

# ENGINEERING REPORT

SUBJECT: Porcelain Station Post Design Testing – Catalog No. PSP2083001  
DATE: September 11, 2014  
PAGE 1 Test Requests: E14-03-02; E14-03-01; Report Number: R14-09-04  
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. PSP2083001

### Introduction:

Samples of catalog number PSP2083001 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: PSP2083001

| Clause – Test Name                           | Requirement           | Unit #1 | Unit #2 | Unit #3 | Average                 |
|--|-----------------------|---------|---------|---------|-------------------------|
| 7.2.1 – Low-Frequency Wet Withstand          | 60 kV                 | 62.3    | 62.3    | 62.3    | 62.3 kV                 |
| 7.2.2 – Critical-Impulse Flashover, Positive | 170 kV                | 187 kV  | 199 kV  | 193 kV  | 193 kV                  |
| 7.2.3 – Impulse Withstand                    | 150 kV                | 179.8   | 179.1   | 180.1   | 179.6 kV                |
| 7.2.4 – Radio-Influence Voltage (RIV)        | 100 $\mu$ V @<br>15kV | 1.00    | 1.10    | 1.10    | 1.07 $\mu$ V<br>@ 15 kV |
| 7.2.5 – Thermal Shock                        | Pass                  | Pass    | Pass    | Pass    | Pass                    |
| 7.2.6 – Compression Strength                 | 10000 lb              | 10,420* | 10,230* | 10,660* | >10,000                 |
| 7.2.7 – Torsional Strength                   | 8000 in-lb            | 44,225* | 32,746* | 33,078* | >32,000                 |

\* - No Failure.

### Conclusions:

The catalog number PSP2083001 porcelain station post met all the design test requirements for the TR-208 post insulator.

