

71-9508

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71-9508

JUN 06 1983

U.S. Department of Energy  
ATTN: Mr. Reuben P. Prichard  
MS-E201  
Washington, DC 20545

Gentlemen:

This refers to your application dated August 5, 1980 requesting an NRC Certificate of Compliance authorizing polystyrene-plutonium compacts to be shipped in the Model 6M package.

In connection with our review, we need the information identified in the enclosure to this letter.

Your letter states this packaging modification is to be used exclusively for DOE shipments. In view of your letter of March 22, 1983, please inform us if you desire further NRC review of this application.

Sincerely,  
Original Signed by  
CHARLES E. MACDONALD

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

Enclosure: As stated

cc w/encl:  
Mr. Richard R. Rawl  
Department of Transportation

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PDR ADOCK 07109508  
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| OFFICE | ECTC           | FCTC        |  |  |  |  |
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| DATE   | 06/6/83        | 06/6/83     |  |  |  |  |

U.S. Department of Energy  
Docket No. 71-9508

Encl to ltr dtd: JUN 06 1983

1. Provide engineering drawings of the package which show the design features, dimensions, weights, and materials of construction.
2. Show that the steel used to construct the containment vessel has sufficient fracture toughness for cold temperature service. The information in NUREG/CR-1815 (enclosed) may be helpful to you in this regard.
3. The application should evaluate the maximum internal pressure to which the containment vessel may be subjected under both normal conditions of transport and hypothetical accident conditions and show that the vessel is adequately designed for these pressures.
4. Show that the containment vessel will meet the containment requirements specified in 10 CFR §71.35(a)(1) under normal conditions of transport.
5. Show that the containment vessel will meet the containment requirements specified in 10 CFR §71.36(a)(2) following the tests for hypothetical accident conditions.
6. Specify the method that will be used to assure the package is properly sealed before each shipment.
7. Specify the method that will be used at periodic intervals to assure the containment vessel closure is capable of developing an adequate seal.
8. Specify the torque that will be used to close the containment vessel before each shipment.
9. Show that the package design meets the requirements of 10 CFR §71.42.

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