

Emergency Evacuation Lighting - Centr System Power

Last Issue Date: 18/07/2013		Type Of Service				
Activity		A	B	C	D	E
1	Check batteries and battery charger area for:- * clear ventilation openings. * operation of mechanical ventilation, (if applicable). * safety signage in place and condition. * cleanliness.		Y	Y	Y	
2	BATTERIES Check condition of batteries including:- * electrolyte level in each cell, record results & adjust if necessary (replenish electrolyte only with water complying with AS2668) * terminals and connections are tight, clean and corrosion free. (apply approved preservative coating to terminal posts & assemblies)		Y	Y	Y	
3	Ccheck cell containers for electrolyte leakage.		Y	Y	Y	
4	Clean all cells, battery compartments and cabinets.		Y	Y	Y	
5	Check and record specific gravity of electrolyte in each cell.			Y	Y	
6	Measure and record battery voltage. * With the battery on float charge, measure the overall battery voltage and individual cell voltages.			Y	Y	
7	Check- * cell plate distortion and discolouration. * tightness of bolted connections to manufactures recommendations recommended torque. * inter cell and terminal connection resistance. * integrity of battery stand and/or enclosure.				Y	
8	BATTERY CHARGER Check battery charger condition and operation including:- * output current and voltage and record results. * equipment for proper ventilation. * equipment for damaged, stressed or heated components. * operation of all meters, indicators and lamps. * calibration of meters against calibrated instrument & record results. * test all alarms. * clean cubicle.		Y	Y	Y	
9	Check all connections are tight, clean and corrosion free.				Y	
10	Check flexible lead, plugtop and terminals condition.				Y	
11	Check and test continuity of earth wire.				Y	
12	Check that battery earth fault detection system, if provided, operates satisfactorily.				Y	
13	CENTRAL INVERTERS * Visually inspect components for any condition which could cause malfunction. * Check D.C. input voltage and current and record in the log book. Check readings			Y	Y	

**Disclaimer** -This TDS is intended to provide guidance only to support Preventative Maintenance servicing activities. All TDS users are encouraged to read and understand the full [Conditions of Use](#) provided on the final page of this document and on the DPTI website.

For more information please contact the applicable Facilities Management Service Provider.



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Department of Planning,  
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	against data in the operating and maintenance manual to ensure that they are within the output tolerance limits of the inverter. * Check A.C. output voltage and current and record in the log book. Check the readings against data in the operating and maintenance manual to ensure that they are within the output tolerance limits given for the inverter. * Check the calibration of voltmeters with an instrument having an accuracy of class 1.5 or better in accordance with AS 1042.					
14	DISTRIBUTION AND CONTROL EQUIPMENT * Visually inspect relays, contactors, circuit breakers and fuses for any condition that could cause a malfunction. * Check all connections for tightness. * Check for cleanliness, clean any dust or dirt that may have accumulated within the distribution and control equipment enclosures. * Isolate the coil circuits of all sensing delays or contactors from the AC supply and observe correct operation to bring on emergency lighting.			Y	Y	
15	SYSTEM CHECK  MANUAL DISCHARGE TEST. * Follow safety and operational directives as per AS 2293.2. * Check battery capacity. * Partial discharge test - 6 monthly. * Full discharge test - 12 monthly. * Check operation of all alarms. * Check and record boost voltage and float voltage. * Check normal operation after system is reset.  AUTOMATIC DISCHARGE TEST * Check status of system and luminaries on system display. (Report and record failures)			Y	Y	
16	Carry out battery performance tests at two year intervals.					Y
17	Record all results in log book.		Y	Y	Y	Y

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## Special Comments and Technical Data

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THE B, C, D & E SERVICES TO BE CARRIED OUT MONTHLY, SIX MONTHLY, ANNUALLY AND EVERY TWO YEARS RESPECTIVELY.

- \* IT IS INTENDED THAT THIS SCHEDULE & CONTRACTOR ACTIVITIES REFLECT INSPECTION AND TESTING OF ESSENTIAL SAFETY ITEMS OF DEVELOPMENT ACT 1993, MINISTERS SPECIFICATION SA 76.
- \* MANDATORY SERVICE AS PRESCRIBED IN AS 2293.2
- \* WHERE SHUT DOWN OF SUPPLY IS REQUIRED FOR INSPECTION AND TESTING PURPOSES LIAISE AND COOPERATE WITH THE CLIENT IN ARRANGING DATES AND TIMES TO REDUCE TO A MINIMUM INTERFERENCE TO THE CLIENT'S OPERATIONS.
- \* 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.
- \* CARRY OUT BATTERY PERFORMANCE TESTS AT TWO YEAR INTERVALS.
- \* SERVICING OF EMERGENCY LUMINARIES AND EXIT SIGNS AS PER TECHNICAL DATA SCHEDULE 17A MUST BE CARRIED OUT IN CONJUNCTION WITH THIS TECHNICAL DATA SCHEDULE.

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