

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
	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

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