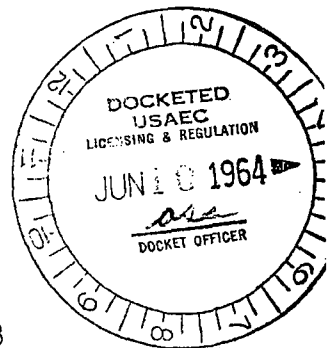


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NUCLEAR  
DIVISION  
Baltimore,  
Maryland  
21203

**MARTIN COMPANY**

Mail No. 807  
June 9, 1964



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

Attention: Mr. Kenneth Lauterbach

Subject: Additional Information for Amendment No. 20 to SNM-53

Gentlemen:

Recently we have obtained AEC approval for the shipment of uranium bearing scrap from Baltimore to Nuclear Fuel Services at Erwin, Tennessee. This request is to obtain approval for use of the tubular fuel shipping container previously approved in Amendment No. 19 in making shipments of reject stainless steel clad tubular forms for uranium reprocessing.

The shipping array will be as in Amendment No. 19 -- 2 containers wide by 5 containers long as detailed in the attached drawing. A limit of 3500 gms U-235 has been established for each container. This limit is possible through the elimination of protective shipping measures used for the product shipments to Sioux Falls.

Nuclear safety is based on geometry utilizing a five-inch diameter inner storage container. With reference to the Nuclear Safety Guide -- TID-7016 Revision 1, the total fractional solid angle for an array interaction calculation is 1.0. The solid angle calculation was performed as if only two units were being shipped, each unit being 5 inches in diameter by 340 inches long (1700 sq. inches projected area). This conservative calculation results in a total solid angle of 0.75, well within the limits of 1.0 for the solid angle.

Since the container has previously been approved and we consider the nuclear safety to be straightforward, we would appreciate approval in order to schedule shipment during the week of June 15. We believe that this approval will complete shipment of scrap for reprocessing and sincerely appreciate your efforts and those of personnel of the Criticality Evaluation Branch in granting prior shipment approvals.

Very truly yours,

*C. W. Keller*

C. W. Keller  
Nuclear Accountability &  
Licensing Representative

Attachments

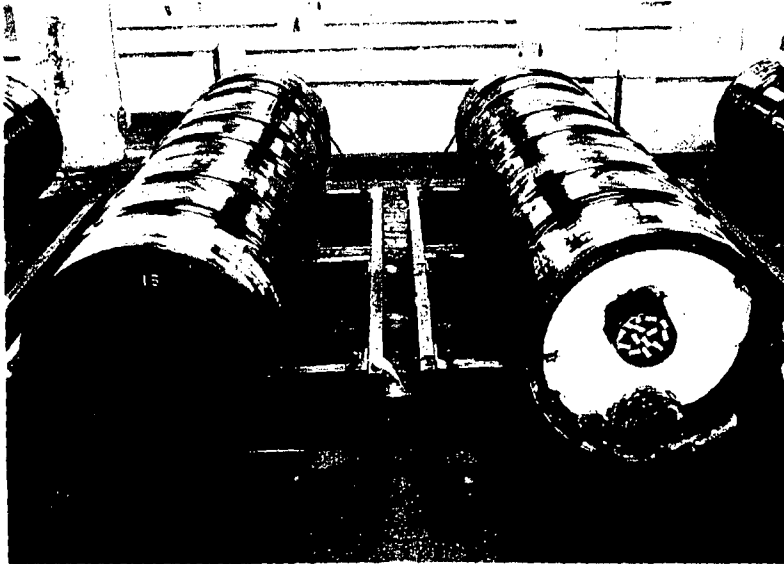


*2 Copies provided Compt. } 6/12/64  
1 Copy CEB, 1 copy PDR } K.H.*

**ACKNOWLEDGED**

*[Signature]* 24  
THE AEROSPACE  
DIVISION OF  
**MARTIN**  
**MARIETTA**

TUBULAR FUEL SHIPPING CONTAINER



Page 7 redacted for the following reason:

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