

Group A

FOIA/PA NO: 2014-0175

RECORDS BEING RELEASED IN THEIR ENTIRETY

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE
(AMENDED IN ITS ENTIRETY)

NO.: NR-1119-D-101-E

DATE: March 11, 2014

PAGE 1 OF 6

DEVICE TYPE: Gun and Archery Sights

MODEL SERIES: ML-100 ML-200A ML-300A ML-400
ML-1150 ML-260 ML-300N ML-750
ML-115P

DISTRIBUTOR: MEPROLIGHT, INC. (Corporate Office)
C/O Klein & Hill
521 Fifth Avenue
New York, NY 10175

MEPROLIGHT, Inc. MEPROLIGHT, Inc.
170-20 Central Ave. 125 Galway Place, Unit B
Farmingdale, NY 11735 Teaneck, NJ 07666

MANUFACTURER: MEPROLIGHT, Ltd
(formerly Scopus Light (1990) Ltd)
Kibbutz Maayan Zvi
Hof HaCarmel 30805
Israel

SEALED SOURCE MODEL DESIGNATION: SRB Technologies, Inc. Model: MH
Mb-Microtec Model: 400/1, 400/3

ISOTOPE: Hydrogen-3
MAXIMUM ACTIVITY: 230 millicuries (8.51 GBq) per source
230 millicuries (8.51 GBq) per sight model
(see Description for maximum activities for
each sight model series)

LEAK TEST FREQUENCY: Not required

PRINCIPAL USE: (W) Self-Luminous Light Sources

CUSTOM DEVICE: _____ YES _____ X _____ NO

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DEVICE TYPE: Gun and Archery Sights

DESCRIPTION:

The sights are primarily used by military, law enforcement personnel and sportsmen to improve low-light shooting capability. Since the sights are attached to the weapons, therefore are normally found in close proximity to the shooter on a limited basis (with exception of law enforcement personnel who may carry them for prolonged periods).

All by-product material used is tritium (H-3) in gaseous form, sealed into borosilicate glass tubes. The sources used are Mb-Microtec Model 400/1 or 400/3, or SRB Technology, Inc. Model MH. Sight sets, identified by model numbers, consist of one or two sights per gun and one to three sights per bow. The maximum number of sources per sight set is 8 with total activity not exceeding 230 mCi (8.51 GBq) (H-3 gas) per sight set with no source being more than 230 mCi (8.51 GBq).

<u>MODEL SERIES</u>	<u>TYPE</u>	<u>MAXIMUM ACTIVITY</u>
ML-100	front or archery	20 millicuries (740 MBq)
ML-1150	front	20 millicuries (740 MBq)
	rear	24 millicuries (888 MBq)
	total	44 millicuries (1.63 GBq)
ML-115P	front	20 millicuries (740 MBq)
ML-200A	front	6 millicuries (222 MBq)
	rear	24 millicuries (888 MBq)
	total	30 millicuries (1.11 GBq)
ML-260	front	12 millicuries (444 MBq)
	rear	12 millicuries (444 MBq)
	total	24 millicuries (888 MBq)
ML-300A	front	12 millicuries (444 MBq)
	rear	16 millicuries (592 MBq)
	total	28 millicuries (1.04 GBq)
ML-300N	front	12 millicuries (444 MBq)
	rear	16 millicuries (592 MBq)
	total	28 millicuries (1.04 GBq)
ML-400	front	18 millicuries (666 MBq)
ML-750	front	230 millicuries (8.51 GBq)
	rear or archery	230 millicuries (8.51 GBq)
	total	230 millicuries (8.51 GBq)

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DEVICE TYPE: Gun and Archery Sights

DESCRIPTION (Cont.):

For each gun or archery sight set (referred to as a model from hereon) covered by this certificate, MEPROLIGHT, Inc. has submitted a cross-reference list relating each model number under which the sight set will be distributed to the NRC registration model series number. In addition, for each model currently being distributed, MEPROLIGHT submitted a description of the model including the weapon for which the model is designed, the mounting configuration (i.e., mounting to weapon by dovetail, a screw, a pin, or by swaging), the light source's mounting configuration (i.e., source is mounted so that the end or side of the sight is viewed through the sight), the maximum allowable activity of tritium, and the applicable drawing(s).

MEPROLIGHT may distribute additional sight models provided the model meets the design specifications approved by NRC for the registered model series and is consistent with the drawings attached to this certificate.

Each cross reference model has a minimum wall thickness around the light source of 0.012" (0.3 mm). Most are designed with a minimum wall thickness of 0.020" (0.5 mm). The basic material for all sights is metal. Most tritium sources are held in using the "MV gluing/sealing system" as described in the application.

The expected useful life of the sights is 6 years. This is the length of time which the brightness decreases to one-half of its initial value (Reference: British Defense Standard 62-4 Issue 3). Some model sights may be usable for 12 years as specified in the user manual.

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LABELING:

Each sight is permanently marked, by stamping or with epoxy paint, with the MEPROLIGHT logo () or an AM@ and the symbol for tritium (H3). Stamping is the common method for most sights. The epoxy paint will only be used on those sights where stamping is not possible due to the metal hardness or the likelihood of damaging the sight by stamping. Some archery flag models are cast with the AM@ and H3 as an integral part of the mold.

DIAGRAMS:

See Attachments 1 through 24. The drawings are mostly identified by an alpha-numeric code with the alpha prefix indicating the sight type and how the tritium light source is installed, and the numerical suffix indicating how the sight mounts to the weapon.

"FS" represents a front sight, typically one light source.

"RS" represents a rear sight, typically two lights sources.

"FRS" represents a front rifle sight.

"FA" represents a front archery pin sight.

"FF" represents a fiber flag archery sight.

"A" represents light sources which are installed such that the end of the light source is seen through the sight "window" when aiming the sight. In fiber optic sights, a virtual image is seen since the light is not visible and the fiber transfers the light to the plane of vision.

"B" represents light sources which are installed such that the side of the light source is seen through the sight "window" when aiming the sight.

"1", "2", "3", and "4" represent sights which mount to the weapon via a dovetail, a screw, a pin, or the swaging of a tenon respectively.

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DEVICE TYPE: Gun and Archery Sights

DIAGRAMS (Cont.):

As an example of the code, "FSA1" indicates a front sight whose light source is installed so that its end is viewed through the sight "window" when the weapon is being aimed, and which mounts by means of a dovetail.

REFERENCES:

The following supporting documents for MEPROLIGHT's gun and bow sights are hereby incorporated by reference and are made a part of this registry document.

- MEPROLIGHT, Inc.'s (as Scopus Light USA, Inc.) device registration and exempt materials license applications dated June 27, 2000, with enclosures thereto.
- MEPROLIGHT, Inc.'s letter dated December 4, 2000, April 10, 2001, March 10, 2003, and June 24, 2004, with enclosures thereto.
- MEPROLIGHT, Inc.'s facsimiles dated December 5, 2000, December 27, 2000, August 20, 2001, December 30, 2001, February 21, 2002 (2 documents), August 16, 2002, August 18, 2005, and August 31, 2005, with enclosures thereto.
- MEPROLIGHT, Inc.'s letters dated November 13, 2006, June 21, 2007, September 21, 2007, and e-mails dated November 07, 2007 and November 13, 2007 with enclosures thereto.
- MEPROLIGHT, Inc.'s email dated December 07, 2007 with enclosures thereto.
- MEPROLIGHT, Inc.'s letter dated March 24, 2009 with enclosures thereto.

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DEVICE TYPE: Gun and Archery Sights

REFERENCES (Cont.):

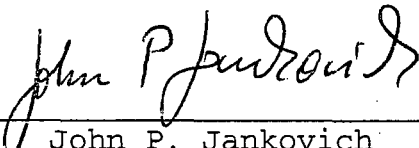
- MEPROLIGHT, Inc.'s letter dated October 6, 2009 with enclosures thereto.
- MEPROLIGHT, Inc.'s electronic emails dated February 26, 2010 and March 11, 2010 with enclosures thereto.
- MEPROLIGHT, Inc.'s letter and emails dated March 11, 2010, March 29, 2010, April 6, 2010, and April 12, 2010 with enclosures thereto.
- MEPROLIGHT, Inc.'s electronic email dated May 6, 2010, with enclosures thereto.
- MEPROLIGHT, Inc.'s letter dated January 7, 2014, with enclosures thereto.

ISSUING AGENCY:

U.S. Nuclear Regulatory Commission

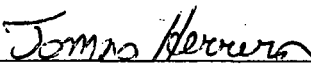
Date: March 11, 2014

Reviewer: _____


John P. Jankovich

Date: March 11, 2014

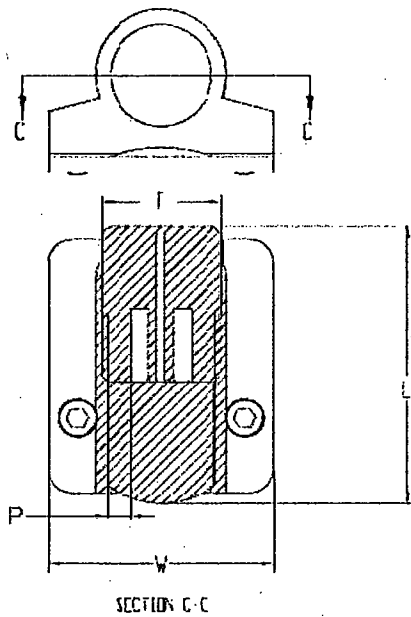
Reviewer: _____


Tomas Herrera

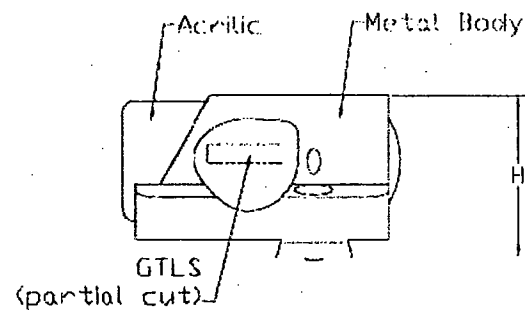
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NO.: NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 1 OF 24

	TYPE C1		ML-631XX
	MIN	MAX	NOMINAL
L	10	70	23.2
W	6	35	18.8
H	5	35	13.7
T	6	30	9
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MM

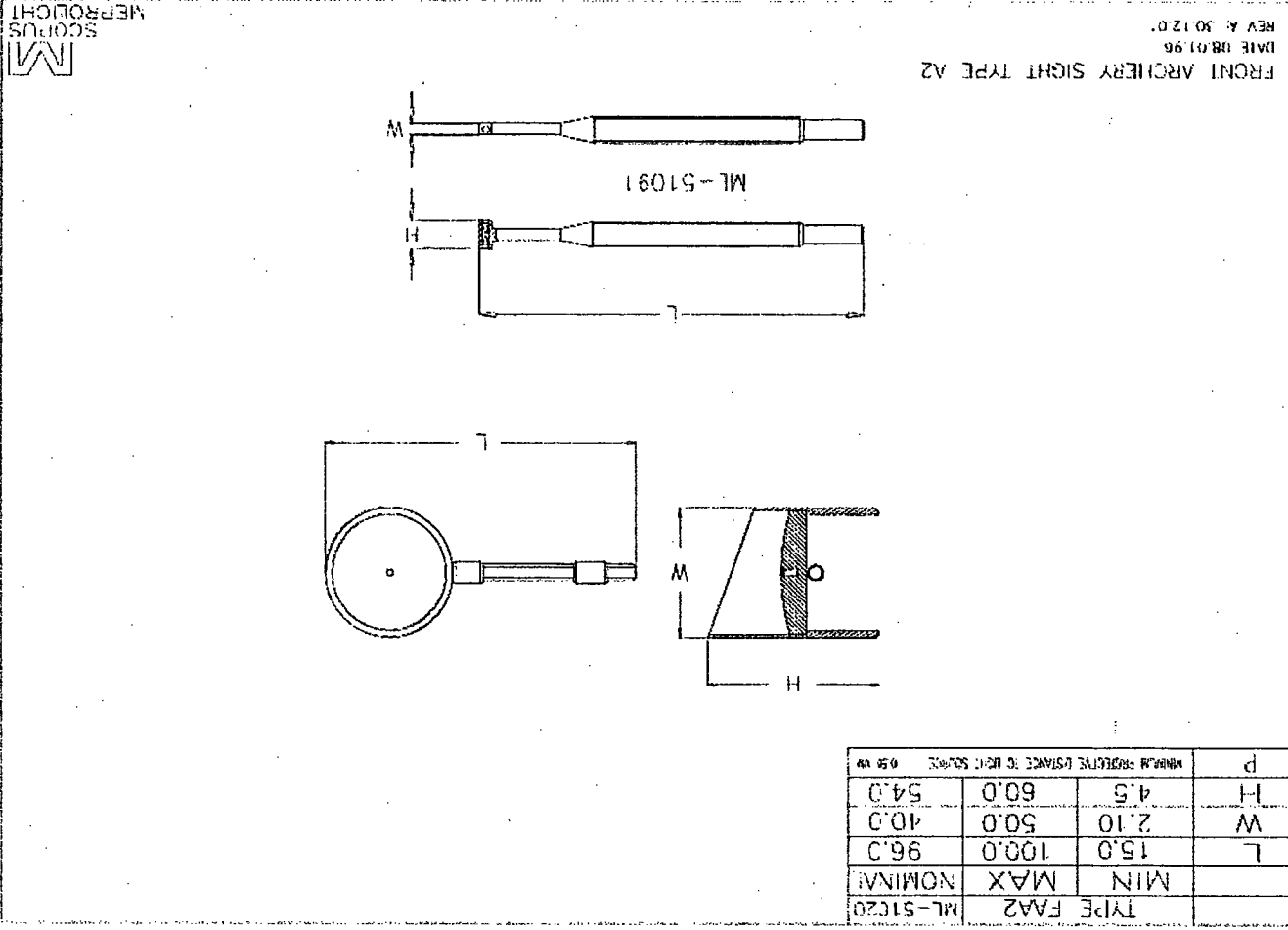


SIGHT TYPE C1
 DATE 11.7.06



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NO.: NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 2 OF 24

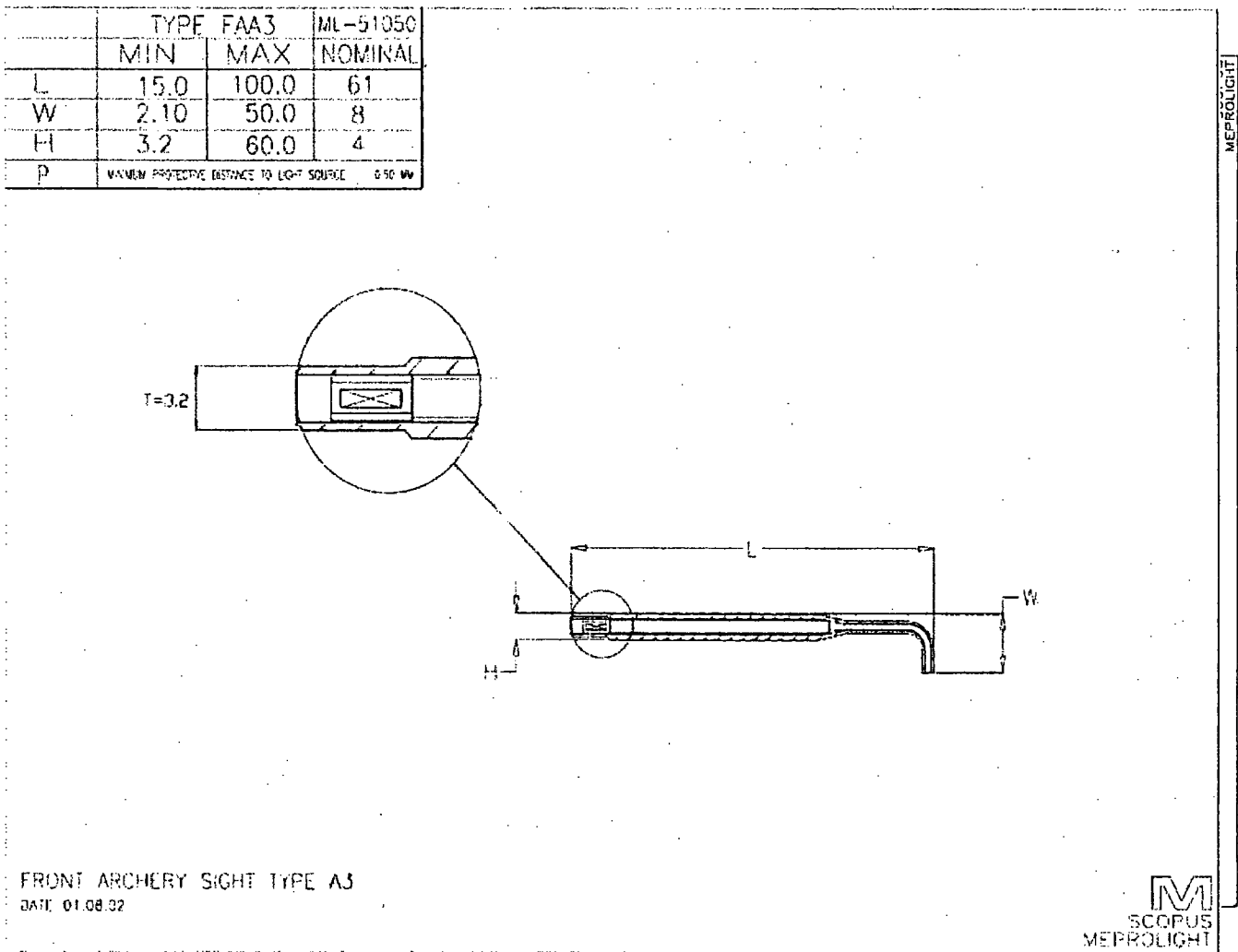


TYPE FAA2		ML-51C20	
MIN	MAX	NOMINAL	
L	15.0	100.0	96.0
W	2.10	50.0	40.0
H	4.5	60.0	54.0
P	MINIMUM PROJECTIVE DISTANCE TO BULL'S EYE		

DATE 08/01/96
 REV A 3012/01

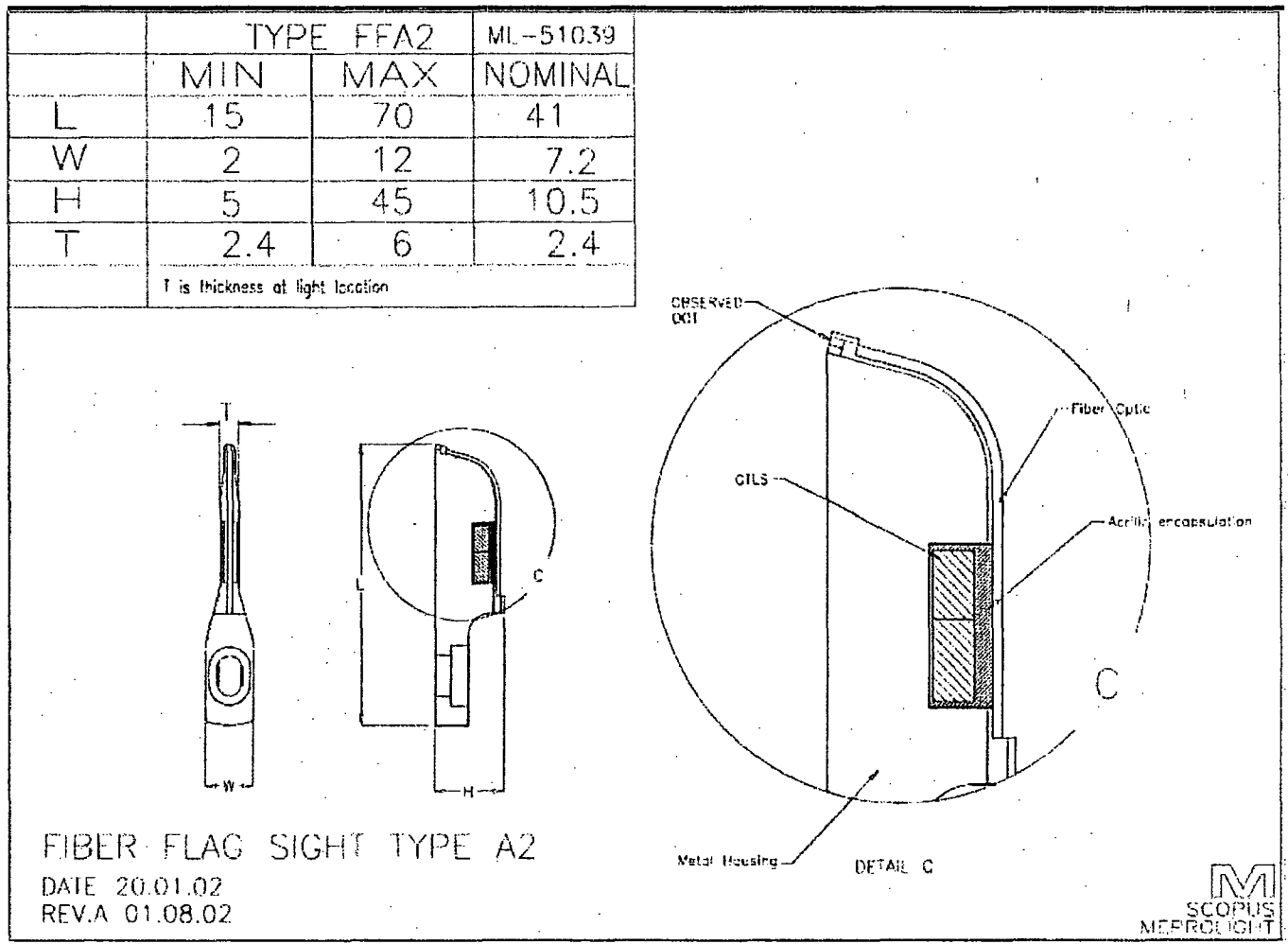
REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
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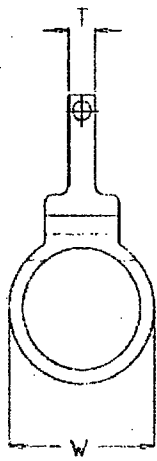
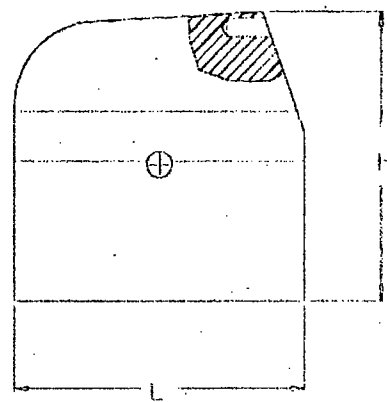
NO. : NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 4 OF 24




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NO. : NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 5 OF 24

TYPE FRSA3		ML-30922	
	MIN	MAX	NOMINAL
L	15.0	50.0	35
W	10.0	30.0	17.5
H	15.0	40.0	33.5
T	2.5	6	3.2
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MV.

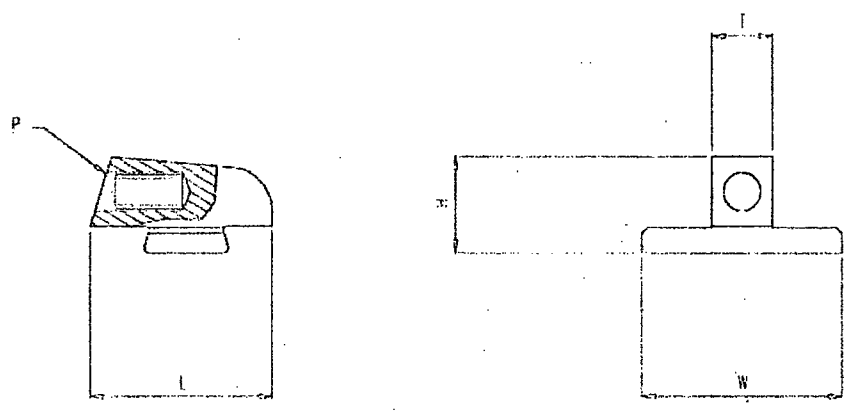
FRONT RIFLE SIGHT TYPE A3
 DATE 20.01.02



REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
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	TYPE FSA1		ML-710
	MIN	MAX	NOMINAL
L	6.5	20.0	10.9
W	3.0	20.0	12.0
H	4.2	13.0	5.6
T	2.8	4.5	3.6
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MM.



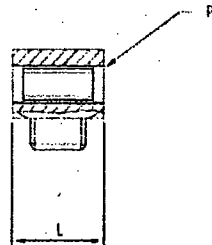
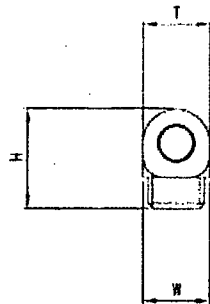
FRONT SIGHT TYPE A1
 DATE 13.09.92
 Rev A: 20.01.02



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	TYPE FSAC		ML-405
	MIN	MAX	NOMINAL
L	5.0	17.0	5.5
W	2.5	7.7	3.4
H	5.0	25	5.8
T	3.0	4.5	4.0
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MM



FRONT SIGHT TYPE A2

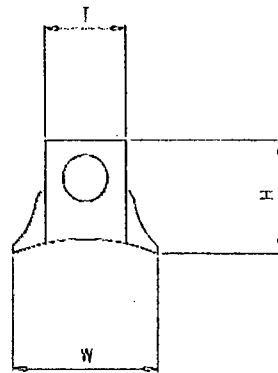
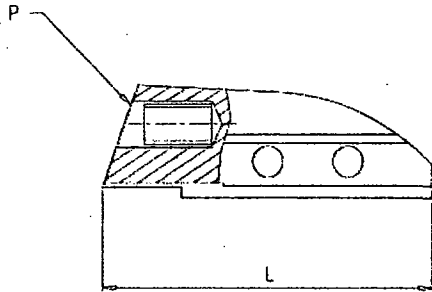
DATE 13.09.92
 Rev B: 14.06.06



REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
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NO. : NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 8 OF 24

	TYPE FSA3		ML-762
	MIN	MAX	NOMINAL
L	10.0	20.0	16.4
W	3.0	12.0	7.2
H	5.0	16.2	5.4
T	2.8	4.5	4.0
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MM.



FRONT SIGHT TYPE A3

DATE 13.09.92

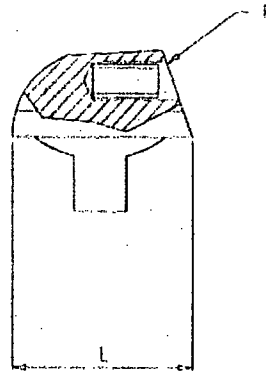
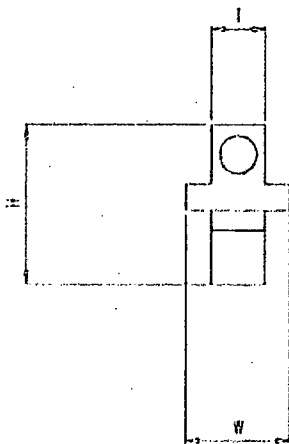
Rev A: 20.01.02

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REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
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NO.: NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 9 OF 24

	TYPE FSA4		ML-776
	MIN	MAX	NOMINAL
L	9.0	17.0	10.5
W	4.0	7.0	6.2
H	5.5	12.0	8.9
T	3.0	4.5	3.2
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MM



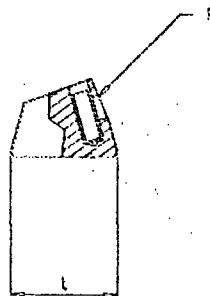
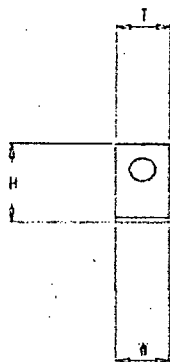
FRONT SIGHT TYPE A4
 DATE 13.09.92
 Rev A: 20.01.02



REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
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	TYPE FSB1		ML-200A
	MIN	MAX	NOMINAL
L	6.5	7.0	6.6
W	3.0	4.5	3.2
H	4.2	5.0	4.4
T	2.8	3.5	3.2
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MV.



FRONT SIGHT TYPE B1

DATE 13.09.92
 Rev A: 20.01.02



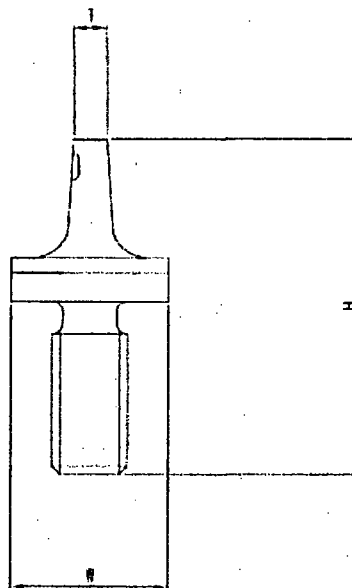
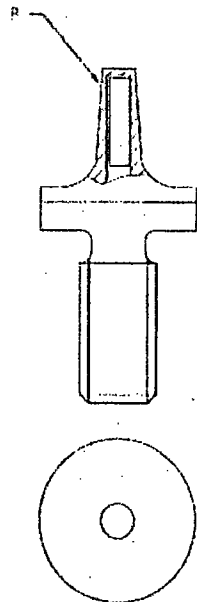
REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
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	TYPE FSB2		ML-1160
	MIN	MAX	NOMINAL
L	5.0	5.5	—
W	2.5	15.0	∅9.4
H	6.0	62.0	19.5
T	2.0	4.5	∅2.0
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 VM

SIGHT MODELS WITH T* of 0.30mm MINIMUM

MODEL	DESCRIPTION
ML-1150	AR15/M16 with open rear sight (4-slot front)
ML-115P	AR15/M16 with peep rear sight (4-slot front)
ML-1160	AR15/M16 with open rear sight (5-slot front)
ML-116P	AR15/M16 with peep rear sight (5-slot front)
ML-300A	Mini-Uzi & Cabine with adjustable rear
ML-300N	Uzi Carbine with non-adjustable rear
ML-310	Kalashnikov AK-47 rifle
ML-311	Sironov SKS rifle



FRONT SIGHT TYPE B2

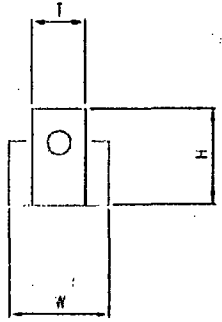
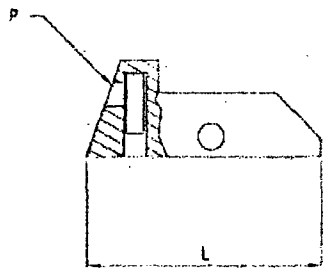
DATE 13.09.92
Rev B: 20.01.02

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	TYPE FSB3		ML-250
	MIN	MAX	NOMINAL
L	12.0	20.0	14.0
W	5.0	7.0	6.0
H	5.0	7.0	5.6
T	3.0	3.5	3.2
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MV



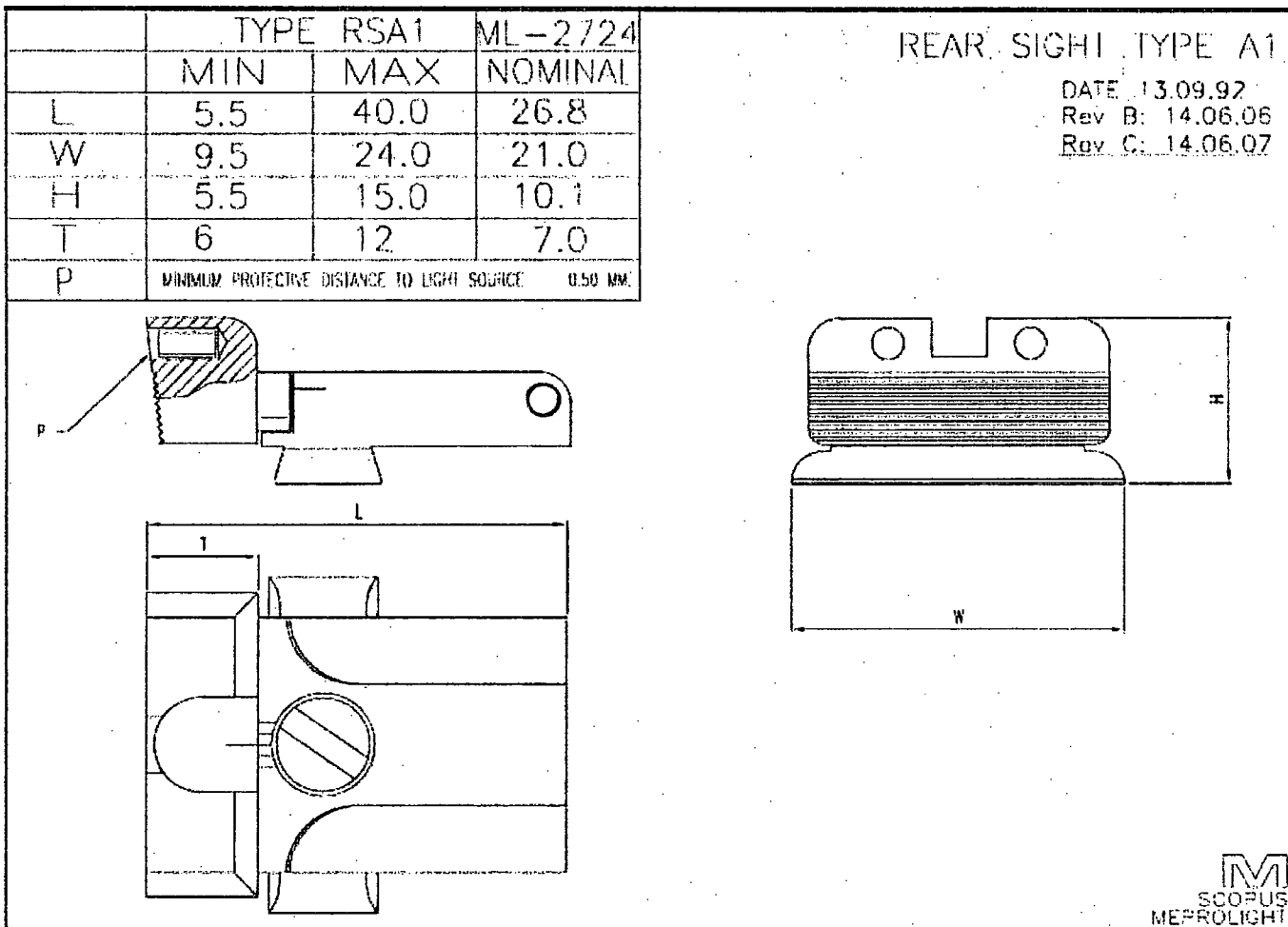
FRONT SIGHT TYPE B3

DATE 13.09.92
 Rev A: 20.01.02



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NO. : NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 14 OF 24

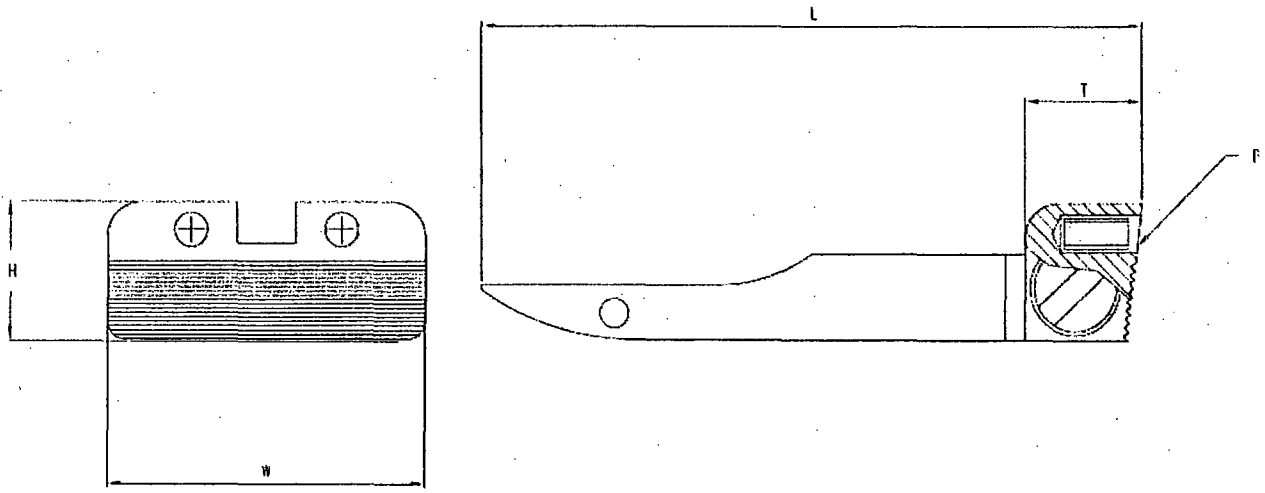
	TYPE RSA2		MI. - 2700
	MIN	MAX	NOMINAL
L	4	20	5.3
W	10.0	19.0	15.5
H	6.0	10.0	9.2
T	4.0	7.0	5.8
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MM.

REAR SIGHT TYPE A2
 DATE 13.09.92
 Rev A: 20.01.02

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	TYPE RSA3		ML-2772
	MIN	MAX	NOMINAL
L	8.0	65.0	39.5
W	10.0	21.0	19.0
H	5.0	15.2	7.9
T	4.5	10.0	7.0
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MM.



REAR SIGHT TYPE A3

Date: 13.09.92
 Rev B: 14.06.06



REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
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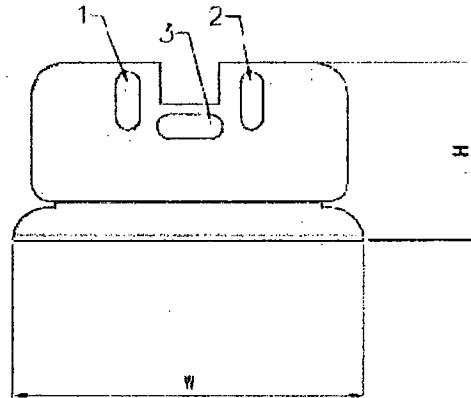
NO. : NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 16 OF 24

REAR SIGHT TYPE A4

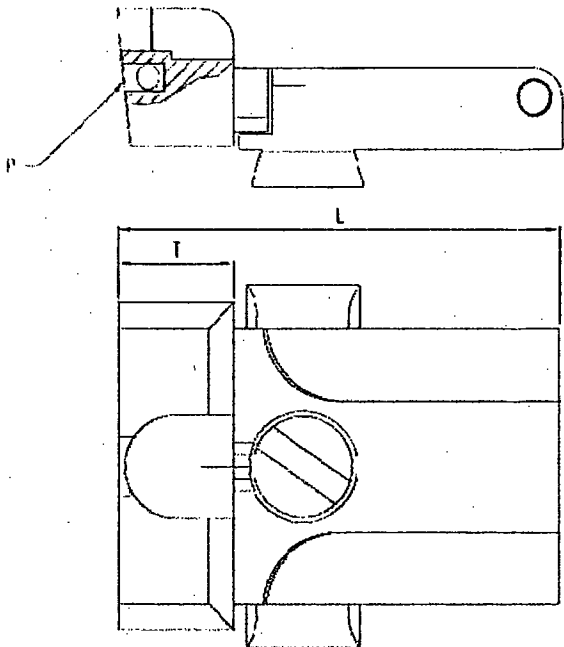
DATE: 14.06.06

Light Options:

1. 1+2-3
2. 1+2
3. 3



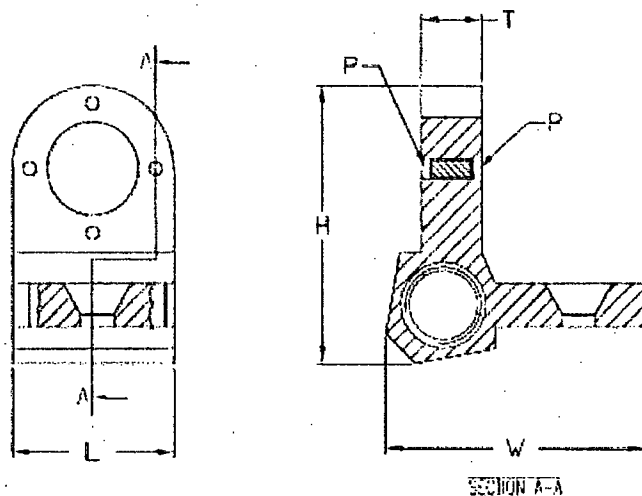
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	MIN	MAX	NOMINAL
L	5.5	40.0	25.8
W	9.5	24.0	21.0
H	5.5	15.0	10.1
T	4.5	10.0	7.0
P	MINIMAL PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MM.



REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
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NO.: NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 17 OF 24

REAR SIGHT TYPE A5
 DATE 14.06.06
 Rev. A 14.06.07



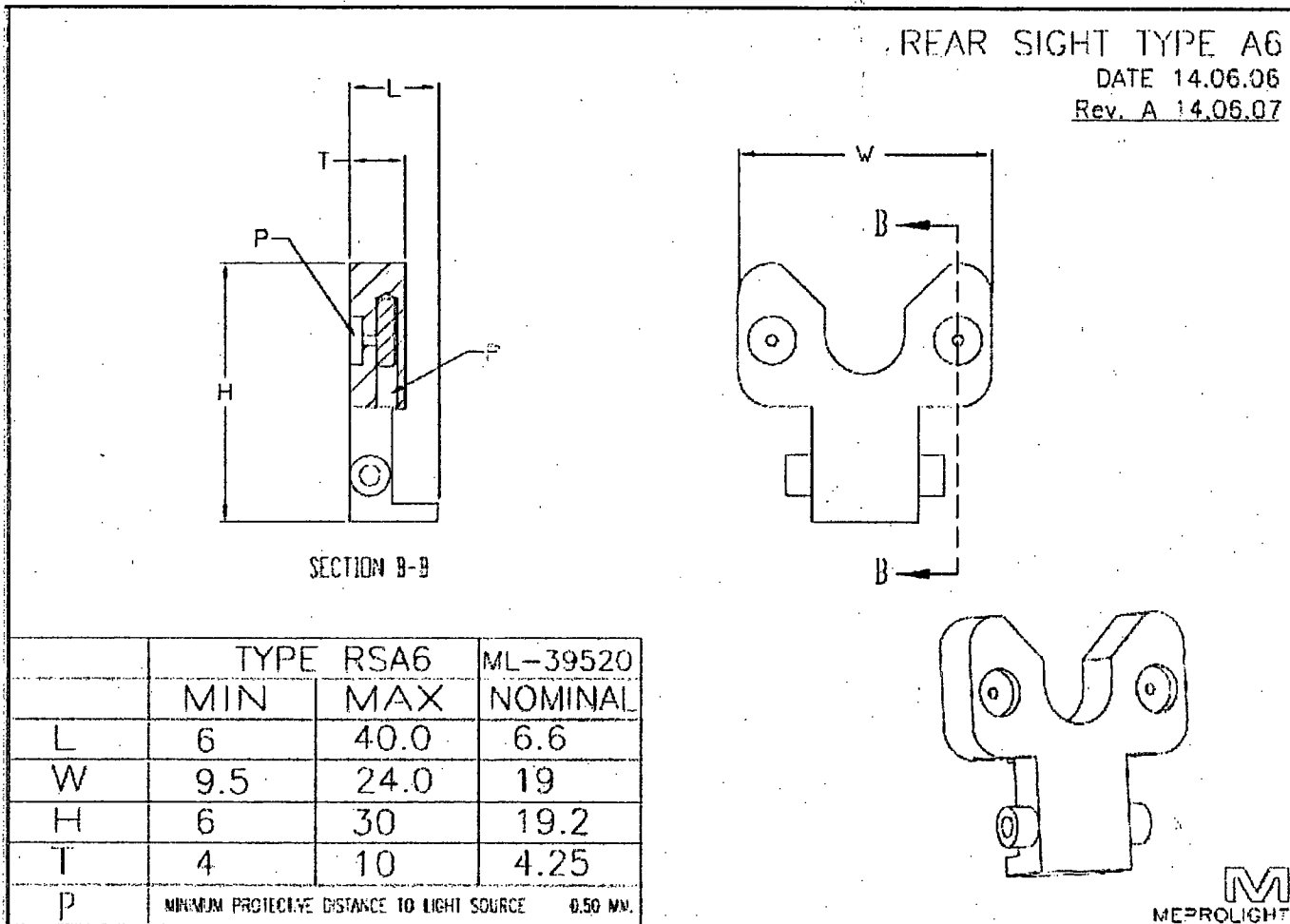
- Light Options:
 1. Two (2) lights on each side
 2. Four (4) lights - Top, Bottom & sides

	TYPE RSA5		ML-31619
	MIN	MAX	NOMINAL
L	5.5	40.0	9.7
W	9.5	24.0	15.8
H	5.5	20.0	15.8
T	3.0	5.5	3.6
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MM



REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
 SAFETY EVALUATION OF DEVICE
 (AMENDED IN ITS ENTIRETY)

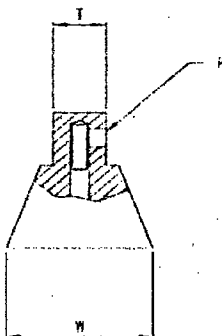
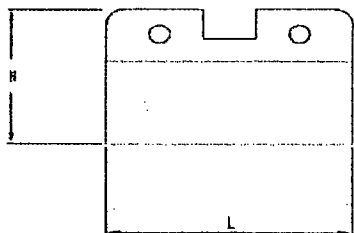
NO. : NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 18 OF 24



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 SAFETY EVALUATION OF DEVICE
 (AMENDED IN ITS ENTIRETY)

NO.: NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 19 OF 24

	TYPE RSB1		ML-260
	MIN	MAX	NOMINAL
L	12.0	20.0	14.0
W	7.0	12.5	8.4
H	8.0	13.0	9.0
T	2.3	4.0	3.0
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MM



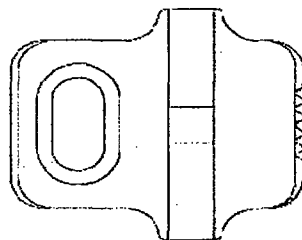
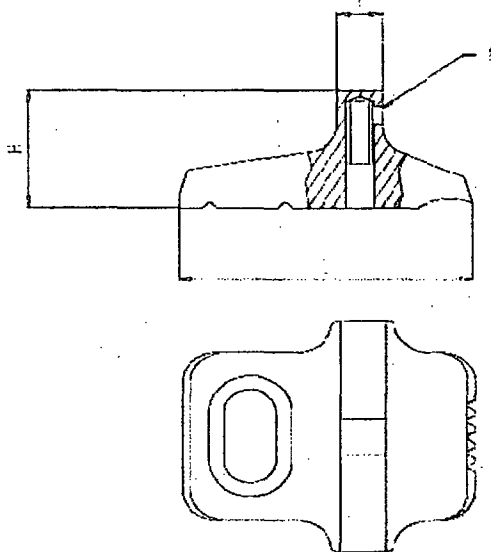
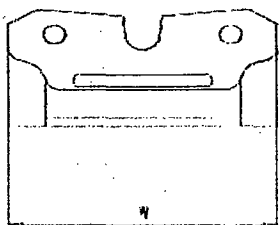
REAR SIGHT TYPE B1
 DATE 13.09.92
 Rev A: 20.01.02



REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
 SAFETY EVALUATION OF DEVICE
 (AMENDED IN ITS ENTIRETY)

NO. : NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 20 OF 24

	TYPE RSB2		ML-460
	MIN	MAX	NOMINAL
L	3.5	18.0	16.7
W	8.0	22.1	15.2
H	4.7	16.5	7.1
T	2.2	4.5	2.6
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MM.



REAR SIGHT TYPE B2

DATE 13.09.92
 Rev B: 01.08.02

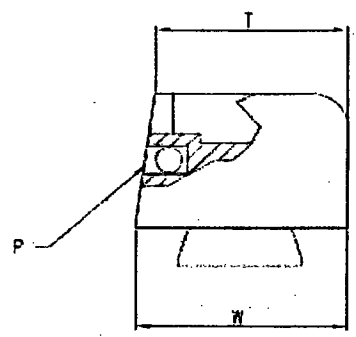
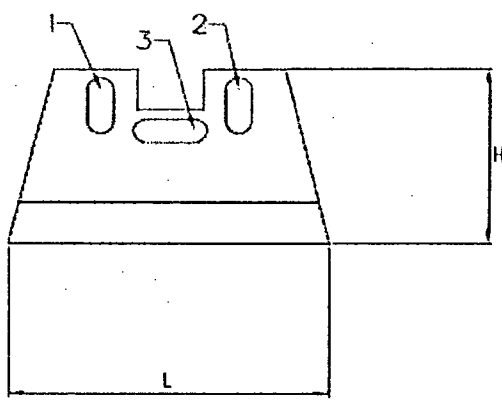


REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
 SAFETY EVALUATION OF DEVICE
 (AMENDED IN ITS ENTIRETY)

NO. : NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 21 OF 24

	TYPE RSB3		ML--10777
	MIN	MAX	NOMINAL
L	12.0	24.0	16.0
W	7.0	34.0	15.3
H	6.0	15.0	8.2
T	7	34	14
P	MINIMUM PROTECTIVE DISTANCE TO LIGHT SOURCE		0.50 MM

- Light Options:
 1. 1+2+3
 2. 1+2
 3. 3

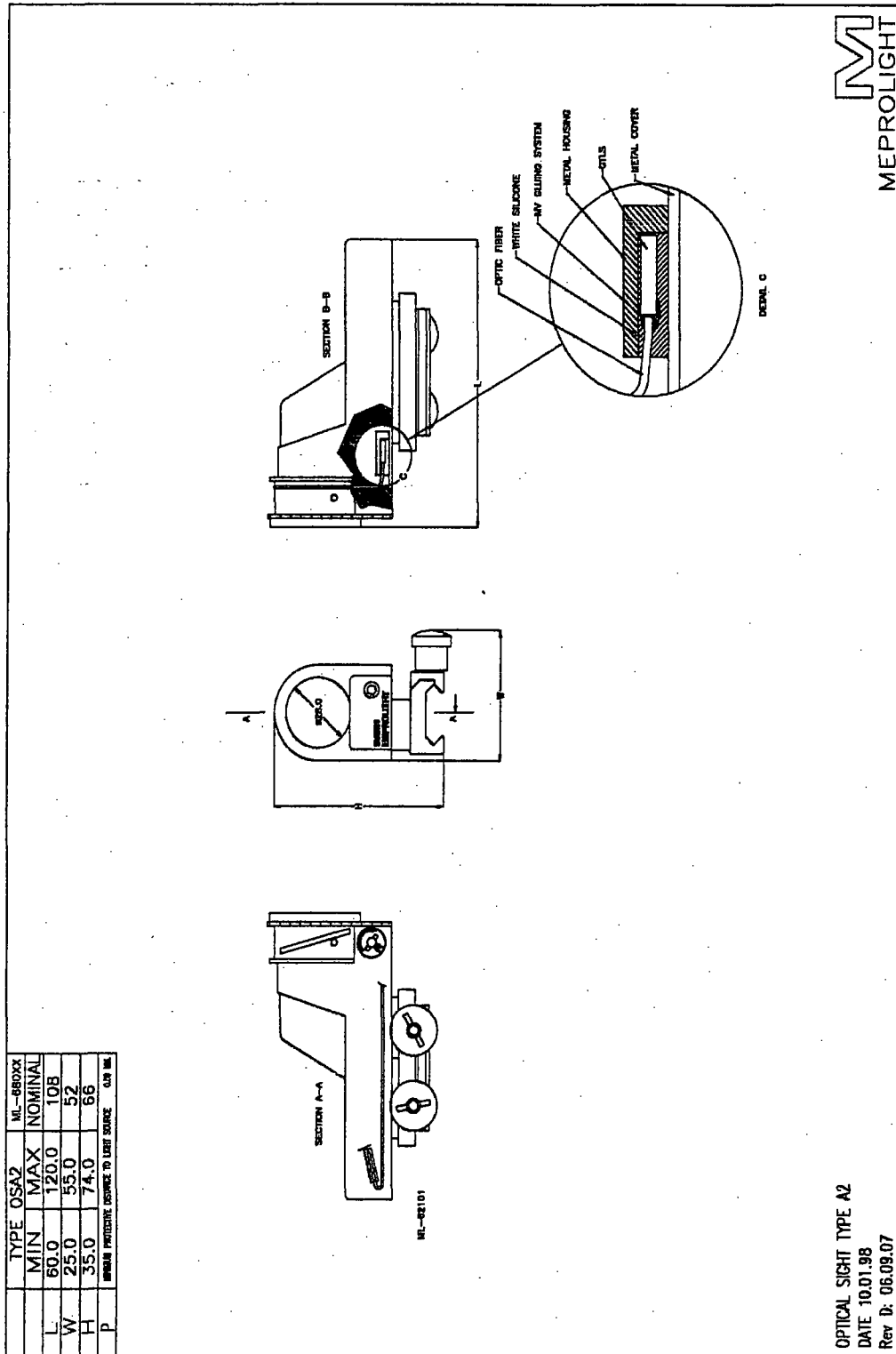


REAR SIGHT TYPE B3
 DATE 14.06.06
 Rev. A 14.06.07



REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
 SAFETY EVALUATION OF DEVICE
 (AMENDED IN ITS ENTIRETY)

NO.: NR-1119-D-101-E DATE: March 11, 2014 ATTACHMENT 22 OF 24

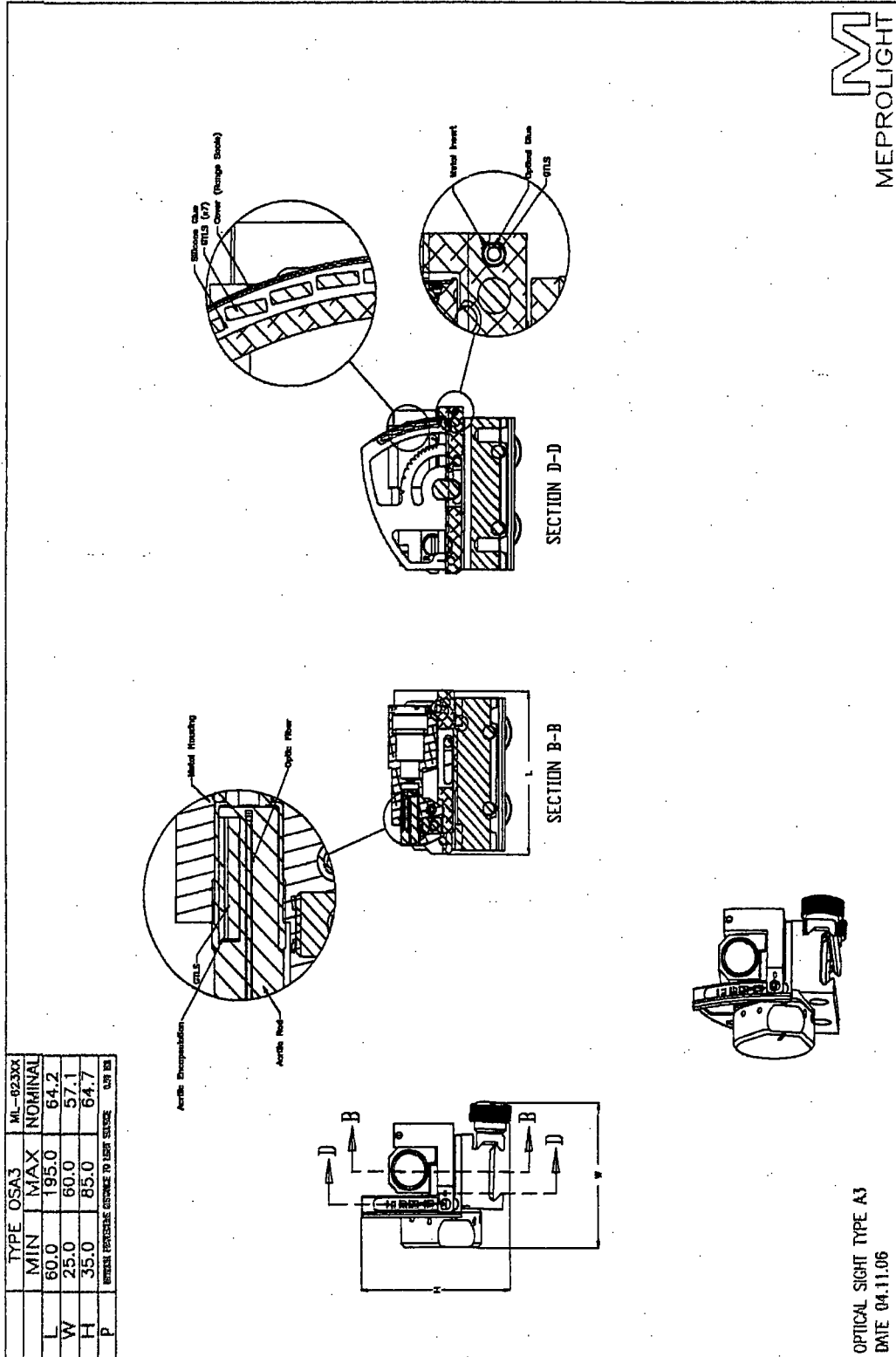


REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
 SAFETY EVALUATION OF DEVICE
 (AMENDED IN ITS ENTIRETY)

NO.: NR-1119-D-101-E

DATE: April 12, 2010

ATTACHMENT 23 OF 24



REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
 SAFETY EVALUATION OF DEVICE
 (AMENDED IN ITS ENTIRETY)

NO.: NR-1119-D-101-E

DATE: April 12, 2010

ATTACHMENT 24 OF 24

