



DEPARTMENT OF THE ARMY
 U. S. ARMY NUCLEAR DEFENSE LABORATORY
 EDGEWOOD ARSENAL, MARYLAND 21010

IN REPLY REFER TO:
 AMXRD-NDL-H

Compliance
 7 March 1969

Director, Division of Materials Licensing
 U.S. Atomic Energy Commission
 Washington, D. C. 20545

Dear Sir:

In compliance with the provisions of AEC License 19-1826-07, Amendment 09, dated March 3, 1967, Condition 13.E., the following information is submitted:

On 27 February 1969, this Laboratory received a Co60 sealed source, labeled activity 0.5 Ci, Serial No. 4-620, U. S. Nuclear Corporation, Middletown, Connecticut. A certificate of leak test from the transferor was not received.

On 28 February 1969, the subject source was leak tested in the Laboratory's Hot Cell facility using master-slave manipulators for source handling. Results as follows:

Source swipe	7.4 x 10 ⁻⁶ μCi
Shipping Container swipe	2.5 x 10 ⁻⁶ μCi

The source was placed in a Laboratory shield. On 3 March 1969, the decontamination of the source was attempted. It was dried and reswiped. Results were:

Source swipe	9.85 x 10 ⁻⁶ μCi
Shield swipe	1.39 x 10 ⁻⁶ μCi

On 4 March 1969, decontamination was again attempted. Results were:

Source swipe	2.25 x 10 ⁻⁶ μCi
Manipulator, Right	2.55 x 10 ⁻⁴ μCi

*3.12.69-19.00
 51.0*

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Counting was performed using Sharp's Low Betamatic equipment, 0.95 confidence level, 2 sigma standard deviation. Gamma spectrometry indicated peaks characteristic of the Co60 isotope.

Corrective action: the source will be kept in a shield in the hot cell facility for a period of seven days after which re-survey will be performed. Should the results prove unsatisfactory, the source and shipping containers shall be returned to the manufacturer.

Addressees of this letter will be informed of final action.

Sincerely yours.


EARL G. WRIGHT
Radiation Protection Officer