NRC FORM 591 PART 1 (05-2012) 10 CFR 2.201 U.S. NUCLEAR REGULATORY COMMISSION SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION										
1. LICENSEE/LOCATION INSPECTED: 2. NRC/REGIONAL OFFICE										
Curium US LLC 2703 Wagner Place Maryland Heights, MO 63043			Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352							
REPORT NUMBER(S) 2021001										
030-38173	5)	4. LICENSE NOMBER 24-04206-02	(5)	8/16/21	10/11/21					
<ul> <li>LICENSEE:</li> <li>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:</li> <li>✓ 1. Based on the inspection findings, no violations were identified.</li> <li>2. Previous violation(s) closed.</li> <li>3. The violations(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.</li> <li>Non-cited violation(s) were discussed involving the following requirement(s):</li> </ul>										
4. During th cited in a with 10 C (Violation	is inspection, certain of your activities, a ccordance with NRC Enforcement Polic FR 19.11. s and Corrective Actions)	as described below a y. This form is a NO	nd/or attached, were in violation TICE OF VIOLATION, which ma	n of NRC requirements a ay be subject to posting i	nd are being n accordance					
	Stat	ement of Correc	tive 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	Peter J Lee		Peter At	re	11-01-21					
BRANCH CHIEF	David E. Hills		David E. Hills Digitally Date: 20	signed by David E. Hills 21.10.29 10:18:45 -05'00'						
NRC FORM 591 PART 1	(05-2012)									

NRC FORM 592M					U.S. NU	JCLEAR REGULATORY COMMISSION				
Materials Inspection Record										
1. Licensee Name:	2. Docket Number(s):			3. Licens	3. License Number(s)					
Curium US LLC	030-38173			24-04	24-04206-02					
4. Report Number(s):			5. Date(s)	of Inspection:						
2021001		8/15/21-10/10/21			0/10/21					
6. Inspector(s):		7. Program Code(s):		8. Priority:	9. Inspection Guidance Used:					
Peter J Lee					TI 2800/043 Rev 2					
10. Licensee Contact Name(s):	mail Address: 12.		12. Licensee 1	L Telephone Number(s):						
Manuel Díaz manuel.d		az@curiumpharma.com		1 (314) 22	1 (314) 225-8628					
13. Inspection Type: Initial 14. Locations Insr		cted: 15. Next Inspection Date		Date (MM/DD/Y)	(MM/DD/YYYY):					
Routine Announced Main Office		Fiel	d Office	NIA		Normal Extended				
Non-Routine Unannounced	Temporary Job Site 🗸 Rem		note		NA	Reduced No change				
16. Scope and Observations: Curium US LLC (Curium) renovated a former cyclotron suite at its site in Maryland Heights, Missouri, to ready the space for a new cyclotron. The former cyclotron and support equipment had been removed, and Curium had contracted Ameriphysics, LLC (Ameriphysics) to remove and dispose of certain elements of the suite's concrete structure. The work involved the removal and dispositioning of approximately 400 tons of concrete. Based on the characterization survey involving gamma scan and core sampling, approximately 230 tons was low levels of residual radioactivity as a result of activation from cyclotron neutron activation. The remaining material, approximately 170 tons, was not residually radioactive because it either had not been exposed to a neutron/proton flux or it had been substantially shielded by other concrete. That remaining material was disposed or recycled as regular construction debris. Water that was used to cool and lubricate concrete cutting tools was collected. The resulting "slurry" was mechanically filtered, and any solids were collected and disposed of with other solid radioactive wase. The remaining liquid waste was emptied into the site's existing waste tank system via a drain in the cyclotron vault and managed by Curium according to its handling practices for contaminated and potentially contaminated liquids. The inspection consisted of interviews of personnel conducting the concrete removal activities and reviews of concrete and liquid waste sample analyses and waste shipments of the activated concrete. All the concrete disposed of or recycled as regular construction debris was well within background radiation levels. The activated concrete removed met non-DOT regulated materials requirements and was disposed off at the Waste Control Specialists facility in Webster, Texas. Based on the inspection, the inspector determined that the concrete removal activities were conducted in accordance with the approved Radiological Work Plan prepared by Ameriphy										