

**Official Use Only - Security-Related Information**

NRC FORM 592M  
(10-2020)

U.S. NUCLEAR REGULATORY COMMISSION



**Materials Inspection Record**

<b>1. Licensee Name:</b> Ascension St. John Hospital		<b>2. Docket Number(s):</b> 030-02028		<b>3. License Number(s)</b> 21-03210-01	
<b>4. Report Number(s):</b> 2021-002			<b>5. Date(s) of Inspection:</b> December 7, 2021		
<b>6. Inspector(s):</b> Ryan Craffey		<b>7. Program Code(s):</b> 02230	<b>8. Priority:</b> 2	<b>9. Inspection Guidance Used:</b> 87104	
<b>10. Licensee Contact Name(s):</b> Laura Speer Smith - RSO		<b>11. Licensee E-mail Address:</b> lsphysics@att.net		<b>12. Licensee Telephone Number(s):</b> 586-808-3058	
<b>13. Inspection Type:</b> <input type="checkbox"/> Initial <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Announced <input checked="" type="checkbox"/> Non-Routine <input type="checkbox"/> Unannounced		<b>14. Locations Inspected:</b> <input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		<b>15. Next Inspection Date (MM/DD/YYYY):</b> No change <input type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input checked="" type="checkbox"/> No change	

**16. Scope and Observations:**

Ascension St. John Hospital is authorized to use a licensed material for diagnostic and therapeutic medical purposes, instrument calibrations, and irradiation of materials at its main facility in Detroit and at three satellite facilities in the suburbs north of Detroit. The scope of this inspection was limited to observations of the decommissioning and transfer of the licensee's self-shielded irradiator, a J.L. Shepherd Model Model 145-45 containing 480 Ci of Cs-137. The licensee had previously discontinued the use of this device in favor of an x-ray unit, but continued to adequately secure it in storage pending disposal. The licensee arranged for its disposal through a DOE program that sponsored the removal of excess, unwanted, abandoned, and orphaned radioactive sources across the country. Representatives from the irradiator's manufacturer performed the removal as authorized by the State of California (license no. CA-1777-19) and the NRC under reciprocity (docket no. 150-00004).

The inspector observed all phases of the irradiator removal, including removal of exterior irradiator components and some security measures, and relocation from the blood bank to the transportation cask laydown area, at which point the DOE took possession of the device for shipment to the Southwest Research Institute in San Antonio, Texas. The inspector observed the DOE and its rigging contractors lift the device into the cask, an Energy Solutions 10-160B (USA/9204/B(U)F-96) Type B container, and prepare the cask for transport. The licensee's RSO, management, and security maintained control and constant surveillance of the device at all times until transfer. No equipment issues were noted prior to movement of the irradiator. The inspector performed independent and confirmatory surveys of the irradiator and the room in which it previously resided; no unusual exposures or evidence of removable contamination were noted. The cask was rigidly blocked and braced for shipment, and was appropriately marked as a Yellow II package with a TI of 0.1.

Following the evolution, the inspector reviewed documentation confirming that the licensee had transferred the irradiator to an authorized recipient. Following the on-site inspection, the inspector reviewed NSTS and confirmed that all required transfer reports had been made in a timely fashion.

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