

Docket File Information

SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Ionetix Corporation 3130 Sovereign Drive Lansing, MI REPORT NUMBER(S) 2018001	2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
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3. DOCKET NUMBER(S) 030-39033	4. LICENSE NUMBER(S) 04-35412-01	5. DATE(S) OF INSPECTION 4/16/18
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6. INSPECTION PROCEDURES USED 87126	7. INSPECTION FOCUS AREAS 02.01, 02.02, 02.05, 02.07
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03210	2. PRIORITY 2	3. LICENSEE CONTACT Gary Horner, RSO	4. TELEPHONE NUMBER (808) 430-0312
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Main Office Inspection Next Inspection Date: 04/16/2020
 Field Office Inspection _____
 Temporary Job Site Inspection _____

PROGRAM SCOPE

This was an announced initial inspection of a research and development company authorized to possess and store byproduct material incidental to radionuclide production resulting from the manufacture and operation of cyclotrons, and research and development of cyclotron and target performance tests. The licensee's work hours were 7:00am to 5:30pm Mondays through Fridays. Research and development was conducted about one day every two weeks. The licensee employed a radiation safety officer (RSO), an alternate RSO, and five authorized users, including the RSO. As of the inspection, the licensee had not made F-18; however, the licensee plans to make F-18 in October 2018. In December 2017, the licensee made N-13, and it was disposed by decay-in-storage. Most of the licensed material was limited to solid parts (e.g., cyclotron parts) that were activated by neutrons. The licensee stored the licensed material with access limited to authorized users. No principal activities were conducted during the inspection. The licensee had not possessed unsealed licensed material yet. No cyclotrons have been transferred from the licensee's facility.

Performance Observations

The inspector: (1) used a calibrated NRC-owned survey meter to measure selected activated components, and the highest measurement was 3 milliRoentgens per hour at 30 centimeters from the component; (2) observed the RSO conduct a physical inventory of licensed material based on selected items chosen by the inspector; (3) reviewed the dosimeter badge results through December 20, 2017, and the highest whole body and extremity readings were 0 millirem and 14 millirems, respectively; (4) noted that there were no accidents, loss, theft, flooding, or fire involving licensed material; (5) noted that the licensee did not cut, sand, or file activated components; (6) noted that the licensee's accelerator carbon targets were low dose (e.g., 3000 counts per second); (7) observed that the licensee had a survey instrument that is calibrated annually; (8) noted that the licensee transported licensed material from the University of Michigan (U of MI) to its facility; and (9) reviewed HAZMAT training records for the individual who transported licensed material from the U of MI to the licensee's facility.

No violations were identified as a result of this inspection.