

**REPORT**  
**of**  
**DIAMONDBACK LOAD BREAK SWITCH & BECKWITH CONTROL**  
**SIMULATED SURGE ARRESTER OPERATION TEST**

**SPECIMEN DESCRIPTION**

Load Break Switch Control:	Beckwith		
Control Part #	M-7679-V6L1ML6SLV2C0000 & M-2797-A37B01DW109SUTY0		
Control Serial #	1305		
Three-phase Unit:	Diamondback Catalog DBK386-LBS-A		
Impulse level (BIL):	150 kV <sub>peak</sub>		
Rated Voltage:	29.3 KV <sub>rms</sub>		
Rated Current:	630 A <sub>rms</sub> continuous		
Diamondback Serial No.:	17070082		
Reference drawing: Z34563222B00	Photographs attached:	Yes: <input checked="" type="checkbox"/>	No: <input type="checkbox"/>

Dates of Test: 21-June-2018 through 22-June-2018

**REQUIREMENTS**

Standard:	C37.60-2012 Section 6.111.3, "Simulated Surge Arrester Operation Test"
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 Test Voltage and Current: 120 kV<sub>peak</sub> (150 kV<sub>peak</sub> x 0.8), 6 kA<sub>peak</sub>
**Configurations:**

Condition	Description of Applied Impulses	Point of Application	Switch Position
A	15 surges of (+) polarity and 15 surges of (-) polarity	source bushings	open
B	15 surges of (+) polarity and 15 surges of (-) polarity	source bushings	closed
C	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
E	15 surges of (+) polarity and 15 surges of (-) polarity	properly rated transformer	closed

**TEST RESULTS:**

The load break switch and control continued to function after all surges had been applied.

**CONCLUSION:**

The load break switch and control complied with the requirements of IEEE Standard C37.60-2012, Section 6.11.3.

Report Prepared By: Nader Samara	Date: 25-June-2018
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**SSAO recloser setup**



**SSAO transformer setup**



**Beckwith control**