

18 Nov 2000

Memorandum (to be included as an enclosure)

From: LCDR [REDACTED], JAGC, USN
To: USS COLE (DDG 67) Investigation File

Subj: USS COLE (DDG 67) SMALL ARMS WEAPONS ALLOWANCE;
RANGES OF VARIOUS SMALL ARMS WEAPONS

Encl: [attached are seven pages faxed from Naval Surface Warfare Center (NSWC), Crane, Indiana]

1. In an effort to verify the type and quantity of small arms that USS COLE (DDG 67) had onboard at the time of the attack on 12 October 2000, I contacted several officials at the Naval Surface Warfare Center (NSWC), Crane, Indiana, on 16 November 2000. As outlined below, they provided various documents by fax and information by phone:

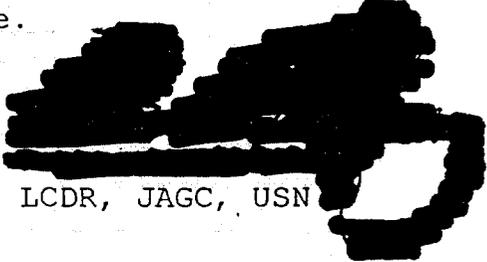
- Ms. Kathleen Row, Branch Manager, Navy Small Arms Allowance and Small Arms Registry, faxed me a copy of the "Navy Small Arms Equipment Allowance List" for USS COLE (DDG 67). She said the list shows what ships are authorized to have. She also said that there is no standard deviation or percentage with which ships have to comply. Additionally, she faxed me a copy of COLE's latest "Small Arms Asset Verification List," dated 31 July 2000. The numbers on COLE's report correspond to their authorized small arms allowance.
- Mr. Terry O'Brien, a Small Arms Inservice Engineer at NSWC, provided me the information on max. effective ranges and max. ranges for various weapons as well as a fax picture of the M-60 machine gun. The ranges are as follows:

| WEAPON | MAX EFFECTIVE RANGE | MAX RANGE (TRAVELLING DISTANCE) |
|------------------|---|---------------------------------|
| 9-MM | 50 METERS | 1800 METERS |
| M-60 MACHINE GUN | 600 meters (pt target); 1100 meters (area target) | 3725 meters |
| M-14 Rifle | 460 meters (pt target) | 3725 meters |

Encl (58)
Page 1 of

| | | |
|-----------------------|-------------------------------|-------------|
| .50-CAL machine gun | 1829 meters (pt target) | 6767 meters |
| M-79 grenade launcher | Min. safety range (31 meters) | 400 meters |
| 12-gauge shotgun | 40 meters (estimate) | 250 meters |

- Also, I talked with Mr. Chuck Fellers, NSWC, regarding concussion grenades. He also faxed me some material for reference.


LCDR, JAGC, USN

V21941
COLE

DDG-67

Navy Small Arms

| | | |
|------------------|------------------------------------|----|
| 1005-00-589-1271 | RIFLE 7.62MM M14 W/E | 17 |
| 1005-00-605-7710 | MACHGUN 7.62MM M80 W/E | 4 |
| 1005-01-118-2640 | PISTOL 8MM BERETTA M9 ARMY | 28 |
| 1005-01-343-0747 | MACHGUN CAL 50 M2HB MODIFIED | 4 |
| 1005-01-371-5639 | SHOTGUN 12GA MOSS 20BL 500 A2 RIOT | 14 |
| 1095-00-726-5820 | PISTOL PYRO AN/M8 | 3 |
| 1095-01-079-0140 | KIT L/THRO MK87-1 | 8 |

Navy Mounts

| | | |
|------------------|--------------------------------|---|
| 1005-00-139-5600 | MOUNT GUN 7.62 M80 MK 58 MOD 5 | 4 |
| 1005-01-318-8515 | MOUNT SOFT CAL 50 MK26 MOD 17 | 4 |

Navy Weapons

| | | |
|------------------|-------------------------------|---|
| 1010-00-691-1382 | LAUNCHER GRENADE 40MM M79 W/E | 2 |
|------------------|-------------------------------|---|

Navy Small Arms Accessories

| | | |
|------------------|-----------------------------|---|
| 1005-00-587-8408 | SELECTOR F/M14 RIFLE | 4 |
| 5315-00-051-8891 | SELECTOR PIN F/M14 RIFLE | 4 |
| 5360-00-587-8415 | SPRING SELECTOR F/M14 RIFLE | 4 |

Notes

1. 1005-01-371-5639, 1005-01-085-1032 AND 1005-00-999-4213 ARE STD NAVY 20 IN BARREL SHOTGUNS. 1005-01-371-5639 WILL BE USED FOR REQN PURPOSES. ICP MAY SUB REQN ITEM DUE TO CURRENT INV STATUS.
2. SASDT OF 3 OCT 93.
3. COMNAVSEASYS COM LTR 8370 SER 91WE/135 OF 23 JUN 94.

Encl (58)
Page 3 of 9

rpt5555

NAVY SMALL ARMS ASSET VERIFICATION LIST

Encl (58)
Page 4 of 9

CMDR: L03

HULL NO: DDG-67

V21041
COLE

Return one complete copy of this package (including this certification page, all pages of serial number listings and any required attachments) within 45 days to:

COMMANDER
CODE 4086 BLDG 2621
NAVSURFWARCEMDIV
300 HIGHWAY 361
CRANE IN 47622-5001

Notes:

Serial numbers with dash and number suffix indicate duplication of serial numbers within the Registry. Serial numbers with a dash and alpha suffix indicate M (missing), L (lost) or S (stolen). Dash and number/alpha suffix are not part of the serial number.

This report is to be signed and dated by two individuals conducting the annual inventory.

Signature _____ Date 31 JUL 00 *ENS*

Signature _____ Date 31 July 2000 *ENS*

I certify that quantities and serial numbers listed on this report have been verified and are correct or any discrepancies are supported by attached documentation.

Signature _____ *ENS*
(Accountable Officer)

Date 31 JUL 00

Please provide a point of contact at your unit to assist in resolving any problems that might arise concerning this report.

Print Name _____ *ENS*
(Include rank)

Email _____ @ cole.navy.mil

Telephone: Commercial (757) 444-1820

DSN 564-7480

FAX (757) 444-7480

WORKED ON AT
05 OCT 2000

PROPERTY RETURNED
AUG 14 2000

ENCLOSURE (1)

11-16-0 : 9:56AM : SMALL ARMS OP DEPT-

2 / 4

pt5555

NAVY SMALL ARMS ASSET VERIFICATION LIST

Y21941

MDR: L03

HULL NO: DDG-87

COLE

Encl (58)
Page 5 of

| EIC: 1050 NSN: 1005-01-118-2840 CMD: A GRP: 1 STA: 1 NOMEN: PISTOL 9MM BERETTA M9 ARMY | | | | | | | |
|--|---------|---------|---------|---------|---------|---------|---------|
| 1109799 | 1109800 | 1109804 | 1109808 | 1109807 | 1109809 | 1109810 | 1260250 |
| 1260251 | 1260253 | 1260256 | 1260267 | 1260289 | 1260274 | 1260272 | 1260273 |
| 1260277 | 1344792 | 1344793 | 1344795 | 1344796 | 1344797 | 1344805 | 1344835 |
| 1344836 | 1344838 | 1405375 | 1405378 | | | | |

ITEM TOTAL: 28 ✓

| EIC: 1200 NSN: 1095-00-726-6820 CMD: A GRP: 1 STA: 1 NOMEN: PISTOL PYRO AM/NS | | | | | | | |
|---|--------|--------|--|--|--|--|--|
| 275231 | 330859 | 342385 | | | | | |

ITEM TOTAL: 3 ✓

| EIC: 2083 NSN: 1005-00-589-1271 CMD: A GRP: 1 STA: 1 NOMEN: RIFLE 7.62MM M14 W/E | | | | | | | |
|--|--------|--------|---------|---------|---------|---------|---------|
| 543164 | 810624 | 865206 | 889251 | 890020 | 900113 | 910683 | 916852 |
| 935346 | 935620 | 936414 | 1063270 | 1088626 | 1137181 | 1148438 | 1253577 |
| 11003167 | | | | | | | |

ITEM TOTAL: 17 ✓

| EIC: 2342 NSN: 1005-01-371-5639 CMD: A GRP: 1 STA: 1 NOMEN: SHOTGUN 12GA MOSS 20BL 500 A2 RIOT | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|
| US18848 | US19427 | US19562 | US018870 | US020827 | US020907 | US020883 | US026323 |
| US027450 | US028002 | US028253 | US028739 | US028838 | US028863 | | |

ITEM TOTAL: 14 ✓

27 Jun 200

11-16-0 : 9:57AM : SMALL ARMS OP DEPT-

3 / 4

rpt5555

NAVY SMALL ARMS ASSET VERIFICATION LIST

V21941

COLE

CMDR: L03

HULL NO: DDG-67

EIC: 4023 NSN: 1005-00-805-7710 CND: A GRP: 1 STA: 1 NOMEN: MACHGUM 7.62MM M60 W/E

218438 238004 238007 238009

ITEM TOTAL: 4 ✓

EIC: 4050 NSN: 1005-01-343-0747 CND: A GRP: 1 STA: 1 NOMEN: MACHGUM CAL 50 M2HS MODIFIED

M3014077 M3017151 M3022735 M3024398

ITEM TOTAL: 4 ✓

EIC: 5001 NSN: 1010-00-091-1382 CND: A GRP: 1 STA: 1 NOMEN: LAUNCHER GRENADE 40MM M79 W/E

88245 98077

ITEM TOTAL: 2 ✓

EIC: 9001 NSN: 1005-01-318-6515 CND: A GRP: 9 STA: 1 NOMEN: MOUNT SOFT CAL 50 MK26 MOD 17

ITEM TOTAL: 4 ✓ (SOME OR ALL ARE UNSERIALIZED, VERIFY UNSERIALIZED ASSETS BY QUANTITY ONLY)

ACTIVITY TOTAL: 78

Encl (58)
Page 6 of 9

11-16-0 : 9:57AM : SMALL ARMS OP DEPT-

SW010-AD-GTP-010

5. OFFENSIVE HAND GRENADES.

The purpose of offensive hand grenades is to produce blast effects. Since they may project fragments over 185 meters (607 feet) from the point of explosion, these hand grenades are not used in training without the availability of adequate safety cover. See Table 9-3 for packaging and identification data.

9-5. 1. GRENADE, HAND OFFENSIVE, MK 3A1 AND MK 3A2 WITHOUT FUZE, (G910).**WARNING**

USING THIS GRENADE WITH A M206A1 FUZE WITHOUT SAFETY CLIP IS NOT AUTHORIZED.

9-5. 1. 1. Intended Use. These hand grenades, Figure 9-6, are designed and procured to be used for blast effect or demolition and produce casualties during close combat with minimum danger to friendly personnel.

9-5. 1. 2. Description. This offensive hand grenade consists of a cylindrical body of pressed fiber containing 7.36 ounces (208 grams) of TNT. The grenade shall only be assembled with the M206A2 fuze or M206A1 fuze modified with safety clip. The grenade weighs 15.6 ounces (442 grams), is 5.275 inches (13.39 centimeters) long, and is black with yellow markings.

9-5. 1. 3. Function. After assembly with M206A2 fuze, release of the safety clip and removal of the safety pin permit release of the safety lever. When the safety lever is released, it is forced away from the grenade body by a striker acting under the force of a striker spring. The striker rotates on its axis and strikes the percussion primer. The primer emits a small, intense flame, igniting the delay element. The delay element burns for 4 to 5 seconds and sets off the detonator. The detonator explodes, initiating the explosive charge. When the filler detonates, the force of the explosion is dissipated mainly in the form of shock waves rather than high-velocity fragments.

9-5. 2. GRENADE, HAND, OFFENSIVE, MK 3A2 WITH FUZE M206 SERIES (G911).**WARNING**

USING THIS GRENADE WITH A M206A1 FUZE WITHOUT SAFETY CLIP IS NOT AUTHORIZED.

9-5. 2. 1. Intended Use. This hand grenade is designed and procured to be used for blast effects or demolition and produce casualties during close combat with minimum danger to friendly personnel.

9-5. 2. 2. Description. This hand grenade resembles the Mk 3A2 Hand Grenade, Figure 9-6, in appearance, size and construction. The grenade body is a pressed fiber cylinder containing 8 ounces (226 grams) of high explosive TNT. The M206 series fuze is a pyrotechnic delay-detonating device containing a primer and a pyrotechnic delay column. Assembled to the fuze body are a striker, striker spring, safety lever, safety pin with pull ring and the detonator assembly. Attached at the top to keep the safety lever in place is a safety clip. The safety clip is a loop of spring steel wire fitted around the threaded section of the fuze and a clamp that fits over the safety lever. The grenade weighs 15.6 ounces (442 grams), is 5.275 inches (13.39 centimeters) long, has a diameter of 2.13 inches (5.41 centimeters), and is black with yellow markings.

9-5. 2. 3. Function. Release of the safety clip and removal of the safety pin permit release of the safety lever. When the safety lever is released, it is forced away from the grenade body by a striker acting under the force of a striker spring. The striker rotates on its axis and strikes the percussion primer. The primer emits a small, intense flame, igniting the delay element. The delay element burns for 4 to 5 seconds and sets off the detonator. The detonator explodes, initiating the explosive charge. When the filler detonates, the force of the explosion dissipated mainly in the form of shock waves rather than high-velocity fragments.

Encl (58)

Page 7 of 9

9-10

07-05-01 03:04 TO:

FROM:

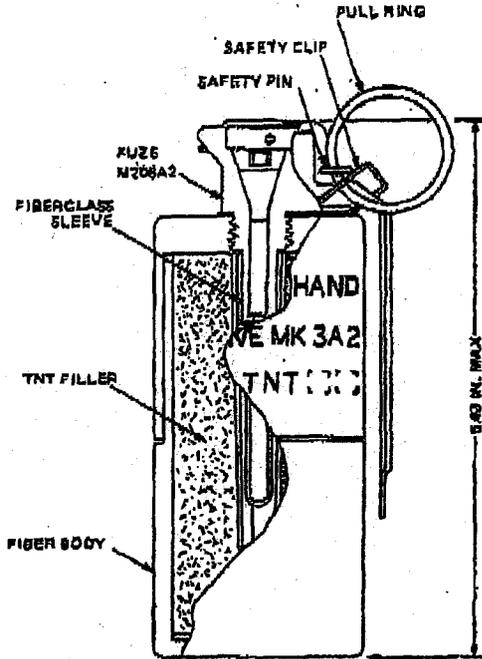


Figure 9-6. Offensive Hand Grenade Mk 3A2.

Table 9-3. Offensive Hand Grenades

| ITEM | DODIC/ NALC | PARA | NSN | Ref No. | Packaging |
|---|----------------|-------|------------------|-----------|---|
| Grenade, Hand, Offensive, Mk 3A1, W/O Fuze | G910 | 9-5.1 | 1330-00-028-5844 | 75-14-346 | 24 per wooden box |
| | G910 | 9-5.1 | 1330-00-028-5845 | 75-14-346 | 50 per wooden box |
| Grenade, Hand, Offensive, Mk 3A2 W/O Fuze | G910 | 9-5.1 | 1330-00-028-5846 | 9215458 | 50 per wooden box |
| | G910 | | 1330-00-203-4233 | 9215458 | 1 per fiber container M340, 20 containers per wooden box |
| Grenade, Hand, Offensive, Mk 3A2 W/ Fuze M206A2, W/Safety Clip | G911 | 9-5.2 | 1330-00-194-2768 | 9215458 | 1 per fiber container, 20 contain- ers per wooden box |
| Grenade, Hand, Offensive, M3A2, W/Fuze M206 Series | G911 | 9-5.2 | 1330-00-143-6807 | 9215458 | 1 per fiber container, 20 contain- ers per wooden box |

OED/C-00-011

M60 Machine Gun



| | | | |
|---|------------------|-----------------------|-----------------------------|
| Weapon Specification | | Ammunition: | |
| NSN | 1005-00-605-7710 | Individual Rounds | 100 round Bandoleers |
| Model | M60 Basic | M62, Tracer | A111 all M62 |
| Manufacturer | Saco Def. Corp | M63, Dummy | A127 mix of 4 M80 & 1 M62 |
| Caliber | 7.62mm NATO | M80, Ball | A131 mix of 4 M80 & 1 M62 |
| Mechanism type | Automatic | M80E1, Low flash ball | A143 all M80 |
| Magazine type | Bandoleer | M82, blank | A159 all M63 |
| Ammo capacity | 100 rounds | M993, Armor Piercing | A255 mix of 4 M80E1 & 1 M62 |
| Rate of fire | 550 RPM | | AA04 mix of 4 M993 & 1 M62 |
| Sustained Rate | 100 RPM | | AA35 mix of 4 M993 & 1M276 |
| Weight (empty) | 23 lbs. | Logistics: | |
| Overall length | 43.5 inches | In-service Date | 1960 |
| | | Life expectancy | 25,000 rounds |
| | | Technical Manual # | TM 9-1005-224-24P |
| | | Operator Manual # | TM 9-1005-224-10 |
| Discussion: The M60 7.62mm machine gun is a general purpose weapon capable of being fired from prone, standing and several mounts. The M60 is a watercraft, vehicle, tripod mounted or carried machine gun. | | | |
| Accessories: M13A1, BFA for M60, NSN:1005-00-140-3515, pn 12002981; Viewer Mount, NSN 5855-01-048-7272, PN SM-D-850340-1; Adapter for AN/PEQ-2, NSN 5340-01-362-9873, PN A3186952; Night Vision Sight AN/PVS-4, NSN 5855-00-629-5334 | | | |

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL

of pages **1**

| | |
|------------------------------|--|
| To LCAR | From Terry O'Brian |
| Dept./Agency | Phone # NSWC Crane |
| Fax # 318 439 3952 | Fax # NSW 482-5831 |
| NSN 7540-01-317-7368 | 5099-101 GENERAL SERVICES ADMINISTRATION |

Encl (58)
Page 9 of 9

07-05-01 04:32 TO:

FROM: 812