



UNION CARBIDE CORPORATION

OLEFINS DIVISION

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July 1, 1966

U. S. Atomic Energy Commission
Division of Licensing and Regulations
Washington, D.C.

Gentlemen:

This letter is a request for an amendment to our license 47-260-2 to incorporate the possession of a 4 curie Cobalt-60 encapsulated source. The source is presently possessed by the Research Triangle Institute at Durham, North Carolina, on their license No. 32-131-1 (G67). The source will be returned to RTI in late 1966 or early 1967.

The following information concerning this source has been supplied to us by Dr. Robin P. Gardner, the Radiation Safety Officer of RTI.

"This source is contained in a lead lined, brass, tubular shaped container with a removable top. The container was manufactured by National Electric Machine Shops, Inc., Silver Springs, Maryland. The dimensions are: 12-1/2 inches diameter x 15-1/2 inches in height. It weighs 436 pounds. The container has a cavity in the center which holds the radioactive Cobalt-60 capsule. Attached to the capsule is one end of a flexible cable which passes through the chamber wall to the outside control. During operation, a cone-shaped opening, which is the radiation outlet, in the chamber permits radiation from the Cobalt-60 to emanate from the chamber in a beam when the capsule is in the raised

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position. When held in storage, the radiation outlet is covered with a special 'shipping plug.' This chamber was formerly a part of Radiac Calibration set Model AN/UDM-1. The source serial No. is 87 with a radiation label indicating an activity of 11 curie as of June 10, 1958. The chamber has been adapted to provide a flashing light and sound signal when the shipping plug is removed. This is accomplished by use of a microswitch."

Thank you.

Very truly yours,



Measurements Division
Special Instrumentation
ENGINEERING TECHNOLOGY & SERVICES

RVSealey/cwl

cc - Mr. B. H. Carpenter
Mr. E. C. Harry
Mr. N. H. Ketcham
Mr. Fred Williams

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