TEST DATA

Test Data No. : _____
Station : _____
Protected Eqpt. ID _____
Date of Test : _____
CT Ratio : _____
PT Ratio : _____
Breakers Tripped : _____

Relay Specifications:
Brand: _____
Model: _____
Serial No. _____
Current Rating: _____
Voltage Rating: _____
Manufacturing Date: _____

A. RELAY SETTINGS

A.1 LINE DIFFERENTIAL SETTINGS

PARAMETERS	VALUE
DIFFERENTIAL CURRENT PICKUP	
CT FACTOR	
DIFFERENTIAL SLOPE	
LOCAL ADDRESS	
REMOTE ADDRESS	

B. TEST RESULTS

B.1 DIFFERENTIAL TEST

B.1.1 PICK-UP TEST (LOOPBACK)

PARAMETERS	A	B	C
CURRENT PICK-UP (A)			
RELAY INDICATION/TARGET			

B.1.2 END TO END TEST (LOOPBACK)

B.1.2.1 STABILITY TEST

Local Station : _____
Nominal Current (A) : _____
Angle Displacement (°) : _____

Remote Station : _____
Nominal Current (A) : _____
Angle Displacement (°) : _____

Phase	Measured Values (A)		
	A	B	C
Local			
Remote			
Differential			
Bias			

Phase	Measured Values (A)		
	A	B	C
Local			
Remote			
Differential			
Bias			

B.1.2.2 INCREASE CURRENT MAGNITUDE AT LOCAL END (TEST POINT 1)

Local Station : _____ Remote Station : _____

Test Current (A) _____ Test Current (A) _____

Angle Displacement (°) : _____ Angle Displacement (°) : _____

Trip Current (A) : _____ Trip Current (A) : _____

Phase	Measured Values (A)		
	A	B	C
Local			
Remote			
Differential			
Bias			

Phase	Measured Values (A)		
	A	B	C
Local			
Remote			
Differential			
Bias			

B.1.2.3 INCREASE CURRENT MAGNITUDE AT REMOTE END (TEST POINT 1)

Local Station : _____ Remote Station : _____

Test Current (A) _____ Test Current (A) _____

Angle Displacement (°) : _____ Angle Displacement (°) : _____

Trip Current (A) : _____ Trip Current (A) : _____

Phase	Measured Values (A)		
	A	B	C
Local			
Remote			
Differential			
Bias			

Phase	Measured Values (A)		
	A	B	C
Local			
Remote			
Differential			
Bias			

B.1.2.4 INCREASE CURRENT MAGNITUDE AT LOCAL END (TEST POINT 2)

Local Station : _____ Remote Station : _____

Test Current (A) _____ Test Current (A) _____

Angle Displacement (°) : _____ Angle Displacement (°) : _____

Trip Current (A) : _____ Trip Current (A) : _____

Phase	Measured Values (A)		
	A	B	C
Local			
Remote			
Differential			
Bias			

Phase	Measured Values (A)		
	A	B	C
Local			
Remote			
Differential			
Bias			

B.1.2.5 INCREASE CURRENT MAGNITUDE AT REMOTE END (TEST POINT 2)

Local Station : _____ Remote Station : _____

Test Current (A) _____ Test Current (A) _____

Angle Displacement (°) : _____ Angle Displacement (°) : _____

Trip Current (A) : _____ Trip Current (A) : _____

Phase	Measured Values (A)		
	A	B	C
Local			
Remote			
Differential			
Bias			

Phase	Measured Values (A)		
	A	B	C
Local			
Remote			
Differential			
Bias			

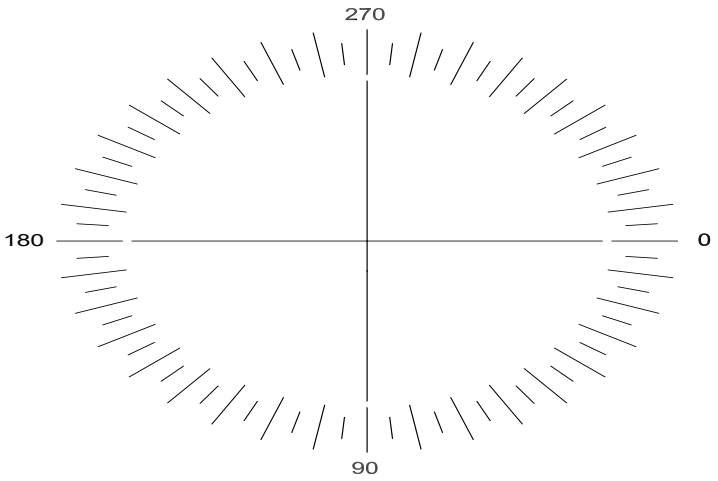
B.1.2.6 COMPUTED SLOPE

Slope Local	
Slope Remote	

REMARKS: _____

C. PARAMETER CHECK

SECONDARY VALUES				PHASE ANGLE (Out of phase for incoming; In phase for outgoing)	PRIMARY VALUES (RELAY)	PRIMARY VALUES (STATISTICAL METER)
CIRCUIT 1		CIRCUIT 2				
Parameter	Magnitude (±10% of expected input value)	Parameter	Magnitude (±10% of expected input value)	Degrees		
I_A		V_{AN}			Power Flow :	Power Flow :
		V_{BN}			MW :	MW :
		V_{CN}			MVAR :	MVAR :
I_B		V_{AN}				
		V_{BN}			I_A :	I_A :
		V_{CN}			I_B :	I_B :
I_C		V_{AN}			I_C :	I_C :
		V_{BN}			I_N	
		V_{CN}			V_{AB} :	V_{AB} :
I_N		V_{AB}			V_{BC} :	V_{BC} :
		V_{BC}			V_{CA} :	V_{CA} :
		V_{CA}				



D. RELAY OPERATING PARAMETERS

PARAMETERS	MEASURED VALUES		
	A	B	C
AUXILLIARY VOLTAGE (VDC)			
TRIPPING VOLTAGE (VDC)			
IDIFF			
IBIAS			
ILOCAL			
IREMOTE			

REMARKS: _____

E. FUNCTIONAL TESTING / SIMULATION

FUNCTION	CONTROLLING BREAKERS	SIMULATION USED		BREAKERS TRIPPED	REMARKS
		INJECTION	SIGNALLING		

Tested by :

Contractor - Test Engineer

Concurred by :

Owner's Representative

Witnessed by :

NGCP Representative

TEST INSTRUMENTS:

(Eqpt.ID/Make/Model/SN/ Date of last calibration)