

SECTION 16215

DAY TANK

PART 1 - GENERAL

- 1 RELATED DOCUMENTS
 - A. THE GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, DIVISION 1, GENERAL REQUIREMENTS, AND AIA DOCUMENT A201, LATEST EDITION, SHALL APPLY TO THE WORK OF DIVISION 16, ELECTRICAL, AS FULLY AS IF INCLUDED HEREIN.
2. WORK INCLUDED
 - A. FURNISH AND INSTALL A PACKAGED DAY TANK UNIT WITH ALL COMPONENTS, FEATURES, AND ACCESSORIES AS SPECIFIED HEREIN.
3. RELATED WORK
 - A. SECTION 16205 - PACKAGE ENGINE GENERATOR SET
4. WORK BY OTHERS
 - A. FUEL OIL STORAGE TANK AND FUEL OIL PIPING SYSTEM SHALL BE AS SPECIFIED UNDER DIVISION 15.
5. REFERENCES
 - A. NFPA 99 - HEALTH CARE FACILITIES
 - B: NFPA 110 - EMERGENCY AND STANDBY POWER SYSTEMS
 - C. NFPA 30 - FLAMMABLE AND COMBUSTIBLE LIQUIDS
 - D. NFPA 37 - STATIONARY COMBUSTION ENGINES AND GAS TURBINES
 - E. NEC - NATIONAL ELECTRICAL CODE, 1996
 - F. UL-142 - STEEL ABOVE GROUND TANKS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS
 - G. UL-508 - INDUSTRIAL ENCLOSED CONTROL PANELS
6. SUBMITTALS
 - A. SUBMIT SHOP DRAWINGS AND PRODUCT DATA UNDER PROVISIONS OF SECTION 16010.

PART 2 - PRODUCTS

- 1 ACCEPTABLE MANUFACTURERS
 1. PRYCO
 2. SIMPLEX
 3. TRAMONT

2. DAY TANK

- A. THE DAY TANK SHALL BE UL LISTED <DOUBLE WALL> <WITH UL LISTED RUPTURE BASIN>, _____ GALLON PACKAGED UNIT COMPLETE WITH DISCREET FLOAT CONTROLLED FUEL TRANSFER PUMP OF ADEQUATE SIZE AS REQUIRED BY THE ENGINE MANUFACTURER TO SUPPLY FUEL AT TWICE THE RATE OF THAT USED BY THE ENGINE, FLOAT SWITCH (100 VA RATED MINIMUM), 30 AMP NEMA RATED CONTACTOR FOR MOTOR FLOAT SWITCH, FLOAT FUEL GAUGE, TEST BUTTON, DISCREET LOW FUEL ALARM RELAY FOR REMOTE ANNUNCIATION, DISCREET LEAK DETECTION FLOAT SWITCH FOR THE <DOUBLE WALL> <RUPTURE BASIN> FOR REMOTE ANNUNCIATION, THREADED PIPE CONNECTIONS FOR INLET, ENGINE SUCTION, ENGINE RETURN, OVERFLOW, VENTS, AND DRAIN. ON UNITS WITH A RUPTURE BASIN, DRAIN SHALL BE PLUMBED THROUGH RUPTURE BASIN. A FUEL OIL COOLER SHALL BE SUPPLIED ON THE DAY TANK IF REQUIRED BY THE ENGINE MANUFACTURER AND NOT SUPPLIED BY THE ENGINE MANUFACTURER. ATMOSPHERIC VENT CAPS AND SELF-RESETTING EMERGENCY VENT CAPS SHALL BE SUPPLIED AS REQUIRED BY THE DAY TANK MANUFACTURER AND UL.
- B. THE FUEL TRANSFER PUMP SHALL BE CAPABLE OF A MINIMUM OF <4> <____> GPM, PRESSURE RELIEF TYPE, 18 FOOT LIFT, AND 200 FOOT RUN. PUMP SHALL BE BRONZE GEAR TYPE WITH STAINLESS STEEL SHAFT. ½ HP THERMALLY PROTECTED MOTOR SHALL BE SUITABLE FOR OPERATION AT 120 VOLTS, SINGLE PHASE, 60 HERTZ.
- C. PROVIDE AN AUXILIARY HAND PUMP TO BE MOUNTED ON THE DAY TANK, ROTARY TYPE, HAND PUMP CHECK VALVE AND MOTOR PUMP CHECK VALVE.
- D. TANK SHALL BE HEAVY GAUGE <STEEL> <STAINLESS STEEL> <ALUMINUM> WITH EPOXY COATED INTERIOR, AND LIGHT GRAY ENAMEL FINISH OR PAINTED TO MATCH THE ENGINE GENERATOR SET FINISH. ALL PLUMBING EXCEPT HAND PUMP AND WIRING ON THE DAY TANK SHALL BE PRECONNECTED. TOP COVER SHALL BE REMOVABLE FOR INSPECTION AND OR SERVICE.
- E. CONTROL PANEL SHALL BE UL-508 LISTED.

PART 3 - EXECUTION

1. INSTALLATION

- A. DAY TANK SHALL BE <MOUNTED ON A CONCRETE PAD> <WALL MOUNTED> NEAR THE ENGINE GENERATOR SET. ALL DAY TANK COMPONENTS, ACCESSORIES, AND FITTINGS SHALL BE READILY ACCESSIBLE FOR INSPECTION AND OR MAINTENANCE AND AS REQUIRED FOR THE FUEL OIL SUPPLY SYSTEM PIPING INSTALLATION AS SPECIFIED IN DIVISION 15.

- B. PROVIDE CONDUIT, WIRING, AND MAKE ALL CONNECTIONS REQUIRED FOR A COMPLETE INSTALLATION. INSTALL ALL WIRING WITHIN THE GENERATOR ROOM IN RIGID CONDUIT AND LIQUIDTIGHT CONDUIT AS SPECIFIED IN SECTION 16110 AND 16114.
- C. REMOTE ALARM FOR LOW FUEL LEVEL AND LEAK DETECTION SHALL BE ANNUNCIATED <AS A TROUBLE SIGNAL ON THE BUILDING FIRE ALARM SYSTEM.> <ON THE GENERATOR REMOTE ANNUNCIATOR PANEL.>

END SECTION 16215