

Test No:

16-12-12

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99-Y-M-41

REPORT of

RECLOSER CONTROLLER SIMULATED SURGE ARRESTER OPERATION TEST

A- Beckwith 32pin design

SPECIMEN DESCRIPTION

Recloser Control:	Beckwith 32pin					
Control Part #	M7679-V6L1ML6ELT2C0000 / M-2979-A32B01DW109SUTY0					
Control Serial #	1091					
Three-phase Recloser:	G&W Viper ST Type VIP388ER-12-1-ST					
Impulse level (BIL):	125 kV _{peak}					
Rated Voltage:	27 kV _{rms}					
Rated Current:	800 A _{rms} continuous					
Viper ST Serial No.:	2016 0824 0049	2 2				
Reference drawing: N.A.		Photographs attached:	Yes:	X	No:	11.35

Dates of Test: 14-December-2016 through 15-December-2016

REQUIREMENTS

Standard:	C37.60-2012 Section 6.111.3, "Simulated Surge Arrester Operation Test"
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Test Voltage and Current: 120 kV_{peak} (150 kV_{peak} x 0.8), 6 kA_{peak}

Configurations:

Condition	Description of Applied Impulses	Point of Application	Switch Position
Α	15 surges of (+) polarity and 15 surges of (-) polarity	source bushings	open
В	15 surges of (+) polarity and 15 surges of (-) polarity	source bushings	closed
С	15 surges of (+) polarity and 15 surges of (-) polarity	load bushings	closed
D	15 surges of (+) polarity and 15 surges of (-) polarity	properly rated transformer	open
Е	15 surges of (+) polarity and 15 surges of (-) polarity	properly rated transformer	closed

TEST RESULTS:

The recloser and controls continued to function after all surges had been applied.

CONCLUSION:

The recloser and controls complied with the requirements of IEEE Standard C37.60-2012, Section 6.11.3.

Report Prepared By:	Nader Samara, Lab Associate G&W Electric	Date:	29-December-2016
Signed by: Vinco	ent MARRI	Date:	1-12-17.

B- Beckwith 42pin design

SPECIMEN DESCRIPTION

Recloser Control:	Beckwith 42pin			
Control Part #	M7679-V6L1ML6ELT2C000	M7679-V6L1ML6ELT2C0000 / M-2979-A32B01DW109SUTY0		
Control Serial #	1091	170 14 3		
Three-phase Recloser:	G&W Viper ST Type VI	P388ER-12-1-ST		
Impulse level (BIL):	125 kV _{peak}			
Rated Voltage:	27 kV _{rms}		S .	
Rated Current:	800 A _{rms} continuous		12 , a la qu	
Viper ST Serial No.:	2016 0824 0049			
Reference drawing: N.A.		Photographs attached:	Yes: X No:	

Dates of Test: 16-December-2016 through 19-December-2016

REQUIREMENTS

Standard:	C37.60-2012 Section 6.111.3, "Simulated Surge Arrester Operation Test"
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Test Voltage and Current: 120 kV_{peak} (150 kV_{peak} x 0.8), 6 kA_{peak}

Configurations:

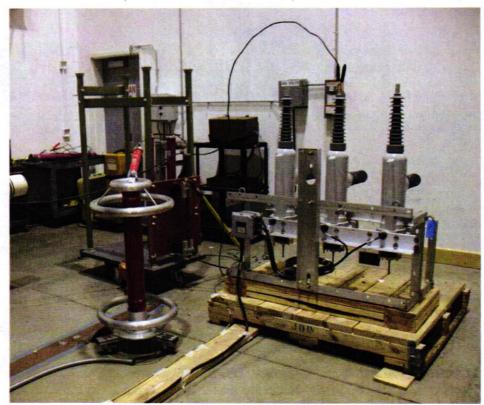
Condition	Description of Applied Impulses	Point of Application	Switch Position
A	15 surges of (+) polarity and 15 surges of (-) polarity	source bushings	open
В	15 surges of (+) polarity and 15 surges of (-) polarity	source bushings	closed
С	15 surges of (+) polarity and 15 surges of (-) polarity	load bushings	closed
D	15 surges of (+) polarity and 15 surges of (-) polarity	properly rated transformer	open
Е	15 surges of (+) polarity and 15 surges of (-) polarity	properly rated transformer	closed

TEST RESULTS:

The recloser and controls continued to function after all surges had been applied.

CONCLUSION:

The recloser and controls complied with the requirements of IEEE Standard C37.60-2012, Section 6.11.3.



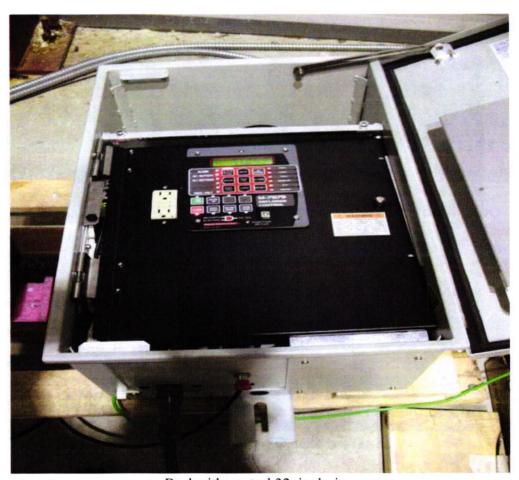
SSAO setup for recloser with 32pin design



SSAO test setup for recloser with 42pin design



SSAO test setup for the transformer



Beckwith control 32pin design



Beckwith control 42pin design



Beckwith display screen