

GENERAL OFFICES • 2501 HUDSON ROAD • ST. PAUL 19, MINNESOTA • TEL: 733-1110

Nuclear Products

July 27, 1964

United States Atomic  
Energy Commission  
Washington, D. C. 20545

Attention: Mr. William O. Miller  
Isotopes Branch  
Division of Materials Licensing

Subject: Sr-90 Line Radiation Source, 3M Model 3AlF

Dear Bill:

Reference my letters of 27 May and 1 June 1964, subject as above, and my telecon with your Bill Haddican on 17 July.

In view of the fact that drawing B-1813-187 is not as explanatory as we would like in some cases, I wish to provide additional information. Let me draw your attention to the enlarged view at the lower left portion of the drawing, which is a "tube end" view. The SrY-90 containing tube (actually tube in a tube) is placed in the cradle formed by the  $\frac{.003}{.005} \times 45^\circ$  chamfer. It is

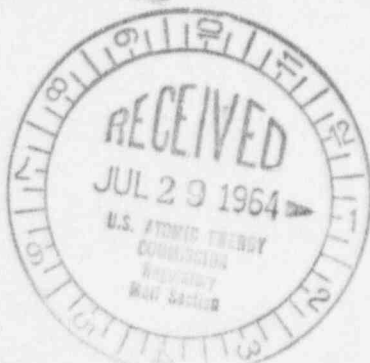
held in this cradle by a back plug which fills the  $\frac{1}{8}$ " wide channel behind the tube. This plug is a press fit which is welded on the non-tube end to hold it in place. The outer tube, of course, is of such a diameter that it will not pass through the  $\frac{.025}{.029}$  opening in the front of the source. After the tube has been secured in position a porcelain enamel frit is placed in the front face in the "race track" shaped depression provided. This frit is Ferro Corporation L 7642B.

I trust that this additional information will permit you to complete the registration of this source. If there are any other questions please do not hesitate to contact me.

Very truly yours,

*Robert J. Kunz*

Robert J. Kunz  
Supervisor  
Administrative Services  
TCAAP-588



RJK/ar



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