

Emergency Evacuation Lighting - Central System

Last Issue Date: 09/10/2020		Type Of Service				
Activity		A	B	C	D	E
1	Check batteries and battery charger area for: a) Clear ventilation openings. b) Operation of mechanical ventilation, (if applicable). c) Safety signage in place and condition. d) Cleanliness.		Y	Y	Y	Y
2	BATTERIES: Check condition of batteries including: a) Electrolyte level in each cell, record results & adjust if necessary. *Replenish electrolyte only with water complying with AS2668. b) Terminals and connections are tight, clean and corrosion free. *Apply approved preservative coating to terminal posts & assemblies.		Y	Y	Y	Y
3	Check all cell containers for electrolyte leakage.		Y	Y	Y	Y
4	Clean all cells, battery compartments and cabinets.		Y	Y	Y	Y
5	Check and record specific gravity of electrolyte in each cell.			Y	Y	Y
6	Measure and record each battery's voltage.			Y	Y	Y
7	Check: a) Cell plate distortion and discolouration. b) Tightness of bolted connections to manufacturers recommended torque. c) Inter-cell and terminal connection resistance. d) Integrity of battery stand and / or enclosure.				Y	Y
8	BATTERY CHARGER: Check battery charger condition and operation including: a) Output current and voltage and record results. b) Equipment for proper ventilation. c) Equipment for damaged, stressed or heated components. d) Operation of all meters, indicators and lamps. e) Calibration of meters against calibrated instrument & record results. f) Test all alarms. g) Clean the cubicle.		Y	Y	Y	Y
9	ELECTRICAL: a) Check all connections are tight, clean and corrosion free. b) Check the flexible lead, plug top and terminals condition. c) Check and test the continuity of the earth wire.				Y	Y
10	CENTRAL INVERTERS: a) Visually inspect components for any condition which could cause malfunction. b) Check D.C input voltage and current and record in the logbook. c) Check the readings against the data in the operating and maintenance manual to ensure that they are within the output tolerance limits of the inverter. d) Check the A.C output voltage and current and record in the log book. e) Check the readings against data in the operating and maintenance manual to			Y	Y	Y

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	ensure that they are within the output tolerance limits given for the inverter. f) Check the calibration of voltmeters with an instrument having an accuracy of Class 1.5 or better in accordance with AS2293. g) Check the central battery system in accordance with AS2293.2 Table A3 and Table A5. Additionally, refer to procedures for Central Systems - 6 monthly and annual procedures are nominated in Appendix A.					
11	DISTRIBUTION AND CONTROL EQUIPMENT: a) Visually inspect relays, contactors, circuit breakers and fuses for any condition that could cause a malfunction. b) Check all connections for tightness. c) Check for cleanliness, clean any dust or dirt that may have accumulated within the distribution and control equipment enclosures. d) Isolate the coil circuits of all sensing relays or contactors from the A.C supply and observe correct operation to bring on emergency lighting.			Y	Y	Y
12	EMERGENCY LUMINAIRES AND EXIT SIGNS: Check all emergency luminaires for correct operation and replace any defective lamps. NOTES: For indirect lighting systems, carry out the following checks: - a) Check that the emergency luminaires of the directional beam type, if used, are aimed in such a manner that the beam will not be directed into the eyes of the persons moving through the designated area. b) Clean all light emitting and reflecting surfaces.		Y	Y	Y	Y
13	Check to ensure that the emergency luminaires and exit signs operate in correct relationship to the normal lighting in the designated area, refer Section 2 AS2293.1. Conduct all check in accordance with AS2293.2 Table A2. Record all results as a Pass or Fail (P or F) for each item.			Y	Y	Y
14	SYSTEM CHECK - MANUAL DISCHARGE TEST: * Follow safety and operational directives as per AS2293.2 and report and record any failures and: a/ Check battery capacity. b/ Undertake a partial discharge test - 6 monthly. c/ Undertake a full discharge test - 12 monthly. d/ Check operation of all alarms. e/ Check and record boost voltage and float voltage. f/ Check normal operation after system is reset.			Y	Y	Y
15	SYSTEM CHECK - AUTOMATIC DISCHARGE TEST: * Follow safety and operational directives as per AS2293.2 and report and record any failures and: Check the status of system and luminaires on system display.			Y	Y	Y
16	Check Light Source Life (LSL) maintained LED luminaires and exit signs in accordance with AS2293.2 Table A6.					Y

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17	Record the results in the logbook and submit a customer service report (in accordance with AS2293.2 Table A1) to the FMSP.		Y	Y	Y	Y

Special Comments and Technical Data

B SERVICE MONTHLY.
 C SERVICE 6 MONTHLY.
 D SERVICE ANNUAL.
 E SERVICE 10 YEARLY.

WHERE DISCREPANCIES BETWEEN THE MANUFACTURERS'S RECOMMENDATIONS AND THIS TDS (ACTIVITIES AND FREQUENCIES) OR ANY REFERENCED TDS OCCURS, THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.
 NOTE: CERTAIN ACTIVITIES MAY NEED TO BE DONE MORE FREQUENTLY DUE TO SITE CONDITIONS.

A SPECIALIST FIRE SUB-CONTRACTOR IS REQUIRED FOR THIS WORK WHO IS COMPETENT TO UNDERTAKE THE SERVICE FOR THE SPECIFIC SYSTEM AND CONFIGURATION.

CELL VOLTAGES ARE TO BE MEASURED WITH AN INSTRUMENT HAVING AN ACCURACY OF CLASS 1.5 OR BETTER AS PER AS1042 AND MEASURED TO TWO DECIMAL PLACES. NEUTRALISE AND CLEAN ANY SPILT ELECTROLYTE.

WHERE SHUTDOWN OF SUPPLY IS REQUIRED FOR INSPECTION PURPOSES (AND REFER TO F16A FOR THE B SERVICE TESTING) LIAISE AND CO-OPERATE WITH THE AGENCY SITE REPRESENTATIVE IN ARRANGING THE TIME TO REDUCE ANY DISRUPTION TO THE AGENCY'S OPERATIONS.

APPLICABLE STANDARDS: AS1042, AS2293.1 AS2293.2, AS2668.

THIS REGULATORY SERVICE IS TO REFLECT INSPECTION, TESTING AND MAINTENANCE REQUIREMENTS OF ESSENTIAL SAFETY ITEMS OF MINISTERIAL BUILDING STANDARD MBS 002 AND THE PRESCRIBED STANDARD AS2293.2.

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