

Docket File Information
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 20, 2018
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
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Main Office Inspection Next Inspection Date: 06/20/2023

Field Office Inspection _____

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.