

# NUCLEAR PRODUCT ADVISORY:

## BARTON 752, 752A, 752B, 764 TRANSMITTER HYDROSTATIC TEST

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**ATTENTION: If you have a Barton Model 752, 752A, 752B, 764 Differential Pressure Transmitter, please read the following notice in its entirety. (Does not apply to same Models when equipped with factory installed Barton 351 or 352 remote sensors)**

### Issue

Cameron has identified a hydrostatic pressure test stand that was used improperly while performing hydrostatic pressure testing on Barton transmitters. The pressure stand was used in such a way that one of the pressure housings of the differential pressure boundary was not tested to 1.5 times the Safe Working Pressure (SWP). A properly performed hydrostatic pressure test performed per Cameron procedure applies 1.5 times SWP to both the high pressure (HP) and low pressure (LP) housings, testing the entire pressure boundary for 10 minutes.

While transmitters tested on the stand were not properly hydrostatic pressure tested to 1.5 x SWP on both HP and LP pressure housings, one of the housings and all remaining pressure boundary parts of all transmitters were tested to 1.5 x SWP on this test stand. It is noted that both the HP and LP housings, bolting and seals are identical part numbers, using the same raw and finished materials. Barton transmitter pressure boundary is designed to withstand 3 times SWP. There are no known reported instances of field failures on Barton transmitter pressure boundary items.

### Customer Actions

Cameron has determined that this issue represents a deviation as defined by 10CFR21 Section 21.3. However, Cameron does not believe this deviation creates a substantial safety hazard (for the reasons listed above). This issue is being reported as a deviation to our factory acceptance testing requirements. Customers will need to evaluate this advisory to determine if they would consider the deviation to be a defect, or otherwise requiring corrective action.

Any customers who have Barton Model 752, 752A, 752B or 764 pressure transmitters (without factory installed Barton 351 or 352 remote sensors) shipped before April 2020, need to evaluate this advisory, and ensure their units have been hydrostatic pressure tested in accordance with their requirements. For hydrostatic testing procedures or options for returning transmitters to Cameron for testing, please contact QA or Sales at Cameron City of Industry.

### Background

The hydrostatic pressure test stand in question was retired from production in April 2020 after more than 20 years of service. Based on interviews with the test stand operators, the test stand had been operated in the same manner for as long as the operators had been performing the test. This test stand was used for hydrostatic testing of transmitters only. Transmitters were loaded into the test stand by connection to pressure lines via quick connect fittings. The operator of the test stand then made several switch selections to apply pressure to the transmitter to perform the test.

During optimization and verification of the replacement hydro testing equipment, evaluation of the retired hydro stand found that the retired test stand switches were poorly labeled. The poor labeling, in addition to non-ideal plumbing contributed to the operators failing to use the retired hydro stand properly.

Cameron Corrective, Preventative Action Report 210401473 documents the finding, including corrective and preventative actions. As the hydro-stand was retired from service in April 2020, all units built since then have been properly hydrostatic pressure tested to 1.5 x SWP using new equipment.

If you have any questions, please contact Dr. Bernard Johnson, Quality Manager, Cameron Energy Services Corp., City of Industry, CA at (562) 321-9140 or (562) 222-8440.