

PART I – LICENSE, INSPECTION, INCIDENT/EVENT AND ENFORCEMENT HISTORY

1. AMENDMENTS AND PROGRAM CHANGES SINCE LAST INSPECTION:

<u>AMENDMENT #</u>	<u>DATE</u>	<u>SUBJECT</u>
12	07/29/2015	change of ownership

2. INSPECTION AND ENFORCEMENT HISTORY:

No violations of NRC requirements were identified during the last routine inspection on February 25, 2013; the inspection included a review of the licensee's corrective actions taken in response to a SLIV violation cited during the previous routine inspection. One violation of NRC requirements involving the failure to perform shutter checks as required by License Condition 16 was identified during the previous inspection on August 6, 2008.

3. INCIDENT/EVENT HISTORY:

A review of ADAMS and NMED identified no open items. No events had been reported by the licensee since the last routine inspection.

PART II – INSPECTION DOCUMENTATION

1. ORGANIZATION AND SCOPE OF PROGRAM:

This was a routine inspection of a large steel production company. The licensee possessed and used eight americium-241 sources in gauging devices to measure thickness of steel sheet in its manufacturing and rolling process lines. The gauges remained installed at their points and temporarily shifted off the production line by authorized gauge users based on production/maintenance needs. The licensee retained the services of a consulting firm to audit the radiation safety program on a semi-annual basis (last November 28, 2017, with no findings) and to perform routine leak tests, training, shutter checks, inventories, and surveys.

2. SCOPE OF INSPECTION:

Inspection Procedure(s) Used:

IP 87124, "Fixed and Portable Gauge Programs"

Focus Areas Evaluated: All

This routine inspection consisted of interviews with licensee personnel, a review of select records, including lock-out/tag-out procedures, a tour of the plant, and independent measurements. The inspector observed postings and environmental conditions, inventory of sealed sources, security of byproduct material, and use of personnel monitoring. The inspection included an in-office review through April 23, 2018, to review and discuss the licensee's leak tests and an amendment request to change the RSO

3. INDEPENDENT AND CONFIRMATORY MEASUREMENTS:

<u>Survey instrument</u>	<u>Serial No.</u>	<u>Calibration date</u>
Canberra Model MRAD 213	NRC Tag No. 33583G	6/16/2017

The inspector performed direct radiation measurements around select gauging units throughout the licensee's plant; the inspector's results were comparable to those noted in the licensee's survey records. Maximum levels were measured at the surface of a thickness gauge. Radiation levels in the unrestricted areas within the plant and the storage room were indistinguishable from background. All survey measurements in the restricted areas were comparable to the licensee's survey results. The inspector concluded that these radiation levels within the plant complied with Part 20 limits.

4. VIOLATIONS, NCVs, AND OTHER SAFETY ISSUES:

One violation of NRC requirements was identified during this inspection. The violation involved the failure to have the individual named on the license perform the duties and responsibilities of the Radiation Safety Officer (RSO) for the period of approximately two years, as required by License Condition No. 12 of NRC License No. 21-26151-01. Specifically, the RSO listed on the license left the licensee's employment on January 26, 2016. Between January 26, 2016 and April 6, 2018, one individual performed the duties as the RSO; the individual satisfied the training criteria listed in Section 8.7.1 of NUREG 1556, Volume 4. Another individual was designated to assist with the RSO duties. During the inspection, the licensee informed the inspector of its intention of appointing this individual as the new RSO. The licensee had not filed an application to amend the license naming a new RSO until April 6, 2018. The inspector noted that the consultant did not identify that the license listed the previous RSO during past program audits.

The root cause of the apparent violation was that licensee staff assumed that they had filed an amendment request with the NRC in early 2016 to appoint a new, qualified individual to replace the RSO listed on the license. The licensee based this assumption on the timing when they had filed a notification with the State of Michigan on January 26, 2016, informing the agency of a change in RSO. The licensee staff believed that they had sent similar correspondence to the NRC but were unable to locate this documentation in their files. As corrective actions to restore compliance and to prevent recurrence, the licensee filed for an amendment to its NRC license to change the RSO on April 6, 2018; this amendment request was pending review by the Materials Licensing Branch.

The in-office review included discussions with EICS and a review of the NRC Enforcement Manual and Enforcement Policy on the characterization of this violation. Based on the guidance in Part II, Section 3.5.5 of the Enforcement Manual, "If the RSO leaves the facility and the individual assigned as a replacement RSO is qualified under the applicable NRC criteria, but the license has not been amended to name a new RSO, a Severity Level IV violation is appropriate." In addition, Item d.8. of Section 6.3 in the Enforcement Policy, provides an example of a SLIV violation as, "A licensee fails to seek required NRC approval prior to replacement of the RSO, where the RSO was evaluated

as qualified.” Therefore based on the guidance in the Manual and the Policy, the violation was characterized as a SL IV.

5. PERSONNEL CONTACTED:

#Tyler Alden, Manager, Occupational Safety & Health
Nicols Lach, Safety Engineer, Proposed Radiation Safety Officer
Alex Masakowski, Electrical Shift Supervisor
Garrett T. Soloman, Safety Trainer, Interim Radiation Safety Officer

Attended exit meeting on April 23, 2018.

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