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**From:** Richard W. Thorne <rthorne@fveng.com>  
**Sent:** Friday, December 14, 2018 2:01 PM  
**To:** Craffey, Ryan  
**Cc:** Todd Richter  
**Subject:** [External\_Sender] Response Update to Violation 03033539/2018001(DNMS)

Ryan,

This email supplements the Response to Violation referenced above, updating the extent of corrective, training, and procedural revisions by Fleis & VandenBrink following the event described:

1. Construction Services Group Manager Todd Richter sent an email to all nuclear density gauge users the morning after the incident notifying them that a gauge had been damaged on the grade by construction equipment and reminding everyone to always follow all nuclear gauge safety procedures at all times, including transport case lockdown in the vehicles, bill of lading display, and chain of custody sign out at each change of possession for every gauge.
2. Five F&V field personnel were registered with the gauge manufacturer for on-line Hazmat refresher training. Refresher training was fully completed on August 6, 2018, and all F&V gauge users are current in their 3 year Hazmat training. The on-line refresher will be used in the future to provide Hazmat training to those unable to attend the regularly scheduled spring training session. The RSO and Construction Services Group Manager will conduct regular review of field staff personal training elements and maintain current certifications for all nuclear gauge users.
3. Subsequent to this incident, our local InstroTek branch has committed to keeping a 55-gallon lead lined transport barrel at their location available to all area nuclear gauge users. The availability of this drum will be presented to all F&V field staff in their February 2019 training.
4. A Case Study of the incident has been drafted for presentation and discussion at annual field staff training in February. Review of the steps taken during the incident response will be made. Operational procedures will be reviewed and emphasis on situational awareness and safety steps including retracting the source rod while recording measurements and maintaining control of the gauge at all times will be made. It will be reiterated and reinforced that no one is to touch, grasp, handle or hold the source rod or source tip, or perform any type of non-routine maintenance on a gauge at any time, for any reason.
5. Emergency response sheets included in all Troxler cases and vehicles transporting gauges were revised to make emergency contact phone numbers more prominent; and verbiage reminding users that all non-routine maintenance, service, or cleaning must be performed by an authorized representative of the manufacturer, and that for no reason should the source rod or nuclear source material be touched or handled has been added. Revised notices are being placed in each transport case as the gauges return from annual calibration and service.

If you have any questions or require further information please contact me.

Sincerely,

FLEIS & VANDENBRINK

Rick Thorne

**Rick Thorne, PE**

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