

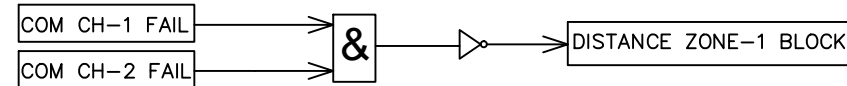
IMPORTANT NOTES:

1. DC SELECTION FOR PROTECTION SYSTEM

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PANEL DC-1	MAIN-1, TC-1, BB PU-A(≥400kV)
PANEL DC-2	MAIN-2, TC-2, BB PU-B(≥400kV)
BUSBAR DC-1	BB CU-A(≥400kV)
BUSBAR DC-2	BB CU-B(≥400kV)
SELECTED DC	CB CLOSE, BCU, STAND ALONE LBB, FOR SINGLE BUSBAR RELAY-CU & PU(≤ 220kV)

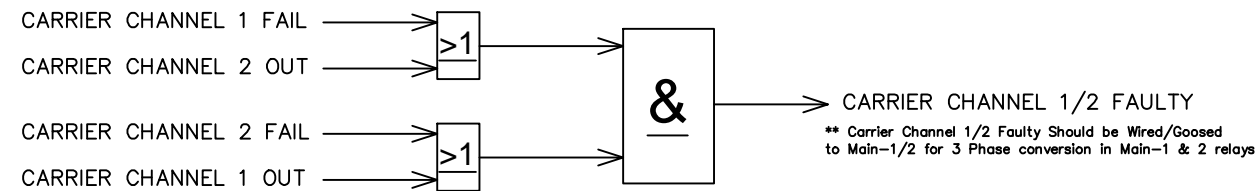
- FOR CENTRALISED BUSBAR PROTECTION 96 TRIP RELAY SHOULD BE PROVIDED.
- IN THE SCHEME, CMR(CONTACT MULTIPLICATION RELAY) MUST NOT BE USED EXCEPT FOR TRIP EXTENSION TO CIRCUIT BREAKER.
- RETRIP SHOULD BE EXTENDED TO TC-1 & TC-2 COIL THROUGH DIRECT CONTACT OF PU-A & PU-B IN DECENTRALISED BUSBAR SCHEME AND THROUGH STANDALONE LBB IN CENTRALISED BUSBAR SCHEME.
- ALL THE TRIPPING CIRCUIT SHOULD BE ISOLATED BY TEST PLUG CONTACT.
- IN CASE OF FUTURE BAY(WITHOUT CT & CB), TIE CB LBB BACKTRIP & TIE CT CORE HAS TO BE EXTENDED TO BUSBAR WITH FUTURE BAY. ALSO BUSBAR TRIP(FUTURE BAY SIDE) TO BE EXTENDED TO TIE CB OF HALF DIA.
- IN CASE OF FUTURE BAY(WITH CT & CB), TIE CT CORE HAS TO BE EXTENDED TO BUSBAR WITH FUTURE BAY. IN ADDITION TO THIS, TIE BAY LBB BACKTRIP ASSIGNMENT HAS TO BE IMPLEMENTED AS PER COMPLETE DIA SPECIFIC SCHEME. ALSO BUSBAR TRIP(FUTURE BAY SIDE) TO BE EXTENDED TO TIE & MAIN CB(FUTURE BAY).
- AR CLOSE COMMAND SHOULD ISSUED TO CB ONLY AFTER ENSURING THE CB INTERLOCK CONDITION.
- MINIMUM BREAKER CLOSING TIME - 200ms, MINIMUM TRIPPING TIME - 100ms.

DIFFERENTIAL COMM FAIL LOGIC

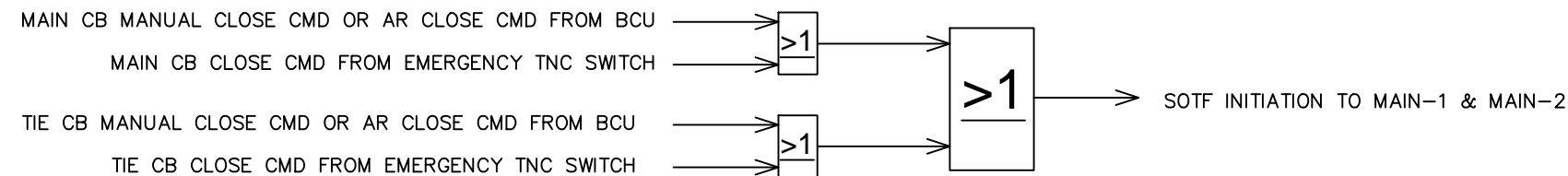


NOTE: APPLICABLE ONLY FOR THE DIFFERENTIAL PROTECTION RELAY

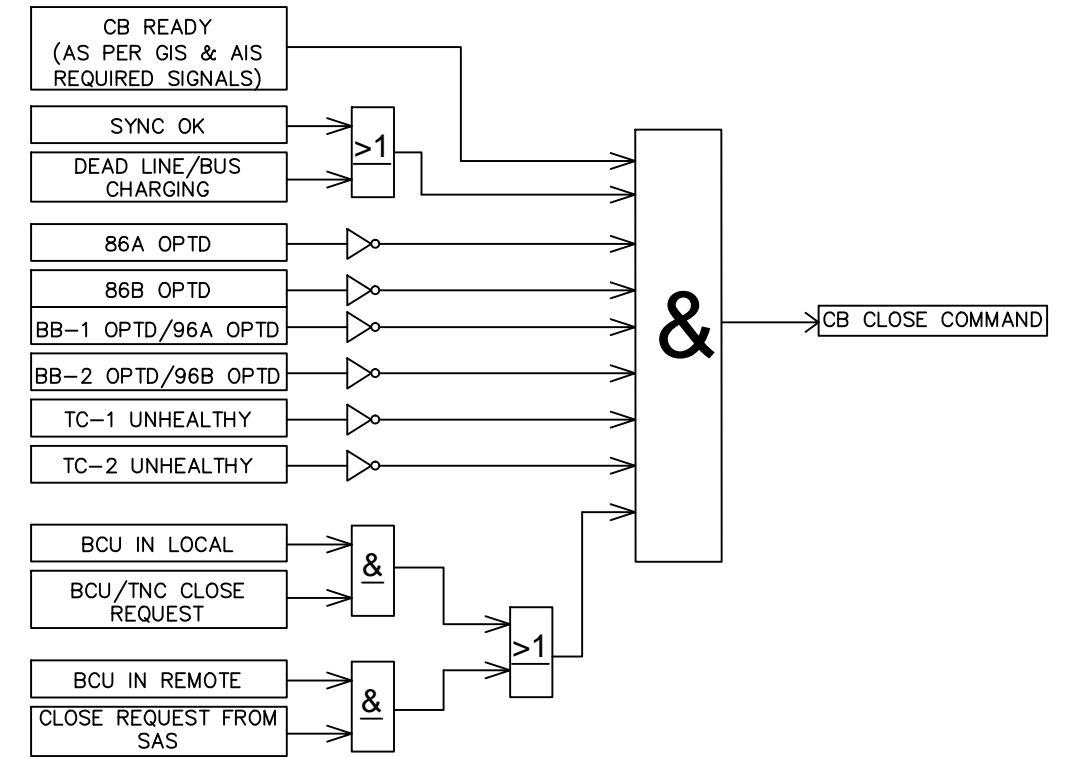
CARRIER FAIL/OUT LOGIC



SOTF INITIATION LOGIC



INDICATIVE CB CLOSE SOFTWARE INTERLOCK LOGIC IN BCU



INDICATIVE CB HARDWARE INTERLOCK LOGIC IN CRP

