



MK 16 UBA Checklist

Updated Mar 2025

ADMINISTRATION

1. (MK1601) Are unit personnel qualified in the maintenance and operational use of the MK-16 Underwater Breathing Apparatus (UBA)?

Reference: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS
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2. (MK1602) Is the MK-16 UBA Diving Supervisor's checklist used?

References: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1
U.S. Navy Diving Manual

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS
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3. (MK1603) Is a rig jacket maintained for each MK-16 UBA and does it contain the following:
- a. Maintenance log sheet.
 - b. Pedigree report (Command assigned, UBA serial #, Recertification Date, Low Mu Cert, component serial numbers).
 - c. Most recent initial setup, post-dive checklist, and applicable pre & post BCD and FFM checklists.

Reference: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS
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4. (MK1604) Are Re-Entry Control (REC) sheets completed for entry into REC boundaries?

Reference: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS

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5. (MK1605) Are failure analysis reports (FAR) forwarded electronically for MK-16 Mod 0 to PMS-EOD and NAVEODTECHDIV? Are FARs for the MK-16 Mod 1 reported via the PMS-EOD website?

References: PMS-EOD 22 MEMO, Dated 09 March 2004
AIG 7603

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS

UBA HANDS ON

6. (MK1606) Is the canister lid, light green foam compression pad, canister body and hydrophobic filters free from dirt and deterioration?

Reference: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS

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7. (MK1607) Are the oxygen sensor's output voltage per PMS and service life date inscribed on the sensor and logged on the initial setup checklist?

Reference: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS
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8. (MK1608) Is the interior of the MK-16 pneumatic system, electronic System, and display cables free of dirt, corrosion, damage and deterioration? Are all screws and nuts tight?

Reference: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS
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9. (MK1609) Are the primary batteries at the proper voltage per PMS and logged on initial setup, pre-dive and post-dive checklists as applicable?

References: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1
Applicable PMS

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS
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10. (MK1610) Does the harness assembly have a proper and tight buckle? Are retainer pins and webbing free of excessive wear, dry rotting, or cuts?

References: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1
MK 11 MOD 0 O&M Manual
Applicable PMS

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS
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11. (MK1611) Are the inhalation and exhalation hoses free of damage and cracking?

References: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1
Applicable PMS

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS
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12. (MK1612) Is the T – bit/barrel valve in good working order?

References: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1

Applicable PMS

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

M48

13. (MK1613) Are there signs of cracking, tearing or general deterioration of mouthpiece, mask straps, nose clearing device or buckles?

References: Applicable PMS

E1013-01-12PCD EOD M48 Mod 0/1 Full Facemask (FFM)

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

BUOYANCY COMPENSATORS

14. (MK1614) Are the MK11 Buoyancy Compensator Device's (BCD) in good condition and operate as designed?

References: MK 11 Mod 0 USN Tech Manual

Applicable PMS

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

15. (MK1615) Are the MK 11 BCD relief valves in good condition and working as designed?

References: MK 11 Mod 0 USN Tech Manual

Applicable PMS

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

16. (MK1616) Are the MK 11 first stage regulators tested for proper output pressure (140 +/-5psi for Cobham, 110-120psi for TCI)?

Reference: Applicable PMS

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

CYLINDERS

17. (MK1617) Are Inconel bottles properly identified as to their gas content?

Reference: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

18. (MK1618) Are the Inconel bottles hydrostatically tested (every 5 years) and Objective Quality Evidence (OQE) kept on file?

Reference: Applicable PMS

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

19. (MK1619) Are the MK 11 inflation bottles and Inconel bottles hydrostatically tested (every 5 years) and is the OQE kept on file?

Reference: Applicable PMS

C R NA UA

- ☐ Repeat
 - ☐ Significant
 - ☐ PMS
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OXYGEN (O2) SYSTEMS

20. (MK1620) Are O2 Safe Area procedures and precautions posted and observed?

Reference: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

21. (MK1621) Is the O2 Safe Area clearly marked: "Restricted - O2 Safe Area", "No smoking, eating or drinking"?

References: MIL-STD-1330
OPNAVINST 5100.19F
OPNAVINST 5100.23H

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

22. (MK1622) Are all tools and parts clean and designated for "O2 use only"?

References: MIL-STD-1330
TIP 18-0005

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

23. (MK1623) Are only approved lubricants used?

References: NSTM 670
Applicable PMS

C R NA UA

- ☐ Repeat
 - ☐ Significant
 - ☐ PMS
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OXYGEN TRANSFER PUMP

24. (MK1624) Are Operating and Emergency Procedures (OPs/EPs) for the oxygen transfer pump assembly (OTPA) available and in use?

Reference: NAVSEA SS600-A6-MMO-010

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS
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25. (MK1625) Are the oxygen pressure gauges calibrated, and results kept on file?

Reference: Applicable PMS

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS
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26. (MK1626) Are the relief valves tested every 36 months? Are tags in place with correct number, lifting pressure, date tested and testing activity and are the results kept on file?

Reference: Applicable PMS

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS
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27. (MK1627) Are flexible charging hoses proof tested prior to initial Installation and tagged as required? Is the OQE kept on file?

References: NAVSEA S6430-AE-TED-010

Applicable PMS

C R NA UA

- ☐ Repeat
☐ Significant
☐ PMS
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28. (MK1628) Do all flexible hoses have a proper strain relief device attached?

Reference: U.S. Navy Diving Manual

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

29. (MK1629) Are Re-Entry Control (REC) procedures for the OTPA followed and is the REC log maintained as required? If contracted out, are the work packages retained and PMS documented?

Reference: Applicable PMS

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

SODASORB/CO2 ABSORBENT

30. (MK1630) Is the carbon dioxide (CO2) absorbent within its shelf life? If absorbent bucket is open (30 days) or stored (with charged pressure vessels and charged canister) up to 14 days prior to diving.

Reference: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

31. (MK1631) Is either an outside or a well-ventilated area available for filling CO2 scrubber canisters with CO2 absorbent?

References: OPNAVINST 5100.19F
OPNAVINST 5100.23H

C R NA UA

- ☐ Repeat
 - ☐ Significant
 - ☐ PMS
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32. (MK1632) Is personal protective equipment (gloves, filter mask, face shield) available to personnel when filling CO2 scrubber cannisters?

References: NAVSEA SS600-AQ-MMO-010, MK-16 MOD 1

OPNAVINST 5100.19F

OPNAVINST 5100.23H

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

MAINTENANCE

33. (MK1633) Is the MK16 UBA and all required equipment "Low MU" certified? Are the test results on file?

Reference: Applicable PMS

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

34. (MK1634) Are dive computers calibrated as required?

Reference: Applicable PMS

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

35. (MK1635) Are comparative accuracy checks performed on the oxygen and diluent pressure indicators every 24 months?

Reference: Applicable PMS

C R NA UA

- ☐ Repeat
 - ☐ Significant
 - ☐ PMS
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36. (MK1636) Is maintenance and comparative accuracy tests performed on Diver Timer Depth Gauges?
Are results kept on file?

Reference: Applicable PMS

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

37. (MK1637) Is a multi-meter available to conduct primary battery voltage tests?

Reference: Applicable PMS

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

38. (MK1638) Is the Volt/OHM Meter METCAL data available for review?

Reference: NAVSEA OD 45845 Metrology Requirement List (METRL)

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

39. (MK1639) Are torque wrenches calibrated per local requirements and documented?

References: COMUSFLTFORCOMINST 4790.3D
Applicable PMS

C R NA UA

- ☐ Repeat
 - ☐ Significant
 - ☐ PMS
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40. (MK1640) Has all situational maintenance to include hygienic maintenance being performed on the pods and rebreather hoses? Are the authorized solutions used per the PMS card? Is the maintenance documented in SKED.

Reference: Applicable PMS

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

41. (MK1641) Is any equipment that is out of commission, out of maintenance periodicity, or otherwise unsafe, tagged out to prevent use?

References: OPNAVINST 5100.23H
OPNAV M-5100.23
S 0400-AD-URM-010/TUM
OPNAVINST 3150.27D

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

42. (MK1642) Is a Preventive Maintenance System (PMS) program implemented for all diving and diving support equipment? If not, has a feedback report been submitted for all equipment not covered?

References: OPNAVINST 3120.32D
NAVSEAINST 4790.8D
U.S. Navy Diving Manual

C R NA UA

- ☐ Repeat
 - ☐ Significant
 - ☐ PMS
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43. (MK1643) Is diving equipment serialized for tracking in SKED? Is the equipment appropriately listed in SKED on single line items?

Reference: NAVSEAINST 4790.8D

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

44. (MK1644) Is maintenance correctly anchored for periodicity in SKED or tracked on a separate document (I.E. excel spread sheet, status board)?

Reference: NAVSEAINST 4790.8D

C R NA UA

- ☐ Repeat
- ☐ Significant
- ☐ PMS

45. (MK1645) Is the command tracking and in compliance with all active AIGs and/or ISEA notes pertaining to the equipment in use?

Reference: NAVSEA 00C Guidance

C R NA UA

- ☐ Repeat
 - ☐ Significant
 - ☐ PMS
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MK16 UBA

COMMAND NAME:

LOCATION:

UIC:

DATE:

SURVEYOR(S):

NO. COMPLETE:

NO. REQ ACTION:

NOT APPLICABLE: