

U.S. NUCLEAR REGULATORY COMMISSION
CERTIFICATE OF COMPLIANCE
For Radioactive Materials Packages

1.(a) Certificate Number 9030	1.(b) Revision No. 2	1.(c) Package Identification No. USA/9030/B()	1.(d) Pages No. 1	1.(e) Total No. Pages 2
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2. PREAMBLE

- 2.(a) This certificate is issued to satisfy Sections 173.393a, 173.394, 173.395, and 173.396 of the Department of Transportation Hazardous Materials Regulations (49 CFR 170-189 and 14 CFR 103) and Sections 146-19-10a and 146-19-100 of the Department of Transportation Dangerous Cargoes Regulations (46 CFR 146-149), as amended.
- 2.(b) The packaging and contents described in item 5 below, meets the safety standards set forth in Subpart C of Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Materials for Transport and Transportation of Radioactive Material Under Certain Conditions."
- 2.(c) This certificate does not relieve the consignor from compliance with any requirement of the regulations of the U.S. Department of Transportation or other applicable regulatory agencies, including the government of any country through or into which the package will be transported.

3. This certificate is issued on the basis of a safety analysis report of the package design or application—

3.(a) Prepared by (Name and address): Teledyne Energy Systems 110 West Timonium Road Timonium, MD 21093	3.(b) Title and identification of report or application: Martin Company application dated June 16, 1966, as supplemented.	3.(c) Docket No. 71-9030
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4. CONDITIONS

This certificate is conditional upon the fulfilling of the requirements of Subpart D of 10 CFR 71, as applicable, and the conditions specified in item 5 below.

5. Description of Packaging and Authorized Contents, Model Number, Fissile Class, Other Conditions, and References:

(a) Packaging

(1) Model Nos.: MW-3000, Sentinel-3, and Sentinel-8

(2) Description

The packages are thermoelectric generators. The major components include: the main housing, tungsten shield, housing flange, and electrical connectors. The approximate dimensions and weights for the Model Nos. are as follows:

Model No.	Dimensions (inches)	Weight (lbs.)
MW-3000, Sentinel-3	24 OD x 23	2,700
Sentinel-8	24 OD x 25	3,200

(3) Drawings

The packagings are constructed in accordance with the following Drawing Nos.:

Model No.	Drawings
MW-3000, Sentinel 3	Martin Co. Drawing No. 471A1000000
Sentinel-8	Isotopes, Inc. Drawing No. J-30856-003-10000

5. (b) Contents

(1) Type and form of material

Strontium-90 titanate doubly encapsulated in Hastelloy fuel capsule which meet the requirements of special form as defined in 10 CFR §71.4(c).

(2) The maximum quantity of material per package

<u>Model No.</u>	<u>Quantity</u>
MW-3000, Sentinel-3	25,000 Curies
Sentinel-8	40,000 Curies

6. Eye-bolts shall be removed or covered during transportation to prevent their use as tie-down devices of packages.
7. The MW-3000, Sentinel-3, and Sentinel-8 shall have their top steel cover plate bolted to the outer wrought steel shield at all times except when maintenance operations are being performed on the generator which require removal of the top steel cover plate.
8. The packages authorized by this certificate are hereby approved for use under the general license provisions of 10 CFR §71.12(b).
9. Expiration date: July 31, 1985.

REFERENCES

Isotopes, Inc. applications dated: September 15 and 16, 1969; and March 3 and April 20, 1970.

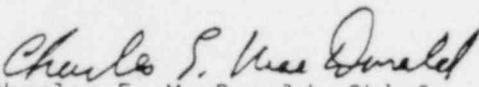
Additional References Required For The Model No. MW-3000 and Sentinel-3

Martin Company application dated June 16, 1966; with supplements dated: July 22 and August 16, 1966.

Additional References Required For The Model Sentinel-8

Isotopes, Inc. application dated November 5, 1968; with supplement dated: December 5, 1968.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION


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

Date: JUL 14 1980