



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

DEC 31 1980

FCTC:RHO
71-9133

Gamma Industries
ATTN: Mr. Harry D. Richardson
P. O. Box 2543
Baton Rouge, LA 70821

Gentlemen:

This refers to your application dated May 5, 1979, as amended September 14, 1979, requesting approval to deliver the Model No. C-10 packaging to a carrier for transport. Your September submittal was not received until May 6, 1980 and then was not responsive to our request for additional information of September 11, 1979. In connection with our review, the following information is needed:

1. We agree that the lockbox is the area where maximum damage to the device (possible relocation of the source) might be expected. There is no conclusive evidence to indicate that the Model C-10 was tested without the housing or with the housing in such an orientation that would cause maximum damage to the lockbox as a result of the free drop and subsequent puncture test. In fact, photographs T-19 and T-20 indicate that the initial impact was away from the area of the lockbox and that the device had the benefit of the housing. The initial point of impact and the position of the lockbox for the free drop and puncture test should be clearly identified. The condition of the lockbox following the tests should be explicitly stated and supported by photographs.
2. Neither the drawings or bill of materials show all the materials of construction. For example, Drawing No. 811-1005-107 for the lockbox does not indicate the material nor is the material indicated on the Bill of Material. The drawings should indicate all materials of construction.
3. A drawing which shows the general arrangement of the package has not been provided. An engineering drawing which shows the general arrangement of the package, welds, dimensions, connection of the lockbox to the steel case, positioning of the uranium shield in the steel case, etc., needs to be provided.

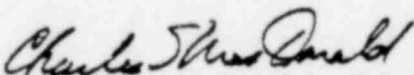
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4. It is not apparent how the device will relieve pressure buildup as a result of the decomposition of the foam potting material for the thermal test. A positive means for pressure relief and the possible repositioning of the uranium shield in the steel case in the absence of the foam potting material should be addressed.

If you have any questions regarding this matter, we would be pleased to discuss them with you and your staff. Please let us know when this information will be provided.

Sincerely,


Charles E. MacDonald, Chief
Transportation Certification Branch
Division of Fuel Cycle and
Material Safety