

# ENGINEERING REPORT

SUBJECT: Porcelain Station Post Design Testing – Catalog No. PSP2863001  
DATE: September 11, 2014  
PAGE 1 Test Requests: E14-03-02; E14-03-01; Report Number: R14-09-07  
E14-02-28; E14-02-29;  
M14-06-39; M14-03-04;  
M14-03-03; M14-03-02;  
M14-03-01

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## Porcelain Station Post Design Testing Catalog No. PSP2863001

### Introduction:

Samples of catalog number PSP2863001 were subjected to design testing in accordance with ANSI C29.9. This report details the results of that testing.

### Details:

All testing was performed in accordance with ANSI C29.9.

Catalog Number: PSP2863001

Clause – Test Name	Requirement	Unit #1	Unit #2	Unit #3	Average
7.2.1 – Low-Frequency Wet Withstand	230 kV	238.7	238.7	238.7	238.7 kV
7.2.2 – Critical-Impulse Flashover, Positive	610 kV	566.1 kV	577.2 kV	578 kV	574 kV
7.2.3 – Impulse Withstand	550 kV	550 kV	562 kV	567 kV	559 kV
7.2.4 – Radio-Influence Voltage (RIV)	200 $\mu$ V @ 73 kV	28.00	21.80	9.10	19.6 $\mu$ V @ 73 kV
7.2.5 – Thermal Shock	Pass	Pass	Pass	Pass	Pass
7.2.6 – Compression Strength	60000 lb	61,180*	60,830*	61,680*	>60,000
7.2.7 – Torsional Strength	40000 in-lb	81,946*	70,754*	70,688*	>70,000

\* - No Failure.

### Conclusions:

The catalog number PSP2863001 porcelain station post met all of the design test requirements for a TR-286 post with the exception of the positive polarity critical impulse flashover.

