

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

## 1. LICENSEE/LOCATION INSPECTED:

Missouri Public Health Laboratory  
101 N. Chestnut Street  
P.O. Box 570  
Jefferson City, MO 65102-0570

## 2. NRC/REGIONAL OFFICE

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

REPORT NUMBER(S) 2017-001

## 3. DOCKET NUMBER(S)

030-38804

## 4. LICENSE NUMBER(S)

24-35208-01

## 5. DATE(S) OF INSPECTION

January 10, 2017

## 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:


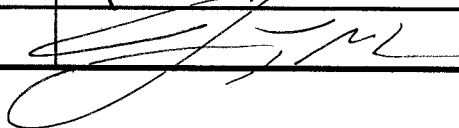
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violations(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was 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	Dennis P. O'Dowd		01/10/17
BRANCH CHIEF	Aaron T. McCraw		1/13/17

## Docket File Information

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## 6. INSPECTION PROCEDURES USED

87126

## 7. INSPECTION FOCUS AREAS

03.01-03.07

## SUPPLEMENTAL INSPECTION INFORMATION

## 1. PROGRAM CODE(S)

03620

## 2. PRIORITY

5

## 3. LICENSEE CONTACT

Alan Schaffer, Chem Unit Mgr./RSO

## 4. TELEPHONE NUMBER

(573) 751-3334

☒ Main Office Inspection

Next Inspection Date: 01/10/2022

☐ Field Office Inspection☐ Temporary Job Site Inspection

## PROGRAM SCOPE

This was an initial inspection of the State of Missouri's public health laboratory, which provided analytical testing services to state and federal agencies, local public health agencies, and the general public, and which was authorized by the license for possession and use of microcurie quantities each of various alpha-, beta-, and gamma-emitting radionuclides for use as sealed sources for calibration of analytical equipment, and for Pu-239, Am-241, and Sr-90 in microcurie quantities (~3 nanocuries/g), specifically, for use as liquid sources for analytical equipment calibration and spiking of analytical specimens (to include vegetation, soil, and other sample media). The licensee received its first shipment of licensed material, on December 20, 2016, and at the time of the inspection, no actual use of material had taken place. The RSO anticipated that use of material would commence within the next several weeks. The RSO is the only individual authorized by the license to use, and supervise the use of, unsealed material; the remaining five individuals listed on the license are authorized for use, and supervising the use, of sealed sources only.

## Performance Observations

This inspection consisted of interviews with select licensee personnel; a tour of the areas where radioactive materials were stored, and are intended to be used, including sample preparation and analysis areas; independent measurements; and a review of select records. The inspector confirmed that facilities and equipment were as described in documents referenced in the license. The inspector observed licensed materials secured adequately. The inspector observed that facility access was limited to authorized individuals, and that visitors were escorted. Interviews with licensee personnel indicated an adequate level of understanding of material handling techniques, knowledge of radiation safety concepts, and understanding of regulatory requirements and license conditions. The inspector and the RSO discussed: (1) security of licensed material; (2) adherence to operational procedures for the safe use of radionuclides, emergency procedures, and notification requirements; (3) DOT HAZMAT initial training and periodic refresher training; (4) radiation surveys, survey equipment use, and calibrations; (5) physical inventories; (6) radioactive waste handling and proper waste disposal. At the time of the inspection, the licensee's radiation safety committee had not yet held its first meeting. Survey meters were found to be calibrated and operational. The inspector performed independent radiation measurements that indicated no detectable levels of contamination and no readings in excess of 10 CFR Part 20 limits in restricted and unrestricted areas. Personnel dosimetry is not required for this licensee.

No violations were identified during this inspection.