

## 1 SURVIVAL EQUIPMENT INSPECTION

*NOTE: This MPC is not a stand-alone document. The inspection procedures contained in this MPC are performed as directed by other MPC's or at any other time if the inspecting unit deems necessary.*

### REFERENCES:

MPC RSS583042.0

NAR – Notice(s) of Ammunition Reclassification

NAVSUP P-801, Ammunition Unserviceable, Suspended and Limited Use, CH 3 and Appendix A.

### TOOLS/TEST EQUIPMENT:

Center Punch, P/N: B107.48, CAGE: 05047, NIIN: 002933509 (or equivalent) (if required)

Knife Sharpener, P/N: REPRO400, CAGE: 3GZU3, NIIN: 015147779 (or equivalent)

Stopwatch, P/N: LCD-200, CAGE: 86582, NIIN: 011064303 (or equivalent)

### EXPENDABLES:

Expended MK-80 Flare Cartridge, (Obtain from local servicing armory)

Fastener Tape, Hook, 2" Self-Adhesive, P/N: A-A-55126, CAGE: 58536, NIIN: 010331734 (or equivalent)(if required)

Mirror, Emergency Signal, P/N: WG0601, CAGE: 4N5D6, NIIN: 001051252 (if required)

Nylon Cord, Type I, P/N: MIL-C-5040, CAGE: 81349, NIIN: 002402154 (if required)

Personal Locator Beacon, ACR Res-Q-Link, P/N: 2881.52, CAGE: 18560, NIIN: 01HS21127 (New procurements) (if required)

Personal Marker Light (PML), P/N: 9-80770PF, CAGE: 0BY83, NIIN: 010868077 (if required)

Signal Kit, Personnel Distress, MK-79, NIIN: 008669788 (From Local Servicing Armory) (if required)

Signal, Smoke and Illumination, MK-124, NIIN: 010308330 (From Local Servicing Armory) (if required)

Strobe Light (selected) (if required):

Firefly 3, P/N: 3995.3, CAGE: 18560, NIIN: 014831944

Sirius LED, P/N: 640, CAGE: 64249, NIIN: 01HS24559

Sirius MILTAC, P/N: 642, CAGE: 64249, NIIN: 01HS24558 (DOG units only)

Survival Knife and Sheath, P/N: 358, CAGE: 64249, NIIN: 012783007 (if required)

Whistle, Multi-tone, P/N: ASC FOX40-C-IO, CAGE: 01BJ9, NIIN: 219127031 (if required)

### CONSUMABLES:

Battery, Energizer AA, P/N: EVEC91BP8, CAGE: 1WSP1 (2)



Cleaner, Lubricant and Preservative (CLP), P/N: 3058220120, CAGE: B0897, NIIN: 010546453  
Marker, Permanent, P/N: 7520-00-973-1059, CAGE: 83421, NIIN: 009731059 (or equivalent)  
Pad, Scouring, P/N: 7920-00-753-5242, CAGE: 80244, NIIN: 007535242 (or equivalent) (if required)  
Re-closeable Zip Top Bag, Heavy Duty, P/N: RZ4-061-4x6, CAGE: 1PM60, (if required)  
Sealing Compound (Loctite 271), P/N: 27121, CAGE: 05972, NIIN: 001489833  
Tape, Pressure Sensitive Adhesive, P/N: 141 2IN., CAGE: 34359, NIIN: 013837967  
Wipes, Disinfectant, P/N: 504, CAGE: 50378, NIIN: 013723078

#### A INSPECT SIGNAL WHISTLE

1. Remove split ring from whistle.
  - a. Discard split ring.
2. Inspect signal whistle for cracks or seam separation.
  - a. Replace signal whistle, P/N: ASC FOX40-X-IO, if it is cracked or has any seam separation.
3. Test whistle by blowing through it normally, then with forced exhalation.
  - a. Replace whistle if it fails to emit a highly audible sound.

#### WARNING

**AVOID EYE CONTACT WITH DISINFECTANT TOWEL. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.**

4. Clean whistle using a disinfectant wipe, P/N: 504.

#### B INSPECT STROBE LIGHT

1. Inspect the strobe light case for cracks or damage.
  - a. Replace strobe light, P/N: (see expendables list), if it is cracked or damaged.

#### WARNING

**USE CAUTION WHEN HANDLING AAA, AA, A, C, D, 6, AND 9 VOLT BATTERIES. DO NOT ATTEMPT TO CHARGE NON-RECHARGEABLE BATTERIES. ALWAYS CHANGE BATTERIES AWAY FROM EXCESSIVE HEAT, OR OTHER HAZARDOUS CONDITIONS. ENSURE THE BATTERY POLARITY MATCHES THE BATTERY COMPARTMENT POLARITY. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY.**

2. Remove batteries from battery compartment.
  - a. Discard batteries in accordance with local procedure.
3. Check battery compartment for corrosion.
  - a. Remove corrosion, if required.



- b. Replace strobe light if severe corrosion is noted.
4. Install two new size AA batteries, P/N: EVEC91BP8, into the battery compartment.
  - a. Tighten battery door retainer hand-tight.
5. Test strobe light as follows:
  - a. Energize strobe light.
  - b. Count the flashes per minute using a stopwatch.
    - (1) Replace strobe light if it fails to emit 50 to 70 flashes per minute.
6. Inspect condition of installed hook fastener tape.

*NOTE: Sirius LED strobe lights are furnished with manufacturer installed hook fastener tape. The manufacturer installed hook fastener tape is acceptable for use until no longer serviceable.*

- a. Replace hook fastener tape, P/N: A-A-55126, if missing or unserviceable.

*NOTE: Self adhesive hook fastener tape shall be cut-to-fit so that it fits on the back of the strobe light case (opposite side as power switch) and does not interfere with the light.*

- (1) Trim hook fastener tape to a size that fits on the back of the strobe light without interfering with the strobe light.

#### **C INSPECT PERSONAL MARKER LIGHT (PML)**

##### **CAUTION**

**PFD'S THAT WILL BE USED IN TEMPERATURES BELOW 50°FAHRENHEIT SHALL HAVE THE STROBE LIGHT INSTALLED IN LIEU OF THE PERSONAL MARKER LIGHT.**

*NOTE: PFD's not worn in conjunction with the Boat Crew Survival Vest shall have a signal whistle and either a strobe light or personal marker light attached.*

1. Check expiration date located on the tube seal.
  - a. Replace PML, P/N: 9-80770PF, if expired or if expiration will occur in the next 6 months.
2. Check for broken tube seal.
  - a. Replace PML if the tube seal is broken.

#### **D INSPECT PERSONAL LOCATOR BEACON (PLB)**

*NOTE: Previously purchased McMurdo Fastfind and Fastfind Plus 406 MHz Personal Locator Beacon's shall remain in service until they are no longer serviceable.*

*NOTE: Regular PLB maintenance (inspect/test) is already scheduled and performed using MPC RSS583042.0. The below inspection is to identify any obvious defects.*

1. Inspect PLB for visible signs of damage.
  - a. Perform PLB monthly inspect/test if any damage is noted, (Comply with MPC RSS583042.0).



**E INSPECT MK-79 PERSONAL DISTRESS KIT**

**WARNING**

**UNDER NO CIRCUMSTANCES SHALL UNIT PERSONNEL ATTEMPT TO REPAIR ANY PYROTECHNICS DEEMED TO BE UNSERVICEABLE. ANY ATTEMPT TO REPAIR DAMAGED OR UNSERVICEABLE PYROTECHNICS COULD RESULT IN AN EXPLOSIVE MISHAP, WHICH COULD SEVERELY INJURE OR KILL.**

**WARNING**

**DENTED, DAMAGED, OR CORRODED PYROTECHNICS SHALL NOT BE USED. DENTS OR OTHER IMPERFECTIONS MIGHT RESULT IN VIOLENT ACTION OF THE SIGNAL WHEN FIRED.**

1. Remove projector and bandolier with instruction card from the plastic bag,
2. Inspect plastic bag for tears or deterioration.
  - a. Replace re-closeable zip top bag, P/N: RZ4-061-4x6, if torn or deteriorated.
3. Inspect MK-80 flares for the following:
  - a. Dents.
  - b. Damaged threads.
  - c. Corrosion.
    - (1) Remove light corrosion using a dry, soft rag.

*NOTE: Obtain replacement MK-79 kits: MK-31 projectors, MK-80 flares and bandoliers from the Local Servicing Armory.*

*NOTE: Excessive corrosion is any pitting or case deterioration that may compromise case integrity; corrosion that bridges a case seam or seal; green salts in contact with percussion caps or igniters.*

- d. Replace MK-80 flares, if dents, damaged threads or excessive corrosion are noted.
4. Inspect legibility of lot numbers printed on the MK-79 kit and flares, (Refer to Figure 1).

*NOTE: Obtain replacement MK-79 kits, MK-31 projectors, MK-80 flares and bandoliers from the Local Servicing Armory.*

  - a. Replace MK-79 kit or MK-80 flares which have missing/illegible lot numbers.
5. Verify all lot number ammunition condition codes (ACC) with local servicing armory, (Refer to latest NAR's, Notice of Ammunition Reclassification, and NAVSUP P-801).
  - a. Replace MK-79 kit if the ACC is other than "ALPHA" or "CHARLIE".
  - b. Replace MK-80 flares if the ACC is other than "ALPHA" or "CHARLIE".



**WARNING**

**UNDER NO CIRCUMSTANCES SHALL UNIT PERSONNEL ATTEMPT TO REPAIR ANY PYROTECHNICS DEEMED TO BE UNSERVICEABLE. ANY ATTEMPT TO REPAIR DAMAGED OR UNSERVICEABLE PYROTECHNICS COULD RESULT IN AN EXPLOSIVE MISHAP, WHICH COULD SEVERELY INJURE OR KILL.**

**WARNING**

**DENTED, DAMAGED, OR CORRODED PYROTECHNICS SHALL NOT BE USED. DENTS OR OTHER IMPERFECTIONS MIGHT RESULT IN VIOLENT ACTION OF THE SIGNAL WHEN FIRED.**

6. Inspect MK-79 kit instruction card for legibility.

*NOTE: Photocopies of instructions from another MK-79 kit are acceptable. Ensure the lot number from the original MK-79 kit is printed on the photocopied instructions.*

- a. Replace instruction card, if illegible or deteriorated.

7. Inspect MK-31 projector for dents and corrosion.

- a. Remove light corrosion using a soft, dry rag.

*NOTE: Obtain replacement MK-79 kits, MK-31 projectors, MK-80 flares and bandoliers from the Local Servicing Armory.*

- b. Replace MK-31 projector if dented or excessively corroded.

8. Inspect MK-31 projector trigger screw for security.

**WARNING**

**AVOID EYE CONTACT, SKIN CONTACT, AND INHALATION WITH SEALANT. KEEP AWAY FROM ALL SOURCES OF IGNITION. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.**

- a. Secure trigger screw using thread lock, P/N: 27121, if loose.

9. Check firing pin operability by sliding the trigger screw downward into the projector angular slot.

*NOTE: Obtain replacement MK-79 kits, MK-31 projectors, MK-80 flares and bandoliers from the Local Servicing Armory.*

- a. Replace MK-31 projector if the trigger screw or firing pin do not move freely.



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**WARNING**

**DENTED, DAMAGED, OR CORRODED PYROTECHNICS SHALL NOT BE USED. DENTS OR OTHER IMPERFECTIONS MIGHT RESULT IN VIOLENT ACTION OF THE SIGNAL WHEN FIRED.**

**WARNING**

**UNDER NO CIRCUMSTANCES SHALL A LIVE MK-80 FLARE BE USED TO VERIFY OPERATION OF THE MK 31 PROJECTOR. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.**

10. Insert an expended MK-80 flare cartridge into the projector to verify serviceability of the projector threads.

*NOTE: Obtain replacement MK-79 kits, MK-31 projectors, MK-80 flares and bandoliers from the Local Servicing Armory.*

- a. Replace MK-31 projector if the expended flare cartridge does not thread smoothly into the projector.
11. Check for peen marks located above the projector end cap, (Refer to Figure 1).
    - a. Place three peens, equally spaced around the projector, one eighth inch above the end cap using a hammer and center punch.

**WARNING**

**AVOID EYE CONTACT, SKIN CONTACT, INHALATION, AND INGESTION WITH LUBRICANT. KEEP AWAY FROM ALL SOURCES OF IGNITION AND OXIDIZERS. USE IN A WELL VENTILATED AREA. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. FAILURE TO COMPLY MAY RESULT IN PERSONAL INJURY.**

12. Lubricate MK-31 projector spring assembly with one drop of lubricant, P/N: 3058220120.
13. Inspect MK-79 kit red plastic bandolier for broken or missing protective tabs.

*NOTE: Obtain replacement MK-79 kits, MK-31 projectors, MK-80 flares and bandoliers from the Local Servicing Armory.*

- a. Replace bandolier if it has broken or missing protective tabs.
14. Inspect lanyard between projector and bandolier for cuts or frays.



**WARNING**

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**WARNING**

**DENTED, DAMAGED, OR CORRODED PYROTECHNICS SHALL NOT BE USED. DENTS OR OTHER IMPERFECTIONS MIGHT RESULT IN VIOLENT ACTION OF THE SIGNAL WHEN FIRED.**

*NOTE: The projector is attached to the bandolier with a sear cut, 48 inch length of type 1 nylon cord, P/N: MIL-C-5040, secured with a bowline knot followed by an overhand knot at both ends.*

- b. Replace Type 1 nylon cord, P/N: MIL-C-5040, from bandolier to projector, if required.

15. Place MK79 Kit into the reclosable plastic bag.

**F INSPECT MK-124 SMOKE AND ILLUMINATION SIGNAL**

- 1. Inspect MK-124 Smoke and Illumination Signal casing for the following:
  - a. Dents.
  - b. Bulges.
  - c. Corrosion.
    - (1) Remove light corrosion using a soft, dry rag.

*NOTE: Excessive corrosion is any pitting or case deterioration that may compromise case integrity; corrosion that bridges a case seam or seal; green salts in contact with percussion caps or igniters.*

- d. Replace MK-124 if dents, bulges or excessive corrosion is noted.

2. Inspect MK-124 end caps.

*NOTE: Obtain replacement MK-124 flares and end caps from the Local Servicing Armory.*

- a. Replace end caps if missing.



**WARNING**

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**WARNING**

**DENTED, DAMAGED, OR CORRODED PYROTECHNICS SHALL NOT BE USED. DENTS OR OTHER IMPERFECTIONS MIGHT RESULT IN VIOLENT ACTION OF THE SIGNAL WHEN FIRED.**

3. Inspect legibility of MK-124 lot number, (Refer to Figure 1).

*NOTE: Obtain replacement MK-79 kits, MK-31 projectors, MK-80 flares and bandoliers from the Local Servicing Armory.*

- a. Replace MK-124 if lot number is not legible.

4. Check for clear tape installed over flare instructions and lot number.

- a. Place a length of clear adhesive tape, P/N: 141 2IN., over the flare instructions and lot number, if not installed.

5. Verify lot number ACC with local servicing armory, (Refer to latest NAR (Notice of Ammunition Reclassification), and NAVSUP P-801).

*NOTE: Obtain replacement MK-124 flares and end caps from the Local Servicing Armory.*

- a. Replace MK-124 if it has a condition code condition code other than "ALPHA" or "CHARLIE".

**G INSPECT SIGNAL MIRROR**

1. Inspect mirror for cracks or breaks.

- a. Replace signal mirror, P/N: WG0601, if it is cracked or broken.

2. Inspect signal mirror for legibility of instructions printed on back of mirror.

- a. Replace signal mirror if instructions are not legible.

**H INSPECT SURVIVAL KNIFE**

1. Inspect survival knife for corrosion.

- a. Remove corrosion using a scouring pad, P/N: 7920-00-753-5242.

2. Inspect survival knife for cracks or breaks.

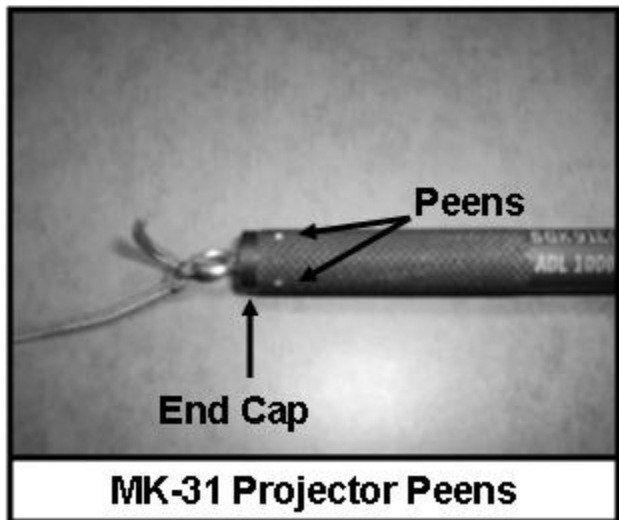
- a. Replace survival knife, P/N: 358, if cracked or broken.

3. Sharpen survival knife using a knife sharpener.

4. Document any discrepancies.







MK-79 AND MK-124

Figure 1

