



# CNSL

## READINESS STANDARDS GUIDE SHIPBOARD READY SERVICE LOCKERS



### CURRENT ISSUES

#### Shipboard Ready Service Lockers

Ready Service Lockers (RSL) are normally located on the weather decks as close to the weapon or space to be served as possible and are continually exposed to the elements. Certain compartments or lockers are used to stow special types of ammunition and ammunition components, such as detonators, pyrotechnics, and chemicals. They must have high security locking devices. If necessary, these lockers are manually jettisoned. A placard is installed on the locker identifying the type of explosives that are stowed within each locker. Where lockers provide stowage for ammunition, chests, or racks, and are permanently secured to the ship's structure, any modification requires prior approval of NAVSEASYSCOM. You must be proactive in the maintenance and repair of your RSLs.

RSLs are specifically designated for the storage of ammunition and explosives. During the past two years NOSSA conducted Conventional Ordnance Safety Reviews (COSRs) aboard over 100 Naval Ships and their findings revealed an alarming number of discrepancies associated within shipboard RSLs. Noted below are some of the specific areas of concern captured during the ship's COSRs and are considered trends across all class ships:

- Issue: RSL excessively corroded and unauthorized storage practices.
  - RSLs must be in a suitable condition to stow ammunition.
  - Have a bi-metallic thermometer mounted in place and calibrated.
  - Sunshields must be attached, painted white with all rivets and bolts attached.
  - Gaskets should be in good material condition and lubricated (if applicable).
  - Dogs must be in place and operable.
  - Drains plugs must be installed and hand-tight.
  - Knife-edges shall be straight and free of paint and rust.
  - Shall be kept clean and free of debris.





- Issue: Applicable general and specific safety precautions not posted
  - Safety placards for use aboard ship can be found in OP 4, Appendix D.
  - General and specific safety placards must be posted and legible.

**GENERAL SAFETY REGULATIONS FOR MAGAZINES AND LOCKERS**  
(REFER TO NAVSEA OP 4 FOR DETAILED REQUIREMENTS)

1. No smoking, matches, lighters or open flames.
2. No hot work allowed in this space or to its boundaries.
3. No eating or drinking.
4. No alterations or modifications to this space without prior COMNAVSEASYSKOM approval.
5. This space shall be kept clean.
6. No unauthorized equipment shall be used in this space.
7. No other material shall be stowed in this space with ordnance.
8. Any unusual conditions of the ordnance such as leaks, moisture damage, odors or shifting in stowage shall be reported to supervisory personnel immediately.
9. No safety device shall be bypassed.
10. All ordnance shall be secured against ship's movement. Ordnance shall be stowed in designated stowage spaces only.
11. Magazine temperature shall not exceed the limits for the stowed ordnance.

**GENERAL SAFETY REGULATIONS FOR ORDNANCE HANDLING**  
(REFER TO NAVSEA OP 4 FOR DETAILED REQUIREMENTS)

1. A supervisor certified in accordance with OPNAVINST 8020.14/MCO P8020.11 shall be present prior to starting handling operations.
2. An ordnance handling pre-brief shall be conducted prior to starting handling operations.
3. Personnel present shall be kept to a minimum.
4. Handling ordnance shall be kept to a minimum.
5. Only authorized equipment that has been properly maintained shall be used.
6. Competition with other handling parties is prohibited.
7. Horseplay is prohibited.
8. Do not drop, bump, or hit ordnance. Do not strike ordnance with handling gear.
9. All handling equipment shall completely engage the ordnance suspension lugs or ordnance handling points. Supervisors shall verify complete engagement prior to lift or movement.
10. A minimum of two persons must be present to move ordnance.
11. Ordnance should not be left unattended on handling equipment. If it is necessary to do so, the ordnance and the equipment must be secured with tiedowns.
12. Do not move armed or damaged ordnance. Notify supervisory personnel immediately.
13. Bale hooks are not authorized in handling areas. All hooks shall be moused.
14. Never use cargo nets alone to handle ordnance.
15. Personnel shall be assigned to guide ordnance through scuttles or hatches.
16. Set HERO EMCON in accordance with Ships HERO bill prior to handling ordnance.

- Issue: RSLs not locked
  - Ready service lockers shall be kept closed and locked. They shall be opened only when authorized by the officer-In-charge of the space, who shall be responsible for securing the locks upon completion of the operation. The ship's CO/Master or an officer designated in writing shall be the custodian of the RSL keys.
  - Locking devices used to secure each RSL must meet the security requirements as outlined in OPNAVINST 5530.13C. Refer to appendix D.

OPNAVINST 5530.13C  
26 September 2003

APPENDIX D

APPROVED LOCKING DEVICES

Use the latest series of the specifications (e.g., MIL-SPEC).

HIGH SECURITY LOCKS

NOMENCLATURE	NSN	MIL-SPEC	NOTES
S&G 833C padlock	5340-01-217-5068	MIL-DTL-43607	
SMILS (MK6 MOD S 0, 1, & 2)N/A		N/A	(1)
Internal Locking Device N/A		N/A	(2)

NOTE: The 831B padlock, TU FLOC, and Hi Shear LK1200 padlock no longer meet the specifications for high security locks. Those in use must be replaced when they fail or when new keys are needed. TU FLOC may still be used in applications on topside lockers and other shipboard spaces that are too small to use a SMILS or ILD.

HIGH SECURITY HASPS

MK II MOD IX Style 1 (NAPEC)	5340-01-196-2547	MIL-DTL-29181	(3)
MK II MOD IX Style 2 (NAPEC)	5340-01-235-6907	MIL-DTL-29181	(4)
1300 SERIES	5340-01-281-7938	MIL-H-24653	
1300 SERIES-accessories	5340-01-282-8275	MIL-H-24653	(5)
MK II MOD VIII (NAPEC)	N/A	MIL-DTL-29181	(6)

NOTES

- (1) Shipboard Internal Locking System Module (SMILS) is installed as part of the door, making a hasp unnecessary.
- (2) Available from NFE SC, Port Hueneme, CA (telephone (805)982-1567; DSN 551-1567).
- (3) For use on sliding or hinged doors which open on right.
- (4) For use on sliding or hinged doors which open on left.
- (5) These are additional parts needed for styles 3, 5, or 6.
- (6) Older four-piece version for sliding or hinged doors opening on the right or left.

AUTHORIZED USES

- a. All magazines and AA&E storage areas.
- b. All arms storage facilities.
- c. Aboard ships as specified in this instruction, including topside lockers containing grenades, demolition material or incendiary rockets.

Appendix D to Enclosure (1)





- New for 2010 is the S&G Model 951 pad lock, NSN 5340-01-510-2351
- Locks can be ordered using NSN 5340-01-510-2351 on an AOE milstrip with remarks that indicate the point of contact with address, phone number and email, along with information on the type of hasp that will be used with the lock. For further information, contact the Defense Locking System Group at Naval Surface Warfare Center Crane, telephone number (812) 854-1354.

### Model 833 and Model 951 Padlocks



## BEST PRACTICES

### Best Practices



## BI-METALLIC THERMOMETERS

REFERENCE :  
- DD 45845  
(METRL)

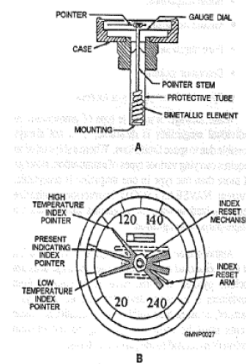


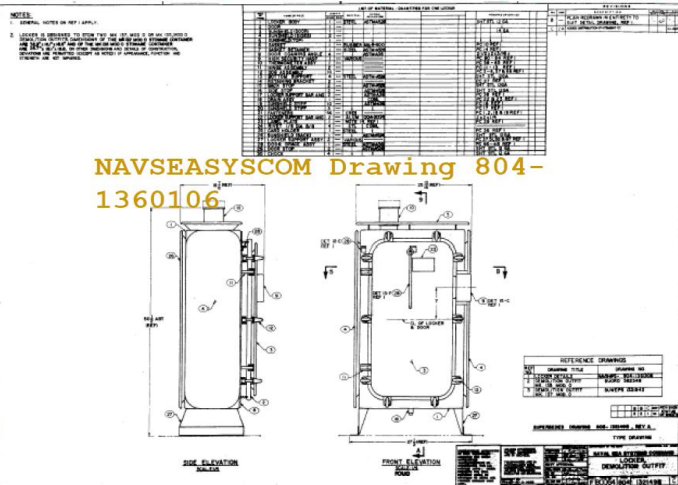
Figure 2-12.—Bi-metallic maximum and minimum thermometer: A. Internal components; B. Dial face and pointers.

§ BI-METALLIC THERMOMETER CALIBRATION INTERVALS ARE CURRENTLY AT 48 MONTHS .



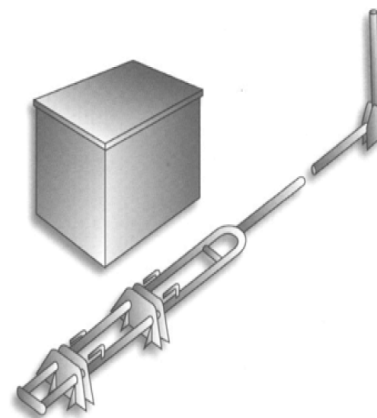
# DRAWINGS OF STANDARD READY SERVICE LOCKERS

# Jettison Lockers



Locker Handles must not be bolted into place when ammunition is stored in the locker.

The Jettison Handle should be marked to prevent inadvertent jettison of the locker



## PMS MIP 7631 MRC Q-1

## READY SERVICE LOCKERS

SUN SHIELDS SHALL BE PAINTED WHITE.

**PROCEDURE**

**NOTE 1 :** Accomplish quarterly for Ready Service Lockers mounted on or exposed to weather decks.

**NOTE 2 :** Perform maintenance on 1 dogging device at a time to preclude ordnance removal.

**NOTE 3 :** Review all steps and omit steps that are not required. No Feedback Required.

**1. Clean, Inspect, and Lubricate Dogging Devices for Ready Service Lockers Mounted on or Exposed to Weather Decks.**

a. Loosen one dogging device for cleaning.

**WARNING:** Avoid repeated/prolonged skin contact with hazardous materials. Wash affected areas with soap and water upon completion of task or prior to eating, drinking, smoking, or applying cosmetics.

b. Put on goggles and gloves.

c. Remove old grease, dust, dirt, and corrosion from exposed threaded area, using wire brush and rag.

d. Screw dogging nut along threads to expose additional threads.

e. Repeat steps 1.c. and 1.d. until all threaded areas have been cleaned.

f. Apply light coat of grease to exposed threads, using brush.

g. Repeat steps 1.d. and 1.f. until all threads have been lubricated.

h. Remove old grease, silicone compound dust, dirt, and corrosion from dogging holddown wings, using wire brush and rag.

i. Apply silicone compound to surface of holddown wings, using brush.

j. Apply 4 drops of oil to dogging device pivot points.

k. Wipe off excess lubricant, using rag.

l. Return dogging device to closed position and tighten.

m. Repeat steps 1.a. through 1.l. for each dogging device.

**NOTE 4 :** Steps 1.a. through 1.q. apply only to gun lockers with quick-release latches.

n. Wipe old lubricant dust and dirt from latch pins, using rag.

o. Apply 3 drops of oil to each latch, 4 pieces.

p. Exercise latches to aid lubricant penetration.

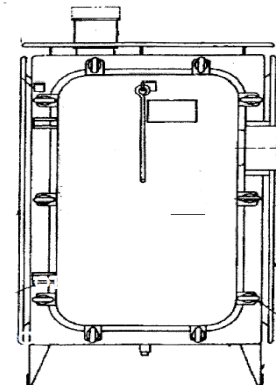
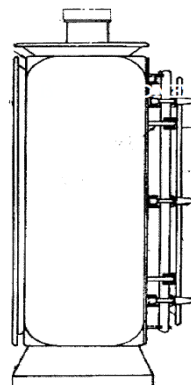
q. Fasten all quick-release latches.

r. Remove gloves and goggles.

**NOTE 5 :** Notify Work Center Supervisor of any discrepancies noted while performing this MRC.

s. Return equipment to readiness condition.

**DISPOSAL METHODS FOR HAZARDOUS MATERIAL-WASTE IDENTIFIED IN THE TOOLS, PARTS, MATERIAL, AND TEST EQUIPMENT BLOCK**



- The amount of ammunition in RSLs shall be minimized to quantities required to support a planned reload of a gun, launcher, or aircraft.
- RSLs located on the weather deck for stowage of pyrotechnic and incendiary ammunition, such as parachute flares and Thermite Grenades, shall have manual jettison capability in case of a fire in the vicinity. The jettison mechanism will be protected from damage and a positive locking device provided to prevent inadvertent actuation.
- RSL's lid support arm shall be designed so that it does not contact the intended contents when the locker is closed and shall have a means to secure the lid in the open position.
- RSLs should be located at least 15 feet from oxygen generators, oxygen or oxidizer stowage or handling, flammable liquid stowage or handling, combustible liquid stowage or handling, or flammable gas stowage or handling.



- RSLs should be located at least two feet from a fume-tight compartment containing oxygen generators, oxygen or oxidizer stowage or handling, flammable liquid stowage or handling, combustible liquid stowage or handling, or flammable gas stowage or handling.
- RSLs containing ammunition must have a thermometer installed. Each thermometer must be securely mounted with the proper security hardware to prevent movement or damage.
- Un-sprinkled and non-jettisonable RSLs should be located at least two feet from another RSL or magazine.
- Ensure RSL thermometers are capable of capturing minimum and maximum temperatures.
- Munitions will be documented in ROLMS for each RSL with inventory list in locker.
- Temperature card present, temperatures taken daily and recorded when ordnance is present.

## REFERENCES

NAVSEA OP-4 Series

OPNAVINSTINST 5530.13 Series

NAVSUP P-801

NAVSUP P-805

NAVSUP P-807

PMS/MRC 7631/010

## WEBSITES

<https://nossa.nmci.navy.mil>

<https://atg.surfor.navy.mil/toolbox/private/files/OHSAT/TrainingLectures.asp>

<https://awis.navair.navy.mil/redshirt/redshirt/default.asp>

<https://www.surfor.navy.mil/Pages/default.aspx>

<http://www.public.navy.mil/usff/INSURV/Pages/COMBATSYS.aspx>

## POINTS OF CONTACT

- For questions concerning COSR or Explosive Safety contact:
  - ESSOLANT Norfolk, VA Office, (757) 444-9022
  - CNSL, N423, Aviation Ordnance Officer/Chief (757) 836-3190/3188
  - CNSL, Shipboard Weapons Integration Team (SWIT) (757) 836-3191/2405
  - CNSL, Fleet Weapons Support Team (FWST) (757) 836-3192
- For further information please visit: <https://www.surfor.navy.mil/surfor/rsg/wp/default.aspx>