



## Testing Engineers & Consultants, Inc.

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January 17, 2022

Mr. Michael Kunowski  
Chief, Materials Inspection  
U.S. Nuclear Regulatory Commission Region III  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532

Subject: NRC Event #55662 – Written Report

Dear Mr. Kunowski:

Per the requirements of CFR 20.2201(a)(1)(ii) I hereby submit a written report in support of NRC Event #5562 dated December 17, 2021. The following report follows the outline presented in CFR 20.2201(a)(2)(b)(i – vi):

- (i) Two (2) Troxler portable moisture density gauges, both Model 3411-B:
  1. Gauge S/N [ ] with sealed sources:
    - AM-241: BE S/N [ ] [ ] mCi
    - CS-137 S/N [ ] [ ] mCi
  2. Gauge S/N [ ] with sealed sources:
    - AM-241: BE S/N [ ] [ ] mCi
    - CS-137 S/N [ ] [ ] mCi
- (ii) During an inventory of the company's nuclear density gauges conducted in mid-December 2021 we were unable to locate the subject devices and their cases.
  1. Gauge S/N [ ] was last leak tested on January 18, 2021 and last calibrated on July 17, 2017 – both tests were performed by Instrotek
  2. Gauge S/N [ ] was last leak tested on January 18, 2021 and last calibrated on May 24, 2018 – both tests were performed by Instrotek
- (iii) The current disposition of the two missing gauges (and cases) is unknown. The probable disposition is only speculative – they've possibly been abandoned having no street value or market to sell them (i.e. pawn shops, eBay, etc). They may have been abandoned in a home, storage unit, outdoors, or sent overseas.
- (iv) Exposure of individuals to radiation of the gauges is unknown. Based on the speculative disposition of the gauges, the possible dose to the public is minimal.
- (v) The following actions have been taken to locate the two missing gauges:
  1. Current technician employees have been contacted regarding the gauges
  2. The former RSO, no longer an employee of TEC, has been contacted – he is unaware of their locations
  3. Former technician employees have been contacted regarding the gauges
  4. The entire company property, including job trailers, has been searched
  5. The service provider, Instrotek, has been contacted – they do not have the gauges in their possession
  6. The manufacturer, Troxler, has been contacted – they do not have the gauges or know their locations
- (vi) Gauges are assigned to individuals and their vehicles, locks & chains, and bills of lading are inspected. Inventory of the gauges is performed nearly weekly. Access to the nuclear gauge storage room is limited.

Respectfully submitted,

*David M. Bergman*

David M. Bergman, PE  
Manager, Construction Services