AUG 31 1964

ML:IB:REB(61656)

General Electric Company
Missile & Space Division
Space Technology Center
Goddard Boulevard
King of Prussia, Pennsylvania

Attention: Mr. J. H. Stricker

Gentlemen:

This refers to your application dated August 6, 1964, for amendment of Byproduct Material License 37-2006-5.

Please describe the facilities to be used and the procedures to be followed in handling the sealed source containing 1 millicurie of Americium 241, including the control procedures to be in effect to ensure against alpha contamination during each use of the source. The thin window covers on sealed sources designed to emit alpha particles are extremely fragile and may break down or rupture in a matter of weeks or months because of alpha bombardment and normal handling stresses. The manufacturer recommends that the Model NS-2 alpha source be handled in enclosed hoods as a precaution against possible contamination.

Please describe also the procedures to be followed in leak testing the sealed source containing Americium 241. It is required that sealed sources designed for the purpose of emitting alpha particles be tested for leakage at intervals not to exceed three months and it is recommended that the source be tested after each use or if there is any reason to suspect leakage of alpha-emitting material. Care should be taken not to rub or touch the fragile window covering when testing the source.

Sincerely yours,

Robert E. Brinkman
Isotopes Branch
Division of Materials
Licensing

bcc: Compliance Region I

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