**Scope of Work:**

Contractor shall provide all labor and materials in order to remove and replace a total of two generators and two transfer switches located in Compound 1 and the Main Kitchen of Dixon Correctional Institute (DCI).

Location: Dixon Correctional Institute

 5568 Highway 68

 Jackson, LA 70748

Agency contact: Will Bunch

 225-634-6101

**\*This RFx has been approved as proprietary and only the brands/models specified will be considered. \***

**Project location: Compound 1**

**Specifications**:

1. Contractor shall remove and replace a generator and automatic transfer switch and bore gas main.
2. All equipment removed from site shall be delivered and off loaded at DCI Maintenance yard.
3. Contractor shall add on to existing concrete slab to accommodate for new generator if necessary. Existing concrete slab is 144”L x 67”W x 6”H.
4. Contractor shall remove existing transfer switch and secondary enclosure around transfer switch.
5. Contractor shall install new generator including all plumbing and electrical.
6. Contractor shall install new automatic transfer switch.
7. Contractor shall make a 2” polyethylene tap on the 3” existing gas main inside compound. Make one 500’ bore of 2” polyethylene pipe and set the 2” riser and lockwing valve at the generator concrete pad. Once complete contractor shall perform pressure test to ensure no leaks are present. Contractor shall be operator certified to perform work on site.
8. Contractor shall include starting batteries.
9. Contractor shall provide and install appropriate sized 480V to 120V transformer to provide power to battery charger and block heater. (5,000 Watts)
10. Contractor shall provide all copper wiring for transfer switch, generator, transformer and control wiring. Only copper wiring shall be acceptable for this project.
11. Contractor shall perform a factory start up and demonstration with the Maintenance Team on site.
12. Contractor shall perform a power fail test and load for 1 hour to insure proper operation of generator and transfer switch.
13. **All work shall be completed during business hours in 1 business day or rental generator will need to be installed to back up facility until work is completed.**

**Generator:**

Approved Brand and Specification Below:

Brand: Kohler Model 250REZXB

Size: 250KW

Voltage: 277/480V 60HZ 3 Phase

Alternator: 4 pole rotating field, brushless permanent magnet, 12 lead Re-connectable

Insulation NEMA MG1 Class H

Unbalanced load capability – Must be 100% of rated standby current

Alternator Size: 250KW @ 277/480V 3Phase 60Hz

Controller: APM402

Engine: Doosan Model D146L Turbocharger 14.6L V8

Rated RPM: 1800

Max Power @ rated RPM – 300kWm

Fuel Type – Natural gas

Enclosure: Steel Sound Enclosure w/Vertical air inlet and outlet discharge

Block heater: Standard 120V 2500 watt

Battery charger: 10 amp 120vac 24vdc

**Automatic Transfer Switch:**

Brand: ASCO

Series: 300

Size: 600 AMP

Voltage: 277/480 60HZ 3 Phase

NO of switched Pole: 3

Neutral Configuration: Solid

Service Rated: Non service rated

Enclosure: NEMA 3R UL Type 3R Enclosure

Accessories: 11BE (1) Serial RS-485 Modbus communications, (2) Multi-Schedule Engine Exerciser,

(3) A 300 entry event log and a common alarm output function

**Project location: Main Kitchen**

**Specifications**:

1. Contractor shall remove and replace generator and automatic transfer switch.
2. All equipment removed from site will need to be delivered and off loaded at DCI Maintenance yard.
3. Contractor shall add on to existing concrete slab to accommodate for new generator if necessary. Existing concrete slab is 110”L x 66”W x6”H.
4. Contractor shall install new generator including all plumbing and electrical.
5. Contractor install new Automatic Transfer switch.
6. Contractor shall include starting battery.
7. Contractor shall provide and install appropriate sized 480V to 120V transformer to provide power to battery charger and block heater. (5,000 Watts)
8. Contractor shall include wiring for transfer switch, generator, transformer and control wiring. Only copper wiring shall be acceptable for this project.
9. Contractor shall perform a factory start up and demonstration with the Maintenance Team on site.
10. Contractor shall perform a power fail test and load for 1 hour to insure proper operation of generator and transfer switch.
11. **All work shall be completed during business hours in 1 business day or rental generator will need to be installed to back up facility until work is completed.**
12. Gas line boring shall not be necessary for this location since the natural gas stub up is already in place.

**Generator:**

Approved Brand and Specification Below:

Brand: Kohler Model 150ERESC

Size: 150KW

Voltage: 277/480V 60HZ 3 Phase

Alternator: 4 pole rotating field, brushless permanent magnet, 12 lead Re-connectable

Insulation NEMA MG1 Class H

Voltage regulation no load to full load -+- .05%

Unbalanced load capability – Must be 100% of rated standby current

Alternator Size: 150KW @ 277/480V 3Phase 60Hz

Engine: PSI 8.8L Turbocharged and charger cooled V-8

Rated RPM: 1800

Max Power @ rated RPM-193HP / 259HP

Fuel Type – Natural gas

Fuel Consumption – Must not exceed 2000 (CFH /FT3/HR) @ 100% load

Enclosure: Steel Sound Enclosure w/vertical air inlet and outlet discharge

Block heater: Standard 120V 1800 watt

Battery charger: 6amp 12vdc

**Automatic Transfer Switch:**

Brand: ASCO

Series: 300

Size: 600 AMP

Voltage: 277/480 60HZ 3 Phase

NO of switched Pole: 3

Neutral Configuration: Solid

Service Rated: NON-SERVICE RATED

Enclosure: NEMA 3R UL Type 3R Enclosure

Accessories: 11BE (1) Serial RS-485 Modbus communications, (2) Multi-Schedule Engine Exerciser,

(3) A 300 entry event log and a common alarm output function

**Other Requirements**:

* A minimum of 5 year warranty on equipment
* Work shall be performed Monday – Friday from 7:00 AM – 3:30 PM. Successful vendor is to contact Facility Maintenance coordinator Will Bunch @ 225-634-6101 to schedule.
* Vendor representatives are subject to passing a background check.
* All visitors are subject to a search of their vehicles, possessions and persons. This is necessary to preclude the introduction of weapons, ammunition, explosives, cell phones, alcohol, escape devices, drugs and drug paraphernalia, or other forbidden items or contraband into the prison environment. All searches of visitors will be conducted in accordance with Department Regulation No. C-02-005 and Penitentiary Directive No. 09.004 and 09.004A.
* Vendor representatives shall follow all institutional policies and procedures while performing work on facility grounds.
* Vendor is subject to a conference/training with facility staff after the contract is executed and before performing any work.
* In accordance with La. R.S. 39:1655, this specification has been approved as proprietary and only the Brand(s) Numbers(s) specified will be considered for award on both generator and transfer switch.