26 32 13 ENGINE GENERATORS

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Packaged engine generator system and associated components and accessories:

1.02 REFERENCE STANDARDS
A. NFPA 70 - National Electrical Code; National Fire Protection Association; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.03 SUBMITTALS
A. Product Data: Provide manufacturer's standard catalog pages and data sheets for each product, including ratings, configurations, dimensions, finishes, weights, service condition requirements, and installed features. Include alternator starting capabilities, engine fuel consumption rates, and cooling, combustion air, and exhaust requirements.
B. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and operation of product.
C. Operation and Maintenance Data: Include detailed information on system operation, equipment programming and setup, replacement parts, and recommended maintenance procedures and intervals.

1.04 DESIGN REQUIREMENTS
A. All occupied buildings over 5,000 square feet shall be generator equipped with an Auto Transfer Switch (ATS).
B. Natural Gas generators are preferred.
C. Generators shall be a minimum of 12.5kVA (10kW).
D. Generator capacity shall be rated 125% of the calculated load.
E. Diesel generators are permitted.
   1. The fuel tank shall be sized to hold a minimum of 12 hours of fuel at full load.
   2. A full tank of fuel is required prior to the University's acceptance.
   3. Refer to SPCC requirements applicable to fuel tanks.
F. The following items shall be connected to the emergency generator system:
   1. The Fire Alarm System.
   2. All Egress lighting.
   3. All Exit lights.
   4. All sump pumps.
   5. All sewer ejector pumps, unless approval received from the University Electrical Engineer.
   7. All heating system pumps, and related control systems to maintain freeze protection for the entire building during power outages.
G. Provide (3) sets of keys for all control cabinets, generator enclosure to the University of Delaware Operations & Maintenance.

PART 2 PRODUCTS

2.01 MANUFACTURERS
A. Packaged Engine Generator Set:
   1. MTU Onsite Energy. www.mtu-online.com
B. Source Limitations: Furnish engine generator sets and associated components and accessories produced by a single manufacturer and obtained from a single supplier.

END OF SECTION