

In Reply Refer to:
IEB:DAN

Oak Ridge, Tennessee
March 22, 1956

Mr. E. H. Dooley
United States Radium Corporation
Post Office Box 380
Bloomsburg, Pennsylvania

Subject: HANDLING INSTRUCTIONS FOR SEALED KRYPTON 85 SOURCES

Dear Mr. Dooley:

Thank you for the proposed handling instructions for sealed Krypton 85 that accompanied your letter of February 4. Please excuse the delay in reply. This was occasioned by an unusually heavy work load.

We should like to make a few suggestions. The paragraph concerning rupture of the source window and monitoring could be developed further by giving more detailed instructions accompanied by examples. In regard to rupture of the source window, for example, one might say, "Care should be taken to avoid rupture of the source window which would result in escape of the radioactive gas. Should a rupture occur, personnel should leave the room and the room should be ventilated."

Other areas that might be covered in such instructions are:

1. The necessity, if any, for posting area caution signs.
2. Recommendations for safe storage and disposal.
3. In the case of a gaseous source such as Krypton 85, a suggestion to the user that any time there is reason to believe that the source is leaking, as by unexplained variations or drifts in the device or related instrumentation, the source should be leak tested. An effective test for leakage could be described so that the user could perform his own test or mention should be made that U. S. Radium could be called to make such a test.

II-1689

Mr. H. H. Dooley

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We trust the above comments will be helpful to you. We should appreciate receiving a copy of any revised instructions for handling Krypton 85 sources when they are written. If we can be of further service, please do not hesitate to contact us.

Very truly yours,

D. A. Nussbaumer
Technical Reviewer
Byproduct Licensing Branch
Isotopes Extension
Division of Civilian Application

Nussbaumer:bc

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