

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

3M Company, 3M Corporate Health Physics
3M Center, Building 220-06-W-08, P.O. Box 33283
St. Paul, MN 55133-3283
Locations Inspected: Detroit, MI

REPORT NUMBER(S) 2017001

2. NRC/REGIONAL OFFICE

Region III
U. S. Nuclear Regulatory Commission
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

3. DOCKET NUMBER(S)

030-04950

4. LICENSE NUMBER(S)

22-00057-03

5. DATE(S) OF INSPECTION

12/14/17, with in-office review
through 12/19/17

LICENSEE:

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:

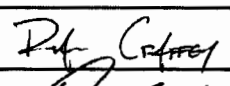
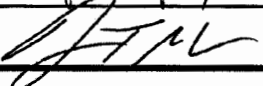
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☒ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, to exercise discretion, were satisfied.

Non-cited violation(s) were discussed involving the following requirement(s):

- ☐ 4. During this inspection, certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited in accordance with NRC Enforcement Policy. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.
(Violations and Corrective Actions)

Statement of Corrective Actions

I hereby state that, within 30 days, the actions described by me to the Inspector will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

TITLE	PRINTED NAME	SIGNATURE	DATE
LICENSEE'S REPRESENTATIVE			
NRC INSPECTOR	Ryan Craffey		12/20/2017
BRANCH CHIEF	Aaron McCraw		12/21/2017

Docket File Information

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3. DOCKET NUMBER(S) 030-04950	4. LICENSE NUMBER(S) 22-00057-03	5. DATE(S) OF INSPECTION 12/14/17, with in-office review through 12/19/17	
6. INSPECTION PROCEDURES USED 87124	7. INSPECTION FOCUS AREAS All		

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03120	2. PRIORITY 5	3. LICENSEE CONTACT Michael Lewandowski - RSO	4. TELEPHONE NUMBER (651) 737-4452
<input type="checkbox"/> Main Office Inspection Next Inspection Date: 12/14/2022			
<input checked="" type="checkbox"/> Field Office Inspection 11900 East Eight Mile Road, Detroit, MI			
<input type="checkbox"/> Temporary Job Site Inspection			

PROGRAM SCOPE

This was an announced routine inspection of a multinational corporation authorized to use byproduct material in fixed gauges at numerous facilities within NRC jurisdiction. The scope of this inspection included a review of the use of fixed nuclear gauges at the company's Abrasives Systems Division in Detroit, Michigan. The licensee possessed a number of gamma backscatter (Am-241) and beta (Kr-85/Sr-90) thickness gauges at its Detroit facility, and had a primary and backup site RSO there for day-to-day oversight of these devices. This inspection also included an in-office review of radiation safety program oversight. The licensee's health physics staff, including the corporate RSO, were based at the company's headquarters in St. Paul, Minnesota.

PERFORMANCE OBSERVATIONS:

The inspector toured the facility in Detroit to evaluate the licensee's measures for materials security, hazard communication, and exposure control. Independent surveys in the vicinity of a selection of gauges found no exposures to nearby workers in excess of regulatory limits to members of the public. The licensee also kept several gauges in storage at the Detroit facility. These gauges were adequately secured against unauthorized access or removal, and did not present a radiological risk to nearby workers. The inspector interviewed the site RSO, plant manager and maintenance staff to discuss gauge use and maintenance, as well as emergency response measures. The inspector found the licensee's staff to be knowledgeable of radiation protection principles and licensee procedures related to the safe use of the gauges. The inspector reviewed a selection of records, including semiannual inventories and leak test results, shutter check (currently part of a PM completed once every five weeks), radiation safety training materials, and documentation related to the receipt, installation, and return of gauges.

Following the onsite inspection, the inspector interviewed the licensee's corporate RSO to discuss the oversight of the radiation safety program. Topics of discussion included the status of the program, relevant incidents (none in NRC jurisdiction since the last inspection), annual audits, and tracking of fixed gauge inventories relative to license possession limits and thresholds for additional security requirements and decommissioning financial assurance.

(continued on part 2)

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(Continued)

The licensee was previously cited in IR 03004950/2012001(DNMS) for the failure to report an event within 24 hours after discovery, as required by 10 CFR 30.50(b)(2). The inspector reviewed the licensee's corrective actions, which appeared to be adequate, and found that the licensee's corporate RSO had a satisfactory knowledge and awareness of NRC reporting requirements. The inspector identified no additional examples of this violation. Therefore, the NRC considers this event to be closed.

No violations of NRC requirements were identified as a result of this inspection.