

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: General Motors LLC Research and Development Center 30500 Mound Road Warren, MI 48090 REPORT NUMBER(S) 2016001	2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S) 030-04779	4. LICENSE NUMBER(S) 21-00016-04	5. DATE(S) OF INSPECTION Nov 3, 2016

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:

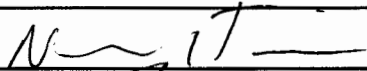

- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is 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):

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- 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	Navid Tehrani		11/3/16
BRANCH CHIEF	Aaron McCraw		11/15/16

Docket File Information

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6. INSPECTION PROCEDURES USED 87126	7. INSPECTION FOCUS AREAS All
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03610	2. PRIORITY 3	3. LICENSEE CONTACT Daniel Blossfeld - RSO	4. TELEPHONE NUMBER (586) 986-0842
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Main Office Inspection Next Inspection Date: 11/03/2019

Field Office Inspection New laboratory - 777 Joslyn Ave, Pontiac, MI

Temporary Job Site Inspection _____

PROGRAM SCOPE

This was an unannounced, routine inspection of a broadscope commercial research program in Warren, Michigan. At the time of inspection, the licensee had designated three individuals to work with licensed material in its Isotope Laboratory. Licensed activities consisted primarily of engine wear studies using activated piston rings, activated bearings, and radiolabeled compounds in engine oil. The licensee also possessed a survey instrument calibrator and numerous disused sources in secured storage. The licensee provided monthly whole-body and extremity dosimetry to authorized users, and required the use of electronic dosimeters for all users and visitors entering the laboratory. The licensee maintained a decay-corrected running inventory of all material possessed under the license and reconciled this inventory every 6 months, at which time it also collected and analyzed any required sealed source leak tests. The licensee performed quarterly surveys and audits of the laboratory, the results of which were reviewed during quarterly Radiation Safety Committee meetings. The licensee was in the process of moving the Isotope Laboratory to a new facility in Pontiac, Michigan, by the end of 2016. The licensee intended to transfer all disused sources and long-lived waste for disposal.

PERFORMANCE OBSERVATIONS

The inspector toured all areas of the old and new (which did not have any material yet) Isotope Laboratory. All locations were adequately secured, posted, and free of significant hazards to licensed material. Independent and confirmatory surveys of the old laboratory found no readings that would indicate residual contamination and further demonstrated the adequacy of the licensee's survey instruments and techniques. The inspector interviewed the RSO, who demonstrated adequate knowledge of radiation safety principles and licensee procedures. The inspector reviewed a selection of licensee records, including radiation safety committee (RSC) meeting minutes, quarterly laboratory audits, research protocols, inventories, package receipt documentation, waste handling, effluent records, and dosimetry.

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