

GENERAL ELECTRIC

SPACE DIVISION

GENERAL ELECTRIC COMPANY VALLEY FORGE SPACE CENTER
(MAIL: P. O. BOX 8555, PHILADELPHIA, PENNSYLVANIA 19101), Phone (215) 962-2000

October 27, 1975

Director of Nuclear Material
Safety and Safeguards
Attn: Mr. Robert E. Brinkman
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555


Dear Mr. Brinkman:

This letter requests an amendment to byproduct material license number 37-02006-05 according to the details listed below.

1. Radionuclide: polonium-210
2. Chemical/Physical form: any
3. Maximum quantity: 0.1 curie
4. Purpose: Fabrication of sealed sources for research and development. Sources of the design required are not available through commercial vendors.
5. Facilities: Glove box equipped with high efficiency filtration and air lock.
6. Radiation Protection: The air in the vicinity operation will be monitored continuously during operations with a energy-resolving alpha air monitor capable of detecting of concentration of 200 pCi/m³ in one minute. Equipment and room surfaces will be surveyed frequently for alpha emitter contamination.
7. Description of Operations: Generally-licensed sources as supplied by the 3M company will be disassembled and remounted in a licensee fabricated source holder. The source is epoxied into place then covered with an aluminum window thin enough to transmit a majority of the alpha radiation.

✓ Following assembly, the source is cleaned, passed out from the glove box, and surveyed for alpha contamination. The need for these sources is urgent. Your immediate consideration of this request will be greatly appreciated.

Sincerely,



R. G. Oesterling, C.H.P.
Radiation Safety Officer

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