ENGINE GENERATOR SET INSPECTION CHECKLIST For use of this form see TM 5-694; the proponent agency is COE.													
		SI	ECTION	A - C	USTON	/IER DATA							
1. PLANT/BUILDING	2. LOCAT	2. LOCATION					3. JOB NUMBER						
4. EQUIPMENT	5. CIRCU	5. CIRCUIT DESIGNATION					6. DATE (YYYYMMDD)						
7. TEST EQUIPMENT TYPE/BRAND AND CALIBRATION DATE						8. TESTED BY							
		SF	CTION	B - EC	QUIPMI	ENT DATA							
9. MANUFACTURER	YLES/S.O.			11. V	OLTAGE RATING	l	12. kW RATING						
13. CIRCUIT BREAKER SIZE/INTERRUPT	ATING			14. W	ET BULB TEMPE	15.	15. DRY BULB TEMPERATURE						
SE	CTION	C - VISUAI	_ AND E	LECT	RICAL	/MECHANICAL IN	NSPECTION						
16. CHECK POINT		COND*	NOTE	≣S		CHECK		COND*		NOTES			
EXTERIOR OF EQUIPMENT				EQUIPMENT IDENTIFICATION									
COMPLETENESS OF ASSEMBLY				BRACING									
EQUIPMENT ROTATION					PROPER PHASE CONNECTIONS								
CHECK OIL LEVEL					REFE	RENCE DRAWING	GS				\perp		
CHECK FUEL LEVEL					WORK	KING CLEARANC	E				\perp		
PROPER EQUIPMENT GROUNDING					ANCHORAGE						\perp		
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				CONTROL SYSTEM									
CHECK BATTERIES	HECK BATTERIES					CHECK FUEL FILTER							
CHECK RADIATOR FLUID					CHECK ALARM INDICATORS: PROPER COLOR FOR EACH FUNCTION						\perp		
PROPER SYSTEM GROUND													
		SE	CTION E) - EL	ECTRIC	CAL TESTS							
17. INSULATION RESISTANCE		A-GRD		B-GRI	D	C-GRD	A-B			B-C		C-A	
@ V													
POLARIZATION INDEX RATIO = 10 MINUTE/1 MINUTE													
DC OVERPOTENTIAL TEST													

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		ESTS (C								
19. MEASUREMENT DESCRIPTION			VOLTAGE AND CURRENT MEASUREMENTS												
WILASUNLIVILINI DESCRIFTION		VOLTAGE**						CURRENT**							
			A-N	B-N	C-N	A-B	B-C	C-A	Α	В	С	N	G		
20. LOAD	TESTS AS A PERC	ENTAGE OF GE	ENERAT	OR RATI	NG										
	NO LOAD	25 %		75 %		100 %		110% (PRIME ENGINE ONLY)							
A-N															
B-N															
C-N															
А-В															
В-С															
C-A															
А															
В															
С															
N															
G				<u> </u>									<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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