

## ORNL SITES - SUMMARY

License No.: SUB-00503 ORNL Score: 6  
Docket No.: 040-05840  
Licensee: Columbia University Review Status: **Completed**  
Site Address(es): Industrial Reactor Laboratories  
Plainsboro, NJ 08536  
Site Contact: David Leigh (last contact)  
Telephone No.: (609) 799-1800  
SDMP Site: no  
Related License(s): 29-00651-02, 29-03686-02, 29-12944-01  
NRC Reviewer: Richard Barkley  
Review Abstract: Industrial Reactor Laboratories owned an isotope production and research reactor located in Plainsboro, NJ from 1958 until 1975. The facility was operated from 1960 till 1967 by Columbia University under an agreement with IRL. License SUB-00503 allowed Columbia University to possess up to 500 pounds of uranium for various research uses at IRL. In light of the extensive decommissioning and final survey of the IRL facility as well as the confirmatory NRC survey and review and inspection of that decommissioning project, no further action is necessary by the ORNL Identified Sites Program at this site.

Recommendations: None.

Summary: Industrial Reactor Laboratories (IRL), Inc. operated a 5 MW research reactor and isotope production laboratory in Plainsboro, New Jersey. In 1960, Columbia University was contracted by IRL to operate the facility and did so until 1967. License SUB-503 was used by Columbia, albeit relatively infrequently, from 1960 until it was allowed to expire in 1964. The licensed material was used exclusively at the IRL facility.

In 1976-1977, IRL conducted an extensive decommissioning effort at the IRL facility. After considerable review by the NRC, including inspections and confirmatory surveys of the site, the NRC concluded in a January 30, 1978, safety evaluation that the facility had been adequately remediated to allow release of the property for unrestricted use. While a very limited amount of radioactive material was left in-place at IRL, none of the material which remained was uranium.

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Based on the consistency of the radioactive release specifications used by IRL during the decommissioning of the facility in 1976-1977 with past and current standards for uranium contamination and the radiation emitted from uranium, the facility would be releasable for unrestricted use today. Thus no follow-on surveys or actions with respect to the use of uranium under this license are warranted. No further action is necessary by the ORNL Identified Sites Program at this site.

Reviewed by: Richard H. Barkley Date 8/3/94

Approved by: JLH Date 8/3/94