



The Ohmart Corporation

4241 ALLENDORF DRIVE

P.O. BOX 9026

CINCINNATI, OHIO 45213

March 10, 1969

U.S. Atomic Energy Commission
Division of Materials Licensing
Washington, D.C. 20545

Amendment 5

Attn: Mr. James C. Malaro

Dear Sir:

We are submitting a new source-holder design for approval for distribution to General Licensees. We desire to use this design on all Kr-85 applications up to 2000 mc. This will include all Gauge models listed on our GL-127 through Amendment #04. I am including Drawings #C-13024, C-13453 and D-13193.

Dwg. C-13024 shows the source holder as it would be housed in LBG, BG, and BGO series gages. BGOC and BGOM series gages will have housings identical or very similar to the BGO. This drawing was included in those submitted for approval for a gage supplied to The Sorg Paper Co., Middletown, Ohio. Approval was given and Drawing B-13031 was used as a reference number for the approval at your end.

Dwgs C-13453 and D-13193 show the source holder and Model BG "C" frame for a particular job which we are building.

This should be taken only as an example. We will provide lead shielding where required to bring the radiation level at 12" from any point on the gage to less than 5 mr/hr. We have determined from a prototype setup that under any practical service condition, the shutter design is adequate. With the shutter closed and the detector removed from its housing so that there is nothing between the source shutter and the access opening in the detector housing except thin plastic windows which is the worst practical case, the radiation level will still be less than 5 mr at 12" from the opening. It is necessary to remove power from the gage to remove the detector assembly and thus the source shutter closes automatically due to the "failsafe" nature of the source holder design.

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We should like to obtain an evaluation as soon as possible of this design for General Licenses. Should you have any questions please address them to the writer.

Very truly yours,

THE OHMART CORPORATION

G.A. Kelly

G.A. Kelly,
Staff Engineer

GAK/pat

Enclosures: C-13024,
C-13453,
D-13193

CC: H.L. Cook
1969 AEC File

13047



THE OHMART CORPORATION • 4241 ALLENDORF DRIVE, CINCINNATI, OHIO 45209 • (513) 272-6

December 8, 1969

U.S. AEC
Division of Materials Licensing
Washington, D.C. 20545

Basic
34-639-46

Attention: Mr. Peter Veerling

Gentlemen:

This is in regard to the writers conversation with Mr. Veerling regarding the Ohmart Model A-2104 Cesium source in the model HM8 source holder.

I am enclosing Drawings #A-2102, A-2104, C-1693.

Referring to Dwg. C-1693, the tube in which the source is mounted will accommodate a 1.5" long source 0.5" in diameter. Ohmart source model A-2104, 3M model 4D6L is 1.5" long and 0.490 diameter. Ohmart model A-2102, 3M model 4F6S is 0.75" long and nominally the same diameter (0.500" + .000 - .010). When the model A-2102 source is used a coil spring is placed behind the source capsule to hold the source against the retainer ring and take up the 0.75" extra space.

The limit of CS-137 that the Model A-2102 capsule will accept is 3000 miCi. Above this amount it is necessary to use the Model A-2104.

Our General License calls out only the A-2102 source model whereas the limit quantities in most cases exceed 3000 miCi. We therefore request that the Model A-2104 source be added to our General License GL-101 listed as an alternate capsule wherever A-2102 appears.

As an explanation of some information on the drawings, although Monel or stainless steel welded construction is called out, current sources purchased are of all stainless steel construction and meet the U.S.DOT requirements for special form. While U.S. Radium and U.S. Nuclear are out of business, we still have some of their sources in stock and infrequently have a use for one.

I trust the information above will be satisfactory for amendment of our GL-101. Please advise the State of Alabama that the Model A-2104 is an accepted source. Should further information be

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