



SQUARE D
Schneider Electric

Collin County Justice Center
Central Plant Generator Monitoring - Generator 1 and 2

3/25/2011

REQ # 158587

Qty	P/N	Description	GSA Pricing	
			Price Each	Price Extended
Device Type Driver				
		<u>Engineering Services - SMS Device Type Driver</u>		
1	9784DEVCUSTOM	Custom Device Driver - Manufacturer: Cummins Model Number: Modlon II Device Type Details: Cummins Power Command 2100 Generator Monitoring Register List is Available: YES Number of Register Points to Map = 200 Spare Device is Available for R&D: NO Device must be capable of communicating via Modbus RTU (RS-485) or Modbus TCP. Otherwise additional hardware may be required.	\$1,772.25	\$1,772.25
Generator Communication				
		<u>NEMA 12 ModLon II, MUCM, and EGX100 Enclosure</u>		
2	9788CUSTOMENCLOSURE	Custom Enclosure - Cummins ModLon II, NR&D MUCM+102 Communications Gateway and EGX100 - NEMA 12 Enclosure with 1 ModLON II, MUCM and EGX100 Installed and Wired - Dim 24" H X 20" W X 10" - Nameplates Available Upon Request (Provide Nameplate Schedule With Order) - 120VAC 1 Pole Circuit Breaker - GFCI Receptacle and 50W - 24VDC Supply.	\$5,566.28	\$11,132.57
Start-up and Commissioning				
		<u>Startup & Commissioning Services: PowerLogic Tier A Project</u>		
2	5961ONSETA	Onsite Startup/Commissioning work per PMO Engineering Services Standard Scope of Work. - Set up device addressing, and troubleshoot communications issues. - Assure the system is functioning properly and to the customers satisfaction.	\$1,777.78	\$3,555.56
		<u>Advanced GFX Screen Development</u>		
4	9784GFXAAS	Advanced GFX Screen Development - Application Specific	\$666.67	\$2,666.67
1	2260DOCUMENT	Documentation package that includes preliminary/as-built system drawing, as required, and project files.	\$833.33	\$833.33
		<u>ES - Custom Labor</u>		
1	9794PAECUMMINS	On-site Support - Commissioning of Modlon II	\$2,000.00	\$2,000.00
			TOTAL PRICE	\$21,960.37

NOTES:

- Taxes not included. Shipping not included
- Enclosure installation by others
- Communications wiring by others
- Prices good for 60 day from date of quote

Control Power - 120 VAC power supply - 10 amp - best if UPS power, so that monitoring continues upon power loss while generator is starting.
 CAT5e Ethernet connection required from building LAN to EGX100 for SMS system.
 Installation of Lon cable from enclosure to engine PCC2100 required.
 Cummins to specify connection points on engine, to specify Lon cable type, and to commission the ModLon II. ModLon II provided by Schneider Electric, and will be factory installed in the NEMA 12 enclosure.
 Prices as purchased from an authorized area Square D distributor.

From: John White [john@rockwallcontrols.com]
Sent: Sunday, December 19, 2010 8:09 PM
To: Mark Crull
Cc: Frances White
Subject: Budget - New Diesel Generator for Central Plant

Categories: Red Category

Scope of Work - Integration of New Central Plant Diesel Generator

GENERAL

Provide all necessary materials, programming, system integration, commissioning and operator training for a complete and operating generator interface system that fully integrates into the Collin County network.

BASIS

1. Others provide a new diesel-fueled generator for the Collin County Justice Center Central Energy Plant.
2. New generator mirrors existing generator installed under separate contract by Siemens.
3. Others provide (furnish and install) fuel control valves. Valves shall have 120-volt solenoids.
4. Others provide fuel level sensing switches. Switches are factory pre-mounted in Diesel day tank and serve two purposes: normal management of fuel level in day tank and operator alerts (alarms).
 - a. Top switch: overflow alarm
 - b. Tank full – stop transfer of fuel from central storage to day tank
 - c. Tank low – start transfer of fuel from central storage to day tank
 - d. Bottom switch – low fuel alarm
5. Others provide 120 vac control power to fuel-level controls on day tank.
6. Others provide LonWorks interface for new generator.
7. Others provide painting and patching, where necessary.

SCOPE OF WORK

1. Provide (furnish and install) a local control panel to monitor tank-mounted fuel-level sensors and to activate fuel valves assembly.
 - a. LED lamps illuminate to indicate status of fuel-level sensing switches.
 - b. "Heartbeat" LED flashes to indicate system status. Off or steady state indicates failure of fuel management panel.
2. Provide Lon interface between County automation system and new generator, include all conduit and wire necessary.

3. Create custom graphics and incorporate new generator status and alarms into overall generator management graphics.
4. Remove old programs, graphics and hardware.
5. Rockwall Controls warrants materials and workmanship furnished under this scope of work to be free from defect for one calendar year after acceptance or from time of beneficial use.

PRICING

\$6,367.00

Price remains firm for 120 calendar days.