

CIRCUIT SWITCHER INSPECTION CHECKLIST

For use of this form see TM 5-694; the proponent agency is COE.

SECTION A - CUSTOMER DATA

1. PLANT/BUILDING	2. LOCATION	3. JOB NUMBER
4. EQUIPMENT	5. CIRCUIT DESIGNATION	6. DATE (YYYYMMDD)
7. TEST EQUIPMENT TYPE/BRAND AND CALIBRATION DATE		8. TESTED BY

SECTION B - EQUIPMENT DATA

9. MANUFACTURER	10. STYLES/S.O.	11. VOLTAGE RATING	12. CURRENT RATING
13. INTERRUPTING RATING		14. BUS BRACING	

SECTION C - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION

15. CHECK POINT	COND*	NOTES	CHECK POINT	COND*	NOTES
EXTERIOR OF EQUIPMENT			EQUIPMENT IDENTIFICATION		
COMPLETENESS OF ASSEMBLY			BRACING		
ELECTRICAL/MECHANICAL INTERLOCKS			PROPER PHASE CONNECTION AND COLOR CODE		
PROPER GROUNDING			HAZARDOUS LOCATION		
ALIGNMENT AND ROTATION LIMITS			CONTACT RESISTANCE		
TIGHTNESS OF BOLTED CONNECTIONS			ANCHORAGE		
PROPER LUBRICATION			REFERENCE DRAWINGS		
INTERRUPTER TIME TRAVEL			CONTROL CIRCUIT OPERATION		
MANUAL OPERATION			ENERGIZED OPERATION		

SECTION D - ELECTRICAL TESTS

16. INSULATION RESISTANCE	A-GRD	B-GRD	C-GRD	A-B	B-C	C-A					
@ V											
17. MEASUREMENT DESCRIPTION	VOLTAGE AND CURRENT MEASUREMENTS										
	VOLTAGE**						CURRENT**				
	A-N	B-N	C-N	A-B	B-C	C-A	A	B	C	N	G
	A-N	B-N	C-N	A-B	B-C	C-A	A	B	C	N	G
A-N	B-N	C-N	A-B	B-C	C-A	A	B	C	N	G	

18. NOTES:

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

TRANSFORMER INSPECTION CHECKLIST

For use of this form see TM 5-694; the proponent agency is COE.

SECTION A - CUSTOMER DATA

1. PLANT/BUILDING	2. LOCATION	3. JOB NUMBER
4. EQUIPMENT	5. CIRCUIT DESIGNATION	6. DATE (YYYYMMDD)
7. TEST EQUIPMENT TYPE/BRAND AND CALIBRATION DATE		8. TESTED BY

SECTION B - EQUIPMENT DATA

9. MANUFACTURER	10. STYLES/S.O.	11. VOLTAGE RATING	12. CURRENT RATING
13. WET BULB TEMPERATURE	14. DRY BULB TEMPERATURE	15. ENCLOSURE TYPE	16. FREQUENCY

SECTION C - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION

17. CHECK POINT	COND*	NOTES	CHECK POINT	COND*	NOTES
EXTERIOR OF EQUIPMENT			PROPER PHASE CONNECTION AND COLOR CODE		
COMPLETENESS OF ASSEMBLY			HAZARDOUS LOCATION		
PROPER GROUNDING			WORKING CLEARANCE		
CONDITION OF INSULATION			ANCHORAGE		
TIGHTNESS OF BOLTED CONNECTIONS			REFERENCE DRAWINGS		
SEALS AND OIL LEVELS			TURNS RATIO MEASUREMENTS		
WINDING CONFIGURATION			AUXILIARY DEVICE OPERATION		

SECTION D - ELECTRICAL TESTS

18. INSULATION RESISTANCE	A-GRD	B-GRD	C-GRD	A-B	B-C	C-A
@ V						
POLARIZATION INDEX						
TURNS RATIO TEST						
POWER FACTOR						
PROPER VOLTAGE						

19. NOTES:

1. PERFORM GROUND RESISTANCE TESTS PRIOR TO ENERGIZING EQUIPMENT.
2. GROUND RESISTANCE TESTS MUST BE PERFORMED IN DRY CONDITIONS AND SHALL BE PERFORMED 48 HOURS AFTER RAINFALL.

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

SWITCHGEAR INSPECTION CHECKLIST

For use of this form see TM 5-694; the proponent agency is COE.

SECTION A - CUSTOMER DATA

1. PLANT/BUILDING	2. LOCATION	3. JOB NUMBER	
4. CIRCUIT DESIGNATION	5. CIRCUIT FED FROM	6. CIRCUIT FED TO	7. DATE (YYYYMMDD)
8. TEST EQUIPMENT TYPE/BRAND AND CALIBRATION DATE		9. ENCLOSURE TYPE	10. TESTED BY

SECTION B - EQUIPMENT DATA

11. MANUFACTURER	12. STYLES/S.O.	13. VOLTAGE RATING	14. CURRENT RATING
15. INTERRUPTING RATING		16. BUS BRACING	

SECTION C - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION

17. CHECK POINT	COND*	NOTES	CHECK POINT	COND*	NOTES
EXTERIOR OF EQUIPMENT			EQUIPMENT IDENTIFICATION		
REFERENCE DRAWINGS			BRACING		
ELECTRICAL/MECHANICAL DRAWOUT MECHANISM AND INTERLOCKS			PROPER PHASE CONNECTION AND COLOR CODE		
BUS AND SUPPORT INSULATORS			HAZARDOUS LOCATION		
PROPER LUBRICATION			WORKING CLEARANCE		
CLEAN SWITCHGEAR			ANCHORAGE		
CHECK MANUAL OPERATION OF CIRCUIT BREAKERS AND RELAYS			ALL FILTERS AND VENTS CLEAR		
TEST RELAYS (ACCORDING TO ELEC. STUDY RECOMMENDATIONS)			CHECK PROPER EQUIPMENT GROUNDING TO GROUNDING BUS		
CHECK INSTRUMENT AND RELAY COVERS			SWITCHES FOR FREEDOM OF MOVEMENT		
CHECK CIRCUIT BREAKER INSULATING PARTS			CHECK INCOMING LINE CONNECTIONS TO MAIN BUS		
CHECK CIRCUIT BREAKER CONTACT SURFACES			VERIFY PROPER SIZE BREAKERS/FUSES		
18. VERIFY LIFT OR BUILT WINCH FOR HANDLING HEAVY PARTS			19. VERIFY CORRECT OPERATION OF INDICATING LIGHTS, METERS, GAUGES, ETC.		
20. VERIFY BOLTED BUS CONNECTIONS TO MANUFACTURER RECOMMENDATIONS			21. VERIFY SPACE HEATER IS PROVIDED AND OPERATIONAL		

SECTION D - ELECTRICAL TESTS

22. INSULATION RESISTANCE @ V	A-GRD	B-GRD	C-GRD	A-B	B-C	C-A					
23. MEASUREMENT DESCRIPTION	VOLTAGE AND CURRENT MEASUREMENTS										
	VOLTAGE**						CURRENT**				
	A-N	B-N	C-N	A-B	B-C	C-A	A	B	C	N	G

24. NOTES

1. VOLTAGE MEASUREMENTS TO BE MADE AFTER UTILITY SOURCE IS CONNECTED TO INCOMING BREAKER WITH THE UTILITY BREAKER OPEN.
2. INSULATION RESISTANCE TESTS MUST BE PERFORMED PRIOR TO ENERGIZING EQUIPMENT.

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

**NOTE VALUE AND PHASING

POWER CABLE INSPECTION CHECKLIST

For use of this form see TM 5-694; the proponent agency is COE.

SECTION A - CUSTOMER DATA

1. PLANT/BUILDING	2. LOCATION	3. JOB NUMBER
4. EQUIPMENT	5. CIRCUIT DESIGNATION	6. DATE (YYYYMMDD)
7. TEST EQUIPMENT TYPE/BRAND AND CALIBRATION DATE		8. TESTED BY

SECTION B - EQUIPMENT DATA

9. MANUFACTURER	10. STYLES/S.O.	11. VOLTAGE RATING	12. CURRENT RATING
13. WET BULB TEMPERATURE	14. DRY BULB TEMPERATURE	15. ENCLOSURE TYPE	16. FREQUENCY

SECTION C - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION

17. CHECK POINT	COND*	NOTES	CHECK POINT	COND*	NOTES
EXTERIOR OF CABLE RUN			BRACING AND SUPPORTS		
PROPER GROUNDING AT TERMINAL LUGS TO BUS			CHECK PROPER SIZE OF CABLE		
REFERENCE EXISTING 1-LINE DIAGRAMS			TIGHTNESS AND NEATNESS OF TERMINATIONS		
PROPER LUBRICATION			ANCHORAGE		
CHECK GROUNDING AT SPLICE JOINTS			CHECK PROPER SIZE TERMINAL LUGS AND MATERIAL		
CHECK CABLE PHASE COLOR CODE			CHECK CABLE PHASE COORDINATION		
SHIELD CONTINUITY			CABLE IDENTIFICATION		

SECTION D - ELECTRICAL TESTS

18. INSULATION RESISTANCE	A-GRD	B-GRD	C-GRD	A-B	B-C	C-A
APPLIED VOLTAGE						

19. NOTES

1. PERFORM HIGH POTENTIAL TESTS IN ACCORDANCE WITH SPECIFIED REQUIREMENTS OR MANUFACTURER(S) RECOMMENDATIONS.

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

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. LOCATION	3. JOB NUMBER
4. EQUIPMENT	5. CIRCUIT DESIGNATION	6. DATE (YYYYMMDD)
7. TEST EQUIPMENT TYPE/BRAND AND CALIBRATION DATE		8. TESTED BY

SECTION B - EQUIPMENT DATA

9. MANUFACTURER	10. STYLES/S.O.	11. VOLTAGE RATING	12. KW RATING
13. CIRCUIT BREAKER SIZE/INTERRUPTING RATING		14. WET BULB TEMPERATURE	15. DRY BULB TEMPERATURE

SECTION C - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION

16. CHECK POINT	COND*	NOTES	CHECK POINT	COND*	NOTES
EXTERIOR OF EQUIPMENT			EQUIPMENT IDENTIFICATION		
COMPLETENESS OF ASSEMBLY			BRACING		
EQUIPMENT ROTATION			PROPER PHASE CONNECTIONS		
CHECK OIL LEVEL			REFERENCE DRAWINGS		
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			CONTROL SYSTEM		
CHECK BATTERIES			CHECK FUEL FILTER		
CHECK RADIATOR FLUID			CHECK ALARM INDICATORS: PROPER COLOR FOR EACH FUNCTION		
PROPER SYSTEM GROUND					

SECTION D - ELECTRICAL TESTS

17. INSULATION RESISTANCE	A-GRD	B-GRD	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.

$$\text{MAX DC TEST VOLTAGE} = R (2 \times \text{NAMEPLATE RATING}) \times 1.6$$

WHERE R = .8 FOR DC TEST ON INSTALLATION

WHERE R = .6 FOR DC TEST AFTER SERVICE

(TEST MEASUREMENTS SHOULD NOT EXCEED MANUFACTURER'S RECOMMENDATION)

SECTION D - ELECTRICAL TESTS (Continued)

19. MEASUREMENT DESCRIPTION	VOLTAGE AND CURRENT MEASUREMENTS										
	VOLTAGE**						CURRENT**				
	A-N	B-N	C-N	A-B	B-C	C-A	A	B	C	N	G

20. LOAD TESTS AS A PERCENTAGE OF GENERATOR RATING					
	NO LOAD	25 %	75 %	100 %	110% (PRIME ENGINE ONLY)
A-N					
B-N					
C-N					
A-B					
B-C					
C-A					
A					
B					
C					
N					
G					

21. NOTES
- VOLTAGE MEASUREMENT TO BE MADE AFTER GENERATOR IS STARTED AND CONNECTED TO LOAD (CAN USE LOAD BANK).
 - 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.
 - 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.
 - VERIFY ALL SYSTEM CHECK POINTS DURING LOAD CHANGES AND RECORD PER SPECIFIED REQUIREMENTS AND/OR EQUIPMENT MANUFACTURER.
 - 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

UTILITY AND GENERATOR CIRCUIT BREAKER INSPECTION CHECKLIST

For use of this form see TM 5-694; the proponent agency is COE.

SECTION A - CUSTOMER DATA

1. PLANT/BUILDING	2. LOCATION	3. JOB NUMBER
4. EQUIPMENT	5. CIRCUIT DESIGNATION	6. DATE (YYYYMMDD)
7. TEST EQUIPMENT AND CALIBRATION DATE		8. TESTED BY

SECTION B - EQUIPMENT DATA

9. MANUFACTURER	10. STYLES/S.O.	11. VOLTAGE RATING	12. CURRENT RATING
13. CIRCUIT BREAKER SIZE AND INTERRUPTING RATING		14. EQUIPMENT CLASSIFICATION	15. FREQUENCY

SECTION C - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION

16. CHECK POINT	COND*	NOTES	CHECK POINT	COND*	NOTES
EXTERIOR OF EQUIPMENT			BRACING		
COMPLETENESS OF ASSEMBLY			PROPER PHASE CONNECTIONS AND COLOR CODE		
ELECTRICAL/MECHANICAL INTERLOCKS			HAZARDOUS LOCATION		
PROPER GROUNDING			WORKING CLEARANCE		
CONTACT RESISTANCE			ANCHORAGE		
AUXILIARY WIRING			REFERENCE DRAWINGS		
PROPER LUBERICATION			CHECK MANUAL OPERATION OF CIRCUIT BREAKER AND RELAYS		
TIGHTNESS OF BOLTED CONNECTIONS			RELAYS TESTED (ACCORDING TO ELECTRICAL STUDY RECOMMENDATIONS)		
EQUIPMENT IDENTIFICATION					

SECTION D - ELECTRICAL TESTS

17. INSULATION RESISTANCE	A-GRD	B-GRD	C-GRD	A-B	B-C	C-A
@ V						

18. NOTES

1. MANUFACTURER'S INSTALLATION TESTS/CHECKS SHOULD BE IMPLEMENTED.

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

BACK-UP POWER SYSTEM INSPECTION CHECKLIST

For use of this form see TM 5-694; the proponent agency is COE.

SECTION A - CUSTOMER DATA

1. PLANT/BUILDING	2. LOCATION	3. JOB NUMBER
4. EQUIPMENT	5. CIRCUIT DESIGNATION	6. DATE (YYYYMMDD)
7. TEST EQUIPMENT AND CALIBRATION DATE		8. TESTED BY

SECTION B - EQUIPMENT DATA

9. MANUFACTURER	10. STYLES/S.O.	11. VOLTAGE RATING	12. CURRENT RATING
13. EQUIPMENT CLASSIFICATION	14. FREQUENCY	15. WET BULB TEMPERATURE	16. DRY BULB TEMPERATURE

SECTION C - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION

17. CHECK POINT	COND*	NOTES	CHECK POINT	COND*	NOTES
COMPONENT INSPECTION/TESTING			WIRING VISUAL VERIFICATION		
ENERGIZE AND TEST SYSTEM			UTILITY TRIP/GENERATOR BUILDING LOAD TEST		
INSTALLATION INSPECTION/TESTING			TIGHTNESS OF BOLTED CONNECTIONS		
GENERATOR CONTROLS AND FUNCTIONS			CHECK FOR PROPER SIZE BREAKER		
WIRING CONTINUITY TESTING			REFERENCE DRAWINGS		
WORKING CLEARANCE			PROPER PHASING CONNECTIONS AND COLOR CODE		
SWITCHGEAR CONTROL FUNCTIONS					
PERFORM AUTOMATIC TRANSFER SYSTEM (ATS) FUNCTIONS UNDER THE ADJACENT CONDITIONS.	A. OPERATE NORMAL POWER				
	B. ALL GENERATORS OPERATE				
	C. GENERATORS 1 AND 2 OPERATE				
	D. GENERATORS 2 AND 3 OPERATE				
	E. GENERATORS 1 AND 3 OPERATE				
	F. RETURN TO NORMAL POWER AFTER EACH OF THE ABOVE TESTS				
	G. PARALLEL WITH UTILITY UPON RETURN TO NORMAL POWER (ITEMS B THROUGH E)				

SECTION D - ELECTRICAL TESTS

18. MEASUREMENT DESCRIPTION	VOLTAGE AND CURRENT MEASUREMENTS										
	VOLTAGE**						CURRENT**				
	A-N	B-N	C-N	A-B	B-C	C-A	A	B	C	N	G
	A-N	B-N	C-N	A-B	B-C	C-A	A	B	C	N	G

19. NOTES

1. CHECK FOR PROPER GROUNDING CONNECTIONS PRIOR TO ENERGIZING.

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

**NOTE VALUE AND PHASING

TRANSFER SWITCH INSPECTION CHECKLIST

For use of this form see TM 5-694; the proponent agency is COE.

SECTION A - CUSTOMER DATA

1. PLANT/BUILDING	2. LOCATION	3. JOB NUMBER
4. EQUIPMENT	5. CIRCUIT DESIGNATION	6. DATE (YYYYMMDD)
7. TEST EQUIPMENT AND CALIBRATION DATE		8. TESTED BY

SECTION B - EQUIPMENT DATA

9. MANUFACTURER	10. STYLES/S.O.	11. VOLTAGE RATING	12. CURRENT RATING
13. SWITCH RATING		14. ENCLOSURE TYPE	15. FREQUENCY

SECTION C - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION

CHECK POINT	COND*	NOTES	CHECK POINT	COND*	NOTES
EXTERIOR OF EQUIPMENT			EQUIPMENT IDENTIFICATION		
COMPLETENESS OF ASSEMBLY			BRACING		
INDICATING LIGHTS			PROPER PHASE CONNECTIONS AND COLOR CODE		
SWITCH FOR FREEDOM OF MOVEMENT			ENVIRONMENTAL CLASSIFICATION		
ELECTRICAL/MECHANICAL INTERLOCKS			WORKING CLEARANCE		
ADJUST TIMING SETTINGS			ANCHORAGE		
PROPER EQUIPMENT GROUNDING			REFERENCE DRAWINGS		
CONTACT RESISTANCE			PROPER LUBRICATION		
TIGHTNESS OF BOLTED CONNECTIONS			PT AND CONTROL FUSE SIZE		

SECTION D - ELECTRICAL TESTS

17. INSULATION RESISTANCE	A-GRD	B-GRD	C-GRD	A-B	B-C	C-A
@ V						

18. NOTES

1. SWITCH TRANSFERS ON LOSS OF NORMAL POWER AT SPECIFIED TIME DELAY.
2. SWITCH TRANSFER BACK TO NORMAL POWER ON RETURN OF NORMAL POWER SERVICE AT SPECIFIED TIME DELAY.
3. AUXILIARY CONTACTS OPERATE CORRECTLY DURING NORMAL AND ABNORMAL POWER CONDITIONS.

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

UNINTERRUPTIBLE POWER SUPPLY (UPS) INSPECTION CHECKLIST

For use of this form see TM 5-694; the proponent agency is COE.

SECTION A - CUSTOMER DATA

1. PLANT/BUILDING	2. LOCATION	3. JOB NUMBER	
4. EQUIPMENT	5. CIRCUIT DESIGNATION FED TO	6. CIRCUIT DESIGNATION FED FROM	7. DATE (YYYYMMDD)
8. TEST EQUIPMENT AND CALIBRATION DATE			9. TESTED BY

SECTION B - EQUIPMENT DATA

10. MANUFACTURER	11. STYLES/S.O.	12. VOLTAGE RATING	13. KVA RATING
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SECTION C - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION

14. CHECK POINT	COND*	NOTES	CHECK POINT	COND*	NOTES
EXTERIOR OF EQUIPMENT			EQUIPMENT IDENTIFICATION		
COMPLETENESS OF ASSEMBLY			BRACING		
INDICATING LIGHTS			PROPER PHASE CONNECTIONS AND COLOR CODE		
SWITCH FOR FREEDOM OF MOVEMENT			ENVIRONMENTAL CLASSIFICATION		
MANUAL OPERATION OF CIRCUIT BREAKERS			WORKING CLEARANCE		
TIMING SETTINGS			ANCHORAGE		
PROPER GROUNDING			REFERENCE DRAWINGS		
PROPER VOLTAGE CONNECTIONS			CONTROL FUSE SIZE AND CONTINUITY		
TIGHTNESS OF BOLTED CONNECTIONS			VERIFY ALL TRANSFER SWITCH OPERATIONS		
TEST CIRCUIT BREAKERS WITH CURRENT INJECTION TESTER					

SECTION D - ELECTRICAL TESTS

15. VAC (OUTPUT)	A-GRD	B-GRD	C-GRD	A-B	B-C	C-A

16. NOTES

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

BATTERY INSPECTION CHECKLIST

For use of this form see TM 5-694; the proponent agency is COE.

SECTION A - CUSTOMER DATA

1. PLANT/BUILDING	2. LOCATION	3. JOB NUMBER
4. EQUIPMENT	5. CIRCUIT DESIGNATION	6. DATE (YYYYMMDD)
7. TEST EQUIPMENT AND CALIBRATION DATE		8. TESTED BY

SECTION B - EQUIPMENT DATA

9. MANUFACTURER	10. STYLES/S.O.	11. VOLTAGE RATING	12. CURRENT RATING
13. ENCLOSURE TYPE	14. FREQUENCY	15. WET BULB TEMPERATURE	16. DRY BULB TEMPERATURE

SECTION C - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION

17. CHECK POINT	COND*	NOTES	CHECK POINT	COND*	NOTES
EXTERIOR OF EQUIPMENT			EQUIPMENT IDENTIFICATION		
COMPLETENESS OF ASSEMBLY			BRACING		
ELECTROLYTE LEVEL			ENVIRONMENTAL CLASSIFICATION		
VENTS SEALED AND PLUGS INSTALLED			WORKING CLEARANCE		
PROPER POLARITY CONNECTIONS			ANCHORAGE		
TIGHTNESS OF BOLTED CONNECTIONS			CHECK FOR EXHAUST FAN IF IN ENCLOSED ENVIRONMENT		
PROPER GROUNDING			REFERENCE DRAWINGS		
CHECK FOR SHOWER AND EYEWASH STATION			CHECK FOR ACCESS TO BATTERIES FOR O & M		
TEST CIRCUIT BREAKERS WITH CURRENT INJECTION TESTER			CHECK UPS CONTROL PANEL ALARMS		
TEST CIRCUIT BREAKERS			TEST TRANSFER SWITCH		

SECTION D - ELECTRICAL TESTS

18. MEASUREMENT DESCRIPTION	VOLTAGE AND CURRENT MEASUREMENTS				
	VOLTAGE**		CURRENT**		
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE	GROUND
BATTERY VOLTAGE & CURRENT					

19. NOTES

1. MEASURE RESISTANCE BETWEEN CELL CONNECTIONS.
2. MEASURE VOLTAGE ACROSS EACH CELL.
3. CHECK SPECIFIC GRAVITY OF EACH CELL.
4. TEST AND MAINTAIN BATTERY (CELLS) IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

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

**NOTE VALUE AND PHASING

UNINTERRUPTIBLE POWER SUPPLY (UPS) SWITCHBOARD INSPECTION CHECKLIST

For use of this form see TM 5-694; the proponent agency is COE.

SECTION A - CUSTOMER DATA

1. PLANT/BUILDING	2. LOCATION	3. JOB NUMBER
4. EQUIPMENT	5. CIRCUIT DESIGNATION	6. DATE (YYYYMMDD)
7. TEST EQUIPMENT TYPE/BRAND AND CALIBRATION DATE		8. TESTED BY

SECTION B - EQUIPMENT DATA

9. MANUFACTURER	10. STYLES/S.O.	11. VOLTAGE RATING	12. CURRENT RATING
13. BUS RATING/CB INTERRUPTING RATING			

SECTION C - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION

14. CHECK POINT	COND*	NOTES	CHECK POINT	COND*	NOTES
EXTERIOR OF EQUIPMENT			BRACING		
COMPLETENESS OF ASSEMBLY			PROPER PHASE CONNECTION AND COLOR CODE		
INDICATING LIGHTS			ENVIRONMENTAL CLASSIFICATION		
MANUAL OPERATION OF CIRCUIT BREAKERS			WORKING CLEARANCE		
PROPER GROUNDING			ANCHORAGE		
CONDITION OF INSULATION			REFERENCE DRAWINGS		
PROPER VOLTAGE CONNECTIONS			VERIFY PROPER SIZES OF BREAKERS AND FUSES		
TIGHTNESS OF BOLTED CONNECTIONS			CHECK PROPER EQUIPMENT GROUNDING TO GROUNDING BUS		
EQUIPMENT IDENTIFICATION					

SECTION D - ELECTRICAL TESTS

15. BUS INSULATION RESISTANCE	A-GRD	B-GRD	C-GRD	A-B	B-C	C-A
@ V						

16. NOTES

1. TEST ALL CIRCUIT BREAKERS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

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

UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM INSPECTION CHECKLIST

For use of this form see TM 5-694; the proponent agency is COE.

SECTION A - CUSTOMER DATA

1. PLANT/BUILDING	2. LOCATION	3. JOB NUMBER
4. EQUIPMENT	5. CIRCUIT DESIGNATION	6. DATE (YYYYMMDD)
7. TEST EQUIPMENT		8. TESTED BY

SECTION B - VISUAL AND ELECTRICAL/MECHANICAL INSPECTION

9. CHECK POINT	COND*	NOTES	CHECK POINT	COND*	NOTES
COMPONENT INSPECTION/TESTING			ENERGIZE AND TEST SYSTEM		
INSTALLATION INSPECTION/TESTING			UTILITY TRIP TEST		
WIRING VISUAL VERIFICATION			LOADED TRANSFER TEST (NORMAL, EMERGENCY & RETURN)		
GENERATOR CONTROL FUNCTIONS			TIGHTNESS OF BOLTED CONNECTIONS		
LOADING UPS TEST			BATTERY DISCHARGE TEST		
DISCONNECT RECTIFIERS & INVERTERS SEPARATELY. DOES SYSTEM OPERATE CORRECTLY?			TEST ALL UPS DIAGNOSTIC FAULT INDICATORS		

SECTION D - ELECTRICAL TESTS

10. UPS INPUT	A-N	B-N	C-N	A-B	B-C	C-A	A	B	C	N	G
UPS OUTPUT	A-N	B-N	C-N	A-B	B-C	C-A	A	B	C	N	G
UPS SWITCHBOARD HARMONIC (THD)	A-N	B-N	C-N	A-B	B-C	C-A	A	B	C	N	G

11. NOTES

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