

Hospital Generator (D Elect. service)

Activity		Type Of Service				
		A	B	C	D	E
Last Issue Date: 17/01/2018						
1	STATIC CHECKS (Activities 1-7)				Y	
2	FUEL ALARM SYSTEM: a) Check the system is operational & correctly calibrated; & b) Check the alarm is correctly connected to the BMS and the BMS effectively transmits the alarm to the maintenance staff.				Y	
3	Check earthing connections and continuity and all other electrical connections.				Y	
4	Check cable terminations especially for integrity, cleanliness and signs of overheating.				Y	
5	Check brushes and slippings commutator (where applicable).				Y	
6	Check the circuit breaker and trip setting.				Y	
7	Undertake a general inspection of the area, including: a) Check the lighting; b) Check the ventilation openings are clear and any mechanical ventilation is operating correctly; c) Check the condition and location of the safety signage; d) Check for general cleanliness; and e) Check the communications (phone lines etc.) operate correctly.				Y	
8	DYNAMIC CHECKS (Activities 8-16):				Y	
9	Check the condition and operation of the starting system.				Y	
10	Check the instrument panel starting sequence.				Y	
11	Check and record the battery charging voltage with the generator running.				Y	
12	Check, measure & record the output amps, voltage & frequency at: a) No load conditions. b) Load conditions.				Y	
13	AUTOMATIC TRANSFER SWITCH (IF FITTED): (This service has the same restrictions as the load tests). a) Check the condition and operation; b) Simulate a mains power failure allowing the generator to start & checking the automatic changeover sequence operates correctly; & c) After mains power is restored check that the generator runs on for the pre-set period and that the automatic changeover resets itself to its normal operating position.				Y	
14	ANNUAL LOAD TEST: a) Check on the oil, cooling water and fuel levels before commencing. b) Refer to the manufacturer's Operational Manual for the test procedure and intervals to record the results. The default interval is 15 minutes. With the Generator running - c) Run or load the generator to the hospital's full essential load for 4 hours to check the overall performance of the system. This can be done in 3 ways: c1) Using a smart load bank (if installed) and if the hospital's full essential load is				Y	

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	metered or a controller is installed; or c2) Switching the Hospital's essential power supply to the generator when mains power is available (if a changeover switch is installed); or c3) Using an external (portable) load bank and if the hospital's full essential load is metered or a controller is installed. (Where the standing load (Option c2) is below 40% of rated output an external load bank must be connected to make up the shortfall). d) Provide a written report. Record as a minimum: - Voltage. - Load amps. - Water temperature. - Oil pressure. - RPM. - Oil used. - Diesel used. - The date, duration and performance of the generator. e) Once the test is done check the oil, cooling water & fuel levels. LOAD TEST NOTES: 1) If a manual changeover switch is installed, extra time and care is to be taken where large motors are installed to avoid excessive inrush currents while energising back to mains supply. For example, a 10sec delay for a 40kW motor is considered adequate. 2) Do not undertake the Load Test if it causes significant disruption to the hospital services. 3) Site approval is required before the Load Test is undertaken. Refer to the Special Comments for notes on this annual activity.					
15	Check, measure and record the load current of the generator output per phase during the Load Test.				Y	
16	Check that all systems are back to their normal positions.				Y	
17	Provide a written report on the condition and operation of the generator including any costed remedial work.				Y	
18	Record all readings and results in the log book.				Y	

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## Special Comments and Technical Data

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D SERVICE ANNUAL - REFER TO E03BB FOR THE FULL D SERVICE  
REFER TO E03BBX FOR MECH. D SERVICE  
REFER TO E03B FOR THE FULL SERVICE SCHEDULE  
REFER TO E03BAA FOR THE A SERVICE  
REFER TO E03BA FOR THE B SERVICE  
REFER TO E03BC FOR THE C SERVICE  
REFER TO E03BE FOR THE E SERVICE  
THIS SERVICE SPLIT ONLY TO BE UNDERTAKEN FOR APPROVED SITES.  
PRIOR TO EACH LOAD TEST APPROVAL IS REQUIRED FROM THE SITE.  
LOAD TESTS CAN ONLY BE UNDERTAKEN IF THERE IS NO SIGNIFICANT  
DISRUPTION TO HOSPITAL SERVICES. NOTE: FOR THIS TO BE DONE  
THE SITE MUST HAVE THE APPROPRIATE ESSENTIAL & NON ESSENTIAL  
POWER SET UP SUCH AS UPS, CIRCUITRY AND SWITCHING.  
NOTIFY THE SITE REPRESENTATIVE AND THE FACILITY MANAGER IF  
IT IS NOT POSSIBLE TO UNDERTAKE A LOAD TEST.  
THE ACTIVITIES AND FREQUENCIES DETAILED ABOVE ARE OF A  
GENERIC NATURE AND MAY NEED TO BE VARIED TO SUIT THE  
MANUFACTURER'S RECOMMENDATIONS AND SITE REQUIREMENTS.  
FOR ADDITIONAL INFORMATION REFER TO AS3009.  
THE MONTHLY LOAD TEST REQUIREMENTS  
ARE THE MINIMUM TO MEET AS3009. THE ANNUAL LOAD TEST  
REQUIREMENTS (ACTIVITY 14) ARE MORE STRINGENT THAN THE  
MONTHLY LOAD TEST REQUIREMENTS & ARE RECOMMENDED GOOD  
PRACTICE TO: CHECK THE GENERATOR IS CAPABLE OF SUSTAINING  
THE ESSENTIAL LOAD FOR AT LEAST 4 HOURS.  
SEALED BATTERIES THAT CANNOT BE TOPPED UP WITH WATER & ARE  
ON CONSTANT CHARGE ARE NOT TO BE USED AS THEY MAY EXPLODE.  
VENTED STATIONARY LEAD ACID TYPE BATTERIES COMPLYING WITH  
AS4029.1 ARE TO BE USED. REPLACEMENT TIMEFRAME IS 70%  
(DEFAULT) OF THE DESIGN LIFE NOMINATED BY THE MANUFACTURER,  
EXAMPLES ARE:  
DESIGN LIFE OF 10 YEARS = REPLACE AT 7 YEARS (DEFAULT)  
DESIGN LIFE OF 5 YEARS = REPLACE AT 3.5 YEARS (DEFAULT)  
SERVICE TECHNICIANS MUST WEAR CORRECT PPE DUE TO THE  
POTENTIAL EXPOSURE TO BATTERY (SULPHURIC) ACID.

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