PROTECTION FUNCTION	ANSI CODE	OUT PUT	MAIN BREAKER						TIE BREAKER								REACTOR BREAKER															REMARK
			TO CB TRIP COIL-1	TO CB TRIP COIL-2	AUTO RECLOSE INITIATION	BLOCK AUTO RECLOSE	AUTO RECLOSE LOCKOUT	LBB PROTN INITIATION	TO CB TRIP COIL-1	TO CB TRIP COIL-2	AUTO RECLOSE INITIATION	BLOCK AUTO RECLOSE	AUTO RECLOSE LOCKOUT	LBB PROTN INITIATION	CLOSE MAIN CB	CLOSE TIE CB	TO CB TRIP COIL-1	TO CB TRIP COIL-2	CLOSE CB	LBB PROTN INITIATION	3PH MASTER TRIP RELAY GROUP-A , MAIN BAY	3PH MASTER TRIP RELAY GROUP-B , MAIN BAY	3PH MASTER TRIP RELAY GROUP-A , TIE BAY	3PH MASTER TRIP RELAY GROUP-B , TIE BAY	DIRECT TRIP SEND CHANNEL-1	DIRECT TRIP SEND CHANNEL-2	REACTOR MASTER TRIP RELAY ,GROUP-A	REACTOR MASTER TRIP RELAY ,GROUP-B	BUSBAR PROTECTION	NGR BYPASS COMMAND	DR TRIGGER	
REACTOR DIFFERENTIAL PROT(PDIF, 87R)$$	87R	3Ph	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	TP	TP	–	–	IP	$$ IF 1–PH REACTOR BANK USED THEN CT SELECTION SHOULD BE AS PER SELECTION LOGIC OF R, Y, B AND SPARE REACTOR IN SERVICE
REACTOR BACK UP IMPEDANCE(PDIS, 21R)$$ (E/F PICKUP (5SEC))**	21R	3Ph	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	TP	TP	–	IP**	IP	**BYPASS CB/ISOLATOR CLOSING WHEN E/F PICKUP(5SEC)
REACTOR RESTRICTED EARTH FAULT(PDIF, 64R)$$	64R	3Ph	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	TP	TP	–	–	IP	
REACTOR WTI TRIP##	–	3Ph	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	TP	TP	–	–	IP	## IF 1–PH REACTOR BANK USED THEN TRIPPING SHOULD BE AS PER SELECTION LOGIC OF R, Y, B AND SPARE REACTOR IN SERVICE
REACTOR PRV TRIP##	–	3Ph	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	TP	TP	–	–	IP	
REACTOR OTI TRIP##	–	3Ph	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	TP	TP	–	–	IP	
REACTOR BUCHI TRIP##	–	3Ph	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	TP	TP	–	–	IP	
REACTOR BREAKER FAIL PROTECTION RETRIP(RBRF, 50BF)	50BF	3Ph	–	–	–	–	–	–	–	–	–	–	–	–	–	–	TP	TP	–	–	–	–	–	–	–	–	–	–	–	–	IP	
REACTOR BREAKER FAIL PROTECTION BACKTRIP (RBRF, 50BF)	50BF	3Ph	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	RS	–	TP	TP	TP	TP	IP	IP	–	–	–	–	IP	
REACTOR MASTER TRIP RELAY,GROUP–A	86	3Ph	–	–	–	–	–	–	–	–	–	–	–	–	–	–	TP	TP	RS	IP	–	–	–	–	–	–	–	–	–	–	IP	
REACTOR MASTER TRIP RELAY,GROUP–B	86	3Ph	–	–	–	–	–	–	–	–	–	–	–	–	–	–	TP	TP	RS	IP	–	–	–	–	–	–	–	–	–	–	IP	
NGR MECHANICAL TRIPPING	–	3Ph	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	IP	IP	** NGR BYPASS CB/ISOLATOR CLOSING WHEN NGR MECH TRIP OPERATED

RS: – INDICATES RESET STATUS FOR CB CLOSING

TP: – INDICATES TRIP FROM PROTN. FUNCTION

IP: – INDICATES INITIATION FROM PROTN FUNCTION

पावरग्रिड POWERGRID

PROTECTION TRIP LOGIC DIAGRAM FOR SWITCHABLE L/R

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