

System Verification Checklist

[Project Name]

 System: **Emergency Generator**
 Location:

Tag:

 Service:
 Building:

<i>Installation Check/Reference</i>	<i>Provided</i>	<i>Initials</i>	<i>Date</i>	<i>IC</i>
Manufacturer:				EC
Model Number:				EC
1500 kW 480Y/277V/3 phase/4 wire Diesel engine generator: Cummins DQGAB 1500 (Drawing E5.0, Spec. 263213-1.2-A)				EC
2400A Molded Case Circuit Breaker, insulated case, electronic trip, 100% rated (E5.0, 263213-2.6-A)				EC
7 Sets of #500 MCM and #400 MCM Ground in 3-1/2" C from generator CB to panel EP (E5.0)				EC
1" Conduit with control wiring installed from generator to Fire Command Center (E5.0)				EC
Verify the application of manufacturer recommended torque values applied to all electrical power terminations (260519-3.4-A)				EC
Equipment is clean and clear of dust/dirt (260000-1.26-B)				EC
Equipment labels permanently affixed (260000-1.17-B)				EC
Extra materials furnished (Fuses, Indicator Lamps & Filters), (263213-1.9-A)				EC
Coolant jacket heater installed (263213-2.3-F)				EC
Coolant System installed with specified antifreeze mixture (263213-2.3-H)				EC
Muffler/Silencer installed (263213-2.3-I)				EC
Air-Intake Filter installed (263213-2.3-J)				EC
Battery Charger installed and wired (263213-2.3-8)				EC
Fuel Storage tank installed with tank level indicator and vandal-resistant cap (263213-2.4-B)				EC
Generator pad has minimum 3'0" clearance on all sides of generator for access (RFI #310)				EC
Indicating and Protective Devices and Controls Installed				
AC Voltmeter				EC
AC ammeter				EC
AC frequency meter				EC

Remarks: **IC**-Installing Contractor; **SM**-Sheet Metal Contractor; **MC**-Mechanical Contractor; **EC**-Electrical Contractor; **CC**-Controls Contractor; **ELV**-Elevator Contractor

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Indicating and Protective Devices and Controls Installed (continued)				
DC Voltmeter (alternator battery charging)				EC
Engine-coolant temperature gage				EC
Engine lubricating-oil pressure gage				EC
Running-time meter				EC
Ammeter-voltmeter, phase-selector switch(es)				EC
Generator-voltage adjusting rheostat				EC
Fuel tank derangement alarm				EC
Fuel tank high-level shutdown of fuel supply alarm				EC
Generator overload				EC
Connection to Data Link installed (263213-2.5-F)				EC
Common Remote Audible Alarm features:				
Overcrank shutdown				EC
Coolant low-temperature alarm				EC
Control switch not in auto position				EC
Battery-charger malfunction alarm				EC
Battery low-voltage alarm				EC
Remote Emergency-Stop switch installed (263213-2.5-H)				EC
Generator ground-fault protection installed (263213-2.6-B)				EC
Stator winding thermostatically controlled strip heater installed (263213-2.7-I)				EC
Outdoor Generator-Set Enclosure				
Installed and anchored on concrete foundation (263213-2.8-A-1,2)				EC
Thermostatically controlled space heater installed (263213-2.8-A-3)				EC
Louvers equipped with bird screens (263213-2.8-A-4)				EC
Hinged doors with padlock provisions (263213-2.8-A-5)				EC
Muffler located inside enclosure (263213-2.8-A-8)				EC

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Outdoor Generator-Set Enclosure				
30 kVA step-down transformer and panelboard for connection to equipment within the enclosure (263213-2.8-C)				EC
Switched AC and DC interior lighting system in enclosure (263213-2.8-D)				EC
Convenience outlet (263213-2.8-E)				EC
Vibration Isolation Devices installed as specified (263213-2.9 & 3.2-C)				EC
Equipment ground equipment complies with "Grounding and Bonding for Electrical Systems" (260526, 263213-3.3-A)				EC
Wiring connections comply with "Low-Voltage Electrical Power Conductors and Cables" (260519, 263213-3.3-B)				EC
Identify system components according to "Identification for Electrical Systems" (260553, 263213-3.4-A)				EC

Notes:

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