or not to submit, a bid for the purpose of restricting competition;

5. the statements contained in this affidavit are true and correct, and made with full knowledge that the City of Tarpon Springs relies upon the truth of the statements contained in this affidavit in awarding contracts for said project.

Signature of Bidder: *Mike Stoup* Date: 6/12/2023

STATE OF: Florida CITY OF: Hernando

PERSONALLY APPEARED BEFORE ME, the undersigned authority, who, after first being sworn by me, (name of individual signing) affixed his/her signature in the space provided above on this June 12 day of 2023.

NOTARY PUBLIC
My Commission Expires: 4/5/2027



DRUG FREE WORKPLACE CERTIFICATION

The SIGNED PROPOSER (Below) CERTIFIES that it has implemented a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under quote a copy of the statement specified in subsection 1.
4. In the statement specified in subsection 1, notify the employees that, as a condition of working on the commodities or contractual services that are under quote, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in, drug abuse assistance or rehabilitation program if such is available in employee's community, by any employee who is convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign this statement, I certify that this firm complies fully with the above requirements.

Date: June 13, 2023

Signature: 

Company: McKim & Creed, Inc.

Name: Mike Stoup, PE
(Typed or Printed)

Address: 1365 Hamlet Ave
Clearwater, FL 33756

Title: Vice President

Phone No: 727.442.7196

E-Mail: MStoup@mckimcreed.com

LOBBYING AND CONFLICT OF INTEREST CLAUSE ETHICS CLAUSE

(Company)

Mike Stoup, PE warrants that he/it has not employed, retained or otherwise had act on his/its behalf any former City officer or employee or any City officer or employee. For breach or violation of this provision the City may, in its discretion, terminate this contract without liability and may also, in its discretion, deduct from the contract or purchase price, or otherwise recover, the full amount of any fee, commission, percentage, gift, or consideration paid to the former City officer or employee".

Signature *Mike Stoup*

Date: 6/12/2023

STATE OF: Florida CITY OF: Hernando
Subscribed and sworn to (or affirmed) before me on (date) by (name of affiant). He/She is personally known to me or has produced as identification. (type of identification)

NOTARY PUBLIC

My commission expires: 4/5/2027



MINIMUM INSURANCE REQUIREMENTS

1. Insurance

Contractor shall carry the following minimum types and amounts of insurance at its own expense, for the contract period:

A. The insurance required must be written by an insurer authorized to do business in the State of Florida and also have an "A" policyholder's rating and a financial rating of at least Class VIII in accordance with the most current A.M. Best Company, Inc. Key Rating Guide. Prior to the time the contractor is entitled to commence any part of the project, work, or services under this contract, Contractor shall procure, pay for, and maintain at least the following insurance coverages and limits. Said insurance shall be evidenced by delivery to Procurement Services for the City of Tarpon Springs of a Certificate of Insurance executed on a standard ACORD form, listing all coverage and limits, expiration dates and terms of policies, and all endorsements whether or not required by the City. The insurance requirements shall remain in effect throughout the term of this Contract, or any Contract extension.

1.	Commercial General Liability	
	Each Occurrence	\$1,000,000
	General Aggregate	\$1,000,000
	Products-Completed Operations Aggregate	\$1,000,000
	Personal and Advertising Injury	\$1,000,000
	Broad Form Property Damage and Fire Legal Liability(Per Occurrence)	\$50,000
2.	Automobile Liability	
	Each Occurrence Combined Single Limit	\$1,000,000
	General Aggregate	\$1,000,000
3.	Worker's Compensation	\$1,000,000
4.	Employer's Liability	
	Each Accident	\$1,000,000
	Disease Each Employee	\$1,000,000
	Disease Policy Limit	\$1,000,000

B. Each Insurance Policy shall include the following conditions by endorsement to the policy:

1) Each policy shall require that thirty (30) days prior to expiration, cancellation, non-renewal, or any material change in coverages or limits, a notice thereof shall be given to the City by certified mail to: City of Tarpon Springs, c/o Procurement Services, P.O. Box 5004, Tarpon Springs, Florida, 34688-5004. Contractor shall also notify City, in a like manner, within twenty-four (24) hours after receipt, of any notices of expiration, cancellation, non-renewal, or material change in coverage received by said Contractor

from its insurer; and nothing contained herein shall absolve Contractor of this requirement to provide notice.

2) Companies issuing the insurance policy, or policies, shall have no recourse against City for payment of premiums or assessments for any deductibles which all are at the sole assessments for any deductibles which all are at the sole responsibility and risk of Contractor.

3) The term "CITY" shall include all Authorities, Boards, Commissions, Divisions, Departments, and offices of City and individual members, employees thereof in their official capacities, and/or while acting on behalf of the City.

4) City of Tarpon Springs shall be endorsed to the required policy or policies as an "Additional Insured" or "Additional Named Insured", endorsed on the policy/policies.

5) The policy clause "Other Insurance" shall not apply to any insurance coverage currently held by City to any such future coverage, or to City's Self-Insured Retentions of whatever nature.

- C. Cyber Liability Technology:** Including Errors and Omissions with minimum limits of \$3,000,000.00 per occurrence, prior to performing services, Contractor will provide to the owner a certificate of insurance including Cyber Security Insurance Coverage in the event of data breach. Failure to provide said certificate or failure to maintain said Cyber Security Insurance during Agreement's term shall constitute a material breach of the Agreement.

DATA SECURITY: The parties agree to abide by and maintain adequate security measures, consistent with industry standards and best practices to protect Confidential Electronic data from unauthorized disclosure or acquisition by an unauthorized person. These measures shall include, but are not limited to:

1. Data Encryption both at rest and in transit.
2. Strong Authentication and Appropriate Access Control for any data shares.
3. Data Classification clearly labeling the sensitivity of shared information defined as classified or sensitive.

SUBMITTED BY:

MCKIM & CREED | CLEARWATER, FL

www.mckimcreed.com



MCKIM & CREED

ENGINEERS SURVEYORS PLANNERS

**ATTACHMENT A
Proposal Pricing Form**

ELECTRICAL AND INSTRUMENTATION AND CONTROL SYSTEM SERVICES

RFP No. 230139-P-AS

Include Attachment A - Proposal Pricing Form with RFP Response

Proposer will ***furnish goods/provide all services*** in accordance with the Contract Documents for the unit prices shown below:

Estimated Annual Amount for Services Pursuant to the Solicitation:

Item #	Year	Total for Year
1	Year 1	\$ 340,950.00
2	Year 2	\$ 351,178.50
3	Year 3	\$ 361,713.86
4	Year 4	\$ 372,565.27
5	Year 5	\$ 383,742.23
		Grand Total \$ 1,810,149.85

Item #	Title	Days/Hours	Rate per Hour	Estimated Hours	Total for Year 1
1	Senior Programmer	M-F 7:30 a-5:00 p	\$ 185.00	300	55,500.00
		Nights/Weekends or Holidays	\$ 185.00	30	5,500.00
2	Programmer	M-F 7:30 a-5:00 p	\$ 155.00	400	62,000.00
		Nights/Weekends or Holidays	\$ 155.00	40	6,200.00
3	Field Technician	M-F 7:30 a-5:00 p	\$ 95.00	400	38,000.00
		Nights/Weekends or Holidays	\$ 130.00	40	5,200.00
4	Design Engineer	M-F 7:30 a-5:00 p	\$ 190.00	300	57,000.00
5	Senior Engineer	M-F 7:30 a-5:00 p	\$ 205.00	300	61,500.00
6	Principal / Subject Matter Expert	M-F 7:30 a-5:00 p	\$ 250.00	200	50,000.00
		Grand Total			\$340,950.00

Repair Parts and Subconsultant Services (if necessary) Mark Up: 10 % (must not exceed 15%)
 (Back-up for materials and subconsultant costs must be included with invoices)

Senior Programmer: This classification would typically be utilized for complex or advanced modifications and customization of the instrumentation and control system, with a focus on software and network components, such as the creation of new programs or major updates to control systems.

Programmer: This classification would typically be utilized for modifications and customization of existing instrumentation and control system, with a focus on software and network components.

Field Technician: This classification would typically be utilized for repair, modification, troubleshooting, calibration, and installation of hardware components of the utility control system, such as online instruments, analyzers, meters, PLCs, control panels, and other related components of the electrical and instrumentation and control system.

Design Engineer: This classification would typically be utilized for designing, permitting, procuring, and implementing new control systems or electrical systems and providing CAD drawings for upgrades.

Senior Engineer: This classification would typically be utilized for designing, permitting, procuring, and implementing new control systems or electrical systems and providing CAD drawings for upgrades. This classification would also be used for project management or oversight of projects and would typically be required to possess a Professional Engineer license in the State of Florida.

Principal / Subject Matter Expert: This classification would typically be utilized for individual team members with specific expertise, experience, and responsibility in a particular field. This classification would also be utilized for senior managerial staff involved in the project management or oversight of larger or more complex projects. Typical titles associated with this level of work might include Principal Engineer/Scientist, Project Director, Group Lead/Manager, Practice Leader, or similar roles.

OFFER SUBMITTED BY: Mike Stoup, PE | McKim & Creed, Inc. on June 13, 2023.