



TRACERLAB

A DIVISION OF LABORATORY FOR ELECTRONICS, INC.

1601 TRAPELO ROAD • WALTHAM, MASSACHUSETTS 02154

June 21, 1965

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CABLE ADDRESS
LFE WALTHAM, MASS.

U. S. Atomic Energy Commission
Isotopes Branch
Division of Materials Licensing
Washington 25, D.C.

Attention: Mr. Robert E. Brinkman

Reference: ML:IB:REB(66334)

Dear Mr. Brinkman:

The enclosed instruction manual is in support of the license application of Mr. Sandy Lew at the Brunswick Corporation. Complete information on radiation levels, necessary precautions, maintenance procedures, etc., is included.

The construction of the clathrate cell is not covered in any great detail, so I shall do that here.

The clathrate cell is a piece of $\frac{1}{4}$ inch teflon tubing about four inches long. This tube is charged with clathrate in the following way. A circular piece of fine mesh wire screening is wedged into the tube about one inch from one end. Enough fine teflon wool is packed on top of this screen to fill the tube to the midpoint. The clathrate (a coarse gray powder) is then carefully placed on top of this teflon wool plug. The amount used occupies about $\frac{1}{4}$ inch in length of the teflon tubing. More teflon wool is then packed on top of the clathrate to about one inch from the end of the tube. Another piece of fine screen is wedged in place over the wool, and the cell is complete. Dimensions are chosen to place the clathrate in the center of the shield shown in Fig. 2

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The cell is shipped with tubing end caps firmly fastened in place on both ends of the tubing. This assembly is then sealed in a transparent plastic vial.

Please consult me if any further information is needed.

Sincerely,

A handwritten signature in cursive script, reading "Richard H. Forsyth".

Richard H. Forsyth
Sr. Scientist
Research and Development Division

RHF/cmc

Enclosure