

August 7, 2015

U.S. Nuclear Regulatory Commission
Electrical Vendor Inspector Branch
Division of Construction Inspection
And Operational Programs
Washington, DC 20555-0001

Subject: Reply to a Notice of Nonconformance
Reference: Nuclear Regulatory Commission Vendor Inspection of Thermo Fisher
Scientific Report No. 99901460/2015-201-02, Notice of
Nonconformance
Attachments: CAR 15-019

During the NRC Vendor Inspection starting on June 1, 2015, it was noted that Thermo Fisher Scientific was in violation of criterion XII, "Control of Measuring and Test Equipment", of Appendix B to the *Code of Federal Regulations Part 50*. Per the NRC report Thermo Fisher Scientific (TFS),

"failed to ensure that measuring devices were identified with a serial number and calibrated at periodic intervals to maintain accuracy within necessary limits. Specifically, K-type thermocouples used in conjunction with a dual input thermometer during testing of safety-related mineral insulated cable were not identified with a serial number and were never calibrated. The calibration was required to ensure the potential offset/drift tolerance were accounted for during temperature measurements which verified that mineral insulated cable reached the required temperature during production".

It was the opinion of Thermo Fisher Scientific that K-type thermocouples did not require calibration, on par with voltmeter leads.

In response to this nonconformance TFS has purchased new K-type thermocouples, and have sent them to be calibrated. The new K-type thermocouples will then be compared to existing thermocouples that are in use to assess the impact of this nonconformance. Additionally, TFS Engineering department will re-evaluate all other attachments, probes, or accessories to our M&TE for calibration requirements.

Per CAR 15-019 this evaluation shall be complete by Dec 31, 2015.



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Received w/o attachments