



SEALED SOURCE FILES

AREA CODE 817

3271

47

pk

WMM

# TRACERLAB

A DIVISION OF LABORATORY FOR ELECTRONICS, INC.

1601 TRAPELO ROAD • WALTHAM 54, MASSACHUSETTS

TWINBROOK 4-6800  
CABLE ADDRESS  
LFE

November 14, 1963

Mr. R. E. Brinkman  
United States Atomic Energy  
Commission  
Division of Licensing and Regulations  
Washington 25, D. C.

Dear Mr. Brinkman:

Request is made for approval to supply Ir-192 sealed sources, (our model CD-11) in strengths of up to 3 curies of Ir-192. We will be using the standard AECL capsule, their model C-164. A sketch of this capsule is enclosed for your convenience. The activity in every case will be solid iridium metal.

Each capsule will be engraved with the isotope, quantity and date. Our standard "Civil Authority" tag will be attached to the source. This tag will also contain the isotope quantity, date and model, and serial number.

Each capsule will be tested for leakage by the total immersion method at the time of manufacture and again seven days later, prior to shipment. In addition, at the time of manufacture, we will run a vacuum test for the presence of bubbles. This test is performed by reducing the pressure on the surface of the liquid to 1 mm of mercury for one minute. If there is any evidence of bubbles, the source is rejected.

Encapsulation is made by our standard technique; i.e., heliarc welding around the circumference. This is identical to the operation performed on our Cobalt-60 capsule, model CD-1.

We will appreciate your effort to expedite this matter.

Yours very truly,

*William Karp*

William Karp, Manager  
Sources Department

WK:p

enclosure



9702240340 950908  
PDR RC \* PDR  
SSD

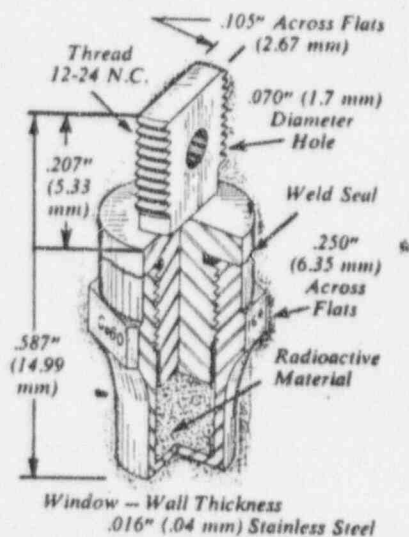


SEALED SOURCE FILES

# IRIDIUM-192 CAPSULE

For source strengths up to 3 curies

Tracerlab Model CD-11



Capsule Type C-164

Serial No.:

Millicuries:

Cal. Date:

Leak Test Results (UC):

Leak Test Date:

By:

NOTE: "Civil Authority" tag is attached by means of a wire ring through the capsule

- (2) Millicurie strength is based on a conversion factor of 550 mrhm/curie
- (3) Sources are leak tested at the time of manufacture and again seven days later by the total immersion method

OFFICIAL USE ONLY

SEALED SOURCE

MANUFACTURER:

Tracerlab, Inc.

DISTRIBUTOR:

Same

ISOTOPE:

Iridium 192  
(up to 3 curies)

MODEL NO:

CD-11

DESCRIPTION:

Solid iridium metal encapsulated in stainless steel. Closure is heliarc welded. Overall dimensions are 0.250" diameter by 0.587" length. Source has a 0.07" diameter hole in which the manufacturer fastens an identifying tag. The tag lists the isotope and quantity, date, model and serial number.

September 24, 1965

OFFICIAL USE ONLY