

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

Hemlock Semiconductor Operations LLC
12334 Geddes Road
Hemlock, MI 48626

REPORT NUMBER(S) 2018001

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

June 20th, 2018

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		6/20/18
BRANCH CHIEF	Aaron McCraw		06/29/2018

Docket File Information

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

SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03120	2. PRIORITY 5	3. LICENSEE CONTACT Kelly Deering - RSO	4. TELEPHONE NUMBER (989) 301-5810
<input checked="" type="checkbox"/> Main Office Inspection Next Inspection Date: 06/20/2023 <input type="checkbox"/> Field Office Inspection <input type="checkbox"/> Temporary Job Site Inspection			

PROGRAM SCOPE

This was an unannounced routine inspection of a polycrystalline silicon manufacturing plant authorized to use sealed sources of radioactive material primarily for level measurements on process vessels at its facility in Hemlock, Michigan. At the time of the inspection, the licensee possessed a variety of Vega Americas fixed gauges containing Co-60 or Cs-137. Two individuals were actively involved in the oversight of these devices; both were authorized to perform and supervise non-routine maintenance. An authorized service provider analyzed leak tests collected by the licensee every three years.

PERFORMANCE OBSERVATIONS

The inspector toured the facility in Hemlock to evaluate the licensee's measures for materials security, hazard communication, and exposure control. The inspector conducted independent and confirmatory surveys around numerous source holders, and found no exposures in unrestricted areas in excess of regulatory limits, nor any unexpected readings in the vicinity of these devices. The inspector noted that the gauges were in good physical condition, and that licensee adequate posted and restricted access to radiation areas in the vicinity of these devices when necessary. The inspector also toured the licensee's gauge storage facility, where numerous out-of-service devices were located, and confirmed that these devices were adequately secured, and did not represent an aggregated category 2 quantity of radioactive material. The inspector interviewed staff involved in the oversight of these gauges to discuss gauge maintenance, program oversight, and events involving shutter operability issues that the licensee had reported since the last inspection.

The inspector also reviewed a selection of records, including documentation of leak tests, shutter checks, installation and routine radiation surveys, and personnel dosimetry.

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