

# GENERAL ELECTRIC

GENERAL ELECTRIC COMPANY . . . . . 3198 CHESTNUT STREET  
PHILADELPHIA, PENNSYLVANIA 19101, Phone (215) 823-1000

1844  
RE-ENTRY AND  
ENVIRONMENTAL  
SYSTEMS DIVISION

June 21, 1971

Mr. Robert Brinkman  
United States Atomic Energy Commission  
Isotopes Branch  
Division of Materials Licensing  
Washington, D.C. 20545

Dear Mr. Brinkman:

I am requesting to amend By-Product Material License No. 37-92006-06, sub-item 8G to read, "one curie total" and sub-item 10D to read, "By-Product material licensed as sub-item 6G may also be used at Weston Instrument Co., 1219 Vine Street, Philadelphia, Pa. in addition to GE/RESD facilities."

Our customer has indicated a desire that the displays on our "backpack", underwater breathing apparatus, have the capability of being effectively read under extremely adverse operating conditions.

Investigation to date indicates the feasibility of treating the meter scales and pointers with a 3M radioluminous microsphere containing Promethium 147. The activity contained in the meter scales and points will be approximately 20 millicuries. The intended sequence of events leading to the deliverable displays is as follows:

1. Weston will provide the basic meter, pointer and scales. The initial order is for 12 scales and 12 pointers.
2. Weston forwards the completed scales and meter points to 3M Company in St. Paul, Minnesota, where the radioluminous material is applied.
3. 3M Company returns the hardware to Weston, for assembly into the display housings.
4. Assembled displays are returned to GE/RESD for acceptance test and incorporation into the Mod 5 backpacks.

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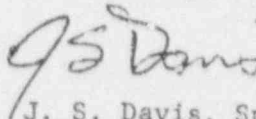
Mr. Robert Brinkman  
Page Two  
June 21, 1971

5. GE/RESO delivers six assembled Mod 5 backpacks to the Navy under their AEC license.

All health physics related functions will be provided by me at the Weston facility, including monitoring, surveying, establishing procedures and providing radiation safety training.

If further information is required, please contact me at your convenience.

Yours truly,



J. S. Davis, Specialist  
Radiation Protection  
Industrial Safety Engineering  
Room M430  
(215) 823-3745/6

/ktf