

71-9205

FCTC:RHO  
71-9205

DEC 18 1985

Teledyne Energy Systems  
ATTN: Mr. John F. Vogt  
110 West Timonium Road  
Timonium, MD 21093

Gentlemen:

This refers to your application dated October 16, 1985, as amended, requesting approval of the Model No. Sentinel 5S package.

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

Please advise us within 30 days from the date of this letter when this information will be provided. The additional information requested by this letter should be submitted in the form of revised pages. If you have any questions regarding this matter, we would be pleased to meet with you and your staff.

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

Distribution: w/enc1  
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Docket File  
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IE HQ  
Region I  
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DATE	12/16/85	12/16/85	12/16/85	12/15/85			

Teledyne Energy Systems  
Model No. Sentinel 5S Package  
Docket No. 71-9205

Encl to ltr dtd: DEC 18 1985

DRAWINGS

Provide engineering drawings of the packaging, e.g., dimensions, materials of construction, closures, seals, welder and welding procedure qualification requirements, standard weld symbols, weld examination procedure and acceptance criteria, marking, bolt torque requirements, and special requirements.

STRUCTURAL

Revise the structural analysis for the package taking into account the following:

1. Fracture toughness for normal conditions of transport was not considered for the shipping cask.
2. The requirements of 10 CFR §71.45(a) for failure of lifting devices under excessive load was not addressed.
3. It was not shown that the lifting rings of the shipping cask, which could be used as tie-down devices, are designed to meet the requirements of 10 CFR §71.45(b).
4. The requirements of 10 CFR §71.45(b) for failure of tie-down devices under excessive load was not addressed.
5. The package was not shown to be capable of withstanding compression loads under normal conditions of transport.
6. Delete all references to the uranium alloy as a structural material, e.g., page 2-20; or take brittle fracture into consideration.

ACCEPTANCE TESTS AND MAINTENANCE PROGRAM

Provide a maintenance program for the packaging.

OFFICE ▶							
SURNAME ▶							
DATE ▶							