

ENGINEERING REPORT

SUBJECT: Porcelain Station Post Design Testing – Catalog No. PSP2883001
DATE: September 11, 2014
PAGE 1 Test Requests: E14-03-02; E14-03-01; Report Number: R14-09-08
E14-02-28; E14-02-29;
M14-06-39; M14-03-04;
M14-03-03; M14-03-02;
M14-03-01

Porcelain Station Post Design Testing Catalog No. PSP2883001

Introduction:

Samples of catalog number PSP2883001 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: PSP2883001

Clause – Test Name	Requirement	Unit #1	Unit #2	Unit #3	Average
7.2.1 – Low-Frequency Wet Withstand	275 kV	285.4	285.4	285.4	285.4 kV
7.2.2 – Critical-Impulse Flashover, Positive	710 kV	709.8 kV	719.8 kV	705.6 kV	711.7 kV
7.2.3 – Impulse Withstand	650 kV	673 kV	685 kV	674 kV	677 kV
7.2.4 – Radio-Influence Voltage (RIV)	200 μ V at 88 kV	8.8	18.3	16.7	14.6 μ V @ 88 kV
7.2.5 – Thermal Shock	Pass	Pass	Pass	Pass	Pass
7.2.6 – Compression Strength	60000 lb	60,940*	60,850*	60,760*	>60,000
7.2.7 – Torsional Strength	40000 in-lb	70,547*	70,341*	70,844*	>70,000

* - No Failure

Conclusions:

The catalog number PSP2883001 porcelain station posts met all of the design test requirements for the TR-288 insulator.

