

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NO: NR-8082-D-801-S

DATE: March 17, 1997

PAGE: 1 OF 3

DEVICE TYPE: Self-Luminous Marker Switch

MODEL: 1260Z-185

DISTRIBUTOR:

Dowty Electronics Company
Cheltenham
Gloucester, England

MANUFACTURER:

Saunders Roe Development
Millington Road
Hayes Middlesex
United Kingdom

SEALED SOURCE MODEL:

MH 1132/0/150, Model 1

ISOTOPE: Hydrogen-3 (Tritium Gas)

MAXIMUM ACTIVITY: 44 millicuries (1.6 kBq)

LEAK TEST FREQUENCY: Not Required

PRINCIPAL USE: (R) Gas Source

CUSTOM DEVICE: ☒ YES ☐ NO

CUSTOM USER:

Boeing Company
Vertol Division
P.O. Box 16858
Philadelphia, PA 19142

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DEVICE TYPE: Self-Luminous Marker Switch

DESCRIPTION:

The source, MH 1132/0/150, Model 1 manufactured by Saunders Roe Development, consists of radioactive tritium gas sealed in a clear borosilicate (hard) glass capsule. Dowty Electronics Co. installs these sources into special holders that Boeing Vertol imports and fits into the handle of toggle switches in the CH-47 aircraft (helicopter). These aircraft are then delivered to the Royal Air Force in the United Kingdom.

The two switches containing the devices are:

- Battery Emergency Switch
(Boeing Vertol Part Number 1260.2.N.1.14C)
- Console Lighting Switch
(Boeing Vertol Part Number 1260.1.N.14C)

DIAGRAMS:

See Attachment 1.

EXTERNAL RADIATION:

Radiation test data provided by Boeing Vertol shows no detectable radiation levels above background, measured 4 inches (10 cm) from the surface of the device.

QUALITY ASSURANCE AND CONTROL:

- The device meets the United Kingdom Defense Standard, DEFSTAN 62-4.
- The sealed source meets British Standards Institutions Specifications BS 5288:1976 and BS 6002:1979.

LIMITATION AND/OR OTHER CONSIDERATIONS OF USE:

- Boeing Company is no longer using the Model 1260Z-185.
- This registration sheet and the information contained within the references shall not be changed without the written consent of the NRC.

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NQ: NR-8082-D-801-S

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DEVICE TYPE: Self-Luminous Marker Switch

SAFETY ANALYSIS SUMMARY:

Based on our review of the information submitted, we conclude that the Model 1260Z-185 is no longer being used by Boeing Company. Therefore, this certificate is being transferred to inactive status.

REFERENCES:

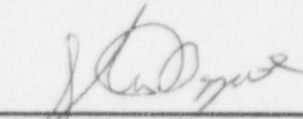
- NRC registry document No. 81-18 dated March 19, 1981.
Boeing Company License No. 37-08428-01
- Boeing Company letters dated November 7, 1980,
August 14, 1991, September 12, 1991, September 27,
1991, and November 12, 1991 with enclosures thereto.

ISSUING AGENCY:

U.S. Nuclear Regulatory Commission

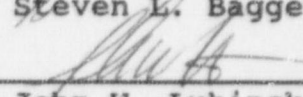
Date: March 17, 1997

Reviewer:


Steven L. Baggett

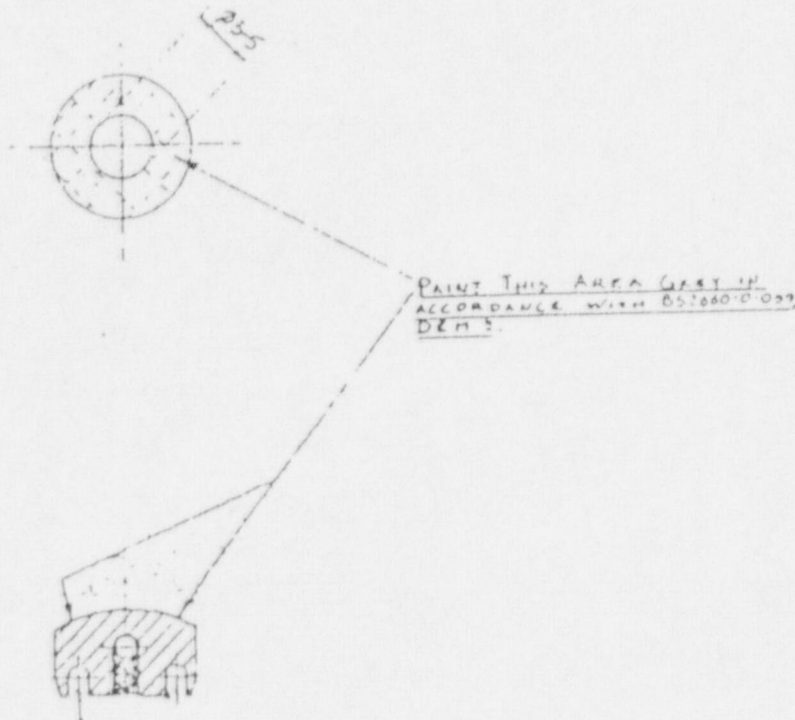
Date: March 17, 1997

Concurrence:


John W. Lubinski

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NQ: NR-8082-D-801-S DATE: March 17, 1997 ATTACHMENT 1



REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NO: NR-258-D-101-S

DATE: OCT 6 1982

PAGE 1 OF 1

DEVICE TYPE: Luminous Marker Switch

MODEL: 12602184

MANUFACTURER/DISTRIBUTOR:

Dowty Electronics Company
Cheltenham
Gloucester, England

MANUFACTURER/DISTRIBUTOR:

Saunders Roe Development
Millington Road
Hayes Middlesex
United Kingdom

SEALED SOURCE MODEL DESIGNATION:

MH 1132/0/150, Model 1

ISOTOPE: Hydrogen-3

MAXIMUM ACTIVITY: 44 millicuries

LEAK TEST FREQUENCY: Not Required

PRINCIPAL USE: (R) Gas Source

CUSTOM DEVICE: X YES NO

CUSTOM USER:

3-27-97

Boeing Company
Vertol Division
P.O. Box 16858
Philadelphia, PA 19142

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REFERENCES: NRC registry document No. 81-18, dated March 19, 1981.
Boeing Company License No. 37-08428-01

ISSUING AGENCY: U.S. Nuclear Regulatory Commission

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