

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF SEALED SOURCE

NO: NR-155-S-115-S

DATE: MAR 8 1983

PAGE 1 OF 1

SOURCE TYPE: Radioluminous Lamp

MODEL: 11739555

MANUFACTURER/DISTRIBUTOR:

Department of the Army
U.S. Army Armament Material
Readiness Command (DRSAR-SF) --
Rock Island, IL 61299

MANUFACTURER/DISTRIBUTOR:

ISOTOPE: Hydrogen-3

MAXIMUM ACTIVITY: 0.8 curies

LEAK TEST FREQUENCY: See License No. 12-00722-06

PRINCIPAL USE: (R) Gas Sources, for use in Model M64 sight unit

DIAGRAM: See Attachments 1 and 2

CUSTOM DEVICE: X YES NO

CUSTOM USER:

U.S. Department of Defense

REFERENCES: This registration document was formulated from information contained within U.S. Dept. of Army License No. 12-00722-06.

8403020150 840209
PDR FOIA
HAMMITT84-74 PDR

ISSUING AGENCY: U.S. Nuclear Regulatory Commission

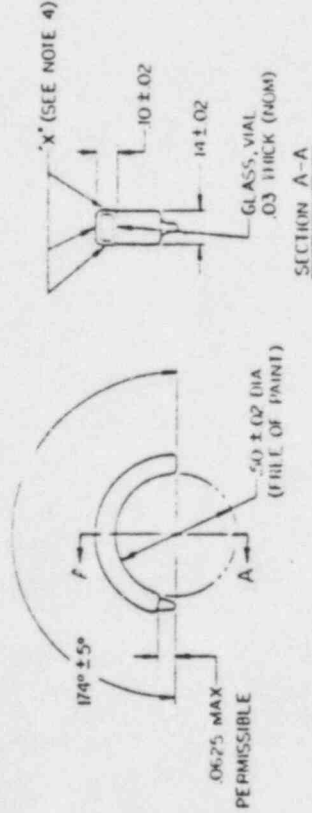
THE COMPANY OF MARY

- 1 - BARRIER, 3.000 IN. DIA. (MINIMUM) 1.570 IN. DIA. (MAXIMUM), AND CONTAINING
SUFFICIENT QUANTITY OF POLYMER TO FILL THE SPACE
- 2 - THREE (3) 1.000 IN. DIA. (MINIMUM) 1.570 IN. DIA. (MAXIMUM) OF POLYMER TUBES, EACH AS
SPECIFIED, TO BE USED TO FILL THE SPACE BETWEEN THE TUBES FOR A PERIOD OF 6 HOURS, AT EACH
TEMPERATURE
- 3 - AFTER SUBMERGING THE TAMP IN COLD TEMPERATURE WATER FOR
A HOURS, DETERMINE THE PERCENTAGE OF THE WATER SHALL NOT EXCEED
0.005 MG PER CUBIC CM
- 4 - VIAL FILLED WITH 99.5% (1.5% TOLUENE) THERMOCRYSTALLINE
(0.5% FOR CURE MAX)
- 5 - PRIOR TO MAKING BRIGHTNESS MEASUREMENTS, TAMP SHALL BE
ALLOWED TO STABILIZE FOR A PERIOD OF 25 DAYS FROM MANUFACTURE.
- 6 - TO MEASURE THE STABILIZATION PERIOD AND UP TO 120 DAYS, FROM DATE
OF MANUFACTURE, BRIGHTNESS MEASUREMENTS SHALL NOT SHOW A
DECREASE IN FORCE OF 2.5% WHEN MEASURED OVER ANY CONSECUTIVE
30 DAY PERIOD. FURTHER, THE FINAL BRIGHTNESS MEASUREMENT AT
TIME OF ACCEPTANCE SHALL BE 4.50 MICROLAMENTS MINIMUM.
- 7 - 1 - 0.012 IN. PRE-SUBMERGED 2.50 ATMOSPHERES NOMINAL AT 40°F.
8 - CHECK OF PRE-SUBMERGED GREEN, SPECTRAL PEAK 5250Å $\pm 50\text{Å}$, 1/2
IN. WIDTH $\pm 50\text{Å}$
- 9 - SURFACES MAINTAINED "X" PAINT, EPOXY, MIL-P-47115, TYPE I, COLOR
WHITE AND 100% OF FEED-510-505, FULL LENGTH OF VIAL, APPLY
TWO COATS, (MIN).

SOURCE USED ON:
M64 Sight Unit
(Telescope Reticle)

APPLICABLE DOCUMENTS
SOAP 1173:1996

SPECIFICATION (OPTIONAL DRAWING)
PART NO. 11230000

[illegible]

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ELBOW TELESCOPE
RETICLE
SOURCE#11739555

FINE AZIMUTH SCALE
SOURCE#11733744-2

SCALE INDICES (4)
SOURCE#11733738

FINE ELEVATION
SCALE
SOURCE#11733744
-1

COURSE ELEVATION
SCALE
SOURCE#11733737

LEVEL VIALS
SOURCE#11729510-1

COURSE AZIMUTH SCALE
SOURCE#11733736

Sight: 150