

NUCLEAR PRODUCT ADVISORY:

BARTON 763/763A/764 Transmitter Heat Rise and Qualified Life

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ATTENTION: If you have a Barton Model 763 or 763A or 764 Electronic Transmitter please read the following notice in its entirety.

UPDATE TO PRIOR CAMERON ADVISORY 210316064.2, ISSUED 1/9/2020

Issue

Cameron received industry feedback on its prior advisory 210316063.2 issued 1/9/2020. The current advisory provides an update in transmitter heat rise and qualified life determined after additional testing that was performed in response to the industry feedback.

Background

Cameron's original heat rise reports 9A-CR3-764-94 and 9A-CR3-764-95, as well as its heat rise calculator tool have all been updated based on the additional testing performed in response to industry feedback made on the original Cameron heat rise advisory.

Conclusions

The updated qualified life tool based on formulations derived from the empirical data differ from the previous Cameron qualified life tool results. The confidence in the updated qualified life determinations is increased due to the additional test data which was used as the basis of the update. The previous qualified life tool, which was primarily derived by circuit analysis and verified by limited testing, did not have sufficient test data to fully account for the circuit and enclosure thermodynamics. The update utilizes empirical data to develop data-based heat rise formulations, which were then verified against the data results.

Customer Actions

Customers will need to verify their qualified life extrapolations as applicable. Because component heat rise varies with transmitter output, power supply, total loop resistance and ambient temperature, current installations will need to perform an updated analysis based on these conditions and the updated heat rise findings in order to more accurately determine updated qualified life.

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