ENGINE GENERATOR SET INSPECTION CHECKLIST For use of this form see TM 5-694; the proponent agency is COE.													
SECTION A - CUSTOMER DATA													
1. PLANT/BUILDING		2. LOCAT	ΓΙΟΝ	I			3. JOB NUMBER						
4. EQUIPMENT	:	5. CIRCU	IIT D	ESIGNAT	ION		6. DATE (YYYYMMDD)						
7. TEST EQUIPMENT TYPE/BRAND AND CALIBRATION DATE						8. TESTED BY							
SECTION B - EQUIPMENT DATA													
9. MANUFACTURER 1	0. STYLES/S.O.			11. VOLTAGE RATING				12. kW RATING					
13. CIRCUIT BREAKER SIZE/INTERRUPTIN	ΓING			14. WET BULB TEMPERATURE 15. DRY BU						ULB TEMPERATURE			
SECTION C - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION													
16. CHECK POINT	С	OND*	N	IOTES	CHECK POINT CON						NOTES		
EXTERIOR OF EQUIPMENT					EQUII	PMENT IDENTIFIC	CATION						
COMPLETENESS OF ASSEMBLY					BRACING								
EQUIPMENT ROTATION					PROF	PER PHASE CONN	NECTIONS						
CHECK OIL LEVEL					REFE	RENCE DRAWING	GS						
CHECK FUEL LEVEL					WORKING CLEARANCE								
PROPER EQUIPMENT GROUNDING					ANCHORAGE								
CHECK METERS/GAUGES					ALL FILTERS AND VENTS CLEAR								
TIGHTNESS OF BOLTED CONNECTIONS				CHECK EQUIPMENT ENVIRONMENTAL CLASSIFICATION									
VERIFY GOVERNOR AND REGULATOR					CHECK FOR PROVISIONS OF SPILL CONTAINER								
CHECK VIBRATION					CONT	ROL SYSTEM							
CHECK BATTERIES					CHEC	K FUEL FILTER							
CHECK RADIATOR FLUID						K ALARM INDICA R FOR EACH FUI		ER					
PROPER SYSTEM GROUND													
SECTION D - ELECTRICAL TESTS													
17. INSULATION RESISTANCE @ V		A-GRD		B-GR	D	C-GRD	A-B			B-C	C-A		
POLARIZATION INDEX RATIO = 10 MINUTE/1 MINUTE													
DC OVERPOTENTIAL TEST @ V													

18. NOTES

- 1. PERFORM 5 MEASUREMENTS AT ONE MINUTE INTERVALS.
- 2. DC HIPOT MEASUREMENTS SHOULD BEGIN AT 20% OF MAXIMUM TEST VOLTAGE AND INCREASE IN EQUAL INTERVALS.

MAX DC TEST VOLTAGE = R (2 x NAMEPLATE RATING) x 1.6

WHERE R = .8 FOR DC TEST ON INSTALLATION

WHERE R = .6 FOR DC TEST AFTER SERVICE

(TEST MEASUREMENTS SHOULD NOT EXCEED MANUFACTURER'S RECOMMENDATION)

			SE	CTION D	- ELECT								'	
19. MEASUREMENT DESCRIPTION		VOLTAGE AND CURRENT MEASUREMENTS												
					AGE**			CURRENT**						
			A-N	B-N	C-N	A-B	B-C	C-A	Α	В	С	N	G	
20. LOAE	TESTS AS A PERC	ENTAGE OF GI	ENERAT	OR RATII	NG									
	NO LOAD	25 %		75 %		100 %		110% (PRIME ENGINE ONLY)						
A-N														
B-N														
C-N														
А-В														
В-С														
C-A														
Α														
В														
С														
N														
G														
21. NOTE	-S				<u> </u>									

- 1. VOLTAGE MEASUREMENT TO BE MADE AFTER GENERATOR IS STARTED AND CONNECTED TO LOAD (CAN USE LOAD BANK).
- 2. DURING COMMISSIONING OF GENERATOR SETS OR ANY EQUIPMENT, A REPRESENTATIVE OF THE MANUFACTURING COMPANY OR SUPPLIER MUST BE PRESENT TO WITNESS AND/OR PERFORM THE TESTS.
- 3. ENGINE GENERATOR TESTING IS A VERY INTENSIVE PROCESS AND REQUIRES A 10 TO 14 HOUR DAY DEPENDING ON THE EQUIPMENT BEING COMMISSIONED. SUPPLIER/MANUFACTURER NORMALLY SUPPLY GENERATOR TESTING LOAD REQUIREMENTS.
- 4. VERIFY ALL SYSTEM CHECK POINTS DURING LOAD CHANGES AND RECORD PER SPECIFIED REQUIREMENTS AND/OR EQUIPMENT MANUFACTURER.
- 5. PERFORM AND RECORD ENGINE MANUFACTURER'S RECOMMENDED CHECKS AND INSPECTIONS.

*CONDITION: A=ACCEPTABLE; R=NEEDS REPAIR, REPLACEMENT OR ADJUSTMENT; C=CORRECTED; NA=NOT APPLICABLE **NOTE VALUE AND PHASING

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