



Materials Inspection Record

1. Licensee Name: 3M Company		2. Docket Number(s): 03014999		3. License Number(s) 22-00057-61	
4. Report Number(s): 2021002			5. Date(s) of Inspection: 12/05/2021 - 12/20/2021		
6. Inspector(s): Elizabeth Tindle-Engelmann, Ryan Craffey		7. Program Code(s): 03521	8. Priority: 2	9. Inspection Guidance Used: 87122	
10. Licensee Contact Name(s): Mike Lewandowski - CRSO Mike Rust - RSO		11. Licensee E-mail Address: malewandowski@mmm.com mjrust2@mmm.com		12. Licensee Telephone Number(s): 651-737-4452 605-696-1463	
13. Inspection Type: <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Non-Routine <input type="checkbox"/> Initial <input type="checkbox"/> Unannounced <input checked="" type="checkbox"/> Announced		14. Locations Inspected: <input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): 09/01/2023 <input type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input checked="" type="checkbox"/> No change	

16. Scope and Observations:

This was a limited scope inspection of the licensee's operations during a source reload campaign for their S-10 wet-storage panoramic irradiator.

The inspectors observed the arrival of the Type B(U) transport containers which were prepared by Nordion, an NRC licensed service provider and distributor of sealed sources. The inspectors determined that the transport containers were appropriately labeled, surveyed, and secured. Additionally, placards were present in appropriate locations and shipping papers were properly prepared. The inspectors observed the licensee perform contamination surveys and exposure rate surveys of the transport containers upon arrival. Then the licensee worked with a crane operator to remove the roof plugs and move the containers into the pool. Continuous communication was used to ensure safe movement of the roof plugs and containers. Once one container was placed in the pool, the top of the container was removed and the source basket was placed on the pool floor, the top was replaced and then the container was removed from the pool. This process was repeated for each container. The irradiator reload campaign took approximately 2 days with 1.5 days of source movements. Source movements were performed by the service provider under NRC License No. 54-28275-01 (docket no. 030-30788) on an underwater table with the use of hollow remote handling tools to maneuver the sources under water into the assigned modules.

No sources were returned as part of this campaign. The licensee verified that the service provider surveyed each item as it was removed from the pool and confirmed all sources were received by actively noting each source movement as part of their procedure. Upon completion of the source loading, safety checks and shielding verification surveys were performed to ensure proper operation of the irradiator. The inspectors determined that the licensee's operations were safe and in compliance with applicable NRC requirements. The inspectors also interviewed licensee staff and management to discuss the continued oversight of the radiation safety program.

The inspectors performed surveys of the transport containers upon arrival, after the sources were removed from the containers, periodically during operations, and around the facility upon completion of the reload campaign. RadEyeG survey meters were used for surveys (SN: 30650, calibration expiration: 06/28/2022 and SN: 30652, calibration expiration: 03/03/2022).

The onsite inspection was 12/05/2021 – 12/06/2021; in office review concluded on 12/14/2021. A telephone exit meeting was conducted on 12/20/2021. No violations were identified.