



ADDENDUM NO 1

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FLORIDA MUNICIPAL POWER AGENCY

Request for Proposal# 2024-204
July 11, 2024

FMPA Request for Proposals Number 2024-204, Stock Island Relay Replacement, has changed to reflect the following additions, deletions, and/or modifications:

Item No. 1

Modification to the Technical Specification; See attached. Changes indicated in red.

Item No. 2

Modification to the Bid Form; See attached. Changes indicated in red.

All other aspects of the RFP document remain the same.

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Protective Relay Testing and Commissioning of CT's 1-4, Generating Units (MSD-1, -2, and EP2) and 13.8kV Grounding Transformer

1. Upon acceptance of the Purchase Order, FMPA can ship the nine (9) new relays to a designated location/warehouse or be performed at Stock Island. The Awarded Bidder shall bench test the relays in a controlled environment to verify the performance and functionality of the relays prior to the installation. All relay settings "SEL RDB Files" will be provided by FMPA or others. The testing process will include checking for proper operation, accuracy, and response times, among other parameters.
 - a. All programming to new relays was performed by Sargent & Lundy (S&L) P&C department.
2. Awarded Bidder shall test and commission the protective relays for the following generating units. The testing and commissioning process will involve verifying the overall functionality of the relay panels, performing necessary adjustments or calibrations, and conducting final testing. This process does include checking for proper operation, accuracy, and response times, among other parameters per IEEE Standards.
 - a. Combustion Turbine
 - i. Combustion Turbine #1 (**New relays**)
 - a) (1) SEL-787 transformer protection relay – QTY 1
 - b) (2) SEL-700G generator protection relay – QTY 1
 - ii. Combustion Turbine #2 (**New relays**)
 - a) (1) SEL-787 transformer protection relay – QTY 1
 - b) (2) SEL-700G generator protection relay – QTY 1
 - iii. Combustion Turbine #3 (**New relays**)
 - a) (1) SEL-787 transformer protection relay – QTY 1
 - b) (2) SEL-700G generator protection relay – QTY 1
 - iv. Combustion Turbine #4 (**New relays**)
 - a) (1) SEL-787 transformer protection relay – QTY 1
 - b) (2) SEL-300G generator protection relay – QTY 1
 - v. Collector Bus (**New relays**)
 - a) (1) SEL-487B Bus protection relay – QTY 1
 - vi. MSD-1 – Ideal Electric generator
 - a) SEL-700G generator protection – QTY 1
 - b) BEI-51 feeder protection – QTY 1
 - vii. MSD-2 – Ideal Electric generator
 - a) SEL-700G generator protection – QTY 1
 - b) BEI-51 feeder protection – QTY 1
 - viii. EP2 – Keto Engineering generator
 - a) GE G30 generator protection – QTY 1
 - b) SEL-751A feeder protection – QTY 1
 - ~~c) BEI-51 feeder protection – QTY 1~~
 - b. Unit Auxiliary two-winding Transformers (UAT)
 - i. SSS UAT (**52SS**)
 - a) **SEL-751 Station Service**
 - ii. MSD – 69/13.8kV UAT
 - a) SEL-487E transformer protection – QTY 1

- b) BEI-51 feeder protection – QTY 2
 - iii. MSD – 13.8kV Grounding XFMR
 - a) SEL-751A feeder protection – QTY 1
 - c. 13.8V MSD Bus
 - i. MSD
 - a) SEL-487B bus differential – QTY 1
 - d. 13.8V MSD Feeder Breaker
 - i. MSD (52PK)
 - a) SEL-751 feeder protection – QTY 1
 - e. Arc Flash
 - i. EP2 INCOMING Arc Flash Protection – QTY 1
3. **[OPTION ADDER]** Instrumentation Testing
- a. Testing of the current transformer and voltage transformer is crucial for ensuring their functionality and accuracy.
 - b. After testing the current transformer and voltage transformer, the tested circuits should be traced back to the relays to verify their proper functioning.

Design: Field cable installations and routing

1. Field cable installations and routing at Stock Island lack documentation and do not have the latest drawings on record except for a binder that contains "Field Wiring Notes". The yard contains conduits, junction boxes (also known as "pull boxes") and manholes that require evaluation. As a result, a field visit is necessary to determine the correct way to route cables. During the visit, the Awarded Bidder shall inspect the existing cable infrastructure, identify potential issues, and recommend appropriate routing methods. This on-site assessment shall provide accurate information about the existing cable layout, facilitating a smooth and efficient cable installation process.
2. **[OPTION ADDER]** AWARDED BIDDER to account for cost of pulling new cables for current and voltage contribution to the relays if during TESTING of the CT & PT circuits encounters any major degradation. The bidder should also include the cost of labor and materials procurement in the bid. The bidder should also provide a detailed proposal for the technical aspects of the project.

Design Deliverables

Awarded Bidder to provide the following services:

1. Engineering design to provide a complete Preliminary design package to support project funding, therefore proposed schedule must be aligned with Project Management deliverables for cost estimating.
 - a. Develop detailed cable path plans that outline the routing layout.
 - b. Provide detailed instructions and specifications for the installation and implementation of the cable routing design. Include details such as cable termination points, cable splicing, cable termination techniques, cable testing procedures, and installation best practices.
2. New drawings created by this project will be numbered in accordance with the Stock Island Drawing Number Guide (use as REFERENCE).

3. Allocate a minimum (2) two days for Site walk-down and construction support.
4. Allocate necessary resources and hours to perform post-project Mark-Ups/Redlines
 - a. (Add this as an option adder) Allocate necessary hours to As-Builts and close-out drawings associated with this project.
5. Adhere to project schedule for Engineering deliverables.

Automation/Distributed Control System (DCS)

1. Control center remote and/or DCS telemetry, control and indication of all new equipment shall be incorporated based on the DCS requirements of the station. At Stock Island, the existing DCS in the respective control house will be used to incorporate all new DCS points associated for new equipment. Awarded Bidder shall develop assessment of the automation and communications availability, serial communication ports or a hardwired DCS design, for communication with the existing DCS. **AWARDED BIDDER will be allowed to work with the DCS System as a means to perform their effort.**

BID FORM – Stock Island Relay Replacement - REVISED

Provide pricing to furnish and deliver as described in the scope of work. (to include material, shipping & installation)		
Item Description	Unit Price	Lead Time
1. Develop drawing to support Field cable installations and routing	\$	
2. Demolition/Removal of the existing relays	\$	
3. Conduct bench testing on new relays	\$	
4. Install the new relays	\$	
5. Perform protective relay testing and commissioning to all CT's 1-4 and other generating units, bus(es) and transformers associated to MSD-1, MSD-2 and EP2	\$	
6. Provide a comprehensive project report	\$	
	\$	

Provide pricing to furnish and deliver as an Option Adder for items not described in the scope of work. (to include material, shipping & installation)		
Item Description	Unit Price	Lead Time
7. Instrumentation Testing	\$	
8. Pulling New CT/PT cables to relays	\$	
9.	\$	

If there are additional equipment and items required to provide this work, but was not included in our RFP request, please note them below. If there is additional cost, please note it below in the cost section.

Item Description	Unit Price