

Project Specifications and Pre-qualification Information

Project: Overhaul Generator #3 Engine

GENERAL REQUIREMENTS:

1. Demonstrate that the proposed mechanic for this project completed at least 2 similar projects that involved overhaul of a diesel generator engine, 500 horse power or above in the last 5 years.

TECHNICAL/INSTALL SPECIFICATIONS:

The preliminary scope of the project is identified below. It is the responsibility of each bidder to inspect the engine and determine the complete scope of work needed to return the engine to normal and reliable operation.

1. Generator Specifications:
 - Manufacturer: Cummins
 - Generator Model Number: 682FDR8077GG-P
 - Generator Serial Number: RM3243022
 - Generator KW: 600 KW
 - Engine Model Number: VTA28-02
 - Engine Serial Number: 37019269
2. After troubleshooting of our 600kW generator for excess oil blow by coming out to the breather the following failures were identified:
 - (6) pistons on the left bank are damaged from two of the pistons coming apart. This caused a chain reaction and damaged the heads, push rods, valves and blew metal throughout the engine.
3. The following scope of needed repairs has been identified and is the minimum scope. Bidder to evaluate the engine and determine if additional work is needed:
 - Short Block and Long Block engine overhaul.
 - Replace (4) heads, (12) pistons, bearings, push rods, (12) connecting rods, (12) injectors, oil pump, all related gaskets, hoses, oil and coolant. Once rebuilt complete a four-hour load bank test to help set the new rings.
 - Provide add alternates for replacement of crank shaft, water pump, turbo, and fuel pump. Each add alternate is listed on the bid schedule.
 - Owner has already installed a rental backup generator. Bidder does not need to provide a rental backup generator.