

LOW IMPEDANCE BUS DIFFERENTIAL RELAY

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TEST DATA

Test Data No. :

Station : _____
Protected Eqpt. ID _____
Date of Test : _____
Breakers Tripped : _____

Relay Specifications:

Brand: _____
Model: _____
Serial No. _____
Manufacturing Date: _____

A. BUSBAR / BAY DATA

BUS CONFIGURATION		
BUS KV		
	MAIN CT	REMARKS
BAY 1 CT RATIO		
BAY 2 CT RATIO		
BAY 3 CT RATIO		
BAY 4 CT RATIO		
BAY 5 CT RATIO		
BAY _ CT RATIO		
BAY _ CT RATIO		

B. RELAY SETTINGS

PARAMETERS	SET VALUE
BASE CT RATIO	
OPERATING PICK-UP	
BASE POINT 1	
BASE POINT 2	
SLOPE 1	
SLOPE 2	
CT SUPERVISION ALARM	

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C. PICK-UP

BAY	EXPECTED I_{DIFF}		Type of Test	PHASE A	PHASE B	PHASE C
	FOUND	LEFT				
BAY 1			Pick-up			
			Drop-out			
BAY 2			Pick-up			
			Drop-out			
BAY 3			Pick-up			
			Drop-out			
BAY 4			Pick-up			
			Drop-out			
BAY 5			Pick-up			
			Drop-out			
BAY _			Pick-up			
			Drop-out			
BAY _			Pick-up			
			Drop-out			
RELAY TARGET/INDICATION						

D. TIME TEST

BAY	MULTIPLES I_{DIFF}	PHASE A		PHASE B		PHASE C	
		AMP	SEC	AMP	SEC	AMP	SEC
BAY 1	$I_{DIFF} > @ ___ \times I_{pick-up}$						
BAY 2	$I_{DIFF} > @ ___ \times I_{pick-up}$						
BAY 3	$I_{DIFF} > @ ___ \times I_{pick-up}$						
BAY 4	$I_{DIFF} > @ ___ \times I_{pick-up}$						
BAY 5	$I_{DIFF} > @ ___ \times I_{pick-up}$						
BAY _	$I_{DIFF} > @ ___ \times I_{pick-up}$						
BAY _	$I_{DIFF} > @ ___ \times I_{pick-up}$						

E. SLOPE/CHARACTERISTIC TEST

Test No.	CT1 (A)	CT2 (A)	Id pu	Ires pu	Remarks
1	I _A =	I _A =			
	I _B =	I _B =			
	I _C =	I _C =			
2	I _A =	I _A =			
	I _B =	I _B =			
	I _C =	I _C =			
3	I _A =	I _A =			
	I _B =	I _B =			
	I _C =	I _C =			
4	I _A =	I _A =			
	I _B =	I _B =			
	I _C =	I _C =			
COMPUTED M1 =					
COMPUTED M2 =					

F. STABILITY TEST

BAY	INJECTED CURRENT			PHASE A			PHASE B			PHASE C		
	PHASE A	PHASE B	PHASE C	I _{REST}	I _{DIFF}	Remarks	I _{REST}	I _{DIFF}	Remarks	I _{REST}	I _{DIFF}	Remarks

REMARKS: _____

G. FUNCTIONAL TESTING / SIMULATION

FUNCTION	CONTROLLING BREAKERS	SIMULATION USED		BREAKERS TRIPPED	REMARKS
		INJECTION	SIGNALLING		

Tested by : _____

Concurred by : _____

Contractor - Test Engineer

Owner's Representative

TEST INSTRUMENTS: _____

(Eqpt.ID/Make/Model/SN/ _____

Date of last calibration) _____
