



pull RR 31 file from 55 files room

TRACERLAB

A DIVISION OF LABORATORY FOR ELECTRONICS, INC.

1601 TRAPELO ROAD • WALTHAM 54, MASSACHUSETTS

AREA CODE 617

3331

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file name

November 27, 1963

TWINBROOK 4-6600

CABLE ADDRESS
LFE

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

SEALED SOURCE FILES

Dear Mr. Brinkman:

We would like to introduce a modification of one of our sources for the purpose of customer licensing based on your approval of design. You are aware of our R30-R31 cobalt-60 sources in strengths of up to 10 millicuries. The production prints and specifications are on file at your office. This modification would permit the use of Cesium-137 sources in strengths of up to 20 millicuries, using the very same capsule, sealing techniques and shield. The model designation number would be R-58 (uncalibrated) and R-59 (calibrated).

In this case, the Cesium-137 in the chloride form would be evaporated to dryness in an inner aluminum tube which would further be covered and glazed with sodium silicate. This unit would be inserted into the outer tube and sealed by heliarc welding.

Standard submersion tests would be performed following a vacuum test in which the pressure on the surface of the liquid is reduced to 1 mm of mercury for one minute. The observation of bubbles would be cause for rejection.

With respect to the submersion test, the presence of any removable contamination would require additional washing and retesting.

We would appreciate your early attention to this request.

Yours very truly,

William Karp

William Karp, Manager
Sources Department

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