

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:

System Sensor Division  
Honeywell International, Inc.  
3825 Ohio Avenue  
St. Charles, Illinois 60174

REPORT NUMBER(S) 13-01

2. NRC/REGIONAL OFFICE

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

3. DOCKET NUMBER(S)

030-08445

4. LICENSE NUMBER(S)

12-15023-02E

5. DATE(S) OF INSPECTION

April 29, 2013

**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:

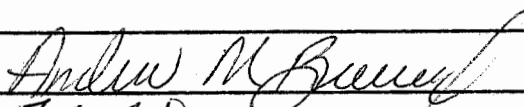
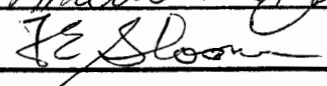
- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was 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	Andrew M. Bramnik		4/29/2013
BRANCH CHIEF	TAMARA BLOOMER		5/1/13

**Docket File Information**

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3. DOCKET NUMBER(S)  030-08445	4. LICENSE NUMBER(S)  12-15023-02E	5. DATE(S) OF INSPECTION  April 29, 2013	
6. INSPECTION PROCEDURES USED  87125	7. INSPECTION FOCUS AREAS  03.01 - 03.07		

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S) 03251	2. PRIORITY 5	3. LICENSEE CONTACT Brian Langkan, Reg. Compl. Group Ldr	4. TELEPHONE NUMBER (630) 377-6674
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☒ Main Office Inspection      Next Inspection Date: 04/29/2018

☐ Field Office Inspection

☐ Temporary Job Site Inspection

**PROGRAM SCOPE**

This was a routine inspection of a licensee that imported sealed sources containing less than one microcurie each of americium-241, installed the sources in smoke detectors, and then distributed the products to persons exempt from NRC or Agreement State regulations. The licensee distributed approximately 70,000 ionization smoke detectors for commercial and industrial fire safety systems each year. The licensee did not sell smoke detectors for residential use. The licensee assembled its smoke detectors under the State of Illinois license no. IL-01335-01 and distributed them under their NRC exempt distribution license. The licensee employed over 475 individuals in total at its Illinois facility, but only approximately 12 individuals were involved in the licensee's operations with byproduct material: production workers, shipping and receiving staff, the quality assurance manager, and the Radiation Safety Officer (RSO).

**PERFORMANCE OBSERVATIONS**

Interviews with the licensee's staff and management revealed an adequate level of understanding of emergency and material handling procedures and techniques. The licensee's production workers and RSO demonstrated how shipments of americium-241 sources were received, stored, installed, packaged, and distributed. Finished products were marked and labeled on each detector and its point-of-sale packaging as required.

The licensee's RSO demonstrated how annual exempt distribution reports were generated and sent to the NRC as required by 10 CFR 32.16. The licensee tracked and documented international exports of americium in annual reports that were also sent to the NRC as required by 10 CFR 110.23 and 10 CFR 110.54. The inspector confirmed that these activities were successfully completed by reviewing selected records since the previous inspection.

Licensed material was adequately secured and not readily accessible to members of the general public. Licensee staff members received training that was adequate to familiarize them with radioactive material and the ALARA principle, and the licensee conducted regular audits of the radiation protection program with assistance from an outside consultant.

No violations were identified during this inspection.