

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

## 1. LICENSEE/LOCATION INSPECTED:

State of Michigan  
815 Filley Street  
Lansing, MI 48906

REPORT NUMBER(S) 2019001

## 2. NRC/REGIONAL OFFICE

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

## 3. DOCKET NUMBER(S)

030-07188

## 4. LICENSE NUMBER(S)

21-05199-02

## 5. DATE(S) OF INSPECTION

October 4, 2019

## 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	<i>Ry Craffey</i>	10/6/19
BRANCH CHIEF	Aaron McCraw <i>Geoffrey Warren for ATM</i>	<i>Agw</i>	10/16/19

**Docket File Information**  
**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

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

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)  03710	2. PRIORITY  5	3. LICENSEE CONTACT  Marcus Quinlan - RSO	4. TELEPHONE NUMBER  (517) 230-5940
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☒ Main Office Inspection      Next Inspection Date: 10/04/2024

☐ Field Office Inspection \_\_\_\_\_

☐ Temporary Job Site Inspection \_\_\_\_\_

**PROGRAM SCOPE**

This was an unannounced routine inspection of the State of Michigan's Department of Environment, Great Lakes and Energy (EGLE), authorized to use byproduct material for survey instrument calibration, environmental and incident response sample analysis, and for collection and possession of orphan sources incident to disposal. At the time of the inspection, the licensee actively used its Hopewell Designs GC-60 for instrument calibrations in a dedicated calibration vault, and maintained a radiological detection lab for sample analysis. The licensee possessed a J. L. Shepherd 28-6a calibrator and a Radiac MX-1083B calibration source in secure storage, as well as numerous orphan sources retrieved from the public domain, though most represented exempt quantities of byproduct, source, or naturally-occurring material. The licensee had not obtained any environmental or incident response samples containing licensable quantities of material since the last inspection.

**PERFORMANCE OBSERVATIONS**

The inspector toured the facility in Lansing to evaluate the licensee's measures for materials security and accountability, hazard communication and exposure control. The inspector conducted independent surveys of the facility and found no evidence of residual contamination. The licensee demonstrated the use of its GC-60 instrument calibrator, including interlock checks and emergency response measures. The inspector conducted additional surveys with the calibrator in operation, and identified no exposures outside of the calibrator vault in excess of regulatory limits. The inspector interviewed the licensee's staff to discuss orphan source handling and accountability, sealed source leak testing, and use of material in the detection lab. The inspector found the staff to be knowledgeable of radiation protection principles, licensee procedures, and regulatory requirements.

The inspector reviewed a selection of records, including physical inventories, area exposure and contamination surveys, sealed source leak test results, and personnel dosimetry reports, which indicated that occupational exposures from these activities were well below regulatory limits.

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