

Batteries & Battery Charger (E Services)

Activity		Type Of Service				
		A	B	C	D	E
Last Issue Date: 04/03/2019						
1	BATTERIES WITH VENTED CELLS (Activities 1-5):					Y
2	Check the battery and battery charger area for: a) Clear ventilation openings. b) Operation of mechanical ventilation (if applicable). c) Safety signage - check the location and condition. d) Cleanliness.					Y
3	BATTERIES - Check the condition of the batteries including: a) Record the electrolyte level in each cell and adjust if necessary. b) The terminals and connections. Check they are tight, clean and corrosion free. Note: apply approved preservative coating to the terminal posts & assemblies if required.					Y
4	Check all cell containers for electrolyte leakage.					Y
5	Clean all cells, battery compartments and cabinets.					Y
6	BATTERIES WITH SEALED CELLS (Activities 6-10):					Y
7	Check the battery and battery charger area for: a) Clear ventilation openings. b) Operation of mechanical ventilation (if applicable). c) Safety signage - check the location and condition. d) Cleanliness.					Y
8	BATTERIES - Check the condition of the batteries including: a) Record the electrolyte level in each cell and adjust if necessary. b) The terminals and connections. Check they are tight, clean and corrosion free. Note: apply approved preservative coating to the terminal posts & assemblies if required.					Y
9	Check all cell containers for electrolyte leakage.					Y
10	Clean all cells, battery compartments and cabinets.					Y
11	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 and record results. f) Test all alarms. g) Clean the cubicle.					Y
12	Check and record the specific gravity of electrolyte in each cell.					Y
13	Measure and record each battery's voltage.					Y
14	Check:					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.



Government of South Australia  
Department of Planning,  
Transport and Infrastructure

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<b>Activity</b>						
	a) For cell plate distortion and discolouration. b) The tightness of bolted connections are to the manufacturer's recommended torque. c) Inter-cell and terminal connection resistance. d) Integrity of battery stand or enclosure.					
15	Check all connections are tight, clean and corrosion free.					Y
16	Check flexible lead, plugtop and terminals condition.					Y
17	Check and test continuity of earth wire.					Y
18	Carry out a battery performance test - refer to AS2676.1 Appendix I and AS2676.2 Appendix H for information. The performance test shall test the ability of the battery to operate to the duty cycle required of it by the UPS and load to which it is connected. This should generally be carried out with an external load bank connected to the UPS. See special comments for more information.					Y
19	Record the results in the log book.					Y

**Special Comments and Technical Data**

E SERVICE 2 YEARLY  
 REFER TO E14A FOR THE B SERVICES.  
 REFER TO E14B FOR THE C & D SERVICES.  
 THIS SERVICE SPLIT TO BE DONE ONLY FOR APPROVED SITES.  
 WHERE SHUT DOWN OF SUPPLY IS REQUIRED FOR INSPECTION AND TESTING PURPOSES LIASE WITH THE SITE REPRESENTATIVE TO ARRANGE A SUITABLE TIME TO MINIMISE ANY INTERFERENCE TO THE SITE OPERATIONS.  
 BATTERY VOLTAGES ARE TO BE MEASURED WITH AN INSTRUMENT HAVING AN ACCURACY OF CLASS 1 OR BETTER AS PER AS2676.1 APPENDIX B AND AS2676.2 APPENDIX A.  
 MEASURE VOLTAGES TO TWO DECIMAL PLACES.  
 NEUTRALISE AND CLEAN UP ANY SPILT ELECTROLYTE.  
 BATTERY PERFORMANCE TESTS FOR SOLAR POWER OR UPS SYSTEMS MAY NEED TO BE DONE ANNUALLY DEPENDING ON MANUFACTURER'S RECOMMENDATIONS AND SITE CONDITIONS.

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