

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

National Aeronautics & Space Administration
John H. Glenn Research Center at Lewis Field
21000 Brookpark Road, Cleveland, Ohio

REPORT NUMBER(S) 2014-001

2. NRC/REGIONAL OFFICE

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

3. DOCKET NUMBER(S)

030-05626

4. LICENSE NUMBER(S)

34-00507-16

5. DATE(S) OF INSPECTION

2/18&19/14, with continued in-office review through 4/8/14

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.

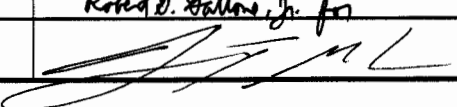
1 Non-cited violation(s) were discussed involving the following requirement(s):

Contrary to Title 10 of the Code of Federal Regulations Part 20.1801, on 12/23/13, the licensee identified during an audit that 5 nickel-63 sealed sources each containing 15 millicuries were not secured from unauthorized removal or access when they were stored in an unrestricted area.

- ☐ 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	Robert G. Gattone, Jr. Zahid Sulaiman	Robert D. Gattone, Jr. Robert D. Gattone, Jr. for	4/14/14 4/14/14
BRANCH CHIEF	Aaron T. McCraw		4/14/14

Docket File Information

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3. DOCKET NUMBER(S) 030-05626	4. LICENSE NUMBER(S) 34-00507-16	5. DATE(S) OF INSPECTION 2/18&19/14, with continued in-office review through 4/8/14
6. INSPECTION PROCEDURES USED 87126	7. INSPECTION FOCUS AREAS 03.01, 03.02, and 03.04 through 03.07	

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03620	2. PRIORITY 5	3. LICENSEE CONTACT Christopher Blasio, RSO	4. TELEPHONE NUMBER (216) 433-6520
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<input checked="" type="checkbox"/> Main Office Inspection	Next Inspection Date: 02/18/2019
<input type="checkbox"/> Field Office Inspection	
<input type="checkbox"/> Temporary Job Site Inspection	

PROGRAM SCOPE

The in-office review included assessment of a potential violation of 10 CFR 30.34(i), and the NRC determined that no violation of 10 CFR 30.34(i) occurred. The RSO was the sole authorized user and he supervised the use of licensed material. At the Cleveland facility, the licensee stored activated components and materials in the cyclotron vault and in an adjacent neutron therapy vault. The cyclotron facility has been characterized, and no decommissioning was occurring there. The licensee possessed a Troxler Model 3440 (Serial No. 65534) gauge (gauge) that had never been used. The licensee had last used nickel-63 sources for research and development in October 2013. The Sandusky location was previously used for analyses of radioactive samples. On 5/18/11, the licensee ceased principal activities at the Sandusky location. In approximately February 2013, all licensed material was removed from the Sandusky location via authorized transfer and the licensee determined that the Sandusky location has no residual licensed material such that it meets the release criteria in 10 CFR Part 20. No licensed activities were conducted during the inspection.

Performance Observations

The inspectors: (1) observed records showing that four cesium-137 sources were transferred from the Sandusky location to QSA Global; (2) noted that selected licensee survey instruments were calibrated as required; (3) observed the RSO demonstrate how he had conducted constancy checks and battery checks on a survey instrument, and how he would respond to an abnormal result; (4) that the gauge was secured in accordance with 10 CFR 30.34(i); (5) measured a maximum of 1 milliroentgen per hour at 30 centimeters from a cabinet containing the gauge based on their survey using an NRC-owned, calibrated survey instrument; (6) observed that the cesium-137 source shutter on the gauge was closed; (7) measured a maximum of 20 milliroentgens per hour at the surface of the cesium-137 source shutter using an NRC-owned, calibrated survey instrument; (8) observed that the gauge transportation case was marked and labeled as required; (9) observed that the gauge source rod was locked; (10) observed a health physics technician demonstrate how he would use the gauge under the supervision of the RSO at a temporary job site, transport the gauge, and respond to an emergency based on scenarios posed by the inspectors; (11) noted that the highest annual dose received by a monitored individual from 2011 through 2013 was 19 millirems based on dosimetry records; (12) observed an individual demonstrate how he had conducted research involving nickel-63 sources under the supervision of the RSO; (13) observed that the nickel-63 sources that were the subject of the non-cited violation discussed in Part 1 were secured as required; (14) observed selected leak test records for the gauge sources and nickel-63 sources; and (15) observed the RSO inventory selected nickel-63 sources.