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. LOCA	TION			3. JOB NU	IOB NUMBER					
4. EQUIPMENT		5. CIRCI	UIT DESIGNA	ATION		6. DATE ()	6. DATE (YYYYMMDD)					
7. TEST EQUIPMENT TYPE/BRAND AN	SECTION A - CUSTOMER DATA 2. LOCATION 3. JOB NUMBER 5. CIRCUIT DESIGNATION 6. DATE (YYYYMMDD) YPE/BRAND AND CALIBRATION DATE 8. TESTED BY SECTION B - EQUIPMENT DATA 10. STYLES/S.O. 11. VOLTAGE RATING 12. kW RATING SIZE/INTERRUPTING RATING 14. WET BULB TEMPERATURE SECTION C - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION OINT COND* NOTES CHECK POINT COND* NOTE SEMBLY BRACING PROPER PHASE CONNECTIONS REFERENCE DRAWINGS WORKING CLEARANCE ANCHORAGE ALL FILTERS AND VENTS CLEAR CHECK EQUIPMENT ENVIRONMENTAL CLASSIFICATION CHECK EQUIPMENT ENVIRONMENTAL CHECK EQUIPMENT ENVIRONMENT											
9. MANUFACTURER	TYLES/S.C).	11. VOLTAGE RATING			12.	12. kW RATING					
13. CIRCUIT BREAKER SIZE/INTERRUP	ΓING R	ATING		14. \	WET BULB TEMP	15. DRY	5. DRY BULB TEMPERATURE					
SE	CTION	C - VISUA	L AND ELEC	TRICAL	L/MECHANICAL II	NSPECTION						
16. CHECK POINT	COND*	NOTES		CHECK	COND*	NOTE	≣S					
EXTERIOR OF EQUIPMENT				EQUII	EQUIPMENT IDENTIFICATION							
COMPLETENESS OF ASSEMBLY				BRAC	CING							
EQUIPMENT ROTATION				PROP	'ER PHASE CONN	IECTIONS						
CHECK OIL LEVEL				REFE	RENCE DRAWING	is						
CHECK FUEL LEVEL				WOR	KING CLEARANC	E						
PROPER EQUIPMENT GROUNDING				ANCH	HORAGE							
CHECK METERS/GAUGES												
TIGHTNESS OF BOLTED CONNECTIONS	;											
VERIFY GOVERNOR AND REGULATOR												
CHECK VIBRATION			CONT	CONTROL SYSTEM								
CHECK BATTERIES					CK FUEL FILTER							
CHECK RADIATOR FLUID					CK ALARM INDICA OR FOR EACH FUI							
PROPER SYSTEM GROUND												
	CAL TESTS			Т								
17. INSULATION RESISTANCE		A-GRD	B-GF	RD C-GRD		A-B		B-C	C-A			
@ V												
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 = $R(2 \times NAMEPLATE RATING) \times 1.6$

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	RICAL T	ESTS (C	Continued)					
19. MEASUREMENT DESCRIPTION			VOLTAGE AND CURRENT MEASUREMENTS											
WILAGOREWIEW DESCRIE HOW		VOLTAGE**						CURRENT**						
			A-N	B-N	C-N	A-B	B-C	C-A	Α	В	С	N	G	
				L										
20. LOA	D TESTS AS A PER	RCENTAGE OF	GENERA	TOR RA	TING			1						
	NO LOAD	25 %	75 %			100 %		110% (PRIME ENGINE ONLY)						
A-N														
B-N														
C-N														
A-B														
В-С														
C-A														
Α														
В														
С														
N														
G														
21. NOT	ES							I						

- 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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