



SINCLAIR RESEARCH, INC.

400 EAST SIBLEY BOULEVARD
HARVEY, ILLINOIS

November 8, 1963

Mr. Roy C. Hageman, Director
U. S. Atomic Energy Commission
Division of Compliance, Region III
Oakbrook Professional Bldg., Suite 410
Oak Brook, Illinois

Dear Sir:

The following comments are in reply to your letter of October 24, 1963. We are pleased to note that no items of non-compliance were noted with respect to Licenses No. 12-140-5 and 12-140-6. In regard to License No. 12-140-4 the following replies are lettered in accordance with the comments on Form AEC-592, signed by Mr. Roy.

- a. At the time of inspection we possessed 2.02 curies of Krypton 85, whereas item 8 in our license provided for a maximum possession limit of only one curie. We have applied for an amendment to our by-product material license and now are in receipt of such an amendment, License 12-140-4 (G65) Amendment No. 8, dated November 5, 1963. This new amendment has a possession limit of 20 curies of Krypton 85 so that our present possession amount of 2.02 curies is well within this limit. In future purchases we intend to institute a more rigorous check procedure to assure that we stay within current possession limits.
- b. Leak tests on a 10 mc Strontium 90 sealed source in storage were not carried out for the period of time mentioned in this item. This source was not in use during this time and was in a locked location of highly limited access. A leak test run recently showed that the removable contamination is well below the limits set by the license.

To insure that even sources in storage are not overlooked, we have instituted a new check procedure. All sealed sources are listed on a sheet posted in the radiation laboratory. There is a square on this chart for every month in the year. Each square must be initialed each month by the personnel of the radiation laboratory. This initialing procedure serves as a reminder of the months when the wipe tests are to be made and the list of all sources to be wiped at each period serves as an assurance that none will be overlooked, even if in storage.

- c. The records of the results of leak tests performed on the Strontium 90 sealed source contained in the Cenco beta ray Hydrocarbon Meter have been converted to microcuries, as required by the license. Removable contamination is well below the limits set by the license. The supervisor of the people who perform this wipe test has been reformed concerning the

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necessity of reporting in terms of microcuries rather than counts.
Written instructions have been sent to the supervisor concerned.

We trust that the above comments satisfactorily answer the points raised by the inspection. To the best of our knowledge all corrective actions may be regarded as now completed.

Yours very truly,

SINCLAIR RESEARCH, INC.

A handwritten signature in cursive script, appearing to read "A. I. Snow".

A. I. Snow, Director
Radiation Division

AIS:ec