

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

NO: NR-155-S-117-S

DATE: MAR 8 1983

PAGE 1 OF 1

SOURCE TYPE: Radioluminous Lamp

MODEL: 11748012

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: 2.2 curies

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

PRINCIPAL USE: (R) Gas Sources, for use in Model M138 Elbow 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.

8403020170 840209
PDR FOIA
HAMMITT84-74 PDR

ISSUING AGENCY: U.S. Nuclear Regulatory Commission

442-155-S-117-S

MAR 3 1983

● 2010 年 11 月 1 日

REQUIRED DOCUMENTS

1. MARKING, LABELING, AND SHIPPING OF PACKAGES AND CONTAINERS SHALL BE IN ACCORDANCE WITH DSAM 445 B "RADIOACTIVE COMMERITIES IN THE FOOD SUPPLY SYSTEM".
2. THERE SHALL BE NO EVIDENCE OF PHYSICAL FAILURE SUCH AS FRACTURING OR LEAKING DUE TO EXPOSING THE LAMP TO 80°F AND +160°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.
4. INITIAL BRIGHTNESS BRIGHTNESS 25 DAYS AFTER MANUFACTURE SHALL BE 500 MICROLAMBERTS (MIN). THIS BRIGHTNESS SHALL BE CONSIDERED INITIAL BRIGHTNESS.
5. DECAY RATE INITIAL BRIGHTNESS SHALL NOT DECAY MORE THAN SIX(6)% MEASURED 90 DAYS AFTER THE INITIAL BRIGHTNESS READING.
6. VIAL TO BE FILLED WITH 99% PURE (LESS THAN 1% TRITIUM OXIDE) TRITIUM (H3) 2.2 CUBES (MAX).
7. COLOR OF PHOSPHOR: GREEN SF CTRAL PEAK 5250Å±50Å 1/2 PEAK WIDTH 700Å±50Å.
8. VIAL MATERIAL: GLASS, TYPE I, CLASS A, SPEC D-1-G-541.
9. IDENTIFICATION OF THE "SUGGESTED SOURCE OF SUPPLY" HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM.
10. SUGGESTED SOURCES OF SUPPLY:-

SELF POWERED LIGHTING LTD
8 WEST CHESTER PLAZA PART NO. NOT AVAILABLE
ELMFORD, NEW YORK, 10523

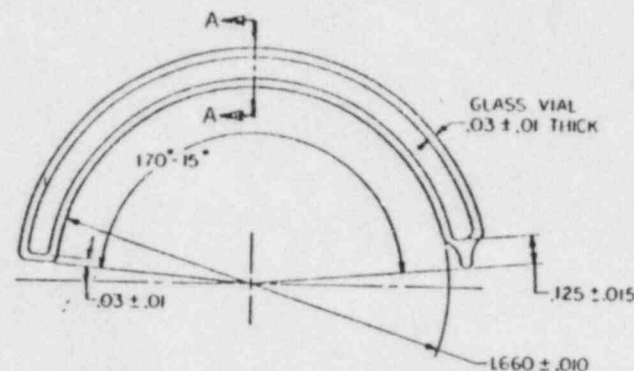
SANDERS-ROE DEVELOPMENTS LTD.
(WESTLAND GROUP)
WORTH HYLE ROAD
HAYES, MIDDLESEX UB3 4NR
UNITED KINGDOM

U.S. RADAR CORP
 0006 IDENT. NO. 02006)
 4150 OLD BERWICK ROAD
 ELLICOTTSBURG, PA 17825

PART NO NOT AVAILABLE

AMERICAN ATOMICS CORP.
(CODE IDENT 27743)
425 S. PULMER AVE.
TUCSON, AZ., 85719

PART NO. NOT AVAILABLE



LACQUER, ACRYLIC, SPEC MIL-L-81352 COLOR
WHITE NO 17875 OF FED-STD-595
(180° ± 10° FOR FULL LENGTH OF VIAL)
.005 MAX. THICKNESS



SECTION A-A

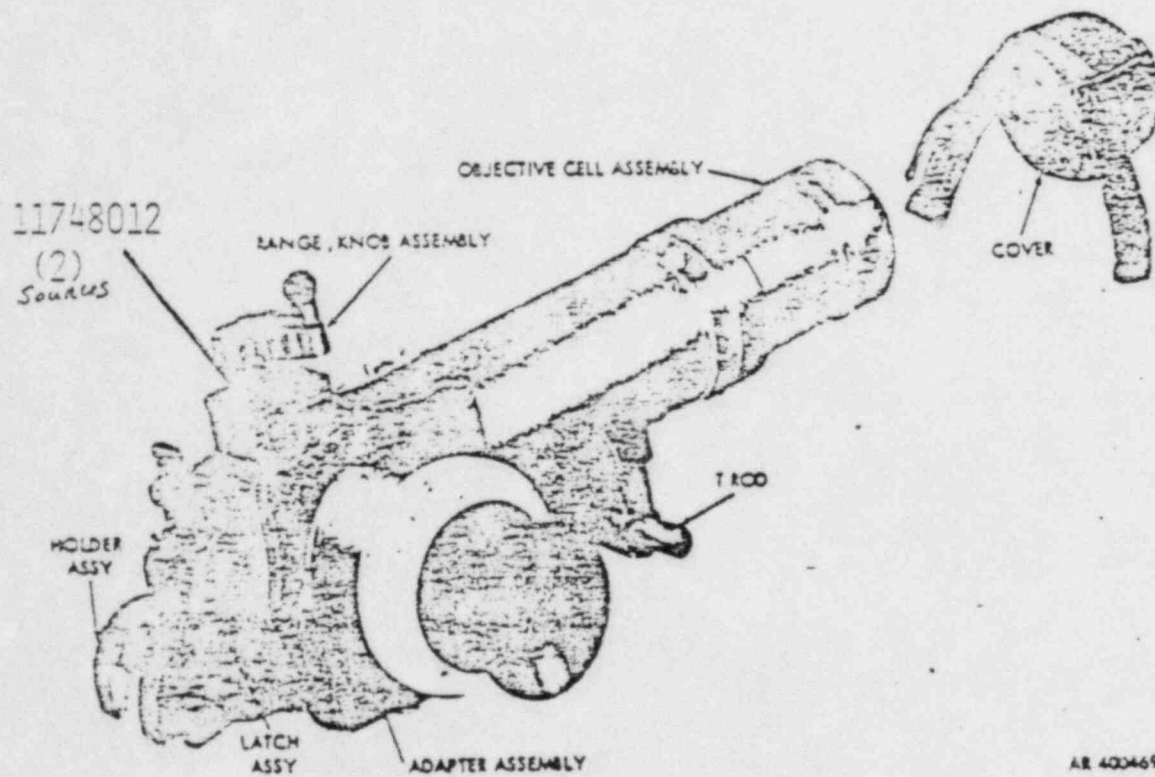
SOURCE USED ON:
M138 Elbow Tel

SPECIFICATION CONTROL DRAWING
PART NO 1174P012

LAMP
RADIOLUMINOUS

DATE	TIME CONT NO.	
D	19200	11748012

		CLASSIFICATION		PART NO 11748012	
		EXCLUDED BY DECLASSIFIED		A BATTERY OPERATED; FLASHLIGHT AND SEARCHLIGHT COMPONENTS; DESIGN: 40M JERSEY STREET	
		REF ID: A67960		LAMP	
		RADIO LUMINOUS			
		DATE D 19200		11748012	
		NAME / UNIT NO		WASIT	



Telescope, Elbow: M138