

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

NO: NR-155-S-105-S

DATE: MAR 8 1983

PAGE 1 OF 1

SOURCE TYPE: Radioluminous Lamp

MODEL: 11729514

MANUFACTURER/DISTRIBUTOR:

Department of the Army
U.S. Army Armament Material
Readiness Command (DRSAR-SF1) ...
Rock Island, IL 61299

MANUFACTURER/DISTRIBUTOR:

ISOTOPE: Hydrogen-3

MAXIMUM ACTIVITY: 0.6 curies

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

PRINCIPAL USE: (R) Gas Sources, for use in the Model M137 Panoramic Telescope

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.

8403020060 840209
PDR FOIA
HAMMITT84-74 PDR

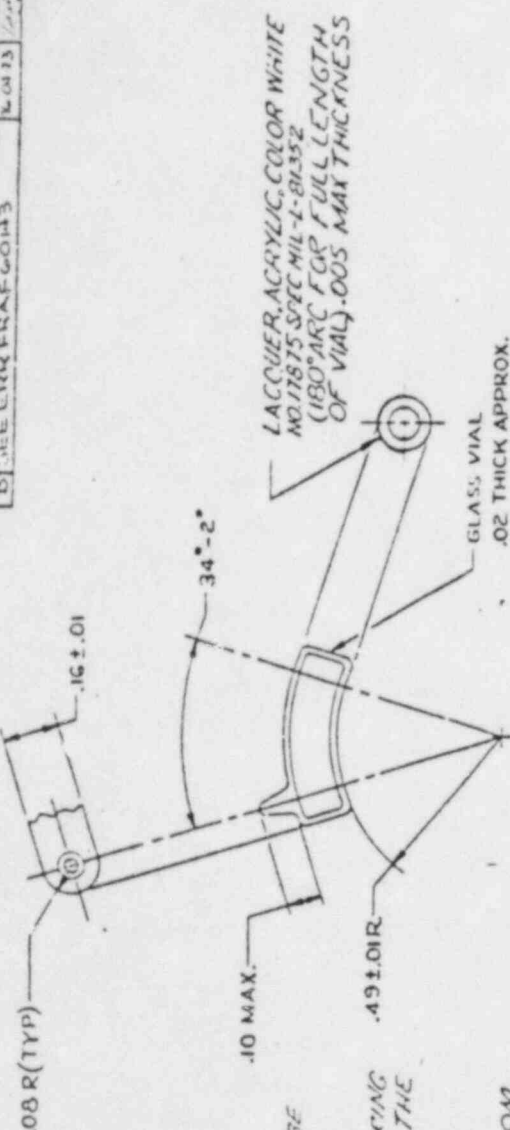
ISSUING AGENCY: U.S. Nuclear Regulatory Commission

REQUIREMENTS

1. MARKING, LABELING AND SHIPPING OF PACKAGES AND CONTAINERS SHALL BE IN ACCORDANCE WITH MIL STD. 1458
2. THERE SHALL BE NO EVIDENCE OF PHYSICAL FAILURE SUCH AS FRACTURING OR LIGHT LOSS DUE TO EXPOSING THE LAMP TO -80°F AND 460°F FOR A PERIOD OF 8 HOURS AT EACH TEMPERATURE.
3. AFTER SUBMERGING THE LAMP IN ROOM TEMPERATURE WATER FOR 4 HOURS, RADIOACTIVE CONTENT OF THE WATER SHALL NOT EXCEED .005 MICROCURIES

NOTE

VIAL FILLED WITH 99% PURE (LESS THAN 1% TRITIUM OXIDE) TRITIUM (H_3)
0.6 CURIES (MAX), BRIGHTNESS 500 MICROLAMBERTS
(MIN), INTERNAL PRESSURE 2.50 ATMOSPHERES
NONE AT 70°F
COLOR OF PHOSPHOR: GREEN
SPECTRAL PEAK $5250 \text{ Å} \pm 50 \text{ Å}$
1/2 PEAK WIDTH $700 \text{ Å} \pm 50 \text{ Å}$



SUGGESTED SOURCES OF SUPPLY	
VENDOR	VENDOR PART NO
SELF-POWERED LIGHTING LTD (CODE IDENT NO. 29218) 629 FIFTH AVE FELHAM, N.Y., 10803	NOT AVAILABLE
AMERICAN ATOMICS CORP (CODE IDENT NO. 27743) 425 S. PLUMER AVE TULSON, AT 85719	NOT AVAILABLE

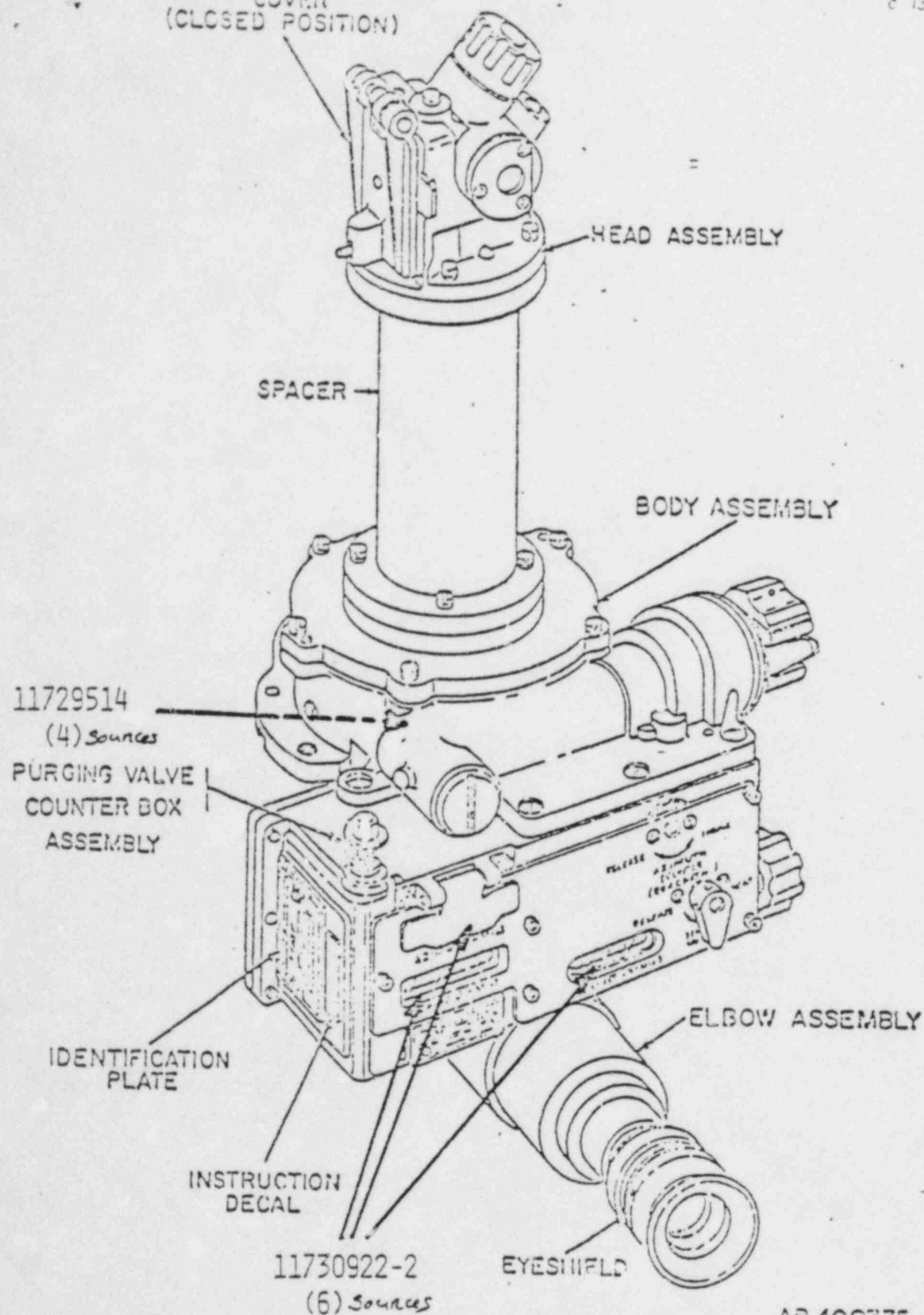
PART No. 1:729514

SOURCE USED ON: M137 Pan Tel

NAME OF RECORD OR PROPERTY	UNLESS OTHERWISE SPECIFIED INSTRUCTIONS ARE IN BRACKETS	ORIGINAL DATE	12 NOV. 07	U. S. AIRCRAFT FRANKFORD AIRFIELD PHILADELPHIA, PA. 19137
15	TOLERANCES IN FRACTIONS & DECIMALS & ANGLES & WELDING	1/8	1.3	LAMP, RADIOLUMINOUS
16	SEE ENGINEERING RECORDS	1/8	1.3	
17	REVISIONS	1/8	1.3	
18	USED IN	1/8	1.3	
19	APPLICATION	1/8	1.3	
20	NOT FOR USE	1/8	1.3	
21	APPROVED	1/8	1.3	
22	DATE	1/8	1.3	
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100	FOR	1/8	1.3	

ENTRANCE WINDOW NO: NR-155-S-105-S
COVER
(CLOSED POSITION)

DATE: MAR 8 1983



Telescope, Panovamic: M137 3/4 right rear view