

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Hemlock Semiconductor Corporation 12334 Geddes Road Hemlock, MI 48626 REPORT NUMBER(S) 2013-001		2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352	
3. DOCKET NUMBER(S) 030-37611	4. LICENSE NUMBER(S) 21-32682-01	5. DATE(S) OF INSPECTION September 3, 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	Ryan Craffey	<i>Ryan Craffey</i>	9/9/13
BRANCH CHIEF	Aaron McCraw	<i>Aaron McCraw</i>	9/9/13

Docket File Information

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6. INSPECTION PROCEDURES USED 87124	7. INSPECTION FOCUS AREAS All
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03120	2. PRIORITY 5	3. LICENSEE CONTACT Kelly Deering - RSO	4. TELEPHONE NUMBER (989) 301-5810
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Main Office Inspection Next Inspection Date: September 2018

Field Office Inspection

Temporary Job Site Inspection

PROGRAM SCOPE

The licensee is a polycrystalline silicon manufacturer authorized by its NRC byproduct materials license to use sealed sources of Co-60 and Cs-137 for measuring physical properties of materials at its facility in Hemlock, Michigan. The licensee does not possess any aggregated quantity of material that would trigger additional security requirements. The licensee performs a physical inventory and shutter checks of its gauges every six months, and collects leak tests every three years, the results of which are analyzed by the manufacturer or an authorized service provider. The licensee relinquished its authorization for non-routine maintenance upon naming a new RSO in March 2013, as the new RSO had not yet completed the necessary training. The radiation safety program staff attend RSO training approximately every three years, and all other individuals who work in the vicinity of the gauges attend radiation awareness training annually. A consultant audits the content and implementation of the program every spring.

PERFORMANCE OBSERVATIONS

The inspector toured the facility, and observed the condition, posting, and security of all but one of the licensee's gauges. Independent surveys in the vicinity of a selection of these gauges demonstrated compliance with public dose limits. Confirmatory surveys demonstrated the adequacy of the licensee's survey instruments and techniques. The inspector interviewed the RSO and her assistant, both of whom were knowledgeable of radiation principles, licensee procedures and NRC requirements. The inspector and assistant RSO discussed the scope of the licensee's radiation safety program, including personnel, procedures, and management oversight. The inspector also interviewed the licensee's safety and engineering managers, both of whom demonstrated adequate management commitment to the safe use of radioactive material and compliance with NRC requirements.

The inspector reviewed licensee procedures for lock out / tag out and emergency response, as well as documentation of inventories, shutter checks, surveys, leak tests, training, dosimetry, program audits, and voluntary radiation safety working group meetings held by the licensee on a monthly basis.

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