

APPENDIX

U. S. NUCLEAR REGULATORY COMMISSION  
REGION IV

NRC Inspection Report: 30-11305/83-01

Docket: 40-8645 (SUB-1316)  
30-11305 (43-16601-01)

Priority/Category: K7 (SUB-1316)  
E3 (43-16601-01)

Licensee: Kaman Sciences Corporation  
1500 Garden of the Gods Road  
Colorado Springs, CO 80907

Inspection at: Licensee's facility 195 West 2950 South, Salt Lake City, Utah

License Closeout Conducted: July 15, 1983

Inspector:

N. M. Shopenh  
N. M. Shopenh, Radiation Specialist

8/29/83  
Date

Approved:

R. J. Everett  
R. J. Everett, Chief, Materials  
Radiation Protection Section

8/30/83  
Date

License Closeout Summary

License Closeout Conducted July 15, 1983 (Report 30-11305/83-01)

Areas Examined: The closeout inspection consisted of a review of the transfer and disposal of licensed materials, decontamination activities, surveys, and independent measurements by the NRC inspector. The closeout involved 2 hours of direct inspection effort by one NRC inspector.

Results: The licensee's facility had been closed for several months and was locked and unoccupied at the time of the visit. All materials possessed under both licenses had been properly transferred as described in Forms NRC-314 submitted by the licensee. The licensee closeout survey report dated May 31, 1983, indicated no removable contamination remaining in areas where isotopes had been used. The NRC confirmatory survey found one area of elevated fixed beta contamination less than NRC-recommended guidelines. Licensee surveys showed no fixed or removable contamination above guideline levels. It is recommended that the licensee's facility at 195 West 2950 South, Salt Lake City, Utah, be released for unrestricted use and that License SUB-1316 be retired with no further action and License 43-16601-01 be terminated.

DETAILS

1. Persons Contacted

D. Dameron, Radiation Safety Officer  
D. Mills, Facility Caretaker

2. Reason for Closeout

In letter dated January 26, 1983, the licensee submitted a Form NRC-314 (attachment 1) in response to NRC's Notice of Expired License dated January 12, 1983, regarding License SUB-1316. The licensee called in March 1983 to inform Region IV that they were closing their Salt Lake City facility and wished to close out the other associated license, number 43-16601-01. Region IV requested the licensee conduct a closeout survey for the facility. This closeout survey was submitted on May 31, 1983, along with Form NRC-314 for License 43-16601-01 (attachment 2). An NRC confirmatory survey was deemed necessary and was performed on July 15, 1983.

3. Results

License SUB-1316 authorized possession of premachined depleted uranium and sealed uranium tubes and neutron detectors. All material possessed under the license was transferred to the Department of Energy. License 43-16601-01 authorized possession of numerous isotopes, most of which could be in any chemical and/or physical form. Possession limits ranged up to 10 millicuries for several isotopes. All unused material possessed under this license was transferred to Kaman's Colorado Springs facility which is licensed by the state of Colorado.

The licensee's closeout survey dated May 31, 1983, was found to be deficient in that only surveys for removable contamination had been performed. Results of the licensee surveys showed no areas of contamination above background. An NRC survey for external exposure rates, and fixed and removable contamination was performed on July 15, 1983, of material use areas identified by the licensee. External exposure rates were found to be background. All surface contamination surveys also were background with the exception of one small area along the junction of two floor tiles. This area showed a fixed beta contamination level of 11,400 dpm/100cm<sup>2</sup>. The area which was approximately 100cm<sup>2</sup> was less than the 15,000 dpm/100cm<sup>2</sup> maximum level recommended by NRC's "Guidelines For Decontamination of Facilities and Equipment Prior to Release For Unrestricted Use."

4. Conclusions

Based upon the information submitted by the licensee and the confirmatory survey results obtained July 15, 1983, the licensee's facility at 195 West 2950 South, Salt Lake City, Utah, appears free of residual contamination above guideline levels. Materials previously possessed under the licenses have been properly transferred and documentation to this effect has been received by the NRC. It is recommended that the licensee's facility be released for unrestricted use and that License SUB-1316 be retired with no further action and License 43-16601-01 be terminated.