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August 21, 1958

U. S. Atomic Energy Commission
Division of Civilian Application
Byproduct Licensing
1717 H Street NW
Washington, D. C.

Attention: Mr. James W. Hitch

Dear Mr. Hitch:

This is to inform you that the operation involving the use of 1 mc. of chromium 51 at Convair, San Diego as permitted by your amendment No. 4 of August 12, 1958 to our license No. 4-580-7, was completed on August 15, 1958.

This usage was performed as described in our letter of request of August 5, 1958 and all materials have been returned to our plant. In addition to Mr. Dickey, this demonstration was performed in the presence of Convair's health physicist.

The demonstration involving the use of I-131 at an oil field near Bakersfield, which is also covered by amendment No. 4, has not yet been performed and we will let you know the outcome of this matter. We are cognizant of the termination date of this amendment of August 31, 1958.

Thank you for your consideration in these matters.

Sincerely yours,

Philip Gill

PG:gh

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September 1, 1953

ISOTOPES SPECIALTIES COMPANY, INC.

SEALED SOURCE

CONTAMINATION TESTS

I. REQUIREMENTS

1. All sources are to be tested.

2. Tests are to be sufficiently sensitive to detect the presence of the following amounts of removable activity on the source:

Beta-gamma:	0.05 uc.
Alpha:	0.005 uc.

This will be interpreted as follows. Tests made according to the procedures below will be assumed to remove 1/10 of the amount of removable contamination on the sources. In other words, the measurements must be sufficiently sensitive to detect 0.005 uc. (11,000 d/m) of beta-gamma emitters and 0.0005 uc. (1100 d/m) of alpha emitters.

3. All sources are to be decontaminated if necessary until tests are negative.

4. Sources containing alpha emitters are to be stored for seven days and retested. Any increase indicates a leaking source, which must be resealed and retested before shipment.

5. Sources containing beta and/or gamma emitters are to be stored for thirty days and retested. Any increase indicates a leaking source, which must be resealed and retested before shipment. The following specific sources in solid metallic form are excepted from the thirty-day storage period: Ir-192, Ta-182, Au-198, Sb-124, gold or nickel plated Co-60.

6. All sources must be tested and found negative within thirty days of shipment.

II. PROCEDURE FOR SOURCES CONTAINING ALPHA EMITTERS

1. Introduce a counting dish half full of methyl alcohol into the glove box, taking care not to contaminate the dish.

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2. Place the source in the dish for several minutes, turning the source over to make sure that all surfaces contact the alcohol. Note: Source should be handled with clean handler and all manipulations are to be done behind adequate shielding.

3. Place lid on counting dish and remove from glove box. Note: Survey dish with Samson meter during removal.

4. Transfer dish to hood and evaporate alcohol under infra-red lamp.

5. Replace lid on dish and transfer to instrument table.

6. Measure dish in L-75 analysis unit according to standard procedure.

7. Calculate d/m above background, record in source log book and on source data sheet. Get supervisor's okay for shipment.

III. PROCEDURE FOR SOURCES CONTAINING BETA AND/OR GAMMA EMITTERS

1. Moisten a Q-tip and place wooden end in handler.

2. Rub source with Q-tip, exerting fair pressure, and paying particular attention to the area of the seal. Note: All manipulations are to be done behind adequate shielding.

3. Place cotton end of Q-tip one inch from 30 mg/cm^2 geiger tube. Note reading above background.

4. Allow Q-tip to dry and repeat Item 3.

5. Record data in source log book and source data sheet. Get supervisor's okay for shipment.

JWHitch

September 2, 1958

TELEPHONE CALL FROM: Mr. Bob Moore
Director of Procurement and Production
San Antonio Air Materiel Area
Kelly Air Force Base, Texas

He was interested in the current license of Isotopes Specialties for accepting radioactive waste. Asked that we wire him details concerning Isotopes Specialties license. This has been accomplished.

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