

PG&E: Pre-September 12, 2011 CPSD Memo Hydrotests with Spike Tests Unadvisable

Hydrotest Program hydrotests that will not have a spike test because the test is against a valve that is pressurized on the other side or exceeds valve seat test pressure

Ref Number	Test Number	Test Date	Line	OD	WT	Grade	Long seam	Class Location	Test Multiplier	MAOP	Min. Test P	% SMYS @ min. test	Max. Test P	% SMYS @ max test	Test Footage	Limiting Factor
1	76 (Test 2)	8/28/2011	300B	34.00	0.500	52,000	DSAW	1	1.25	894	1118	73.1	1223	79.97	51	Tested upstream (MAOP 700) and downstream (MAOP 894) of MLV 0.45 assembly. Maximum test pressure equal to seat test pressure of 4 ea. 24" tap valves tested in closed position.
Total															51 feet	

Hydrotest Program hydrotests that will not have a spike test because, with elevation differences factored in, the spike test would exceed a safe test pressure

Ref Number	Test Number	Test Date	Line	OD	WT	Grade	Long seam						Max. Test P	% SMYS @ max test	Test Footage	Limiting Factor
2	70	7/25/2011	300A	34.00	0.344	52,000	DSAW	3	1.5	631	947	90	1000	95.06	794	551' operating at 59.97% (one Class out). Pipe at 91.7% at min. test pressure including 18 psig static head. Cannot spike test without exceeding 100% SMYS
3	89S	8/16/2011	300B	34.00	0.344	52,000	DSAW	3	1.5	631	947	90	1037	98.55	3,848	All pipe in test segment operating at 59.97% SMYS (one Class out). Pipe at 94.7% SMYS at min. test pressure including 49 psig static head. Cannot spike test without exceeding 100% SMYS.
4	89N	8/20/2011	300B	34.00	0.375 & 0.344	52,000	DSAW	3	1.5	631	947	90	1256	109.5/119.36	8,271	Test segment has 603' of elevation differential (261 psig head). 433' pipe with 0.375 wt within 165' of maximum elevation stressed to 93% and 3483' pipe with 0.344 wt within 126' of maximum elevation stressed to 99%. Cannot spike test without exceeding 100% SMYS.
5	80	8/26/2011	300B	34.00	0.375	52,000	DSAW	2	1.25	803	1004	87.53	1147	99.99	16,759	16,631' operating at 70.01% (one Class out). Pipe at 97.7% at min. test pressure including 116.5 psig static head. Cannot spike test without exceeding 100% SMYS
Total															29,672 feet	

Hydrotest Program hydrotest that was not spike tested because it was a planned nitrogen test that was changed to a water test

Ref Number	Test Number	Test Date	Line	OD	WT	Grade	Long seam						Max. Test P	% SMYS @ max test	Test Footage	Limiting Factor
6	76 (Test 4)	8/28/2011	300B	34.00	0.500	52,000	DSAW	1	1.25	700	875	57.21	1008	62.97	403	Tested 403' of pipe initially intended to to be tested with inert gas due to offset drip being in test section.

Total Ref Numbers 1-6: 5.71 miles