### 1.0 BUOYANCY COMPENSATORS

**General Notes**

(1): LIFE PRESERVERS AND BUOYANCY COMPENSATORS BOTH PROVIDE EMERGENCY ASCENT CAPABILITY. LIFE PRESERVERS ARE DESIGNED TO FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE AND ARE MANDATORY FOR CERTAIN SEMI CLOSED AND CLOSED-CIRCUIT UBAs (MK16 AND LAR V). BUOYANCY COMPENSATORS (WITHOUT COUNTERWEIGHTS) ARE DESIGNED TO FLOAT AN UNCONSCIOUS DIVER ON THE SURFACE IN A HEADS UP VERSUS A FACE UP POSITION AND CAN BE USED IN SCUBA APPLICATIONS. USE OF COUNTERWEIGHTS IN AN APPROVED BUOYANCY COMPENSATOR WILL FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE. USE OF A BUOYANCY COMPENSATOR WITH OR WITHOUT COUNTERWEIGHTS IS AT THE DISCRETION OF THE DIVING SUPERVISOR. LISTED BUOYANCY COMPENSATORS ARE NOT APPROVED FOR USE AS A LIFE PRESERVER REGARDLESS OF WHETHER COUNTER BALANCE WEIGHTS ARE UTILIZED OR NOT. FOR MORE INFORMATION REFER TO THE U.S. NAVY DIVE MANUAL, SS521-AG-PRO-010.

(2): BUOYANCY COMPENSATORS PREVIOUSLY LISTED ON THE ANU WERE TESTED UNDER LIFE PRESERVER CRITERIA AND SHOULD BE USED IN THEIR TESTED AND APPROVED CONFIGURATION. MODIFICATION OF PREVIOUSLY APPROVED BUOYANCY COMPENSATORS IS NOT AUTHORIZED. WHEN ORDERING BUOYANCY COMPENSATORS & LIFE PRESERVERS, PART NUMBERS SHOULD BE USED IN CONJUNCTION WITH THE DESIGNATION/MODEL IN ORDER TO RECEIVE THE CONFIGURATION THAT WAS TESTED AND AUTHORIZED FOR USE.

(3): THIS BUOYANCY COMPENSATOR HAS BEEN TESTED AND APPROVED FOR USE WITH BOTH SINGLE AND TWIN TANK CONFIGURATIONS.

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<td>1.0.1</td>
<td>BUOYANCY COMPENSATOR</td>
<td>VARIOUS</td>
<td>VARIOUS</td>
<td>General Notes: (1) (2) Apply. THE BUOYANCY COMPENSATOR MUST MEET ALL OF THE FOLLOWING REQUIREMENTS: (1) PROVIDE A MINIMUM OF 10 LBS POSITIVE BUOYANCY AT MAXIMUM DEPTH (2) FOR INTEGRATED WEIGHTS SYSTEMS THEY MUST BE DITCHABLE (3) POWER INFLATOR (4) HAVE AN ALTERNATIVE SOURCE OF INFLATION E.G. ORAL. THE MANUFACTURER'S LITERATURE MAY BE USED AS VERIFICATION OF POSITIVE BUOYANCY REQUIREMENT. COMMANDS ARE AUTHORIZED TO PURCHASE ANY BCD WHICH MEETS THESE REQUIREMENTS. NOTE: BCD POWER/ORAL INFLATORS WITH INTEGRATED 2ND STAGE REGULATOR ARE NOT AUTHORIZED FOR USE.</td>
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<td>1.0.1</td>
<td>BUOYANCY COMPENSATOR</td>
<td>COBHAM MISSION SYSTEMS (FORMERLY CARLETON TECHNOLOGIES INC.)</td>
<td>MK11 MOD 0 PN B50800</td>
<td>General Notes: (1) (2) Apply. AUTHORIZED FOR USE WITH THE MK16 MOD 0 AND MOD 1 UBAS WITH AN APPROVED FULL FACE MASK TO 300 FSW. THE LUXFER 6.2 CUFT ALUMINUM SCUBA CYLINDER AND AQUA LUNG 3KSI MINI PRESSURE GAUGE (PN 102810) IS AUTHORIZED FOR USE WITH THE MK11 AS AN ALTERNATE INFLATION SOURCE WHEN CONDUCTING TRAINING OR NON-INFLUENCE ORDINANCE DIVING OPERATIONS.</td>
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* Admin Comments : Unknown - BCDs models/names and configurations are changing. 9/17/14 - Added not to clarify that inflators with integrated 2nd stage regulator is not authorized (this regulator has not been tested). Updated on: 9/17/2014 3:39:00 PM

* Admin Comments : 10/31/02 - Added to the
1.1 LIFE PREServers

**General Notes**

(1): LIFE PRESERVERS AND BUOYANCY COMPENSATORS BOTH PROVIDE EMERGENCY ASCENT CAPABILITY. LIFE PRESERVERS ARE DESIGNED TO FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE AND ARE MANDATORY FOR CERTAIN SEMI CLOSED AND CLOSED-CIRCUIT UBAs (MK16 AND MK 25/LAR V). BUOYANCY COMPENSATORS (WITHOUT COUNTERWEIGHTS) ARE DESIGNED TO FLOAT AN UNCONSCIOUS DIVER ON THE SURFACE IN A HEADS UP VICE A FACE UP POSITION AND CAN BE USED IN SCUBA APPLICATIONS. USE OF COUNTERWEIGHTS IN AN APPROVED BUOYANCY COMPENSATOR WILL FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE. USE OF A BUOYANCY COMPENSATOR WITH OR WITHOUT COUNTERWEIGHTS IS AT THE DISCRETION OF THE DIVING SUPERVISOR. FOR FURTHER INFORMATION REFER TO THE U.S. NAVY DIVE MANUAL, SS521-AG-PRO-010.

(2): BUOYANCY COMPENSATORS PREVIOUSLY LISTED ON THE ANU WERE TESTED UNDER LIFE PRESERVER CRITERIA AND SHOULD BE USED IN THEIR TESTED AND APPROVED CONFIGURATION. MODIFICATION OF PREVIOUSLY APPROVED BUOYANCY COMPENSATORS IS NOT AUTHORIZED.

(3): WHEN ORDERING BUOYANCY COMPENSATORS & LIFE PRESERVERS, PART NUMBERS SHOULD BE USED IN CONJUNCTION WITH THE DESIGNATION/MODEL IN ORDER TO RECEIVE THE CONFIGURATION THAT WAS TESTED AND AUTHORIZED FOR USE.

(4): CO2 CARTRIDGES SHALL BE SELECTED IN ACCORDANCE WITH OEM RECOMMENDATIONS.

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<tr>
<td>BUOYANCY COMPENSATOR</td>
<td>SEATEC</td>
<td>MILITARY SUNFISH, PRO BLACK CORDURA W/ INFLATOR PN 1040.08 PN 1040.09</td>
<td>General Notes: (1) (2) (3) (4) Apply. AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. CHROME-PLATED BRASS INSERT (PN 2002-135) IS USED TO REPLACE PLASTIC INSERT (PN 2002-13) FOR THE INFLATOR MECHANISM. Updated on: 2/20/2015 9:59:00 AM</td>
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<tr>
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<td>SONIFORM INC.</td>
<td>SF-1044 (FRONT MOUNTED)</td>
<td>General Notes: (1) (2) (3) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. * Admin Comments : 6/11/10 - Soniform acquired by SCUBAPRO in 1997. Updated on: 8/8/2012 8:00:00 AM</td>
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<td>SCUBAPRO</td>
<td>MILITARY CLASSIC NT BLACK, JACKET TYPE PN 21-341-X00 * X00 DENOTES SIZE AND WILL VARY</td>
<td>General Notes: (1) (2) (3) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. * Admin Comments : 7/14/09 - Last manufactured Dec 1998. Updated on: 8/8/2012 8:01:00 AM</td>
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<td>AQUA LUNG</td>
<td>MILITARY YOKE STYLE</td>
<td>General Notes: (1) (2) (3) (4)</td>
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<td>1.1.5</td>
<td>CAT I Active</td>
<td>BUOYANCY COMPENSATOR</td>
<td>DRAEGER</td>
<td>SHADOW LIFE VEST MK 7 MOD 0 PN 4056304</td>
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<td>1.1.6</td>
<td>CAT I Active</td>
<td>LIFE PRESERVER, LOW MAGNETIC SIGNATURE</td>
<td>DRAEGER</td>
<td>SHADOW LIFE VEST 806LM (MK 6 MOD 0) PN 4053603</td>
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<td>1.1.7</td>
<td>CAT I Active</td>
<td>LIFE PRESERVER</td>
<td>AQUA LUNG</td>
<td>FENZY X-4 FENZY M-4 (OLD)</td>
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<td>1.1.8</td>
<td>CAT I Inactive</td>
<td>LIFE PRESERVER</td>
<td>SONIFORM INC.</td>
<td>MK 4 PN 5050-000 OR DWG# 592-6383528-1</td>
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**General Notes:**
1. (1) (2) (3) (4) Apply. MAGNETIC VERSION, AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. CONFIGURED WITH AIR INFLATION CYLINDERS.
2. MK 6 MOD 0 IS THE NEW DESIGNATION FOR MODEL 806LM. CONFIGURED FOR CO2 CARTRIDGES ONLY.
3. FENZY M-4 NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.
4. AUTHORIZED TO 190 FSW.
5. AUTHORIZED REPLACEMENT FOR THE FENZY LIFE PRESERVER CYLINDER IS STEEL FENZY CYLINDER W/ VALVE(PN 850230). CYLINDERS WITH AGS (9283) WHICH DO NOT HAVE THE MARKS ARS OR APL ON THE SIDE MAY BE USED UNTIL THEY ARE 10 YEARS OLD.
6. AUTHORIZED TO 200 FSW FOR MK16 OPERATIONS.
7. AUTHORIZED TO 190 FSW FOR SPECWAR MK 16 UBA AND OPEN CIRCUIT SCUBA OPERATIONS. FOR SPECWAR MK 16 UBA AND OPEN CIRCUIT SCUBA OPERATIONS FOUR (4) 25-28 MIL-C-25369 TYPE I CARTRIDGES (9C 4220-00-372-0585) MAY BE USED IN LIEU OF FOUR (4) 30-34 GRAM CARTRIDGES.
8. SONIFORM PNEUMATIC INFLATOR MAY BE USED TO CONVERT THE LIFE PRESERVER TO A BUOYANCY COMPENSATOR.

**Admin Comments:**
- 12/21/10 - Removed references to EOD MK15 EOD operations (MK15 no longer used, mk4 no longer used by EOD).
AUTHORIZED TO 130 FSW WHEN USED WITH TWO 38 GRAM CO2 CARTRIDGES.

TO ENSURE THAT THE LIFE JACKET DOES NOT OVER INFLATE AT DEPTHS SHALLOWER THAN 33 FSW, PULL ONE ACTUATOR AT A TIME.

THE RUBBER SLEEVE CHECK VALVE SERVES NO USEFUL PURPOSE AND SHALL BE REMOVED PERMANENTLY FROM THESE LIFE PRESERVERS.

THE MODIFIED UDT IS AUTHORIZED WITH ROBERT’S VALVE 840AM (NSN 9C 4220-01-356-8233) /AMS (NSN 9C 4220-01-457-1288) IN CONJUNCTION WITH SEATEC CO2 CARTRIDGE 9C-4220-01-045-5645 SMR PART NUMBER: 5SV1049, OLD B.F. GOODRICH NUMBER: 82-63-1013-02-1

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<td>1.1.10</td>
<td>LIFE PRESERVE</td>
<td>DRAEGER</td>
<td>SECUMAR TSK 2/42 LIFE JACKET PN 4056590 (W/O CYL ASSY)</td>
<td>General Notes: (1) (2) (3) (4) Apply. AUTHORIZED FOR USE WITH LAR V ONLY, MAXIMUM DEPTH OF 50 FSW. IAW NEDU TL 10-05 3963/TM01-13, SR 03/132 DTD 02 JULY 2010, THE MAX ALLOWABLE FIXED WEIGHT OF ACCESSORY GEAR SHALL NOT BE MORE THAN 13.1 LBS FOR MK 25 MOD 2.</td>
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<td>1.1.11</td>
<td>LIFE PRESERVE</td>
<td>MUSTANG SURVIVAL</td>
<td>UDT LIFE VEST MUSTANG PN MD1122</td>
<td>General Notes: (1) (2) (3) (4) Apply. AUTHORIZED FOR SURFACE SWIMMING AND FOR SCUBA TO 33 FSW ONLY.</td>
</tr>
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<td>1.1.12</td>
<td>BUOYANCY COMPENSATOR</td>
<td>SCUBAPRO</td>
<td>SEAHAWK MODEL 21.411</td>
<td>General Notes: (1) (2) (3) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES.</td>
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<td>1.1.13</td>
<td>BUOYANCY JACKET</td>
<td>AQUA LUNG</td>
<td>ATLANTIS</td>
<td>General Notes: (1) (2) (3) (4)</td>
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**CAT I Active**

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<td>1.1.14</td>
<td>LIFE PRESERVER, COMNAVSEASYSCOM CONTROLLED ITEM</td>
<td>AQUA LUNG</td>
<td>COMBAT SWIMMER ASSAULT VEST (CSAV) PN 769100 (M/L) PN 769104 (L/XL)</td>
<td>Apply: AUTHORIZED FOR USE WITH THE MK-25 TO A MAXIMUM DEPTH OF 50 FSW. AUTHORIZED FOR USE WITH SCUBA TO A MAXIMUM DEPTH OF 190 FSW WHEN EQUIPPED WITH POWER INFLATOR (OPEN CIRCUIT KIT, PN 394091). IAW NEDU TL 10-05 3963/TA01-13, SER 03/132 DTD 02 JULY 2010, THE MAX ALLOWABLE FIXED WEIGHT OF ACCESSORY GEAR SHALL BE NO MORE THAN 18.3 LBS FOR SCUBA &amp; 17.8 LBS FOR MK 25 MOD 2. CONTAINMENT COLLAR, PN 762961. AUTHORIZED FOR USE. FOLLOW OEM PROCEDURES WHEN INSTALLED TO ENSURE THE LIFE PRESERVER CAN STILL BE FULLY ORALLY INFLATED PRIOR TO USE. * Admin Comments : 12/21/10 - Added notations IAW NEDU TL 10-05 3963/TA01-13, Ser 03/132 dtd 02 July 2010. 2/23/2015 - Authorized use of Containment Collar, PN 762961. Updated on: 2/23/2015 1:28:00 PM</td>
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### General Notes:
1. (3) (4) Apply. AUTHORIZED FOR USE WITH THE MK-25 TO A MAXIMUM DEPTH OF 50 FSW WITH 8 LB WEIGHT IN THE NONDETA�HABLE LOWER BACK POUCH AND AN 8 LB WEIGHT IN DETACHABLE POUCHES MOUNTED AS LOW AND FAR REARWARD ON THE VEST AS POSSIBLE.
2. AUTHORIZED FOR USE WITH THE MK-16 MOD 0/1 TO A MAXIMUM DEPTCH OF 300 FSW. AT DEPTHS GREATER THAN 150 FT, TWO INFLATION CYLINDERS WITH A TOTAL COMBINED GAS CAPACITY OF AT LEAST 6.0 CUFT MUST BE INSTALLED.
3. AUTHORIZED FOR USE WITH SCUBA TO A MAXIMUM DEPTH OF 190 FSW.
4. APPROVED FOR USE WITH LOW PRESSURE INFLATION SYSTEM (PN 108615).
5. IAW NEDU TL 10-05 3963/TA01-13, SER 03/132 DTD 02 JULY 2010, THE MAX ALLOWABLE FIXED WEIGHT OF ACCESSORY GEAR SHALL BE NO MORE THAN 17.7 LBS FOR SCUBA, 17.2 LBS FOR MK 25 MOD 2, & 5.5 LBS FOR MK 16.
6. NAVAL SEA SYSTEMS COMMAND CONTROLLED ITEM UNDER COMNAVSEASYSCOM PMS NSW COGNIZANCE

* Admin Comments : 6/16/09 - Manufacturer POC updated. 12/21/10 - Added IAW NEDU TL 10-05 3963/TA01-13, SER 03/132 dtd 02 July 2010. 08/09/2012 - LPIS approved for use with the CSAV. Updated on: 2/20/2015 10:00:00 AM |

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<td>1.1.15</td>
<td>LIFE PRESERVER, MARCORSYSCOM CONTROLLED ITEM</td>
<td>AQUA LUNG</td>
<td>COMBATANT DIVER VEST (CDV) PN 769171 (W/ CYL) PN 769176 (W/O CYL)</td>
<td>General Notes: (1) (3) (4) Apply. USMC VERSION OF THE CSAV (#1.1.14). AUTHORIZED FOR USE WITH THE MK-25 TO</td>
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https://secure.supsalv.org/anu/common/displayAll.asp
A MAXIMUM OF 50 FSW WITH 8 LB WEIGHT IN THE NONDETACHABLE LOWER BACK POUCH AND AN 8 LB WEIGHT IN DETACHABLE OUCHES MOUNTED AS LOW AND AS FAR REARWARD ON THE VEST AS POSSIBLE.

AUTHORIZED FOR USE WITH SCUBA TO A MAXIMUM DEPTH OF 190 FSW.

IAW NEDU TL 10-05 3960/TA01-13. SER 03/132 DTD 02 JULY 2010, THE MAX ALLOWABLE FIXED WEIGHT OF ACCESSORY GEAR SHALL BE NO MORE THAN 17.7 LBS FOR SCUBA & 17.2 LBS FOR MK 25 MOD 2.

CONTROLLED ITEM UNDER MARCORSYSCOM COGNIZANCE.

* Admin Comments : 11/10/09 - Added to the AMU list.
07/17/12 - Added IAW NEDU TL 10-05 3963/TA01-13, SER 03/132 dtd 02 July 2010

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| 1.1.16 | LIFE PRESERVER | AQUA LUNG | SAR-0484-00 | General Notes: (1) (3) (4) Apply. FOR USE BY NDSTC AS ANCILLARY DIVING EQUIPMENT (SCUBA/UBA LIFE PRESERVER) IN THE NDTSC POOL ONLY. NOT INTENDED TO BE USED AS A BUOYANCY COMPENSATOR.

NOT AUTHORIZED FOR OPEN-WATER DIVING. USE AS A LIFE PRESERVER NOT ASSOCIATED WITH DIVING OPERATIONS IS OUTSIDE THE SCOPE OF THIS ANU LIST.

* Admin Comments : 5/27/14 - Added to AMU List

Updated on: 3/10/2017 10:28:00 AM

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| 1.1.17 | DIVE-ABLE PLATE CARRIER | FIRST SPEAR LLC | AEGIR-38 | General Notes: (1) (3) (4) Apply. PLATE CARRIER WITH INTEGRATED BUOYANCY COMPENSATOR AND LIFE PRESERVER.

AUTHORIZED FOR USE WITH AAC FROG UBA STRAP KIT

AUTHORIZED FOR USE WITH AAC INSTANT ADJUSTABLE BACK PANEL

AUTHORIZED FOR USE BY SOF COMMANDS WITH CC-UBA ONLY TO A DEPTH OF 50 FSW.

FOR MAINTAINING SPARES OF THE CUMERBUND TACTICAL AID TO FLOTATION (CTAF), THE SPECIFIC PN TO ORDER IS 300-15-00450.

* Admin Comments : 12/1/2014 - Added to AMU List

8/2/2016 - Added AAC FROG UBA STRAP KIT & AAC INSTANT ADJUSTABLE BACK PANEL

Updated on: 9/27/2016 8:33:00 AM

1.2 CYLINDERS, MANIFOLDS AND BACKPACKS, SCUBA
**General Notes**

(1): COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE SCUBA CYLINDERS THAT MEET DOT SPECIFICATION TYPE 3AA OR 3AL, OR HAVE A DOT ISSUED SPECIAL PERMIT AUTHORIZING THEIR USE UNDERWATER. THE MINIMUM CYLINDER CAPACITY FOR A PRIMARY AIR SOURCE SHALL BE 50 CUFT AT RATED PRESSURE. DO NOT CHARGE A CYLINDER BEYOND THE LOWEST RATED COMPONENT IN THE SYSTEM IT IS TO BE USED WITH (E.G. IF USING A SCUBA YOKE STYLE 1ST STAGE REGULATOR THAT IS RATED FOR 3,000 PSIG DO NOT CHARGE THE CYLINDER ABOVE 3,000 PSIG EVEN IF THE CYLINDER IS RATED FOR A HIGHER PRESSURE).

(2): COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE SCUBA CYLINDER BACKPACKS, CYLINDER BANDS AND HARNESSES. THEY SHALL BE MAINTAINED IAW CURRENT PMS, AND MANUFACTURERS SPECIFICATIONS.

(3): COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE SCUBA CYLINDER MANIFOLDS AND VALVES. MANIFOLDS, VALVES, AND RELIEF VALVE MECHANISMS SHALL BE PROPERLY MATCHED TO CYLINDERS WORKING PRESSURE TO ENSURE THE RELIEF VALVE (BLOW OUT PLUG) IS THE WEAKEST POINT IN THE SYSTEM.

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<td>VARIOUS</td>
<td>DOT SPEC TYPE 3AL, 3AA, OR DOT SPECIAL PERMIT</td>
<td>General Notes: (1) (2) (3) Apply. DOT SPECIAL PERMIT SHALL SPECIFY CYLINDER FOR USE IN UNDERWATER APPLICATIONS OR COMPLIANCE WITH DOT 3AA OR 3AL. * Admin Comments : 2/18/2015 - Changed to cover all cylinder and assembly configurations under one category item. Updated on: 9/26/2016 9:44:00 AM</td>
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<td>1.2.18</td>
<td>CAT I</td>
<td>LUXFER</td>
<td>S-19 (19 CUFT)</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. THESE FLASKS MAY BE USED WITH MK 20 OR MK 21 TO 60 FEET OF SEA WATER IN SITUATIONS WHERE ENCLOSED SPACE DIVING OR SALVAGE IS NOT BEING CONDUCTED. THE EXPECTED DURATIONS OF THE CYLINDERS AT 60 FSW IS FIVE MINUTES FOR THE 19 CUBIC FOOT (S-19), AND SEVEN MINUTES FOR THE 30 CUBIC FOOT (S-30). Updated on: 9/13/2012 1:15:00 PM</td>
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<tr>
<td>1.2.19</td>
<td>CAT I</td>
<td>SHERWOOD</td>
<td>AL0030 (30 CUFT)</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. THIS FLASK MAY BE USED WITH MK 20 OR MK 21 TO 60 FEET OF SEA WATER IN SITUATIONS WHERE ENCLOSED SPACE DIVING OR SALVAGE IS NOT BEING CONDUCTED THE EXPECTED DURATION OF THE CYLINDERS AT 60 FSW IS SEVEN MINUTES FOR THE 30 CUBIC FOOT (AL0030). Updated on: 9/13/2012 1:16:00 PM</td>
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**1.3 REGULATORS, COLD WATER SERVICE**

**General Notes**

(1): AUTHORIZED TO 190 FSW FOR GENERAL SERVICE AND IN WATER TEMPERATURES BELOW 38ºF, PER THE U.S. NAVY DIVE MANUAL, SS521-AG-PRO-010.
(2): FIRST STAGE REGULATORS SHALL BE EQUIPPED WITH AN ANTIFREEZE CAP AS REQUIRED BY THE MANUFACTURER FOR COLD WATER USE. CORRECT MAINTENANCE AND APPLICATION OF AN APPROVED LUBRICANT TO THE APPROPRIATE POINTS ARE ESSENTIAL TO SAFE COLD WATER OPERATIONS. PER THE U.S. NAVY DIVE MANUAL, SS521-AG-PRO-010, EXTRA PRECAUTIONS SHALL ALSO BE TAKEN TO ENSURE SCUBA CYLINDERS ARE COMPLETELY DRY INSIDE, THAT MOISTURE-FREE AIR IS USED AND THAT THE REGULATOR IS THOROUGHLY DRIED PRIOR TO USE.

(3): A COLD WATER APPROVED OCTOPUS SHALL ALSO BE FITTED TO THE 1ST STAGE OF ALL COLD WATER REGULATOR SYSTEMS.


(5): REGULATORS FOR USE IN SURFACE-SUPPLIED EMERGENCY GAS SUPPLIES (EGS) CONFIGURATIONS SHALL BE APPROVED FOR THE OPERATIONAL ENVIRONMENT IN WHICH THEY WILL BE USED. SPECIAL ATTENTION SHOULD BE MADE FOR COLD WATER APPLICATIONS AND THE ANU REGULATOR'S ASSOCIATED TEMPERATURE LIMITATIONS.

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<th>Designation/Model</th>
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<td>1.3.8</td>
<td>8</td>
<td>CAT I Active</td>
<td>FULL FACE MASK &amp; COLD WATER REGULATOR</td>
<td>INTERSPIRO MK 20 MOD 0</td>
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<td>1.3.13</td>
<td>3</td>
<td>CAT I Active</td>
<td>COLD WATER REGULATOR</td>
<td>POSEIDON XSTREAM DEEP MK3 Assembly PN: 0100-000 1st Stage PN: 0110-000 2nd Stage PN: 0120-000 Octopus PN: 0100-003 Yoke Adapter PN: 2920</td>
</tr>
<tr>
<td>1.3.16</td>
<td>6</td>
<td>COLD WATER REGULATOR</td>
<td>MARES ABYSS 22 NAVY II</td>
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</table>
### 1.3.1 SCUBA ISOLATOR VALVE

**Manufacturer:** Zeagle

**Designation/Model:** Isolator Valve PN 330-0233

**Comments:**

- General Notes: (1) Apply. FOR USE IN BETWEEN THE INTERMEDIATE PRESSURE HOSE AND AN ANU APPROVED 2ND STAGE REGULATOR (PRIMARY AND OCTOPUS) AS A MEASURE TO PREVENT FREE FLOW, ESPECIALLY IN SWIFT AND COLD WATER ENVIRONMENTS.
- IF DIVING PRIMARY AND OCTO ON INDEPENDENT 1ST STAGES, A LOW PRESSURE RELIEF IS REQUIRED ON EACH 1ST STAGE.

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<tr>
<td>1.3.17</td>
<td>SCUBA ISOLATOR VALVE</td>
<td>Zeagle</td>
<td>ISOLATOR VALVE PN 330-0233</td>
<td>General Notes: (1) Apply. FOR USE IN BETWEEN THE INTERMEDIATE PRESSURE HOSE AND AN ANU APPROVED 2ND STAGE REGULATOR (PRIMARY AND OCTOPUS) AS A MEASURE TO PREVENT FREE FLOW, ESPECIALLY IN SWIFT AND COLD WATER ENVIRONMENTS. THE ISOLATION VALVE MITIGATES THE CONSEQUENCES OF A FREE FLOW EVENT AT THE 2ND STAGE BY ALLOWING THE DIVER TO SECURE AIR TO THE FREE-FLOWING REGULATOR, CONSERVING THE REMAINING AIR SOURCE. ONCE THE FREE-FLOWING REGULATOR IS PROPERLY SECURED, THE DIVER CAN UTILIZE THE OCTOPUS REGULATOR WITHOUT THE RISK OF RAPIDLY DEPLETING THE REMAINING AIR. IF DIVING PRIMARY AND OCTO ON INDEPENDENT 1ST STAGES, A LOW PRESSURE RELIEF IS REQUIRED ON EACH 1ST STAGE.</td>
</tr>
</tbody>
</table>

### 1.4 REGULATORS, GENERAL SERVICE

**General Notes**

(1): AUTHORIZED TO 190 FSW AND IN 38° FAHRENHEIT WATER AND WARMER PER THE U.S. NAVY DIVE MANUAL (SS521-AG-PRO-010).


(3): REGULATORS FOR USE IN SURFACE-SUPPLIED EMERGENCY GAS SUPPLIES (EGS) CONFIGURATIONS SHALL BE APPROVED FOR THE OPERATIONAL ENVIRONMENT IN WHICH THEY WILL BE USED. SPECIAL ATTENTION SHOULD BE MADE FOR COLD WATER APPLICATIONS AND THE ANU REGULATOR'S ASSOCIATED TEMPERATURE LIMITATIONS.

<table>
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</thead>
<tbody>
<tr>
<td>1.4.9</td>
<td>GENERAL SERVICE REGULATOR</td>
<td>Aqualung</td>
<td>Conshelf XIV PN 1081-00 (1st/2nd Stage Assembly) PN 1085-20 (Octopus)</td>
<td>General Notes: (2) Apply. AUTHORIZED TO 190 FSW AND IN 50°F WATER AND WARMER. WITH THE INCLUSION OF AN ISOLATION VALVE (ANU ITEM 1.3.17), THIS REGULATOR IS AUTHORIZED TO 190 FSW IN 38 Deg F WATER AND WARMER. BOX BOTTOM PART NUMBERS 1085-50 OR 1049-22</td>
</tr>
</tbody>
</table>
AUTHORIZED.

FOURTH PORT ADDED TO THE 1ST STAGE; THREE PORT VERSION OF THE 1ST STAGE NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. WILL CONTINUE TO BE SUPPORTED BY THE MANUFACTURER.

AUTHORIZED FOR USE WITH NITROX WITH THE AQUALUNG NITROX SERVICE KITS PN 108595 (1ST STAGE) AND PN 108596 (2ND STAGE). IAW THE DIVE MANUAL, SCUBA REGULATORS DESIGNATED FOR NITROX USE SHALL BE CLEANED AND MAINTAINED IAW MIL-STD-1330.

FOR CONVERTING THE CONSEHLF XIV SUPREME TO THE STANDARD CONSEHLF XIV, REFER TO AQUA LUNG TECH BULLETIN 15-001a at: http://www.aqualung.com/militaryandprofessional/techlib.html

APPROVED FOR USE UP TO 230 BAR (3335 PSI)

* Admin Comments : 10/29/09 - 4th port version of the Conshelf XIV 1st stage Approved for Navy Use.
12/1/2014 - Added note authorizing use for nitrox.
6/5/15 - Corrected part number for 2nd stage Nitrox service kit.
8/26/2015 - Added Octopus. Added note for restricting to 50 deg water and warmer.
9/14/15 - Added Tech Bulletin 15-001a
10/27/15 - Added note allowing use with isolator valve down to 38 DEG F.

Updated on: 3/30/2017 3:01:00 PM

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<th>Designation/Model</th>
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</table>
| 1.4.19 | REGULATOR, DOUBLE HOSE | AQUA LUNG | MENTOR DOUBLE HOSE PN 1085-55 | General Notes: (2) Apply. FOR SOF NAVY SPECWAR TRAINING ONLY AT NAVAL SPECIAL WARFARE TRAINING CENTER (NSWC) FOR MK 25 CONFIDENCE TRAINING IN THE 25 FT FRESH WATER POOL. ONLY APPROVED IAW NEDU TL 01-06 & TL 12-08.
IAW NEDU TL 01-06, THE "TOP" OF THE FIRST STAGE OF THE REGULATOR SHOULD BE CLEARLY MARKED BY NSWC TO ENSURE THAT IT IS CORRECTLY INSTALLED ON THE SCUBA CYLINDER MANIFOLD AND THAT THE INHALATION HOSE IS ROUTED OVER THE DIVER'S RIGHT SHOULDER.
AUTHORIZED FOR USE WITH REPLACEMENT HOSES (PN 108563). AUTHORIZED FOR USE WITH ALTERNATIVE CLAMPS THAT MEET THE FOLLOWING SPECS: .18-.275 WIDTH, 8" LENGTH, 50 LBS TENSILE STRENGTH, U/V RESISTANT. TWO CLAMPS PER HOSE SHALL BE USED ON THE REGULATOR END AND ONE CLAMP PER HOSE ON THE MOUTHPIECE END (6 TOTAL). |

* Admin Comments : 08/21/12 - Added to the AMU List with stipulations. |

Updated on: 3/31/2014 2:06:00 PM

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</table>
| 1.4.23 | REGULATOR, DOUBLE HOSE | AQUA LUNG Name : Glenn Rubin Phone : 760-597-5089 Email : grubin@aqualung.com | MISTRAL P/N 125900 | General Notes: (2) Apply. AUTHORIZED FOR USE BY NAVAL SPECIAL WARFARE CENTER TRAINING COMMANDS ONLY IN A POOL NO DEEPER THAN 25 FT.
AUTHORIZED FOR USE WITH PANDUIT CLAMPS (MCMASTER-CARR #7345K26 OR EQUIVALENT) FOR ATTACHING BREATHING HOSES AND THE MOUTHPIECE. |

* Admin Comments : 8/19/15 - Added to ANU list |

Updated on: 8/15/2017 2:57:00 PM

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<tr>
<td>1.4.24</td>
<td>CONNECTOR, OMNISWIVEL</td>
<td>SW-A</td>
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<td>General Notes: (1) (2) Apply. FOR USE IN BETWEEN THE</td>
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### 1.5 REGULATORS, SPECIAL SERVICE FULL FACE MASK

**NO General Notes**

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<tr>
<td>1.5.1</td>
<td>CAT I Active</td>
<td>FULL FACE MASK, NATO CONTROLLED ITEM</td>
<td>BRITISH MILITARY</td>
<td>AUTHORIZED FOR USE WITH ANU APPROVED REGULATORS.</td>
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<td>Updated on: 3/10/2017 10:45:00 AM</td>
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<tr>
<td>1.5.2</td>
<td>CAT I Active</td>
<td>FULL FACE MASK</td>
<td>CRESSI-SUB S.P.A.</td>
<td>AUTHORIZED FOR USE WITH THE MK-16, MOUTH PIECE MATED TO THE MASK.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PN KX750089</td>
<td>AUTHORIZED FOR THE SAME DEPTH AS THE OPEN CIRCUIT SCUBA REGULATOR THAT IS FITTED TO THE MASK.</td>
</tr>
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<td>Updated on: 10/29/2013 10:04:00 AM</td>
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<tr>
<td>1.5.4</td>
<td>CAT I Active</td>
<td>FULL FACE MASK, COMMERCIAL &amp; NAVSEASYSCOM CONTROLLED ITEM FOR CERTIFIED UBA USE</td>
<td>KIRBY MORGAN DIVE SYSTEMS INC.</td>
<td>AUTHORIZED FOR USE WITH THE VIPER, MK25 MOD 2, &amp; MK 16 MOD 0/1 UBAs.</td>
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<td></td>
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<td></td>
<td>PN 805-010 (M-48 SUPERMASK W/O POD)</td>
<td>THE MASK REQUIRES DIFFERENT ADAPTORS/PODS FOR EACH UBA. CONTACT PMS NSW OR PMS EOD FOR FURTHER INFORMATION.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>PN 805-015 (SCUBA SOFTPOD W/ TILT-TO-PURGE)</td>
<td>AUTHORIZED FOR USE WITH ANU SCUBA REGULATOR AND OCTOPUS AS PER THE TECHNICAL MANUAL. FOLLOW MANUAL FOR PROPER SCUBA REGULATOR INSTALLATION.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>AUTHORIZED FOR USE WITH IAW NEDU LTRS 3900 SER 02/083 DTD 21 APR 2006 AND 3963/TA01-13 SER 02/008 DTD 20 JAN 2010. CONTACT PMS NSW FOR FURTHER INFORMATION.</td>
</tr>
<tr>
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<td></td>
<td>AUTHORIZED FOR USE WITH MASK OR PODS INCLUDED IN ANU ITEM 1.5.10</td>
</tr>
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<td></td>
<td>* Admin Comments : 06/02/08 - Removed. 10/22/08 - Reinstated by H. Stark 1/21/08 - Added PNs. 12/2/15 - Updated Notes for NSW 6/9/17 - Changed PN 800-048 to 805-015</td>
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<td>Updated on: 6/9/2017 1:54:00 PM</td>
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<td>1.5.5</td>
<td>CAT I Active</td>
<td>FULL FACE MASK, MARCORSYSCOM CONTROLLED ITEM</td>
<td>KIRBY MORGAN DIVE SYSTEMS INC.</td>
<td>USMC VERSION OF THE M 48 MASK.</td>
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<td>COMBAT DIVER FULL FACE MASK (CDDFM)</td>
<td>AUTHORIZED FOR USE WITH THE MK25 MOD 2. THE MASK REQUIRES DIFFERENT ADAPTORS/POD FOR EACH UBA. CONTACT MARCORSYSCOM FOR FURTHER INFORMATION.</td>
</tr>
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<td>PN 805-165 (MASK W/O SCUBA POD)</td>
<td>AUTHORIZED FOR USE WITH ANU SCUBA REGULATOR AND OCTOPUS AS PER THE TECHNICAL MANUAL. FOLLOW MANUAL FOR</td>
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<td>PN 800-080 (MASK W/SCUBA POD)</td>
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11/9/2017
PROPER SCUBA REGULATOR INSTALLATION.

AUTHORIZED WITH NEW FACE SEAL, P/N 810-017

* Admin Comments : 8/19/09 - Added to the AMU list.
1/21/09 - Added PNs.
4/20/2015 - Authorized new face seal.
Updated on: 3/10/2017 10:52:00 AM

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<tr>
<td>CAT I</td>
<td>FULL FACE MASK, MILITARY</td>
<td>NSWC-PCD, CODE E13</td>
<td>MK 24, MOD 0 PN 6696515-2</td>
<td>AUTHORIZED FOR USE WITH THE MK 16 MOD 0/1 UBA. APPROVED FOR MODERATE WORK TO 150 FSW, AND LIGHT WORK TO 190 FSW ON AIR. APPROVED FOR HEAVY WORK TO 300 FSW ON 88/12 HEO2. AUTHORIZED IN ACCORDANCE WITH SS600-AT-OMI-010.</td>
</tr>
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<tr>
<td>CAT I</td>
<td>FULL FACE MASK</td>
<td>INTERSPIRO</td>
<td>MK 20 MOD 0 MK 20 MOD 1</td>
<td>AUTHORIZED IAW THE UBA MK 20 MOD 0/1 TECHNICAL MANUAL, SS600-A-MM0-010. MOD 0 (POSITIVE PRESSURE) CONFIGURATION RECOMMENDED FOR ENCLOSED SPACE DIVING AND DIVING IN CATEGORY 3 CONTAMINATED WATER. MOD 1 (NON-POSITIVE PRESSURE) CONFIGURATION RECOMMENDED FOR DIVING IN SCUBA MODE WITH A LIMITED AIR SUPPLY. MK 20 MOD 0/1 AUTHORIZED TO 37 DEGREES FAHRENHEIT AND COLDER, WHEN MATED WITH THE 1ST STAGE OF ANY ANU APPROVED COLD WATER REGULATOR. APPROVED FOR USE WTTH ANU ITEM 1.5.8 AND 1.5.9.</td>
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<td>CAT I</td>
<td>AMBIENT AIR BREATHING DEVICE</td>
<td>INTERSPIRO</td>
<td>DIVATOR HATCH PN 96 962-01</td>
<td>THE INTERSPIRO HATCH IS A MODIFICATION TO THE DIVATOR MK II FFM THAT ALLOWS BREATHING OF AMBIENT AIR WHILE AT REST ON THE SURFACE. UNIT LEVEL MODIFICATION OF THE DIVATOR MK II FFM FACEPLACE IS NOT AUTHORIZED. THE DIVATOR MK II FFM WITH INTERSPIRO HATCH IS AUTHORIZED TO 190 FSW AT OR BELOW 37° FAHRENHEIT WATER PER THE U.S. NAVY DIVE MANUAL, SS521-AG-PRO-010.</td>
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11/9/2017
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<tr>
<td>1.5.9</td>
<td>CAT I Active</td>
<td>AMBIENT AIR BREATHING DEVICE</td>
<td>OCEAN TECHNOLOGY SYSTEMS (OTS) OTS-ABV-2 PN 920010-000 (Visor with ABV installed)</td>
<td>THE OTS-ABV-2 IS A MODIFICATION TO THE DIVATOR MK II FFM THAT ALLOWS BREATHING OF AMBIENT AIR WHILE AT REST ON THE SURFACE. UNIT LEVEL MODIFICATION OF THE DIVATOR MK II FFM FACEPLATE IS NOT AUTHORIZED. THE DIVATOR MK II FFM WITH OTS ABV-2 MODIFICATION IS AUTHORIZED TO 190 FSW AT OR BELOW 37° FAHRENHEIT WATER PER THE U.S. NAVY DIVE MANUAL, SS521-AG-PRO-010.</td>
</tr>
<tr>
<td>1.5.10</td>
<td>CAT I Active</td>
<td>FULL FACE MASK, CONTROLLED ITEM &amp; NAVSEASYSCOM CONTROLLED ITEM FOR CERTIFIED UBA USE</td>
<td>KIRBY MORGAN DIVE SYSTEMS INC. PN 805-175 (MOD 1 MASK W/O POD) PN 805-095 (MK-16 SOFTPOD W/O TILT-TO-PURGE) PN 805-011 (REBREATHER POD W/SWITCHOVER AND SECONDARY REGULATOR)</td>
<td>EOD (LO MU) VERSIONS OF THE KMS48 PODS. AUTHORIZED FOR USE WITH THE MK16 MOD 1 UBA. THE REBREATHER POD REQUIRES DIFFERENT ADAPTORS/PODS FOR EACH UBA. CONTACT PMS-408(EOD) FOR FURTHER INFORMATION. ALL PURCHASES REQUIRING LO MU FFM AND/OR PODS REQUIRE SCREENING AND SHALL BE ARRANGED THROUGH PMS-408 (EOD). AUTHORIZED WITH NEW FACE SEAL, P/N 810-017</td>
</tr>
<tr>
<td>1.5.11</td>
<td>CAT I Inactive</td>
<td>AMBIENT AIR BREATHING DEVICE</td>
<td>TECH ONE, INC. PN 55-300USN</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. AMBIENT AIR BREATHING DEVICE (OR GILL VALVE) IS A MODIFICATION TO THE DIVATOR MK II FFM THAT ALLOWS BREATHING OF AMBIENT AIR WHILE AT REST ON SURFACE. LIMITED TO SCUBA APPLICATIONS. UNIT LEVEL MODIFICATION OF DIVATOR MK II FFM FACEPLATE NOT AUTHORIZED. THE DIVATOR MK-II FFM WITH GILL VALVE MOD IS AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER OR WARMER.</td>
</tr>
</tbody>
</table>

* Admin Comments: 08/16/12 - Added to the AMU List. Updated on: 8/14/2013 11:47:00 AM
* Admin Comments: 08/16/12 - Added to the AMU List. Updated on: 8/5/2015 11:54:00 AM
* Admin Comments: 08/22/12 - Added to the AMU List. 4/30/2015 - Authorized new face seal. 12/2/2015 - Updated Notes along with M-48 notes. 6/9/2017 - Changed PN 800-110 to PN 805-175 and 805-095. Added PN 805-011. Updated on: 6/13/2017 10:42:00 AM
* Admin Comments: 08/16/12 - Added to the AMU List. Updated on: 8/21/2012 3:48:00 PM
### 1.6 UBA SETS

#### NO General Notes

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<tr>
<td>1.6.1</td>
<td>CAT I</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Active</td>
<td>LIGHTEIGHT DIVING APPARATUS</td>
<td>INTERSPIRO</td>
<td>DIVATOR MK II, DP 1/2</td>
<td>FORMALLY CLASS-CERTIFIED IAW DIVING ADVISORY 16-03. FOR FURTHER GUIDANCE, SEE TECHNICAL MANUAL NAVSEA SS510-AC-TMM-010, NAVSEA DRAWING 6699240 REV B AND THE PRE-SURVEY OUTLINE BOOKLET (PSOB). BELOW NOTES ARE FOR RECORDS ONLY TO MAINTAIN CURRENT OPERATIONS WHILE COMMANDS TRANSITION FROM ANU TO CLASS CERT IAW AIG 16-03. CONTACT NAVSEA 00C32 PRIOR TO ORDERING A NEW DP1 SYSTEM IN ORDER TO ENSURE YOUR COMMAND HAD A COMPLETE LISTING OF PARTS THAT ARE REQUIRED/ALLOWED IN THE KIT. THE ADDITION OF A T-PIECE SECONDARY UMBILICAL ALLOWS TWO DIVERS TO USE THE SAME PANEL, WHICH CONVERTS THE DP1 INTO THE DP2. ALL TECHNICAL MANUALS REFER TO DP1. NOMI AUTHORIZED TO USE THE DP1 IN AN ALTERNATE CONFIGURATION IAW NAVSEA LETTER 3150 SER 022/0262 DTD 26 SEPT 2008. NAVAL BASE GUAM DIVE DETACHMENT AUTHORIZED USE OF THEIR FLASK RACK ASSEMBLY WITH THE DP SURFACE UNIT USING AIR CONNECTION ADAPTER IAW NAVSEA DWG 8663378. FLASK RACKS APPROVED FOR USE WITH CERTIFIED SYSTEMS SHALL BE MAINTAINED IAW SS521-AA-MAN-010, U.S. NAVY DIVING AND MANNED HYPERBARIC SYSTEMS CERTIFICATION MANUAL. THE MAXIMUM SUPPLY PRESSURE FOR THIS APPARATUS IS 4,350 PSI (300 BAR). A HIGHER PRESSURE AIR SOURCE SHALL NOT BE UTILIZED AS COULD RESULT IN INJURY TO PERSONNEL OR DAMAGE TO EQUIPMENT. EGRESS MANIFOLD CONFIGURATION IS AUTHORIZED FOR USE IAW THE USN DIVE MANUAL. APPROVED FOR USE IN COLD WATER.</td>
</tr>
</tbody>
</table>

* Admin Comments: 07/15/08 - Added 06/15/08 05/07/09 - AMU approved. 12/29/10 - Moved from Section 1.3 4/29/14 - Added egress manifold authorization. 5/11/2015 - NBG approval to use with certified flask rack assemblies. Updated on: 3/10/2017 10:58:00 AM |

### 1.7 NAVY DIVE COMPUTERS

#### General Notes

(1): MAY PROVIDE SIGNIFICANT ADVANTAGE WHEN DIVING A MULT-LEVEL (VARIABLE DEPTH) DIVE. HOWEVER, WHEN DIVING A SINGLE DEPTH (SQUARE DIVE), THE NDC MAY PRESCRIBE DECOMPRESSION TIMES THAT ARE LONGER THAN THOSE FOUND IN THE DIVE TABLES.
DIVER QUALIFICATION/COMPLETION OF TRAINING FOR THE OPERATION AND MAINTENANCE OF THE NDC SHALL BE DOCUMENTED IN WRITING BY THE COMMANDING OFFICER.

NOT AUTHORIZED FOR ALTITUDE DIVING OPERATIONS ABOVE 1000 FT.

THE CONFIGURATION MANAGER FOR THIS EQUIPMENT SHALL BE CONTACTED PRIOR TO PURCHASE AND AUTHORIZATION FOR USE. TO ENSURE PROPER USE, STAKEHOLDERS MUST BE REPRESENTED ON THE CONFIGURATION MANAGEMENT BOARD FOR THIS EQUIPMENT.

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<tr>
<td>1.7.1</td>
<td></td>
<td>NAVY DIVE COMPUTER COCHRAN UNDERSEA TECHNOLOGY Name: Mike Cochran/John Corso Phone: 972.644.6284</td>
<td>NSW III NDC (BLACK) PN 512110571</td>
<td>General Notes: (1) (2) (3) (4) Apply. BLACK VARIANT NSW III AUTHORIZED FOR USSOCOM COMPONENT SPECIAL OPERATION FORCES FOR NO DECOMPRESSION DIVES. CONFIGURATION MANAGEMENT OF THIS ITEM IS CONTROLLED BY PMS NSW. DIVERS MAY BREATHE ANY COMBINATION FOR AIR/MK16 MOD 0 OR MK25 MOD 2 WHEN USING THE NSW III. MK25 OXYGEN EXPOSURE LIMITS SHALL BE FOLLOWED FOR THE DIVE SEGMENTS IN WHICH IT IS USED.</td>
</tr>
<tr>
<td>1.7.2</td>
<td></td>
<td>NAVY DIVE COMPUTER COCHRAN UNDERSEA TECHNOLOGY Name: Mike Cochran/John Corso Phone: 972.644.6284</td>
<td>FLEET (YELLOW) AIR III-79 NDC PN 742610171</td>
<td>General Notes: (1) (2) (3) (4) Apply. YELLOW VARIANT AIR III-79 AUTHORIZED FOR FLEET APPLICATIONS FOR NO DECOMPRESSION DIVES IAW US NAVY DIVE MANUAL. ENABLING PROGRAMMING MODE IS AUTHORIZED TO PROVIDE USE OF THE PRE-DIVE PREDICTION MODE. PRIOR TO DIVING, VERIFY CONSERVATISM IS SET TO ZERO. REFER TO THE OEM USER MANUAL FOR FURTHER GUIDANCE ON THE USE OF PROGRAMMING MODE. THE AIR III-79 NDCs ARE DISTINGUISHABLE BY THE FRONT BEZEL READING ‘AIR III-79’. CONFIGURATION MANAGEMENT OF THIS ITEM IS CONTROLLED BY NAVSEA 00C3.</td>
</tr>
<tr>
<td>1.7.3</td>
<td></td>
<td>NAVY DIVE COMPUTER COCHRAN UNDERSEA TECHNOLOGY Name: Mike Cochran/John Corso Phone: 972.644.6284</td>
<td>EOD III NDC (GREY) PN 667510541 (NDC) PN 667510G41 (DTDG ONLY)</td>
<td>General Notes: (1) (2) (3) (4) Apply. GREY VARIANT EOD III AUTHORIZED FOR EOD APPLICATIONS FOR NO DECOMPRESSION DIVES. CONFIGURATION MANAGEMENT OF THIS ITEM IS CONTROLLED BY PMS EOD.</td>
</tr>
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</table>
THE AUTHORIZED BATTERY FOR EOD MCM OPERATIONS IS THE MK 16 UBA N-CELL BATTERY (PN 6195925, 1.5 VDC, 2 EACH). THE EOD III DATA AND TIME MUST BE RESET AFTER THE BATTERY CHANGE.

ALL COMMANDS WILL ENSURE INITIAL LO-MU SCREENING IS COMPLETED AT NAVEDOTECHDIV.

GENERAL NOTES 1 AND 2 DO NOT APPLY TO PN 667510G41, AUTHORIZED FOR EOD APPLICATIONS AS A DEPTH/TIMER GAUGE ONLY AND IS CONSIDERED A CAT III ITEM.

* Admin Comments : 03/28/2011 - PN 667510G41 Added as the EOD III NDC.
   12/28/12 - Comments Revised.

<table>
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<td>1.7.4</td>
<td>CAT I Active</td>
<td>NAVY DIVE COMPUTER</td>
<td>NSW III 50/12 1.3 AIR NDC (BLACK) PN 772110571</td>
<td>General Notes: (1) (2) (3) (4) Apply. BLACK VARIANT NSW III 50/12 1.3 AIR AUTHORIZED FOR USE DURING MK 16 MOD 1 UBA OPERATIONS USING N2O2 DILUENT UNDER NAVSEA APPROVED PROCEDURES. CONFIGURATION MANAGEMENT OF THIS ITEM IS CONTROLLED BY PMS NSW.</td>
</tr>
<tr>
<td>1.7.5</td>
<td>CAT I Active</td>
<td>NAVY DIVE COMPUTER</td>
<td>NSW HE III 200-1.3 PN 792310D71</td>
<td>General Notes: (1) (2) (3) (4) Apply. DARK BLUE VARIANT NSW He III 200-1.3 AUTHORIZED FOR USE DURING MK 16 MOD 1 UBA OPERATIONS USING HeO2 DILUENT UNDER NAVSEA APPROVED PROCEDURES. CONFIGURATION MANAGEMENT OF THIS ITEM IS CONTROLLED BY PMS NSW.</td>
</tr>
<tr>
<td>1.7.6</td>
<td>CAT I Active</td>
<td>NAVY DIVE PLANNER</td>
<td>NAVSEA V4.03 NAVSEA V4.03HE</td>
<td>General Notes: (4) Apply. THE NDP CONFIGURATION FILES (.INI; .DAT; .MPF) SHALL NOT BE ALTERED. THE NDP IS NOT AUTHORIZED FOR USE ON THE NMCI NETWORK. THE NDP OPERATES UNDER MICROSOFT WINDOWS 7 OR XP. A STAND-ALONE COMPUTER IS REQUIRED FOR USE. USERS MUST ENSURE THE CORRECT BREATHING MEDIUM VERSION AND GAS MIX IS SELECTED FOR THE DIVE BEING PERFORMED. THE NDP SHALL ONLY BE USED IN CONJUNCTION WITH NAVSEA APPROVED PROCEDURES SPECIFICALLY CALLING OUT THE NDP AS A PRIMARY OR ALTERNATE METHOD OF PLANNING OR COMPUTING DECOMPRESSION. AUTHORIZATION OF THE</td>
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</table>
NDP IS ASSUMED BY NAVSEA APPROVAL OF THE COMMAND SPECIFIC PROCEDURES THAT REQUIRE THE NDP.

THE NDP SHALL BE USED ONLY BY PERSONNEL WHOSE PROFICIENCY IN NDP USE HAS FIRST BEEN ESTABLISHED BY DOCUMENTED COMPLETION OF APPROPRIATE TRAINING.

* Admin Comments : 5/30/2014 - Added to AMU List

Updated on: 1/14/2015 9:56:00 AM

1.8 DIVER PROPULSION DEVICES

NO General Notes

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<tr>
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</tr>
<tr>
<td>Active</td>
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</table>
| DIVER PROPULSION VEHICLE (DPV), COMMERCIAL | FARALLON USA, INC. | MK V  
MK VI | NOW BEING SUPPORTED BY FARALLON USA INC, DIVER PROPULSION VEHICLES.  
Updated on: 9/24/2010 8:51:00 AM |
| 1.8.3  |             |              |                  |          |
| CAT II |             |              |                  |          |
| Active |             |              |                  |          |
| DIVER PROPULSION VEHICLE (DPV), COMMERCIAL | FARALLON USA, INC. | MK VIII  
MK VIII-S | FOLLOW ON REPLACEMENT MODEL TO OLDER FARALLON MODELS MK V AND MK VI. MK VIII IS A SMALLER VERSION OF THE MK VIII  
Updated on: 9/24/2010 8:52:00 AM |
| 1.8.4  |             |              |                  |          |
| CAT II |             |              |                  |          |
| Inactive |             |              |                  |          |
| DIVER PROPULSION VEHICLE (DPV), COMMERCIAL | TECKNA | DV-3X | NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.  
Updated on: 8/19/2011 11:06:00 AM |
| 1.8.5  |             |              |                  |          |
| CAT II |             |              |                  |          |
| Inactive |             |              |                  |          |
| DIVER PROPULSION VEHICLE (DPV), COMMERCIAL | TECKNA | MIL UNIT MOD S-5100 | NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.  
Updated on: 8/19/2011 11:06:00 AM |
| 1.8.7  |             |              |                  |          |
| CAT I  |             |              |                  |          |
| Active |             |              |                  |          |
| SWIMMER DELIVERY VEHICLE (SDV), NAVSEA CONTROLLED ITEM | PMS NSW | MK 8 MOD 1  
MK 8 MOD 1(D) | THE SDV DLSS IS AUTHORIZED FOR USE WITH AIR ONLY.  
MK 8 MOD 1(D) REFLECTS THE SDV MK 8 MOD 1 WITH CLASS 1 ECP-0556 (SDV DEPTH)  
NAVAL SEA SYSTEMS COMMAND CONTROLLED ITEM UNDER COMNAVSEASYSCOM PMS NSW COGNIZANCE.  
* Admin Comments : 02/25/10 - AIR ONLY note added.  
12/1/2014 - MK 8 MOD 1(D) added.  
Updated on: 12/1/2014 1:25:00 PM |
| 1.8.8  |             |              |                  |          |
| CAT II |             |              |                  |          |
| Active |             |              |                  |          |
| DIVER PROPULSION DEVICE (DPD), COMMERCIAL | STIDD SYSTEMS, INC.  
Name : David Wilberding  
Phone : 202-904-4461  
Email : dwilberding@stidd.com | DPD  
DPD-ER  
DPD-TEC2  
DPD-TEC2-ER | USSOCOM STD O&M MANUAL REQUIRED.  
‘TEC2’ INDICATES IMPROVED PROPSOLOR WITH BRUSH-LESS DC MOTOR AND MAGNETICALLY COUPLED DRIVE SHAFT.  
‘-ER’ INDICATES AN ADDITIONAL BATTERY INSTALLED IN PARALLEL FOR INCREASED OPERATING TIME. |
### Equipment List

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<td>CAT II</td>
<td>PEGASUS MANUFACTURING INC.</td>
<td>PT-90001</td>
<td>AUTHORIZED FOR USE UP TO A DEPTH OF 60 FSW.</td>
</tr>
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<td></td>
<td>Active</td>
<td><a href="http://pegasusthruster.com">http://pegasusthruster.com</a></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Name : Dean Vitale</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Phone : 305.720.6776</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.8.10</td>
<td>CAT II</td>
<td>PATRIOT3, INC.</td>
<td>P3M-DPK-001-0105 (JET BOOTS)</td>
<td>1. THIS ITEM REQUIRES MANDATORY QUALIFICATION, INCLUDING BASIC TRAINING IN A CONTAINED TRAINING ENVIRONMENT (I.E. POOL), PRIOR TO OPEN WATER USE AND AT LEAST 12 MONTHS THEREAFTER. TRAINING SHALL BE DOCUMENTED.</td>
</tr>
<tr>
<td></td>
<td>Active</td>
<td><a href="http://www.Patriot3.com">www.Patriot3.com</a></td>
<td></td>
<td>2. PERSONAL PROTECTIVE EQUIPMENT (PPE) IS REQUIRED FOR PROTECTION, DURING QUALIFICATION/REQUALIFICATION, AGAINST TRAUMA (HEAD,NECK, ETC.). THIS SHOULD INCLUDE A HELMET AS A MINIMUM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Name : Charles Fuqua</td>
<td></td>
<td>3. DUE TO THE LITHIUM ION BATTERY POWER SUPPLY, THIS ITEM IS LIMITED TO SHORE-BASED CHARGING/DISCHARGING AND STORAGE OF THE BATTERIES AND SYSTEM INGRESS/EGRESS USING RANGE CRAFT IN TERRITORIAL WATERS. REFERENCE NOSSA LETTER S N 841/1089 DTD 9 JUL 2013.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Phone : 540-891-7353</td>
<td></td>
<td>4. CHARGING/DISCHARGING AND STORAGE OF THE JET BOOT BATTERY SYSTEM ON UNDERWAY PLATFORMS (AIR, SURFACE, OR UNDERSEA) SHALL BE AUTHORIZED VIA SEPARATE AUTHORITIES UNDER NAVSEAINST 9310.1C, THE LION AUTHORITATIVE DOCUMENT.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email : <a href="mailto:Cfuqua@patriot3.com">Cfuqua@patriot3.com</a></td>
<td></td>
<td>5. CHARGING/DISCHARGING OPS/EPS AND STANDARDIZED WARNINGS SHALL BE POSTED IN A CONSPICUOUS AREA ADJACENT TO CHARGER/DISCHARGER UNIT.</td>
</tr>
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<td></td>
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<td></td>
<td>6. ANY UNDUE EVENT OR FAILURE OF THE CHARGER/DISCHARGER SYSTEM SHALL BE REPORTED VIA FAR TO SEA06-NSW (PMS340) AND SEA 00C3.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7. AUTHORIZED FOR USE WITH:FLT KIT, PN P3M-DPK-001-0205STANDARD CHARGER, PN P3M-DPC-001-0114CHARGER+DISCHARGER, PN P3M-DPC-001-0285</td>
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*Admin Comments*: 7/6/2015- Corrected name from 'Swimmer Transportation Device (STD)' to DPD. 8/3/2015 - Included additional models, see Change package in electronic index. Change 'Designation/Model' to remove the specific model number and reference the more common terminology used for the various models. Updated on: 8/4/2015 1:59:00 PM

*Admin Comments*: 11/22/13 - Added to AMU List 1/29/14 - Added 'JET BOOTS' for clarification to model 3/17/15 - Added configuration change authorizing use of P3M flotation kit 11/7/16 - Authorized use of Charger+Discharger Updated on: 11/7/2016 9:46:00 AM
# 2.1 DIVING HARNESS

## NO General Notes

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<th>Item/Stock#</th>
<th>Manufacturer</th>
<th>Designation/Model</th>
<th>Comments</th>
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<td>2.1.1</td>
<td></td>
<td>ATLANTIC DIVING EQUIPMENT</td>
<td>B200 B/NS (MK-20 HARNESS)</td>
<td>JOCKING STRAP REQUIRED. THIS HARNESS WAS FORMERLY DESIGNATED UNDER DWG # 592-6318020 OR ADS/MARVEL PN BH200 B/NS (NO JOCKING STRAP).</td>
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<tr>
<td>2.1.2</td>
<td></td>
<td>MORRIS DIVING EQUIPMENT</td>
<td>MIL-V-24690(SH) OR PN 4666989</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.</td>
</tr>
<tr>
<td>2.1.3</td>
<td></td>
<td>ZEAGLE</td>
<td>MILITARY VEST PN 7050-AM</td>
<td>REQUIRES JOCKING STRAP AND &quot;D&quot; RINGS ON BOTH SIDES AND WAIST.</td>
</tr>
<tr>
<td>2.1.5</td>
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<td>ATLANTIC DIVING EQUIPMENT</td>
<td>INTEGRATED DIVE VEST (IDV) PN 16509</td>
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<td>2.1.6</td>
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<td>DIVEX</td>
<td>PN DE394K OR PN DE400</td>
<td>DE394K HOLDS UP TO 61 LBS NON-DITCHABLE WEIGHT. DE400 HOLDS UP TO 81 LBS OF DITCHABLE WEIGHT.</td>
</tr>
<tr>
<td>2.1.7</td>
<td></td>
<td>AQUA LUNG</td>
<td>SURFACE SUPPLIED HARNESS PN 769158 (SIZE 0) PN 769161 (SIZE 1) PN 769169 (SIZE 2)</td>
<td>FOR TENDED SURFACE SUPPLIED DIVING APPLICATIONS. HOLDS UP TO 10 LBS NON-DITCHABLE WEIGHT &amp; UP TO 40 LBS OF DITCHABLE WEIGHT.</td>
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<tr>
<td>2.1.8</td>
<td></td>
<td>MILLER DIVING CORPORATION</td>
<td>900-070SB 900-070MB 900-070LB 900-070XB</td>
<td>* Admin Comments : Added to ANU list 3/17/17 Updated on: 3/23/2017 8:41:00 AM</td>
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</table>
## 2.2 UMBILICAL HOSE

### General Notes

(1): UMBILICALS SHALL BE ORDERED AND ASSEMBLED UTILIZING GUIDANCE CONTAINED IN US NAVY UMBILICAL DESCRIPTION, MATERIALS AND ASSEMBLY MANUAL, SS521-AH-PRO-010. WHEN ORDERING THE AQUALITE SPIRAL DESIGNED UMBILICAL MUST BE FACTORY TWISTED AND INCORPORATE A COMBINATION STRENGTH/COMMUNICATION CABLE P/N CAF0334. CONTACT NAVSEA 00C3, COMM (703) 607-2766 DSN 327-2766 FOR ASSISTANCE.

### Equipment Table

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<td>2.2.1</td>
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<td>FURON, SYNFLEX DIVISION</td>
<td>34BA</td>
<td>PRODUCT ID: SYNFLEX 34BA-06 3/8 INCH ID, WORKING PRESSURE 250 PSI. Updated on: 2/1/2017 1:51:00 PM</td>
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<td>GATES CORPORATION</td>
<td>33HB</td>
<td>PRODUCT ID: 33HB - 3/8 INCH ID, WORKING PRESSURE 1,125 PSI. Updated on: 9/24/2010 9:35:00 AM</td>
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<td>UMBILICALS INTERNATIONAL</td>
<td>HDA0106</td>
<td>APPROVED FOR CONTINUED USE BUT NOT AVAILABLE FOR PURCHASE</td>
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<td>PRODUCT ID: HDA0106 - 3/8 INCH ID, WORKING PRESSURE 500 PSI.</td>
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<td>AUTHORIZED FOR USE WITH UMBILICALS INTERNATIONAL FITTING PN FXFSP20606</td>
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<td>AUTHORIZED FOR USE WITH UMBILICALS INTERNATIONAL FITTING PN FXFSP50606</td>
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<td>* Admin Comments : 9/22/2014 - Updated Manufacturer name from Aqualite and change part number from HAL 0106. 11/10/2016 - Updated Product ID from HAL 0106 to HDA0106 and added fitting number 10/25/2017 - Added FXFSP50606</td>
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<td>CORTLAND COMPANY</td>
<td>FLT06/R</td>
<td>PRODUCT ID: FLT06/R - 3/8 INCH ID, WORKING PRESSURE 500 PSI.</td>
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<td>AUTHORIZED FOR USE WITH CORTLAND FITTING PN FPBSFM/06-04OXY</td>
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<td>JDR</td>
<td>HAL0106</td>
<td>PRODUCT ID: HAL0106 - 3/8 INCH ID, WORKING PRESSURE 500 PSI.</td>
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<td>AUTHORIZED FOR USE WITH JDR FITTING PN XF06SP1F06</td>
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<td>UMBILICALS INTERNATIONAL</td>
<td>HDA0106-USN</td>
<td>PRODUCT ID: HDA0106-USN, 3/8 INCH ID, WORKING PRESSURE 500 PSI.</td>
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<td>AUTHORIZED FOR USE WITH UMBILICALS</td>
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2.3 UMBILICAL POWERED UNDERWATER LIGHTS

General Notes
(1): AC POWERED UNDERWATER LIGHTS SHALL BE PROTECTED BY A GROUND FAULT INTERRUPTER INSTALLED BETWEEN THE POWER SUPPLY AND THE UNDERWATER LIGHT. IT IS IMPORTANT TO NOTE THAT USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. COMPLY WITH THE ELECTRICAL SAFETY IAW THE USN DIVING MANUAL.

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<tr>
<td>UMBILICAL POWERED UW LIGHT, COMMERCIAL</td>
<td>AQUA AIR INDUSTRIES INC.</td>
<td>AA1-MINI</td>
<td>NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE AND WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. REPLACED BY AQUA-LITE II. NO MODIFICATIONS TO FFM UBA/HELMET ARE AUTHORIZED. SUPPLIED BY 12 VDC POWER SUPPLY, NO GFI REQUIRED.</td>
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Updated on: 10/10/2013 3:15:00 PM

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<tr>
<td>UMBILICAL POWERED UW LIGHT, COMMERCIAL</td>
<td>KONGSBERG MARITIME (ORIGINALLY HYDRO-PRODUCTS)</td>
<td>HQ-250/800647-01250 WATTS/120 VOLTS AC</td>
<td>General Notes: (1) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.</td>
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* Admin Comments: 4/26/11 - Originally manufactured by Hydro-Products, then Hydro-Vision, then Simard Osprey.

Updated on: 4/26/2012 12:41:00 PM

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<tr>
<td>UMBILICAL POWERED UW LIGHT, COMMERCIAL</td>
<td>KONGSBERG MARITIME (ORIGINALLY HYDRO-PRODUCTS)</td>
<td>HQ-500/800647-02 500 WATTS/120 VOLTS AC</td>
<td>General Notes: (1) Apply.</td>
<td></td>
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* Admin Comments: 4/26/11 - Originally manufactured by Hydro-Products, then Hydro-Vision, then Simard Osprey.

Updated on: 4/26/2012 12:41:00 PM

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<td>UMBILICAL POWERED UW LIGHT, COMMERCIAL</td>
<td>KONGSBERG MARITIME (ORIGINALLY HYDRO-PRODUCTS)</td>
<td>DIVER HELMET MOUNTED LIGHT SYSTEM (DHMLS) DWG # 998-2005 REV A</td>
<td>General Notes: (1) Apply. PRODUCT ID &amp; DEPOT LEVEL REPAIRS: DHMLS O &amp; M MANUAL PUB # 998-20005.</td>
<td></td>
</tr>
</tbody>
</table>

* Admin Comments: 4/26/11 - Originally manufactured by Hydro-Products, then Hydro-Vision, then Simard Osprey.

Updated on: 4/26/2012 12:47:00 PM

2.4 DIVING HELMETS AND OTHER SURFACE SUPPLIED SYSTEMS

General Notes

(2): AUTHORIZED FOR SURFACE SUPPLY AIR DIVING OPERATIONS ONLY

(3): REGULATORS FOR USE IN SURFACE-SUPPLIED EMERGENCY GAS SUPPLIES (EGS) CONFIGURATIONS SHALL BE APPROVED FOR THE OPERATIONAL ENVIRONMENT IN WHICH THEY WILL BE USED. SPECIAL ATTENTION SHOULD BE MADE FOR COLD WATER APPLICATIONS AND THE ANU REGULATOR'S ASSOCIATED
## TEMPERATURE LIMITATIONS.

<table>
<thead>
<tr>
<th>Equip#</th>
<th>Item/Stock#</th>
<th>Manufacturer</th>
<th>Designation/Model</th>
<th>Comments</th>
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<tbody>
<tr>
<td>2.4.1</td>
<td>CAT I Active</td>
<td>SURFACE SUPPLIED DIVING HELMET, NAVSEA CONTROLLED</td>
<td>KIRBY MORGAN DIVE SYSTEMS, INC.</td>
<td>KM 37 NS</td>
</tr>
<tr>
<td>2.4.2</td>
<td>CAT I Active</td>
<td>SURFACE SUPPLIED DIVING HELMET, NAVSEA CONTROLLED</td>
<td>KIRBY MORGAN DIVE SYSTEMS, INC.</td>
<td>MK 21 MOD 1</td>
</tr>
<tr>
<td>2.4.3</td>
<td>CAT I Active</td>
<td>MANIFOLD BLOCK ASSEMBLY, COMMERCIAL</td>
<td>KIRBY MORGAN DIVE SYSTEMS, INC.</td>
<td>DSI PN 300-150</td>
</tr>
<tr>
<td>2.4.4</td>
<td>CAT I Active</td>
<td>EGS HOSE QUICK DISCONNECT ASSEMBLY, STAINLESS STEEL, COMMERCIAL</td>
<td>DIVING EQUIPMENT COMPANY OF AMERICA (DECA)</td>
<td>DE 255-025 NS</td>
</tr>
<tr>
<td>2.4.5</td>
<td>CAT I Active</td>
<td>EGS HOSE QUICK DISCONNECT ASSEMBLY, BRASS, COMMERCIAL</td>
<td>DIVING EQUIPMENT COMPANY OF AMERICA (DECA)</td>
<td>DE 255-020 NS</td>
</tr>
<tr>
<td>Equip#</td>
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</tr>
<tr>
<td>2.4.7</td>
<td>CAT I Active</td>
<td>INTERSPIRO</td>
<td>MK 20 MOD 0</td>
<td>General Notes: (1) Apply. AUTHORIZED IAW UNDERWATER BREATHING APPARATUS (UBA) MK 20 MOD 0 TECHNICAL MANUAL SS600-AK-MMO-010/010-LP-028-6860. AUTHORIZED FOR USE TO 60 FSW IN SURFACE SUPPLIED MODE. * Admin Comments : 08/14/13 - Added to the AMU List for Surface Supplied. Updated on: 8/14/2013 12:41:00 PM</td>
</tr>
<tr>
<td>2.4.10</td>
<td>CAT II Active</td>
<td>FULL COVERAGE SUIT (FCS)</td>
<td>AUTHORIZED FOR USE BY TRAINED SATURATION DIVERS ONLY WITH THE FOLLOWING RESTRICTIONS: - SHALL NOT BE USED IN CONTAMINATED WATER - SHALL NOT BE TAKEN INSIDE THE DIVING BELL OR DRY DECK CHAMBER - FAMILIARIZATION TRAINING IS REQUIRED PRIOR TO USE FOR SATURATION DIVING. * Admin Comments : 9/25/2014 - Added to AMU List Updated on: 3/12/2015 7:54:00 AM</td>
<td></td>
</tr>
<tr>
<td>2.4.11</td>
<td>CAT I Active</td>
<td>KIRBY MORGAN DIVE SYSTEMS, INC.</td>
<td>KM 97 (PN 500-701) WITH 455 REGULATOR (PN 505-455)</td>
<td>General Notes: (1) (2) Apply. AUTHORIZED FOR SURFACE SUPPLY AIR DIVING OPERATIONS TO 190FSW ONLY. FURTHER TESTING AND EVALUATION IS REQUIRED PRIOR TO AUTHORIZATION FOR MIXED GAS DIVING OPERATIONS. A NAVSEA TECH MANUAL IS CURRENTLY UNDER DEVELOPMENT, UNTIL FURTHER NOTICE REFER TO OEM MANUALS. * Admin Comments : 3/18/2015 - Added to AMU List Updated on: 10/8/2015 9:48:00 AM</td>
</tr>
</tbody>
</table>

### 3.1 WETSUITS

**General Notes**

(1): COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK WET SUITS AND WET SUIT ACCESSORIES. STRONG CONSIDERATION SHALL BE GIVEN TO OUTFITTING DIVERS THAT MUST OPERATE IN COLD WATER WITH CUSTOM FITTED WET SUITS AND ACCESSORIES. ADEQUATE THERMAL PROTECTION IS A DIVER SAFETY ISSUE IN COLD WATER.

<table>
<thead>
<tr>
<th>Equip#</th>
<th>Item/Stock#</th>
<th>Manufacturer</th>
<th>Designation/Model</th>
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<tbody>
<tr>
<td>3.1.1</td>
<td>CAT II Active</td>
<td>VARIOUS</td>
<td>VARIOUS</td>
<td>General Notes: (1) Apply. Updated on: 10/10/2013 3:15:00 PM</td>
</tr>
<tr>
<td>3.1.2</td>
<td>CAT II Active</td>
<td>VARIOUS</td>
<td>GLOVES, VESTS, HOODS, LINERS, POCKETS, BOOTIES &amp; SUITABLE FOOTWEAR</td>
<td>General Notes: (1) Apply. Updated on: 10/10/2013 3:15:00 PM</td>
</tr>
</tbody>
</table>

### 3.2 DRYSUITS
**General Notes**

(1) LOCAL COMMAND LEVEL DRY SUIT INDOCTRINATION TRAINING AND FAMILIARIZATION DIVE REQUIRED PRIOR TO USE. INFLATION OF VVDS WHEN USED WITH MK 21 MOD 1 LIGHTWEIGHT DIVING OUTFIT SHALL BE ACCOMPLISHED BY CONNECTING TO LP PORT ON THE SIDE BLOCK. REFER TO THE APPROPRIATE TECHNICAL MANUAL FOR COMPLETE OPERATIONS AND MAINTENANCE INSTRUCTIONS. AT THE DIVE SUPERVISOR'S DISCRETION, WHEN USING VVDS, A BUOYANCY COMPENSATOR IS NOT REQUIRED.

(2) DRY SUITS ARE AUTHORIZED FOR USE WITH THE KM-37NS DIVING HELMET WITH A WATERTIGHT NECK DAM TO SUPPORT CONTAMINATED WATER DIVING OPERATIONS PER SS521-AJ-PRO-101 REV 1, "GUIDANCE FOR DIVING IN CONTAMINATED WATERS". THE MK-21 DIVING HELMET WITH A WATERTIGHT NECK DAM IS AUTHORIZED FOR USE IN CATEGORY II CONTAMINATED WATER DIVING OPERATIONS WHEN COMBINED WITH THE CATEGORY II DRY SUITS, BUT ONLY WHEN THE KM-37NS DIVING HELMET IS NOT AVAILABLE. INFLATION OF VVDS WHEN USED WITH MK 21 MOD 1 LIGHTWEIGHT DIVING OUTFIT SHALL BE ACCOMPLISHED BY CONNECTING TO LP PORT ON THE SIDE BLOCK.

<table>
<thead>
<tr>
<th>Equip#</th>
<th>Item/Stock#</th>
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<th>Designation/Model</th>
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<tr>
<td>3.2.1</td>
<td>CAT II</td>
<td>DRY SUIT</td>
<td>VARIOUS</td>
<td>General Notes: (2) Apply. COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIAL AVAILABLE OR STANDARD STOCK DRY SUITS AND ACCESSORIES WHEN DIVING IN CATEGORY III OR IV WATER AS DEFINED IN SS521-AJ-PRO-010. GUIDANCE FOR DIVING IN CONTAMINATED WATERS.</td>
</tr>
<tr>
<td></td>
<td>Active</td>
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<td>Updated on: 5/12/2015 1:18:00 PM</td>
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<tr>
<td>3.2.6</td>
<td>CAT II</td>
<td>DRY SUIT, EOD CONTROLLED</td>
<td>EOD</td>
<td>MK 1 MOD 1</td>
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<tr>
<td></td>
<td>Active</td>
<td></td>
<td></td>
<td>* Admin Comments : 5/12/2015 - Updated to specify restriction to Category III and IV only. Updated on: 5/12/2015 1:24:00 PM</td>
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<tr>
<td>3.2.11</td>
<td>CAT II</td>
<td>DRY SUIT</td>
<td>TRELELBORG VIKING, INC.</td>
<td>HEAVY DUTY WITH SL17 YOKE PN 102 800 01X</td>
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<tr>
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<td>*X DENOTES SIZE &amp; WILL VARY</td>
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<td>Updated on: 6/24/2013 11:30:00 AM</td>
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<tr>
<td>3.2.14</td>
<td>CAT II</td>
<td>DRY SUIT</td>
<td>TRELELBORG VIKING, INC.</td>
<td>VIKING COMBAT WITH LATEX NECKSEAL</td>
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<td>Active</td>
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<td></td>
<td>* Admin Comments : 10/06/09 - Added to the AMU list 5/13/2015 - Clarified in Notes authorization restricted to Cat II and IV water. Updated on: 5/13/2015 8:55:00 AM</td>
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<tr>
<td>3.2.15</td>
<td>CAT II</td>
<td>DRY SUIT</td>
<td>TRELELBORG VIKING, INC.</td>
<td>VIKING HDS 1500</td>
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<td>Active</td>
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<td>* Admin Comments : 12/10/09 - Added to the AMU list</td>
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Updated on: 6/24/2013 11:29:00 AM
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<tr>
<td>3.2.16</td>
<td>DRY SUIT</td>
<td>WHITES</td>
<td>USN HAZMAT KM-37 NS 8H-M4-K37-RBK-(SIZE)-USN</td>
<td>General Notes: (1) (2) Apply. * Admin Comments : 4/14/10 - Added to the AMU List. Updated on: 6/24/2013 11:29:00 AM</td>
</tr>
<tr>
<td>3.3.1</td>
<td>HOT WATER HEATER, COMMERCIAL</td>
<td>DIVING UNLIMITED INTERNATIONAL</td>
<td>ECONO PN 31020-01</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. Updated on: 8/19/2011 11:09:00 AM</td>
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<tr>
<td>3.3.2</td>
<td>HOT WATER HEATER, COMMERCIAL</td>
<td>DIVING UNLIMITED INTERNATIONAL INC.</td>
<td>GULF PN 31007-00</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. Updated on: 8/19/2011 11:10:00 AM</td>
</tr>
<tr>
<td>3.3.3</td>
<td>HOT WATER HEATER</td>
<td>ADS INC.</td>
<td>MILITARY MONKEY HEATER PN PWH-100/3</td>
<td>NOT AUTHORIZED FOR OPERATIONS DEEPER THAN 100 FSW. MODIFICATIONS TO MILITARY MONKEY HEATER INCLUDE HARD MOUNTING OF THE FUEL REGULATOR, SEALED FUEL SOLENOID, 20 FOOT POWER CORD, GFI, AND WATER-RESISTANT CONTROL BOX. UNMODIFIED MONKEY HEATERS CURRENTLY IN SERVICE ARE APPROVED FOR CONTINUED USE. ADS IS THE DISTRIBUTOR FOR THIS ITEM. FORMERLY MAR-VEL. * Admin Comments : 1/6/06 - Reactivated based off tech documents recieved from manufacturer. 04/04/11 - Formerly MAR-VEL (acquired by ADS). Updated on: 6/27/2013 8:00:00 AM</td>
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### 3.3 DIVER HEATING EQUIPMENT

**NO General Notes**

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<tbody>
<tr>
<td>3.3.3.1</td>
<td>HOT WATER HEATER, COMMERCIAL</td>
<td>ALPHA RENTALS (FORMERLY HERMAN RENTALS INC.)</td>
<td>PN DHH-690-A PN DHH-690-NM</td>
<td>FUEL FIRED DIVERS HOT WATER HEATER DHH 690-A IS SUPPLIED WITH A GFI SUITABLE FOR USE ON COMMERCIAL</td>
</tr>
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</table>

https://secure.supsalv.org/anu/common/displayAll.asp

11/9/2017
<table>
<thead>
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<th>Equip#</th>
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</thead>
<tbody>
<tr>
<td>3.3.3.2</td>
<td>HOT WATER HEATER, COMMERCIAL</td>
<td>DIVING UNLIMITED INTERNATIONAL INC.</td>
<td>K15B-P (ELECTRIC)</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. MUST BE USED WITH AN APPROVED GFI. APPROVED FOR SATURATION DIVING.</td>
</tr>
<tr>
<td>3.4</td>
<td>INSPIRED GAS HEATER SPLITTER BLOCK, COMMERCIAL</td>
<td>VARIOUS</td>
<td>NEDU DWG NO. 88-46</td>
<td>USED TO_SPLIT HOT BETWEEN WATER SUIT AND DSI HOT WATER SHROUD.</td>
</tr>
<tr>
<td>3.3.4.1</td>
<td>SCALD SAFE VALVE, COMMERCIAL</td>
<td>ADS INC.</td>
<td>PN SS-72253.</td>
<td>THE SCALD SAFE VALVE IS INSTALLED ON THE DIVER'S END OF THE UMBILICAL. THE VALVE STOPS THE FLOW OF WATER IF IT REACHES 110 DEGREES AND RESTARTS THE FLOW AT 95 DEGREES. ADS IS THE DISTRIBUTOR OF THIS ITEM. FORMERLY MAR-VEL INTERNATIONAL.</td>
</tr>
<tr>
<td>3.3.5</td>
<td>INSPIRED GAS HEATER, COMMERCIAL</td>
<td>KINERGETICS</td>
<td>PN 3375-3</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. NOT FOR USE WITH THE MK-21.</td>
</tr>
<tr>
<td>3.3.8</td>
<td>HOT WATER HOSE FITTINGS, COMMERCIAL</td>
<td>DIVING UNLIMITED INTERNATIONAL INC.</td>
<td>VARIOUS</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE HOT WATER HOSE FITTINGS. THEY MUST BE MANUFACTURED SPECIFICALLY FOR THAT APPLICATION.</td>
</tr>
<tr>
<td>3.3.9</td>
<td>HOT WATER HOSE, COMMERCIAL</td>
<td>DIVING UNLIMITED INTERNATIONAL INC.</td>
<td>PN 31027-000</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.</td>
</tr>
<tr>
<td>3.3.10</td>
<td>HOT WATER HOSE</td>
<td>GATES CORPORATION</td>
<td>ECONOFLEX</td>
<td>N/A</td>
</tr>
</tbody>
</table>
| 3.3.12 | HOT WATER SUIT ACCESSORIES | DIVING UNLIMITED INTERNATIONAL INC. | VARIOUS LINERS, BOOTS, & HOODS | COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE HOT WATER SUIT LINERS, BOOTS & HOODS FOR
### 3.3.13 HOT WATER SUIT

**Active**

<table>
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<td>3.3.13</td>
<td>CAT II</td>
<td>HOT WATER SUIT</td>
<td>DIVING UNLIMITED INTERNATIONAL INC.</td>
<td>VARIOUS</td>
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</table>

**Updated on:** 10/10/2013 3:17:00 PM

**COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE HOT WATER SUITS FOR DIVING APPLICATIONS.**

**Updated on:** 10/10/2013 3:17:00 PM

### 3.3.15 FREE-SWIMMING DIVER HEATING SYSTEM (FDHS)

**Active**

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<th>Item/Stock#</th>
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<tr>
<td>3.3.15</td>
<td>CAT II</td>
<td>FREE-SWIMMING DIVER HEATING SYSTEM (FDHS)</td>
<td>Rini Technologies, Inc. 582 South Econ Circle, Oviedo, Fl, 32765 Name: Dan Rini Phone: 407-359-7138 ext. 103 Email: <a href="mailto:dan@rinitech.com">dan@rinitech.com</a></td>
<td>PN 101497 (GEN 2)</td>
</tr>
</tbody>
</table>

**THIS IS A NAVSEA CONTROLLED ITEM.**

**AUTHORIZED FOR NO-DECOMPRESSION DIVING ONLY.**

**NOSSA APPROVAL IAW LETTER 8020 SER N841/221 13 Feb 15 IS GRANTED FOR THE LITHIUM BATTERY FOR USE AT ALL SHORE FACILITIES, DEPLOYMENT ABOARD SHIPS AND TRANSPORT ON AIRCRAFT. THIS EQUIPMENT HAS NOT BEEN EVALUATED FOR SOF CARRY ON.**

**THE FDHS IS AUTHORIZED FOR USE WITH A DRY SUIT IAW OEM MANUAL. NOTE THAT THE USE OF THE FDHS REQUIRES MODIFICATION TO THE DRY SUIT TO INSALL A PENETRATOR (SEE FDHS USER MANUAL) IN PLACE OF THE POWER INFLATION VALVE. AN ADDITIONAL PORT IS REQUIRED TO BE ADDED TO THE DRY SUIT FOR THE POWER INFLATION VALVE.**

**GEN 2.1 IS AUTHORIZED FOR USE. THIS CONFIGURATION HAS THE SAME PART NUMBER AS THE LEGACY GEN 2.0 CONFIGURATION. GEN 2.1 INCORPORATES IMPROVEMENTS TO THE DIVER HEATING UNIT (DHU) AND IS DISTINGUISHABLE FROM THE GEN 2.0 BY ITS LONGER LENGTH.**

* **Admin Comments:** 4/21/14 - Updated NOSSA approval from Jul 2014 to Jul 2015, reference NOSSA Ltr 8020 SER N841/622 dtd 17 Apr 2014

4/30/15 - Updated information for the Gen 2 of the FDHS.

3/02/16 - Updated for Gen 2.1 & added comment for use with no-D diving only.

**Updated on:** 2/13/2017 10:40:00 AM

### 3.4 ACCESSORY ITEMS

**General Notes**

(1): COMMANDS ARE AUTHORIZED TO PURCHASE THIS ITEM FROM COMMERCIALLY AVAILABLE RESOURCES OR FROM STANDARD STOCK.

(2): SHALL BE MAINTAINED IN ACCORDANCE WITH CURRENT PMS.

<table>
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<th>Designation/Model</th>
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<tr>
<td>3.4.1</td>
<td>CAT II</td>
<td>GENERAL ACCESSORY ITEMS</td>
<td>VARIOUS</td>
<td>DIVER PREFERENCE</td>
</tr>
</tbody>
</table>

**General Notes:** (1)(2) Apply. TO INCLUDE WEIGHT BELTS, UNDERWATER COMPASSES, SWIM FINS, DIVE KNIVES, SCUBA FACE MASK, SNORKELS, AND DIVE LIGHTS.

* **Admin Comments:** 8/22/13 - Updated to
<table>
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<th>Manufacturer</th>
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</thead>
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<tr>
<td>3.4.2</td>
<td>WATCHES, UNDERWATER AND TOPSIDE USE</td>
<td>VARIOUS</td>
<td>DIVER PREFERENCE</td>
<td>General Notes: (1) (2) Apply. FOR UNDERWATER AND TOPSIDE USE. CONVENTIONAL AND DIGITAL UNDERWATER AND STOP TYPE WATCHES SHALL HAVE ELAPSED TIME FEATURE.</td>
</tr>
<tr>
<td>3.4.3</td>
<td>DEPTH GAUGE</td>
<td>VARIOUS</td>
<td>DIVER PREFERENCE</td>
<td>General Notes: (1) (2) Apply.</td>
</tr>
<tr>
<td>3.4.4</td>
<td>GAUGE, SUBMERSIBLE SCUBA TANK</td>
<td>VARIOUS</td>
<td>VARIOUS</td>
<td>General Notes: (1) (2) Apply.</td>
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<tr>
<td>3.4.5</td>
<td>GAUGE, TOPSIDE SCUBA TANK</td>
<td>VARIOUS</td>
<td>VARIOUS</td>
<td>General Notes: (1) (2) Apply. GAUGES AND MANIFOLD ASSEMBLY SHALL MEET OR EXCEED WORKING PRESSURE OF THE TANKS TO BE MEASURED.</td>
</tr>
<tr>
<td>3.4.6</td>
<td>GAUGE, TOPSIDE FILLER AND GAUGE</td>
<td>VARIOUS</td>
<td>VARIOUS</td>
<td>General Notes: (1) (2) Apply. GAUGES AND MANIFOLD ASSEMBLY SHALL MEET OR EXCEED WORKING PRESSURE OF CHARGING SYSTEM ATTACHED TO.</td>
</tr>
<tr>
<td>3.4.7</td>
<td>KNIFE, NON-MAG</td>
<td>EOD</td>
<td>NON-MAGNETIC EOD 700-1765159</td>
<td>FOR NON-MAGNETIC AND NON-SPARKING APPLICATIONS.</td>
</tr>
<tr>
<td>3.4.8</td>
<td>MASK, NON-MAG</td>
<td>AQUA LUNG</td>
<td>NON-MAGNETIC</td>
<td>EOD NON-MAGNETIC SCUBA FACE MASK. AUTHORIZED FOR EOD AND SPECCWAR DIVING REQUIRING NON-MAG SCUBA ACCESSORIES.</td>
</tr>
<tr>
<td>3.4.9</td>
<td>WEIGHT VEST, EOD CONTROLLED</td>
<td>EOD</td>
<td>MK 1 EOD DRY SUIT WEIGHT VEST</td>
<td>NAVSEA PEO MIW/PMS-EOD CONTROLLED ITEM.</td>
</tr>
<tr>
<td>3.4.10</td>
<td>TIMER/DEPTH GAUGE, COMMERCIAL</td>
<td>BEUCHAT</td>
<td>DIGITAL MCD-1 NON-MAGNETIC</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE WITH THE MK 16 UBA.</td>
</tr>
<tr>
<td>3.4.11</td>
<td>COMBATANT DIVER DISPLAY</td>
<td>OCEANIC</td>
<td>CDDM</td>
<td>General Notes: (2) Apply. AUTHORIZED FOR USE WITH SCUBA AND MK25 MOD 2 (USMC ONLY). THE CDDM IS AN ALTERNATE DISPLAY, IT DOES NOT REPLACE THE PRIMARY</td>
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## 3.4.1 Pressure Gauge (MK25/SCUBA) of the J Valve

Updated on: 8/10/2012 10:49:00 AM

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<tbody>
<tr>
<td>CAT I</td>
<td>Active</td>
<td>AQUA LUNG</td>
<td>COMBAT SWIMMER HARNESS (CHS) PN 495506</td>
<td>General Notes: (2) Apply. N/A * Admin Comments : 5/18/2009 - Added to the AMU list.</td>
</tr>
</tbody>
</table>

## 4.1 Recall/One-Way Communications

### General Notes

- WATERBORNE DIVERS SHOULD REMAIN SIX FEET FROM TRANSDUCER. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. 

Updated on: 3/18/2004 12:20:00 PM

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<tbody>
<tr>
<td>CAT II</td>
<td>Inactive</td>
<td>BENTOS, INC.</td>
<td>MODEL 4501B</td>
<td>WATERBORNE DIVERS SHOULD REMAIN SIX FEET FROM TRANSDUCER. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE.</td>
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Updated on: 3/18/2004 12:20:00 PM

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<td>CAT II</td>
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<td>NAUTRONIX HELLE (FORMERLY HELLE ENGINEERING INC.)</td>
<td>MODEL 3510</td>
<td>N/A * Admin Comments : 6/17/10 - Helle Engineering Inc. no longer exists, but acquired into Nautronix (Marine Technology Solutions).</td>
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Updated on: 6/17/2010 2:48:00 PM

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<td>CAT II</td>
<td>Active</td>
<td>OCEAN TECHNOLOGY SYSTEMS (OTS) Name : Ryan Lummus/John Hott Phone : 800.550.1984</td>
<td>DRS-100 DRS-100B</td>
<td>MODEL DRS-100 NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. MODEL DRS-100B REPLACES MODEL DRS-100. * Admin Comments : 5/11/10 - Status changed back to Active since DRS-100B still manufactured (confirmed bt 5/3/2010 Site Visit to OTS).</td>
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Updated on: 9/24/2010 10:18:00 AM

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<td>CAT II</td>
<td>Active</td>
<td>OCEAN ENGINEERING ENTERPRISES</td>
<td>DSD-6E</td>
<td>IF THE DSD-6E IS TO BE USED IN AN ENVIRONMENT IN WHICH FLAMMABLE GASES ARE PRESENT, INSTALL A MECHANICAL SWITCH ON THE POSITIVE BATTERY LEAD TO PRECLUDE TERMINAL SPARKING. DISCUSSIONS WITH THE MANUFACTURER INDICATE THAT A SWITCH OPTION MAY BE OFFERED ON FUTURE MODELS. OEE, 1638 COTTONWOOD DRIVE, NORTH CANTON, OHIO 44720, (330) 896-8816</td>
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Updated on: 3/18/2004 12:20:00 PM

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<td>CAT I</td>
<td>Inactive</td>
<td>PROPELLEX CORPORATION</td>
<td>MK 137 MOD 0</td>
<td>NO LONGER MANUFACTURED NOR SUPPORTED, BUT STILL AUTHORIZED FOR CONTINUED USE. USE AS LEAST 20 FT AWAY FROM DIVERS. DEVICE FIRES APPROXIMATELY 6 SECONDS AFTER INITIATION. REFER TO NAVSEA SWO 60 FOR HANDLING PRECAUTIONS. * Admin Comments : 4/21/11 - Moved from Section 4.2.</td>
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Updated on: 3/18/2004 12:20:00 PM

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<td>CAT I</td>
<td>Active</td>
<td>OCEAN ENGINEERING</td>
<td>DRS-8-003/S4A30</td>
<td>DO NOT OPERATE THE DIVER RECALL</td>
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Updated on: 3/18/2004 12:20:00 PM
4.1.7 CAT II Active PORTABLE DIVER RECALL SYSTEM OCEAN TECHNOLOGY SYSTEMS (OTS) Name: Ryan Lummus Phone: 800-550-1984 PDR-100

* Admin Comments: Added to ANU 8/18/17
Updated on: 8/18/2017 2:14:00 PM

4.2 THROUGH WATER COMMUNICATIONS

General Notes
(1): THROUGH WATER COMMUNICATION ASSEMBLIES ARE AUTHORIZED FOR USE WITH THE UBA MK 20 MOD 0/1 WHEN DIVING IN SCUBA MODE.

4.2.1 CAT II Inactive

Equip# Item/Stock# Manufacturer Designation/Model Comments

4.2.2 CAT II Active

Equip# Item/Stock# Manufacturer Designation/Model Comments

4.2.3 CAT II Inactive

Equip# Item/Stock# Manufacturer Designation/Model Comments

4.2.4 CAT II Active

Equip# Item/Stock# Manufacturer Designation/Model Comments

4.2.4.1 CAT II Active

Equip# Item/Stock# Manufacturer Designation/Model Comments

4.2.4.2 CAT II Inactive

Equip# Item/Stock# Manufacturer Designation/Model Comments

4.2.4.3 SURFACE STATION, COMMERCIAL OCEAN TECHNOLOGY STX-101M UPGRADED BASE STATION FOR USE WITH

https://secure.supsalv.org/anu/common/displayAll.asp
11/9/2017
<table>
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<td>SURFACE STATION, COMMERCIAL</td>
<td>OCEAN TECHNOLOGY SYSTEMS (OTS)</td>
<td>NO LONGER PRODUCED BUT STILL AUTHORIZED FOR USE. REPLACED BY SSB-1001B. SSB 1000 IS SURFACE STATION, SSB 1001 IS DIVER TRANSCEIVER OR PORTABLE SURFACE STATION.</td>
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<td>4.2.6</td>
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<td>SURFACE ACCESSORY KIT, COMMERCIAL</td>
<td>OCEAN TECHNOLOGY SYSTEMS (OTS)</td>
<td>WALK-ABOUT HEAD PHONE ACCESSORY. CONVERTS SSB-1000D/SSB-1001B AND SSB-1000 AND 2010 COMBINATION TO WALK ABOUT SUPERVISOR HEAD PHONE.</td>
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<td>4.2.7</td>
<td></td>
<td>RECALL DEVICE, COMMERCIAL</td>
<td>SAFARE-CROUZET</td>
<td>ERUS-2B5 IS SURFACE UNIT. ERUS-2A5 IS DIVER WORN UNDERWATER UNIT.</td>
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<tr>
<td>4.2.8</td>
<td></td>
<td>RECALL DEVICE, COMMERCIAL</td>
<td>SUBCOM</td>
<td>NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.</td>
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<td>4.2.9</td>
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<td>RECALL DEVICE, COMMERCIAL</td>
<td>DIVECOM, INC.</td>
<td>MUC-100 IS A SURFACE-TO-DIVER COMMUNICATIONS UNIT. MUC-2000 ALLOWS DIVER-TO-DIVER AND DIVER-TO-SURFACE COMMUNICATION WHEN USED AS A SET WITH MUC-100. THE DIVECOM SC-100 SURFACE WALK-ABOUT HEAD PHONE (CAT III ITEM) MAY ALSO BE USED WITH THIS SYSTEM AS AN ACCESSORY. ORDER MUC-2000A FOR DIVATOR MKII FFM COMPATIBLE COMMUNICATIONS. ORDER MUC-2000E FOR EXO-BR MS COMPATIBLE COMMUNICATIONS.</td>
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<td>4.2.10</td>
<td></td>
<td>RECALL DEVICE, COMMERCIAL</td>
<td>RJE INTERNATIONAL (FORMERLY EF.COM)</td>
<td>NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. PREVIOUSLY BUILT BY EF.COM. SCM-100M IS DIVER MODULE. SCM-120M IS SURFACE ACCURACY KIT. SCM-125M IS SURFACE MODULE.</td>
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<td>4.2.11</td>
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<td>RECALL DEVICE, COMMERCIAL</td>
<td>ORCATRON COMMUNICATIONS, LTD.</td>
<td>2000-SPPAGM IS 2 DIVER, 1 SURFACE UNIT SYSTEM. 2000S IS SURFACE UNIT. 2000D IS DIVER UNIT. NATO APPROVED, COMPATIBLE WITH AGA FFM.</td>
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<td>4.2.12</td>
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<td>RECALL DEVICE, COMMERCIAL</td>
<td>OCEAN TECHNOLOGY SYSTEMS (OTS)</td>
<td>AQUACOM SSB 1000D IS OLD DESIGNATION OF SSB-1001.5 WATT DIVER TRANSCEIVER INCLUDING VOICE MENU.</td>
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Updated on: 9/24/2010 10:30:00 AM

Updated on: 9/24/2010 10:33:00 AM

Updated on: 9/24/2010 10:34:00 AM

Updated on: 2/2/2010 2:22:00 PM

Updated on: 2/2/2010 2:22:00 PM

Updated on: 4/21/2011 11:51:00 AM

Updated on: 9/24/2010 10:35:00 AM

Updated on: 2/2/2010 2:22:00 PM

Updated on: 4/21/2011 11:51:00 AM

Updated on: 9/24/2010 10:35:00 AM

Updated on: 2/2/2010 11:35:00 AM

Updated on: 4/21/2011 11:51:00 AM
### 4.2.14

**RECALL DEVICE, COMMERCIAL**

**Manufacturer:** SUBCOM  
**Designation/Model:** MODEL 230D  
**Comments:** NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE.  
*Updated on: 2/3/2010 11:33:00 AM*

### 4.2.15

**THROUGH WATER COMMUNICATIONS**

**Manufacturer:** OCEAN TECHNOLOGY SYSTEMS (OTS)  
**Designation/Model:** SW-1000-SC  
**Comments:** SW-1000-SC IS DIVER WORN UNIT. MAG-1001S IS THE SURFACE UNIT.  
*Admin Comments: 09/04/03 - Added to the AMU List.*  
*Updated on: 9/7/2012 10:50:00 AM*

### 4.2.16

**THROUGH WATER COMMUNICATIONS**

**Manufacturer:** OCEAN TECHNOLOGY SYSTEMS (OTS)  
**Designation/Model:** MAG-1003D (PN 900360)  
**Comments:** MAG-1003D IS THE DIVER WORN UNIT. MAG-1003PS IS THE SURFACE UNIT.  
*Admin Comments: 7/27/12 - Added to the AMU List.*  
*Updated on: 9/7/2012 10:50:00 AM*

### 4.3 HARDWIRE COMMUNICATIONS

**NO General Notes**

### 4.3.1

**HYDROCOM UW COMMUNICATION SYSTEM, COMMERCIAL**

**Manufacturer:** ALLIANT TECH SYSTEMS, INC.  
**Designation/Model:** HCOM 1001000  
**Comments:** NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.  
*Updated on: 9/24/2010 10:02:00 AM*

### 4.3.2

**DIVER COMMUNICATION SYSTEM, COMMERCIAL**

**Manufacturer:** AMRON INTERNATIONAL  
**Designation/Model:** AMCOM III PN 2830A/24  
**Comments:** 2830A/24 IS 3 DIVER COMMUNICATION SYSTEM. ALL OPTIONS ARE AUTHORIZED FOR USE. HELMETS MUST BE OUTFITTED WITH AMRON EARPHONES/MICS. NOT COMPATIBLE WITH HYDROCOM OR HELLE EARPHONES/MICS. PN 2830A/24 IS THE UPGRADE FOR PN 2830A/24M/28FDH. PN 2830A/24M/28FDH IS NO LONGER MANUFACTURED BUT IS STILL AUTHORIZED FOR CONTINUED USE.  
*Admin Comments: 8/18/11 - PN change 2830/24M/28FDH to 2830A/24. 7/15/2014 - Changed Manufacturer Info.*  
*Updated on: 7/15/2014 7:52:00 AM*

### 4.3.3

**HELIUM SPEECH UNSCRAMBLER, COMMERCIAL**

**Manufacturer:** NAUTRONIX HELLE (FORMERLY HELLE ENGINEERING INC.)  
**Designation/Model:** 3315S  
**Comments:** N/A  
*Admin Comments: 6/17/10 - Helle Engineering Inc. no longer exists, but acquired by Nautronix (Marine Technology Solutions).*  
*Updated on: 9/24/2010 9:58:00 AM*

### 4.3.3.1

**AMCOM II HELIUM SPEECH UNSCRAMBLER, COMMERCIAL**

**Manufacturer:** AMRON INTERNATIONAL & DIVING SUPPLY INC.  
**Designation/Model:** AMRON P/N 2825/24/26-MS KMDSI P/N 2814-MS  
**Comments:** AMRON P/N A2825/24/26-MS IS AN AC POWERED UNIT WITH BATTERY BACKUP.  
*Admin Comments: 7/15/2014 - Updated Manufacturer Info.*  
*Updated on: 7/15/2014 7:53:00 AM*
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<td>HELIUM SPEECH UNSCRAMBLER, COMMERCIAL</td>
<td>NAUTRONIX HELLE (FORMERLY HELLE ENGINEERING INC.)</td>
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<td>* Admin Comments : 6/17/10 - Helle Engineering Inc. no longer exists, but acquired by Nautronix (Marine Technology Solutions). Updated on: 9/24/2010 9:59:00 AM</td>
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<td>COMMUNICATION SET, COMMERCIAL</td>
<td>KIRBY MORGAN DIVE SYSTEMS INC.</td>
<td>PN 515-030</td>
<td>PN 515-030 INCLUDES EARPHONES (RIGHT PN 515-005, LEFT PN 515-006) &amp; MICROPHONE (PN 515-009). COMPATIBLE WITH AMCOM III PN 2830A/24. Updated on: 8/18/2011 2:05:00 PM</td>
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<td>COMMUNICATION SET, COMMERCIAL</td>
<td>AMRON INTERNATIONAL</td>
<td>PN 1501-010, 1501-011N, 1501-014N, 1501-255 MN</td>
<td>PN 1501-010 INCLUDES EARPHONES (RIGHT PN 1501-012, LEFT PN 1501-013) &amp; MICROPHONE (PN 1501-011). COMPATIBLE WITH ALL AMCOMS. PN 1501-001N IS DYNAMIC MICROPHONE WITH EO CONNECTOR. PN 1501-014N EARPHONE SET WITH EO CONNECTOR. PN 1501-255M IS A PENETRATOR KIT WITH EO CONNECTORS.</td>
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<td>* Admin Comments : 8/18/11 - Separated from 3.5.5 7/15/2014 - Updated manufacturer Info. Updated on: 7/15/2014 7:54:00 AM</td>
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<td>DYNAMIC HEAD PHONES, COMMERCIAL</td>
<td>RJE INTERNATIONAL (FORMERLY EFCOM)</td>
<td>DAR 1000 MOD 2</td>
<td>NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE. FOR RECOMPRESSION CHAMBER USE ONLY. Updated on: 9/24/2010 10:03:00 AM</td>
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<td>MICROPHONE SET, COMMERCIAL</td>
<td>NAUTRONIX HELLE (FORMERLY HELLE ENGINEERING INC.)</td>
<td>PN 3455, 10780, 10782</td>
<td>NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.</td>
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<td>* Admin Comments : 6/17/10 - Helle Engineering Inc. no longer exists, but acquired into Nautronix (Marine Technology Solutions). Updated on: 9/24/2010 10:02:00 AM</td>
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<td>COMMUNICATION SET, COMMERCIAL</td>
<td>OCEAN TECHNOLOGY SYSTEMS (OTS)</td>
<td>BP-3MN, PN 900226-000 (SET) *BP-44B, PN 900080-001 (EARPHONE) *2PME, PN 910032-000 (MIC)</td>
<td>PRE-AMP LIED COMMUNICATION ASSEMBLY AUTHORIZED FOR USE WITH THE MK 20 MOD 0/1. BP-44B HAS NEXUS CONNECTOR. 2PME HAS FEMALE AMP CONNECTOR.</td>
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<td>* Admin Comments : 09/05/12 - Removed 1PME preamplified mic (with E/O connector) since it is no longer manufactured or in line with the MK 20 tech manual. Updated on: 9/5/2012 2:41:00 PM</td>
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<td>MICROPHONE, MILITARY</td>
<td>OCEAN TECHNOLOGY SYSTEMS (OTS)</td>
<td>SDV 16</td>
<td>FOR USE WITH CLOSED CIRCUIT REBREATHER. Updated on: 9/24/2010 10:16:00 AM</td>
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<td>OCEAN TECHNOLOGY SYSTEMS (OTS)</td>
<td>ME-16R</td>
<td>&quot;HOT-MIC&quot; NON-PREAMPLIFIED MICROPHONE ELEMENT USED IN VARIOUS COMMUNICATION ASSEMBLES INCLUDING EMA-2. Updated on: 9/24/2010 10:14:00 AM</td>
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<td>EMA-2</td>
<td>EARPHONE/MIC ASSEMBLY FOR USE WITH SSB-2010 AND 1001B, STANDARD COMS WITH OTS HIGH USE IN WATER CONNECTOR. Updated on: 9/24/2010 10:13:00 AM</td>
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<td>4.3.15</td>
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<td>OCEAN TECHNOLOGY SYSTEMS (OTS)</td>
<td>AQUACOM MK IV</td>
<td>FEATURES CHANGEABLE SUB-PANEL FOR THE UMBILICALS, ALLOWING COMMANDS TO SWITCH OUT BETWEEN BANANA &amp; MS (OR ANY TYPE)CONNECTORS. * Admin Comments : 9/19/11 - Connector note added. Updated on: 9/19/2011 1:08:00 PM</td>
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<td>OCEAN TECHNOLOGY SYSTEMS (OTS)</td>
<td>KM EAR/MICROPHONES (SUPER MIC)</td>
<td>FOR USE IN MK-21 AND KM-37 MASKS * Admin Comments : 07/27/09 - Added to the AMU list. Updated on: 9/24/2010 10:13:00 AM</td>
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<td>OCEAN TECHNOLOGY SYSTEMS (OTS)</td>
<td>YAD-S SPLITTER, PN 910034-000</td>
<td>DIVER TO DIVER &amp; DIVER TO TOPSIDE HARDWARE COMMS. Y SPLITTER ALLOWS 3 DIVERS ON A 2 DIVER COMMS BOX. COMROPE AUTHORIZED FOR USE AS A STRENGTH MEMBER PROVIDED THAT IT'S APPROPRIATELY ATTACHED TO THE DIVER VIA AN ANU APPROVED HARNESS. NOTE THAT THE COMROPE IS NEGATIVELY BUOYANT. * Admin Comments : 08/23/12 - Added to the AMU List. 03/27/12 - COMROPE approved as a strength member. Updated on: 3/10/2017 11:01:00 AM</td>
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<td>4.3.18</td>
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<td>AMRON International</td>
<td>PN 1406A (SET)</td>
<td>NON-PREAMPLIFIED COMMUNICATION ASSEMBLY AUTHORIZED FOR USE WITH THE MK 20 MOD 0/1. THE MICROPHONE ASSEMBLY (PN 1408) IS NOT WATERPROOF AND MUST BE KEPT CLEAN &amp; DRY AT ALL TIMES. WATERPROOF COVER (PN 1414) SHALL BE UTILIZED. Updated on: 3/10/2017 11:01:00 AM</td>
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## 5.1 GAS TRANSFER SYSTEMS

### NO General Notes

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<td>CAT I</td>
<td>OXYGEN BOOSTER PUMP</td>
<td>HASKEL</td>
<td>MODELS 26968, 55016, 55312</td>
<td>FOR PORTABLE USE ONLY. NOT FOR PERMANENT INSTALLATION ABOARD SHIP. HASKEL FILTER ASSEMBLIES 28728-10 AND 28728-12 NO LONGER AUTHORIZED FOR USE. HASKEL FILTER ASSEMBLIES 87260-10 &amp; 87260-12 TO BE UTILIZED BY THE MANUFACTURER AS REPLACEMENT. CHASE SUPPLY FILTER F1018-30N4 AUTHORIZED AS A DIRECT DROP IN REPLACEMENT FOR IN-SERVICE EQUIPMENT. SOF APPROVED.</td>
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<td>5.1.2</td>
<td>GAS TRANSFER SYSTEM</td>
<td>HASKEL</td>
<td>MODEL 5367002</td>
<td>FOR PORTABLE USE ONLY. NOT FOR PERMANENT INSTALLATION ON BOARD SHIP. TWO INDEPENDENT BOOSTER SYSTEMS, (1) O2 &amp; (1) HEO2. HASKEL FILTER ASSEMBLIES 28728-10 AND 28728-12 NO LONGER AUTHORIZED FOR USE. HASKEL FILTER ASSEMBLIES 87260-10 &amp; 87260-12 TO BE UTILIZED BY THE MANUFACTURER AS REPLACEMENT. CHASE SUPPLY FILTER F1018-30N4 AUTHORIZED AS A DIRECT DROP IN REPLACEMENT FOR IN-SERVICE EQUIPMENT.</td>
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<td>OXYGEN TRANSFER PUMP</td>
<td>AMINCO</td>
<td>AOC 250 &amp; OA 25</td>
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<td>OXYGEN TRANSFER PUMP</td>
<td>THE DURIRON COMPANY, INC. (PPI DIVISION)</td>
<td>1040-A 3081M</td>
<td>PPI PUMP MODIFIED BY FLUITRON. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE.</td>
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<td>GAS BOOSTER PUMP AND CHARGING CASE</td>
<td>HIGHSTAR INDUSTRIAL TECHNOLOGIES</td>
<td>HS-121055M2/HS-032628M2</td>
<td>SOF APPROVED.</td>
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<td>OXYGEN BOOSTER PUMP</td>
<td>MARINE SERVICES COMMERCIAL DIVING COMPANY, INC.</td>
<td>MS-H-201</td>
<td>HASKEL BOOSTER PUMP ASSY, MODEL 26968, MODIFIED BY MARINE SERVICES. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE. SOF APPROVED.</td>
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<tr>
<td>PORTABLE AIR FILLATION STATION</td>
<td>BAUER</td>
<td>BRIEFCASE FILL STATION NAVY</td>
<td>USED IN CONJUNCTION WITH AN AIR-STORAGE SYSTEM AND/OR AN AIR COMPRESSOR UNIT TO CHARGE CYLINDERS. A RELIEF VALVE SET TO RELIEVE AT 10% OVER THE RATED CAPACITY OF THE CYLINDERS BEING CHARGED SHALL BE UTILIZED BETWEEN THE CHARGING HOSE AND CYLINDER. THIS RELIEF VALVE IS NOT PART OF THE OEM PACKAGE AND MUST BE PROCURED SEPARATELY AS PART OF THE &quot;NAVY&quot; VERSION. APPROPRIATE PMS (MIP 5921/181 FADS III) SHALL BE CONDUCTED ON THE RELIEF VALVE. ENSURE THAT CERTIFICATION OF CONFORMANCE (COC) IS RECEIVED FROM THE MANUFACTURER STATING THAT THE RELIEF VALVE IS CLEANED TO THEIR COMPRESSOR STANDARDS. THE &quot;NAVY&quot; VERSION OF THIS ITEM SHOULD BE OUTFitted WITH CHARGING WHIPS WITH RELIEF VALVES RATED FOR 3000 PSI AND 3300 PSI FLASK CHARGING. A CALIBRATED CHARGING WHIP GAUGE SHOULD BE INSTALLED ON THE CHARGING WHIPS TO ENSURE ACCURATE PRESSURE READINGS.</td>
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<tr>
<td>OXYGEN BOOSTER PUMP</td>
<td>HYDRAULIC INTERNATIONAL, INC.</td>
<td>MODEL HIIHPG2-21059</td>
<td>ELECTRIC MOTOR HAS TO BE ORDERED FOR THE SPECIFIC TYPE OF ELECTRICAL POWER AVAILABLE AT THE LOCKER: PN HIIHPG2-21059 (115 VAC, 24 AMPS, 1-PHASE, 60 HZ) PN HIIHPG2-21059-B (230 VAC, 12 AMPS, 1-PHASE, 60 HZ) PN HIIHPG2-21059-C (230 VAC, 6.8 AMPS, 3-PHASE, 60 HZ) PN HIIHPG2-21059-D (460 VAC, 3.4 AMPS, 3-PHASE, 60 HZ) PN HIIHPG2-21059-E (380 VAC, 5.0 AMPS, 3-PHASE, 50 HZ) PN HIIHPG2-21059-F (220 VAC , 12 AMPS, 1-PHASE, 50 HZ)</td>
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Updated on: 10/9/2012 10:08:00 AM
### 5.1.1 CAT I Active Equipment

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<td>OXYGEN BOOSTER PUMP</td>
<td>HYDRAULIC INTERNATIONAL, INC.</td>
<td>HIHPG2-21070/A07302-O-A1-A2-PR-1330</td>
<td>ALLOWS USERS TO TAKE SUCTION FROM A LOW PRESSURE (50 PSIG) OXYGEN SOURCE AND BOOST PRESSURE UP TO 3000 PSIG. THE GAS SUPPLY MUST NOT EXCEED 185 PSIG.</td>
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**Admin Comments:** 9/29/2014 - Added to AMU List

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<td>GAS BOOSTER PUMP</td>
<td>HYDRAULICS INTERNATIONAL, INC.</td>
<td>HIHPG4-29035</td>
<td>SOF APPROVED PORTABLE AIR DRIVEN GAS BOOSTER PUMP FOR USE IN CHARGING THE EX/MK-11 SDV (NAVSEA CERTIFIED SYSTEM)</td>
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**Admin Comments:** 10/1/2014 - Added to AMU List

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<td>AIR BOOSTER PUMP</td>
<td>3D INSTRUMENTS</td>
<td>SIERRA ELECTRIC AIR BOOSTER 8000 &amp; 9000 SERIES</td>
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**Admin Comments:** AUTHORIZED FOR USE WITH AIR ONLY. ANY USE WITH OXYGEN IS PROHIBITED

### 5.2 HP COMPRESSORS

**General Notes**

(1): DIVING AIR COMPRESSORS USED TO PROVIDE AIR FOR AFLOAT OR ASHORE DIVING AND/OR HYPERBARIC FACILITIES MAY BE EITHER OIL FREE DESIGN OR SUITABLE FOR USE WITH APPROVED LUBRICANTS IAW THE U.S. NAVY DIVE MANUAL, SS521-AG-PRO-010.

(2): ALL DIVING COMPRESSORS SHALL BE AIRCOOLED MULTI-STAGE TYPE WITH AN INTERCOOLER BETWEEN EACH STAGE, A FINAL AFTERCOOLER AND BE FITTED WITH AN APPROPRIATE MULTI TOWER AIR PURIFICATION /FILTRATION SYSTEM LISTED IN SECTIONS 5.5 OF THIS DOCUMENT. THE PURIFICATION SYSTEM SHALL PROCESS AIR TO CGA GRADE "E" STANDARDS. SPECIFY AT TIME OF ORDER AN AIR QUALITY TEST BE PERFORMED PRIOR TO SYSTEM SHIPMENT. A COPY OF THE AIR ANALYSIS REPORT SHALL BE INCLUDED IN THE COMPRESSOR DOCUMENTATION PACKAGE.

(3): PRIME MOVER MAY BE; DIESEL, GASOLINE OR ELECTRIC AS FITS THE SPECIFIC OPERATIONAL REQUIREMENTS OF THE UNIT EMPLOYING THE COMPRESSOR. FOR ELECTRICAL DRIVEN COMPRESSORS THAT MAY BE EMPLOYED OUT DOORS, SPECIFY A COMPRESSOR CABINET THAT IS CONSTRUCTED TO PROTECT THE COMPRESSOR SYSTEM ON ALL SIDES FROM INCLEMENT WEATHER. THE CABINET SHALL BE MADE OF ALUMINUM AND INCLUDE LIFTING EYES AND FORKLIFT SLOTS. THE LIFTING EYES SHALL BE A STRUCTURAL COMPONENT OF THE SKID AND SHALL BE ABLE TO SUPPORT THE WEIGHT OF THE ENTIRE PACKAGE.

(4): ALL DIVING AIR COMPRESSORS SHOULD HAVE THE FOLLOWING BASIC FEATURES: DRY ELEMENT INLET FILTER, MOISTURE SEPARATOR OR AIR PURIFICATION SYSTEM; OIL PRESSURE GAUGE; PRESSURE RELIEF VALVE FOR EACH COMPRESSOR STAGE; LOW OIL PRESSURE SHUTDOWN SWITCH; AUTOMATIC UN-LOADED; AUTOMATIC CONDENSATE DRAIN CAPABILITY; DISCHARGE CHECK VALVE; AND BELT/PULLEY GUARDS.

(5): FOR COMPRESSORS EQUIPPED WITH A VOLUME TANK, THAT TANK SHALL BE BUILT TO AND BE STAMPED IN ACCORDANCE WITH ASME SECTION VIII DIVISION 1 STANDARDS.

(6): ALL HIGH PRESSURE COMPRESSORS (SECTIONS 5.2 & 5.3) SHOULD ALSO BE EQUIPPED WITH: PRESSURE GAUGE FOR EACH STAGE, AFTER COOLER; HIGH TEMPERATURE SHUTDOWN SWITCH, HOURMETER AND BACK PRESSURE REGULATOR.

(7): PER GENspecs FOR NAVAL SHIPS S9AA-AA-SPN-010/GENspec; FITTINGS CONTAINING CADMIUM (I.E.,
PLATED FITTINGS AND BOLTS) ARE NOT AUTHORIZED IN SYSTEMS WHERE THE POTENTIAL EXISTS FOR TEMPERATURES OF 400 DEGREES F AND HIGHER, AND MAY COME INTO CONTACT WITH PETROLEUM PRODUCTS. WHEN PURCHASING A DIVING AIR COMPRESSOR SPECIFY THAT ALL FITTINGS/BOLTS BE STAINLESS OR OTHER SUITABLE MATERIAL THAT IS NOT CADMIUM.

(8): IF A COMPRESSOR SYSTEM IS NOT LISTED HEREIN AND A COMMAND DESIRES TO GAIN AUTHORIZATION FOR USE, SUBMIT A FORMAL REQUEST TO NAVSEASYSCOM CODE 00C3, INCLUDE COMPLETE COPIES OF MANUFACTURER’S SPECIFICATIONS AND OPERATING PROCEDURES.

(9): ALL COMPRESSORS MUST BE VERIFIED AS PROVIDING DIVERS QUALITY AIR PRIOR TO CONNECTING INTO A DLSS OR USE IN CHARGING DLSS AIR FLASKS.

(10): SPECIFY AT THE TIME OF ORDER CALIBRATED PRESSURE GAUGES, HYDROTEST TEST CERTIFICATES FOR ALL SEPARATORS, PURIFICATION CHAMBERS, AND FLEX HOSE CHARGING WHIPS. ADDITIONALLY, ALL SAFETY RELIEF VALVES ARE TO BE EQUIPEDED WITH A METAL TAG WİRED TO THE VALVE BODY INDICATING THE WORKING PRESSURE AND TEST DATE OF SAID VALVE.

(11): AN OPERATING PROCEDURE PLACARD SHALL BE POSTED ON THE COMPRESSOR LISTING OIL PRESSURE AND STAGE PRESSURE PARAMETERS AS LISTED IN THE MANUFACTURER’S TECHNICAL MANUAL.

(12): A COMPRESSOR LOG SHALL BE MAINTAINED WITH THE COMPRESSOR AT ALL TIMES. IT SHALL RECORD DATE, START/STOP HOUR-METER READINGS, CORRECTIVE/PREVENTIVE MAINTENANCE ACCOMPLISHED, THE COMPONENT THE COMPRESSOR IS CHARGING, PRESSURES NOT WITHIN PARAMETERS.

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<td>HP AIR COMPRESSOR</td>
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<td>3K3B-44</td>
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<td>HP AIR COMPRESSOR, COMMERCIAL</td>
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<td>5.2.25</td>
<td>5C-4310-01-172-3140</td>
<td>INGERSOLL RAND</td>
<td>4R15, 15T4 3000 PSI, 20 SCFM</td>
<td>GENERAL NOTES APPLY 4R15 IS NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE AND WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. 15T4 REMAINS CURRENT PRODUCTION MODEL.</td>
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Updated on: 2/3/2010 12:48:00 PM

### 5.2.28 Cat I Active

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<td>1H-4310-00-779-5238</td>
<td>VARIOUS</td>
<td>MIL-C-18419, 3000PSI, 60-100 SCFM</td>
<td>GENERAL NOTES APPLY. THESE MIL-SPEC HPACs ARE FOR PERMANENTLY INSTALLED SHIPBOARD USE.</td>
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Updated on: 6/16/2010 4:13:00 PM

### 5.2.33 Cat I Active

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* Admin Comments: 10/6/2014 - Added to AMU list to consolidate authorization of air compressors by manufacturer. SUPERSEDED BY ITEM 5.2.33 |

Updated on: 8/4/2015 3:54:00 PM

### 5.2.34 Cat I Active

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* Admin Comments: 10/6/2014 - Added to AMU list to consolidate authorization of air compressors by manufacturer. SUPERSEDED BY ITEM 5.2.33 |

Updated on: 8/4/2015 3:54:00 PM

### 5.3 MP & LP COMPRESSORS

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<td>5.3.1</td>
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<td>RIX INDUSTRIES</td>
<td>2JS2B-300 400 PSI, 150 SCFM</td>
<td>COMPRESSOR IS OIL FREE DESIGN.</td>
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Updated on: 9/24/2010 11:17:00 AM

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<td>QUINCY</td>
<td>5120, W-5120LPH 250 PSIG, 87 SCFM</td>
<td>NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER.</td>
</tr>
</tbody>
</table>

Updated on: 9/24/2010 11:17:00 AM

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<tr>
<td>5.3.3</td>
<td></td>
<td>AQUA AIR INDUSTRIES INC.</td>
<td>AA1 325 200 PSIG, 18 SCFM</td>
<td>N/A</td>
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</tbody>
</table>

* Admin Comments: 8/1/11 - Removed note requiring additional approval from NAVSEA. |

Updated on: 8/1/2011 1:08:00 PM

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<td>5.3.4</td>
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<td>ATLAS COPCO</td>
<td>18LT8BE200 PSIG, 20 SCFM</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE.</td>
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Updated on: 10/28/2013 2:09:00 PM
5.4 COMPRESSOR AIR PURIFICATION SYSTEMS

General Notes
(1): FAILURE TO PERFORM MANUFACTURER REQUIRED MAINTENANCE CAN RESULT IN PREMATURE DLSS COMPONENT FAILURES AND POSSIBLY CAUSE DIVER INJURY. ENSURE PROPER PMS COVERAGE PRIOR TO USE.

(2): INDUSTRIAL AIR PURIFICATION CARTRIDGES DO NOT REMOVE CARBON MONOXIDE AND MUST NOT BE USED IN BREATHING AIR APPLICATIONS. USE ONLY MANUFACTURER RECOMMENDED FILTER ELEMENTS IN BREATHING AIR FILTRATION SYSTEMS

(3): BREATHING AIR PURIFICATION SYSTEMS SHALL BE SIZED APPROPRIATELY TO MATCH THE OUTPUT CAPACITY OF THE SELECTED AIR COMPRESSOR

<table>
<thead>
<tr>
<th>Equip#</th>
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<th>Manufacturer</th>
<th>Designation/Model</th>
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</tr>
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<tr>
<td>5.4.6</td>
<td></td>
<td>INGERSOLL RAND</td>
<td>EAGLE 50LB083</td>
<td>General Notes: (1) (2) Apply. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER.</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>77,600 FT3 @ 80ºF, 20 CFM @ 3000 PSI FOR USE WITH INGERSOLL RAND MODEL 15TH4.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>77,600 FT3 @ 800F, 20 CFM @ 3000 PSI FOR USE WITH INGERSOLL RAND MODEL 15TH4.</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>* Admin Comments : 02/29/00 - Inactive.</td>
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<td>Updated on: 6/24/2013 9:34:00 AM</td>
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<tr>
<td>5.4.17</td>
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<td>BAUER</td>
<td>VARIOUS</td>
<td>General Notes: (1) (2) (3) Apply.</td>
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<td></td>
<td>* Admin Comments : 10/6/2014 - Added to AMU list to consolidate authorization of purification systems by manufacturer.</td>
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<tr>
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<td></td>
<td>MAKO</td>
<td>VARIOUS</td>
<td>General Notes: (1) (2) (3) Apply.</td>
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<tr>
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<td></td>
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<td></td>
<td>* Admin Comments : 10/6/2014 - Added to AMU list to consolidate authorization of purification systems by manufacturer.</td>
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<td></td>
<td></td>
<td>Comments</td>
</tr>
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<td>5.4.19</td>
<td></td>
<td>BAUER</td>
<td>PAFA</td>
<td>PORTABLE AIR PURIFICATION SYSTEM THAT CAN BE HOOKED UP TO ANY AIR COMPRESSOR. MAXIMUM OPERATING PRESSURE OF 6,000 PSIG. CAPABLE OF PROCESSING UP TO 12,000 CU. FT. OF AIR.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>THE USE OF THIS FILTER AND PORTABLE AIR MONITOR (PAM) DOES NOT REMOVE THE NEED FOR A WAIVER WHEN USING COMMERCIALLY PROCURED AIR FROM A SOURCE THAT DOES NOT MEET TABLE 4-2 OF THE USN DIVE MANUAL.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>* Admin Comments : 6/22/2015 - Added to AMU list</td>
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<td>Updated on: 6/22/2015 2:32:00 PM</td>
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</table>

5.5 SODALIME CARBON DIOXIDE ABSORBENTS

General Notes
(1): ONLY "NON-INDICATING" SODALIME PRODUCTS ARE AUTHORIZED FOR USE.

https://secure.supsalv.org/anu/common/displayAll.asp
### 5.5. EXTENDAIR CO2 ABSORBENTS

<table>
<thead>
<tr>
<th>Equip#</th>
<th>Item/Stock#</th>
<th>Manufacturer</th>
<th>Designation/Model</th>
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<tr>
<td>5.5.1</td>
<td>CAT I Active</td>
<td>CO2 ABSORBENTS</td>
<td>W. R. GRACE &amp; CO.</td>
<td>HIGH PERFORMANCE SODASORB, REGULAR</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>General Notes: (1) Apply. THIS IS A 4 - 8 MESH SODALIME</td>
</tr>
<tr>
<td>5.5.2</td>
<td>CAT I Active</td>
<td>CO2 ABSORBENTS</td>
<td>MOLECULAR PRODUCTS LTD.</td>
<td>SOFNOLIME 408 MESH NI L GRADE</td>
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<tr>
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<td>General Notes: (1) Apply. THIS IS A 4 - 8 MESH SODALIME.</td>
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<td>CAT I Active</td>
<td>CO2 ABSORBENTS</td>
<td>MOLECULAR PRODUCTS LTD.</td>
<td>SOFNOLIME 812 MESH NI D GRADE</td>
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<td>General Notes: (1) Apply. THIS IS A 8 - 12 MESH SODALIME.</td>
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<tr>
<td>5.5.4</td>
<td>CAT I Active</td>
<td>CO2 ABSORBENTS</td>
<td>DRAEGER</td>
<td>DIVE SORB PRO PN 67-37062</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>AUTHORIZED FOR USE ONLY WITH THE MK 25 UBA AND RECOMPRESSION CHAMBERS WHICH HAVE A CO2 MONITORING CAPABILITY. THIS IS A 5-8 MESH SODALIME.</td>
</tr>
<tr>
<td>5.5.5</td>
<td>CAT I Active</td>
<td>EXTENDAIR CO2 ABSORBENTS</td>
<td>MICROPORE Inc.</td>
<td>MK25 SYSTEM KIT PN: MP-1130K</td>
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<tr>
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<td>MK25 MICROPOR ABSORBENT CARTRIDGE (CASE QTY6) PN: SM-0505C</td>
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<td>MODE MICROPOR ABSORBENT CARTRIDGE (CASE QTY4) PN: SM-0625C</td>
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<td>RESTRICTED USE AS CERTIFIED BY 00C4</td>
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### 5.6. GAS ANALYSIS EQUIPMENT

**General Notes**
(1): ANALYZERS USED INSIDE A HYPERBARIC CHAMBER SHALL BE CALIBRATED PRIOR TO USE.

(2): NICAD RECHARGEABLE BATTERIES SHALL NOT BE USED INSIDE OF A HYPERBARIC CHAMBER. ONLY SEALED ALKALINE BATTERIES CAN BE USED INSIDE A HYPERBARIC CHAMBER.

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<tr>
<td>5.6.1</td>
<td>CAT I Active</td>
<td>CARBON DIOXIDE ANALYZER HAND PUMP, COMMERCIAL</td>
<td>DRAEGER</td>
<td>MODEL 21, 31 &amp; ACCURO</td>
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<td>5.6.2</td>
<td>CAT I Active</td>
<td>CO2 COLOROMATIC TUBE, COMMERCIAL</td>
<td>DRAEGER</td>
<td>PN CH 23501</td>
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<td>Updated on: 12/20/2013 9:19:00 AM</td>
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<tr>
<td>5.6.3</td>
<td>CAT I Active</td>
<td>COLOROMETRIC GAS TUBES, COMMERCIAL</td>
<td>DRAEGER</td>
<td>VARIOUS RANGES</td>
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**General Notes:**

1. Apply. THE 5000-USN VERSION IS NO LONGER MANUFACTURED BUT IS STILL AUTHORIZED FOR CONTINUED USE.

**Updated on:** 12/20/2013 9:20:00 AM

**Equip#** | **Item/Stock#** | **Manufacturer** | **Designation/Model** | **Comments** |
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<tr>
<td>5.6.4</td>
<td></td>
<td>CARBON DIOXIDE MONITOR, COMMERCIAL ITEM</td>
<td>ANALOX</td>
<td>5000/5001-USN</td>
</tr>
<tr>
<td>5.6.5</td>
<td>OXYGEN ANALYZER PORTABLE, COMMERCIAL</td>
<td>TELEDYNE</td>
<td>320 B</td>
<td>NICAD RECHARGEABLE BATTERIES SHALL NOT BE USED INSIDE RECOMPRESSION CHAMBERS. NO LONGER MANUFACTURED NOR SUPPORTED BUT AUTHORIZED FOR CONTINUED USE.</td>
</tr>
<tr>
<td>5.6.6</td>
<td>OXYGEN ANALYZER, COMMERCIAL</td>
<td>TELEDYNE</td>
<td>326 (SERIES)</td>
<td>N/A</td>
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<td>5.6.7</td>
<td>OXYGEN ANALYZER, COMMERCIAL</td>
<td>ANALOX</td>
<td>SERIES 1000</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE.</td>
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<td>5.6.8</td>
<td>OXYGEN ANALYZER, COMMERCIAL</td>
<td>TELEDYNE</td>
<td>TED 60-T</td>
<td>NICAD RECHARGEABLE BATTERIES SHALL NOT BE USED INSIDE RECOMPRESSION CHAMBERS. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.</td>
</tr>
<tr>
<td>5.6.9</td>
<td>PORTABLE OXYGEN ANALYZER, COMMERCIAL</td>
<td>ANALOX</td>
<td>MINI-02-1</td>
<td>DESIGNED TO VERIFY O2 LEVELS IN NITROX AND HELIOX CYLINDERS. MONITOR COMPRESSOR OUTPUT FOR O2 LEVELS IN DIVING CHAMBERS AND IN OTHER MEDICAL APPLICATIONS. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.</td>
</tr>
<tr>
<td>5.6.10</td>
<td>PORTABLE CARBON DIOXIDE ANALYZER, COMMERCIAL</td>
<td>ANALOX</td>
<td>(501) MINI-CO2 PORTABLE CO2 ANALYZER</td>
<td>OPERATES UNDER TWO RANGES: 0.1 PERCENT TO 5 PERCENT CO2 (501-5), 0.01 PERCENT TO 2 PERCENT CO2 (501-2). DIGITAL READOUT WITH AUDIBLE ALARM. WATER RESISTANT, RECHARGEABLE BATTERIES. NO LONGER MANUFACTURED OR SUPPORTED, BUT STILL APPROVED FOR USE.</td>
</tr>
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**Updated on:** 12/20/2013 9:20:00 AM

**Updated on:** 12/20/2013 9:20:00 AM

**Updated on:** 12/20/2013 9:20:00 AM

**Updated on:** 12/20/2013 9:20:00 AM

**Updated on:** 12/20/2013 9:20:00 AM

**Updated on:** 12/20/2013 9:20:00 AM

**Updated on:** 12/20/2013 9:20:00 AM

**Updated on:** 12/20/2013 9:20:00 AM
### 5.6.1

**Carbon Dioxide Analyzer, Commercial**

**Manufacturer:** Geotechnical Instruments Ltd.

**Name:** Steve Billingham

**Phone:** +44(0)1926 338112

**ANAGAS Model HB 1.2A**

Measures CO₂ up to 2.5 percent of Sev and 0₂ from 0 to 2 ATA pp0₂ at pressures from 1 to 6 ATA. The ANAGAS Model HB 1.2A is a specifically modified unit for Navy use, and is designed for use inside chambers used in high humidity, i.e., DDS. Note: Only the ANAGAS Model HB 1.2A (ID'd by a blue case) is authorized.

*Admin Comments:* 8/18/15 - Updated to provide correct model number of the current unit in use which analyzes both CO₂ and O₂. The original unit HB 1.1 only analyzed CO₂.

**Updated on:** 8/18/2015 9:28:00 AM

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<td>5.6.14</td>
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<td>5.6.15</td>
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### 5.6.12

**CO₂ Monitor, Commercial**

**Manufacturer:** Analox

**Designation/Model:** DA, 5DS P/N

No longer manufactured but still authorized for use.

P/N 5DA has range of 0.01 to 2.00% and is for air chamber use. P/N 5DS has range of 1-9999 ppm and is for sat chamber use.

*Admin Comments:* 12/19/13 - Changed status to inactive

**Updated on:** 12/20/2013 9:21:00 AM

<table>
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### 5.6.13

**CO Monitor, Commercial**

**Manufacturer:** Analox

**Designation/Model:** Model 3D

No longer manufactured but still authorized for use.

Fixed installation operation under normal atmospheric pressure (1 ATA) conditions. Range of measurement can be specified at time of ordering. Audible alarm. LCD display.

*Admin Comments:* 12/19/13 - Changed status to inactive

**Updated on:** 12/20/2013 9:21:00 AM

<table>
<thead>
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<th>Equip#</th>
<th>Item/Stock#</th>
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### 5.6.14

**O₂ / CO₂ Combined Monitor, Commercial**

**Manufacturer:** Analox

**Designation/Model:** SUB E-IR15P

No longer manufactured but still authorized for use. Portable, battery powered, combination oxygen and carbon dioxide monitor for use inside or outside of a hyperbaric chamber. Measures O₂ levels in range of 0-2000 mbar ppO₂. Measure CO₂ concentrations from 0 to 50 mbar ppCO₂.

*Admin Comments:* 3/21/11 - Corrected P/N from E-1R-15P to PN E-IR15P as based on the NEDU TM 98-05.

11/15/13 - Changed to inactive. new model available model # SUB MK1IP, but has not yet been evaluated and AMU.

**Updated on:** 12/20/2013 9:21:00 AM

<table>
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### 5.6.15

**CO₂ Analyzer, Commercial**

**Manufacturer:** Analox

**Designation/Model:** "Buddy" CO₂

No longer manufactured but still authorized for continued use.

Portable, battery powered, for external monitoring of hyperbaric chamber environment.

Recalibration software allows commands to conduct annual calibration, calibration and other servicing is available via the.
## 6.1 GROUND FAULT INTERRUPTERS

**General Notes**

(1): USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. FOR MORE INFORMATION REFER TO THE U.S. NAVY DIVE MANUAL, SS521-AG-PRO-010.
6.2 PHOTOGRAPHIC AND VIDEO EQUIPMENT

General Notes

(1): AUTHORIZED AS CAT II DIVER PREFERENCE FOR IN-WATER APPLICATIONS ONLY. CAMERA AND VIDEO EQUIPMENT IS NOT CONSIDERED CAT II FOR INSTALLATION IN HYPERBARIC CHAMBERS.

(2): EQUIPMENT THAT UTILIZES LITHIUM BATTERIES SHALL MEET THE REQUIREMENTS PER (1) NAVSEA INSTRUCTION 9310.1B, NAVAL LITHIUM BATTERY SAFETY PROGRAM & (2) NAVEA S9310-AQ-SAF-010, THE TECHNICAL MANUAL FOR NAVY LITHIUM BATTERY SAFETY PROGRAM RESPONSIBILITIES AND PROCEDURES.

<table>
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<th>Item/Stock#</th>
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<td>CAT II Active</td>
<td>UNDERWATER STILL PICTURE CAMERA, BATTERY POWER</td>
<td>VARIOUS</td>
<td>DIVER PREFERENCE</td>
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<td>6.2.2</td>
<td>CAT II Active</td>
<td>UNDERWATER VIDEO CAMERA, BATTERY POWER</td>
<td>VARIOUS</td>
<td>DIVER PREFERENCE</td>
</tr>
<tr>
<td>6.2.3</td>
<td>CAT II Active</td>
<td>UNDERWATER VIDEO CAMERA, UMBILICAL POWER</td>
<td>DIVER PREFERENCE</td>
<td>DIVER PREFERENCE</td>
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<tr>
<td>6.2.4</td>
<td>CAT II Inactive</td>
<td>STROBE LIGHT, BATTERY POWER</td>
<td>SUBSEA</td>
<td>MK 150</td>
</tr>
<tr>
<td>6.2.5</td>
<td>CAT II Inactive</td>
<td>ELECTRONIC FLASH, BATTERY POWER</td>
<td>NIKON INC.</td>
<td>NIKONOS SB 102, SB 105</td>
</tr>
<tr>
<td>6.2.7</td>
<td>CAT II Inactive</td>
<td>UNDERWATER TELEVISION SYSTEM</td>
<td>KONGSBERG MARITIME</td>
<td>HYDRO COLOR TC-181</td>
</tr>
<tr>
<td>6.2.8</td>
<td>CAT II Active</td>
<td>CAMERA ASSEMBLY</td>
<td>KONGSBERG MARITIME</td>
<td>KONGSBERG SIMRAD DWG 082-0534</td>
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<tr>
<td>6.2.9</td>
<td>CAT II Active</td>
<td>UNDERWATER TELEVISION SYSTEM</td>
<td>KONGSBERG MARITIME</td>
<td>DUCT II DWG 082-0500</td>
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<td>6.2.11</td>
<td>CAT II Inactive</td>
<td>UNDERWATER TELEVISION SYSTEM</td>
<td>S-TRON DUCTS I S-TRON DWG 110000 REV A</td>
<td>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. SYSTEM INCLUDES SURFACE CONTROL UNIT (SCU), CAMERA, LIGHT AND UMBILICAL. Updated on: 8/14/2012 8:38:00 AM</td>
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<tr>
<td>6.2.12</td>
<td>CAT II Inactive</td>
<td>UNDERWATER TELEVISION SYSTEM</td>
<td>KONGSBERG MARITIME SEA BEE II,2D, CM-55</td>
<td>NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. * Admin Comments : 4/26/12 - Kongsberg Simrad became Kongsberg Maritime. Updated on: 8/14/2012 11:53:00 AM</td>
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<tr>
<td>6.2.13</td>
<td>CAT II Active</td>
<td>LIGHT METER</td>
<td>SEKONIC N/A</td>
<td>General Notes: (1) Apply. BATTERY POWERED Updated on: 8/14/2012 8:21:00 AM</td>
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<tr>
<td>6.2.14</td>
<td>CAT II Active</td>
<td>UNDERWATER TELEVISION SYSTEM</td>
<td>MPK-60 UNDERWATER TV SYSTEM SELF CONTAINED</td>
<td>General Notes: (3) Apply. Updated on: 8/14/2012 11:57:00 AM</td>
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<tr>
<td>6.2.15</td>
<td>CAT II Active</td>
<td>DC POWER SUPPLY COMMERCIAL AVAILABLE</td>
<td>SONNICHEN A-200</td>
<td>N/A Updated on: 3/18/2004 12:21:00 PM</td>
</tr>
<tr>
<td>6.2.16</td>
<td>CAT II Active</td>
<td>DC POWER SUPPLY, COMMERCIAL</td>
<td>ACOPIAN &amp; ADVANCED TECHNOLOGY RESEARCH ACOPIAN PN W184Y1500, U28Y1500 ATR PN IS PS-28-15-M</td>
<td>N/A Updated on: 9/24/2010 12:26:00 PM</td>
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<tr>
<td>6.2.17</td>
<td>CAT II Active</td>
<td>UNDERWATER BORESCOPE, NAVSEA CONTROLLED ITEM</td>
<td>NAVSEA NAVSEA DWG 6697610 ESSM #UW 0324 ESSM #UW 0324A</td>
<td>THIS ITEM MUST BE POWERED AND RECEIVE GFI PROTECTION FROM THE DUCTS SURFACE CONTROL UNIT AND UMBILICAL. ESSM #UW 0324A AUTHORIZED FOR USE WITH ANU ITEM 6.2.24 ONLY (ESSM #UW 2235). Updated on: 3/10/2017 11:04:00 AM</td>
</tr>
<tr>
<td>6.2.18</td>
<td>CAT II Active</td>
<td>PIPE INSPECTION EQUIPMENT, COMMERCIAL</td>
<td>DEEPSEA POWER AND LIGHT SEESNAKE KD-VARIOUS DEPENDENT ON REEL LENGTH</td>
<td>FOUR INTERCHANGEABLE REELS AND CONTROLLERS, REELS 200' SEESNAKE, PN 744-00301-08 325' SEESNAKE, PN 744-00301-09 100' MINI SEESNAKE, PN 744-01201-01 200' MINI SEESNAKE, PN 744-01201-02 CONTROLLERS POWER SUPPLY ONLY, PN 742-00901-01 MONITOR NO VCR, PN 742-010-001-01 MONITOR W/ VCR, PN 742-013-001-01 VIDEO SYSTEM MANAGER, PN 742-008-001-01 Updated on: 3/18/2004 12:21:00 PM</td>
</tr>
<tr>
<td>6.2.19</td>
<td>CAT II</td>
<td>UNDERWATER TELEVISION SYSTEM, COMMERCIAL</td>
<td>KONGSBERG MARITIME MODEL OE 9021</td>
<td>CONTROL UNIT MODEL OE 1261 MUST BE ORDERED WITH DUCTS II LINE INSULATION MONITOR (PART NUMBER 1263-6011) WITH</td>
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https://secure.supsalv.org/anu/common/displayAll.asp

11/9/2017
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<td>6.2.20</td>
<td>0</td>
<td>OUTLAND TECHNOLOGY, INC.</td>
<td>UWS-3010, UWS-3010D</td>
<td>UWS-3010 PROVIDES CAMERA AND LIGHT VIA UMBILICAL FOR ONE DIVER. UWS-3010D PROVIDES CAMERA AND LIGHT VIA UMBILICALS FOR TWO DIVERS. AC POWERED, INTERNAL ELECTRICAL PROTECTION.</td>
</tr>
<tr>
<td>6.2.21</td>
<td>CAT II</td>
<td>OUTLAND TECHNOLOGY, INC.</td>
<td>UWS-7010</td>
<td>UWS-7010 PROVIDES CAMERA AND LIGHT VIA UMBILICAL FOR ONE DIVER. HIGHLY PORTABLE PELICAN CASE CONFIGURATION. AC POWERED, INTERNAL ELECTRICAL PROTECTION.</td>
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<tr>
<td>6.2.22</td>
<td>CAT II</td>
<td>OUTLAND TECHNOLOGY, INC.</td>
<td>UWS-7550</td>
<td>UWS-7550 PROVIDES CAMERA AND LIGHT VIA UMBILICAL FOR ONE DIVER. HIGHLY PORTABLE PELICAN CASE CONFIGURATION. DC POWERED, INTERNAL ELECTRICAL PROTECTION. THE LIGHT USED WITH THIS SYSTEM IS LOW WATTAGE (TO CONSERVE BATTERIES), THEREFORE THE COVERAGE IS SLIGHTLY LESS THAN THE LIGHT PROVIDED WITH THE UWS-7010.</td>
</tr>
<tr>
<td>6.2.23</td>
<td>CAT II</td>
<td>OUTLAND TECHNOLOGY, INC.</td>
<td>UWS-3210, UWS-3210D</td>
<td>UWS-3210 PROVIDES CAMERA AND LIGHT VIA UMBILICAL FOR ONE DIVER. UWS-3210D PROVIDES CAMERA AND LIGHT VIA UMBILICALS FOR TWO DIVERS. AC POWERED, INTERNAL ELECTRICAL PROTECTION.</td>
</tr>
<tr>
<td>6.2.24</td>
<td>CAT II</td>
<td>ESSM</td>
<td>ESM # UW 2235</td>
<td>N/A</td>
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<tr>
<td>6.2.25</td>
<td>CAT II</td>
<td>GENERAL ELECTRIC</td>
<td>EVEREST XLG3, EVEREST XL PRO, MENTOR VISUAL IQ</td>
<td>General Notes: (2) Apply. APPROVED WITH A DEPTH LIMITATION OF 32 FSW (1 BAR) AS STATED IN THE SPECIFICATIONS.</td>
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* Admin Comments: Added to the AMU list 08/20/09. This item is an upgrade to AMU item 9.2.20 (UWS-3010 & UWS-3010D). Updated on: 12/30/2010 12:30:00 PM

* Admin Comments: 7/12/10 - Added to the AMU List. Updated on: 9/24/2010 12:31:00 PM

* Admin Comments: 7/13/10 - Added to the AMU List. 2/27/2015 - Combined XLG3 and XL Pro into one item. Added MViQ. Updated on: 2/27/2015 9:28:00 AM
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<td>6.2.28</td>
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<tr>
<td>CAT II</td>
<td>UNDERWATER CONCRETE INSPECTION SYSTEM</td>
<td>NFESC</td>
<td>REBAR LOCATOR REBOUND HAMMER ULTRASONIC TEST SYSTEM</td>
<td>PORTABLE GROUND FAULT INTERRUPTER REQUIRED. Updated on: 8/24/2010 11:55:00 AM</td>
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<tr>
<td>6.2.29</td>
<td>DIVER VIDEO DISPLAY, NAVSEA CONTROLLED ITEM</td>
<td>SOUND METRICS CORPORATION</td>
<td>ADVANCED HEAD MOUNTED DISPLAY S3D-MA-023</td>
<td>CONTROLLED ITEM UNDER COMNAVSEASYSCOM PMS NSW COGNIZANCE. FOR SDV SOF USE ONLY. * Admin Comments : 08/08/12 - Added to the AMU List. Updated on: 8/17/2012 7:00:00 AM</td>
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<tr>
<td>6.2.30</td>
<td>UNDERWATER FIBERSCOPE, COMMERCIAL</td>
<td>ZIBRA CORPORATION Name : Jesse Plouffe <a href="mailto:jesse@zibracorp.com">jesse@zibracorp.com</a> Phone : 508-636-6606</td>
<td>ZX4.4500.00FX6KIT</td>
<td>APPROVED FOR USE TO A DEPTH OF 50 FSW * Admin Comments : 1/28/2014 - Updated model number to include 'KIT' Updated on: 4/25/2014 2:17:00 PM</td>
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<tr>
<td>6.2.31</td>
<td>UNDERWATER VIDEO SYSTEM, COMMERCIAL</td>
<td>OUTLAND TECHNOLOGY, INC. <a href="http://www.outlandtech.com">www.outlandtech.com</a> Name : Buddy Mayfield Phone : 985-847-1104 Email : <a href="mailto:bmayfield@outlandtech.com">bmayfield@outlandtech.com</a></td>
<td>UWS-3310 UWS-3310/D UWS 3310/dc</td>
<td>UWS-3310 PROVIDES CAMERA AND LIGHT VIA UMBILICAL FOR ONE DIVER. UWS-3310/D PROVIDES CAMERA AND LIGHT VIA UMBILICALS FOR TWO DIVERS. AC POWERED, INTERNAL ELECTRICAL PROTECTION. UWS 3310/dc PROVIDES CAMERA AND LIGHT VIA UMBILICAL FOR ONE DIVER AND IS AC AND DC POWERED. Updated on: 5/19/2015 12:42:00 PM</td>
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<tr>
<td>6.2.32</td>
<td>UNDERWATER VIDEO SYSTEM, COMMERCIAL</td>
<td>OUTLAND TECHNOLOGY, INC. <a href="http://www.outlandtech.com">www.outlandtech.com</a> Name : Buddy Mayfield Phone : 985-847-1104 Email : <a href="mailto:bmayfield@outlandtech.com">bmayfield@outlandtech.com</a></td>
<td>UWS-3410 UWS-3410/D UWS 3410/dc</td>
<td>UWS-3410 PROVIDES CAMERA AND LIGHT VIA UMBILICAL FOR ONE DIVER. USW-3410/D PROVIDES CAMERA AND LIGHT VIA UMBILICALS FOR TWO DIVERS. AC POWERED, INTERNAL ELECTRICAL PROTECTION. USW 3410/dc PROVIDES CAMERA AND LIGHT VIA UMBILICAL FOR ONE DIVER AND IS AC AND DC POWERED. Updated on: 5/19/2015 12:42:00 PM</td>
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<tr>
<td>6.2.33</td>
<td>UNDERWATER VIDEO SYSTEM, COMMERCIAL</td>
<td>ROVSCO, INC. Name : Jessica Mckenney Phone : 281-858-6333</td>
<td>2-Diver Video System w/ SSD DVR DVU400-17</td>
<td>Updated on: 2/17/2017 2:34:00 PM</td>
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<tr>
<td>CAT II</td>
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<tr>
<td>6.2.34</td>
<td>UNDERWATER VIDEO CAMERA</td>
<td>OCEAN SYSTEMS INC. Name : JASON WHITTLE Phone : 425-258-0778 x204 Email : <a href="mailto:jason@oceansystemsinc.com">jason@oceansystemsinc.com</a></td>
<td>Delta Diver U.V.C.</td>
<td>* Admin Comments : Added to ANU 3/24/17 Updated on: 3/24/2017 2:11:00 PM</td>
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### 6.3 NAVIGATION & LOCATION EQUIPMENT

**General Notes**

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11/9/2017
EQUIPMENT THAT UTILIZES LITHIUM BATTERIES SHALL MEET THE REQUIREMENTS PER (1) NAVESEA INSTRUCTION 9310.1B, NAVAL LITHIUM BATTERY SAFETY PROGRAM & (2) NAVEA S9310-AQ-SAF-010, THE TECHNICAL MANUAL FOR NAVY LITHIUM BATTERY SAFETY PROGRAM RESPONSIBILITIES AND PROCEDURES.

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<td>6.3.1</td>
<td>CAT II Active</td>
<td>DIVER OPERATED CABLE TRACKING SYSTEM</td>
<td>FLUID KINETICS</td>
<td>CTP 250 UNDERWATER TRACKING PROBE FBSI - 0.5 SHORE BASED SIGNAL INJECTOR * Admin Comments : 09/24/10 - Fluid Kinetics formerly Western Instruments*. Updated on: 7/5/2012 2:54:00 PM</td>
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<tr>
<td>6.3.2</td>
<td>CAT II Active</td>
<td>LOCATOR, BURIED PIPE AND CHAIN</td>
<td>NAVAL CIVIL ENGINEERING LAB (NCEL) OR COMMERCIAL</td>
<td>NFESC DWG 93-10-1F Updated on: 7/5/2012 2:53:00 PM</td>
</tr>
<tr>
<td>6.3.3</td>
<td>CAT II Active</td>
<td>NAVIGATION SYSTEM</td>
<td>NFSEC OR COMMERCIAL</td>
<td>NAVAL CIVIL ENGINEERING LAB (NCEL) DWG 91-29-1F THRU 15F OR COMMERCIALY AVAILABLE General Notes: (1) Apply. ELECTRICAL POWER IN WATER COMPONENTS NOT TO EXCEED 30 VDC. SAFE DIVING DISTANCES FROM TRANSMITTING SONAR ARE ADDRESSED IN US NAVY DIVING MANUAL APPENDIX 1A. * Admin Comments : 6/9/2015 - Add general note 1 for guidance on the use of equipment containing lithium batteries. Updated on: 6/9/2015 7:22:00 AM</td>
</tr>
<tr>
<td>6.3.4</td>
<td>CAT II Active</td>
<td>UW PINGER/MARKER</td>
<td>VARIOUS</td>
<td>VARIOUS General Notes: (1) Apply. BATTERY POWERED. Updated on: 6/1/2015 11:59:00 AM</td>
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<td>6.3.5</td>
<td>CAT II Active</td>
<td>HAND HELD SONAR</td>
<td>FUTURONICS CORP.</td>
<td>JOINT ELECTRONICS TYPE DESIGNATION: AN/PQS-1D SAFE DIVING DISTANCES FROM TRANSMITTING SONAR ARE ADDRESSED IN US NAVY DIVING MANUAL APPENDIX 1A. Updated on: 7/5/2012 2:55:00 PM</td>
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<tr>
<td>6.3.6</td>
<td>CAT II Active</td>
<td>HAND HELD SONAR</td>
<td>RJE INTERNATIONAL (FORMERLY EFCON)</td>
<td>DATASONIC DHS – 100 COMMERCIAL HAND HELD SONAR WITH OPERATING PARAMETERS AND CAPABILITIES AS AN/PQS-2A. DHS-100 NOT AUTHORIZED FOR EOD LOW MAGNETIC DIVING OPERATIONS. SAFE DIVING DISTANCES FROM TRANSMITTING SONAR ARE ADDRESSED IN US NAVY DIVING MANUAL APPENDIX 1A. Updated on: 7/5/2012 2:55:00 PM</td>
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<tr>
<td>6.3.7</td>
<td>CAT II Active</td>
<td>HAND HELD SONAR</td>
<td>GENERAL INSTRUMENTS</td>
<td>1100/5001 NON-MAG OR AN/PQS-2A SAFE DIVING DISTANCES FROM TRANSMITTING SONAR ARE ADDRESSED IN US NAVY DIVING MANUAL APPENDIX 1A. Updated on: 7/5/2012 2:55:00 PM</td>
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<tr>
<td>6.3.8</td>
<td>CAT II Active</td>
<td>DIVER HULL IMAGING AND NAVIGATION SYSTEM (DHINS), CONTROLLED ITEM</td>
<td>APPLIED RESEARCH LABORATORY, UNIVERSITY OF TEXAS Name : Jeff Ruckel Phone : 512.835.3964</td>
<td>DHINS CONTROLLED ITEM UNDER COMNAVSEASYSCOM PMS EOD COGNIZANCE. BASIC LEVEL OPERATOR TRAINING REQUIRED. DHINS TRAINING FOR A BASIC</td>
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</table>
LEVEL OPERATOR IS A FOUR DAY COURSE THAT INCLUDES IN-CLASS INSTRUCTION AND HANDS ON IN-WATER TRAINING. TRAINING INCLUDES SETUP, USE, SYSTEM OPERATION, AND MAINTENANCE PROCEDURES.

* Admin Comments : 12/10/09 - Added to the AMU list.

**Updated on: 7/5/2012 2:28:00 PM**

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<td>6.3.9</td>
<td>CAT II</td>
<td>DIVER HELD NAVIGATION UNIT, CONTROLLED ITEM</td>
<td>NAVSEA Name: Dominic Gabreleski Phone: 850.628.6626</td>
<td>HYDROGRAPHIC MAPPING UNIT (HMU) MK 107, MOD 0 CONTROLLED ITEM UNDER COMNAVSEASYSCOM PMS NSW COGNIZANCE. ALSO KNOWN AS &quot;DHU&quot;. APPROVED FOR USE WITH SKC POWERTECH LITHIUM ION BATTERY, PN UISLMSKP. * Admin Comments : 09/08/10 - Added to the AMU List. <strong>Updated on: 7/5/2012 2:26:00 PM</strong></td>
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<tr>
<td>6.3.10</td>
<td>CAT II</td>
<td>HAND HELD SONAR</td>
<td>SOUND METRICS CORP. DIDSON DIVER HELD (DH)</td>
<td>General Notes: (1) Apply. NOT FOR USE IN A HYPERBARIC ENVIRONMENT. SCOPE OF SUPPLIES INCLUDE UNDERWATER HEAD MASK DISPLAY (UHMD). COMMANDS ARE REQUIRED TO SUBMIT AN INITIAL PROCUREMENT REPORT FOR THE LITHIUM ION BATTERIES IAW NAVSEA S9310-AQ-SAF-010, APPENDIX E. PROCUREMENT REPORTS CAN BE SENT TO <a href="mailto:LI-BATT@NAVY.MIL">LI-BATT@NAVY.MIL</a>. SAFE DIVING DISTANCES FROM TRANSMITTING SONAR ARE ADDRESSED IN US NAVY DIVING MANUAL APPENDIX 1A. * Admin Comments : 10/05/11 - Added to the AMU List. 04/04/12 - Added UHMD note. <strong>Updated on: 7/5/2012 2:26:00 PM</strong></td>
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<tr>
<td>6.3.11</td>
<td>CAT II</td>
<td>EMERGENCY TRANSPONDER, CONTROLLED ITEM</td>
<td>UCSD-SIO POPUP CASE MK1/CRUMB MK1</td>
<td>General Notes: (1) Apply. CONTROLLED ITEM UNDER COMNAVSEASYSCOM PMS NSW COGNIZANCE. FOR SOF USE ONLY. * Admin Comments : 05/01/12 - Added to the AMU List. <strong>Updated on: 7/5/2012 2:24:00 PM</strong></td>
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<tr>
<td>6.3.12</td>
<td>CAT II</td>
<td>HAND HELD SONAR, CONTROLLED ITEM</td>
<td>SHARK MARINE TECHNOLOGIES INC. NAVIGATOR HAND HELD SONAR (HHS) AND GUIDANCE SYSTEM PN NVD9090</td>
<td>General Notes: (1) Apply. CONTROLLED ITEM UNDER COMNAVSEASYSCOM PMS NSW COGNIZANCE. FOR SOF USE ONLY. AUTHORIZED FOR USE WITH THE FOLLOWING ACCESSORIES: SM DOPPLER NAVIGATOR SYSTEM, SM EXTERNAL BATTERY PACKS, DNS CABLE ASSY, SM FLOATING GPS AND EXTENSION KIT, AND PRO-MAG MAGNETOMETER. SAFE DIVING DISTANCES FROM TRANSMITTING SONAR ARE ADDRESSED IN US NAVY DIVING MANUAL APPENDIX 1A. * Admin Comments : 02/28/12 - Approved for <strong>Updated on: 7/5/2012 2:56:00 PM</strong></td>
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<td>6.3.13</td>
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<td>CAT I</td>
<td>DIVER DATA ACQUISITION COMMUNICATION AND DISPLAY (DACAD) SYSTEM</td>
<td>Monitoring Technologies (MonTech) New Zealand Limited</td>
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<tr>
<td>6.3.14</td>
<td>4</td>
<td>CAT I</td>
<td>DIVER TRACKING SYSTEM</td>
<td>Azimuth, Inc.</td>
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6.4 WATER JET EQUIPMENT

General Notes

(1): IF SPECIALIZED TRAINING IS NOT OTHERWISE NOTED, LOCAL COMMAND LEVEL TRAINING AND FAMILIARIZATION IS REQUIRED PRIOR TO USE. THE APPLICABLE TECHNICAL AND EQUIPMENT MANUALS SHOULD BE REVIEWED PRIOR TO JOB PLANNING OR THE USE OF ANY HYDROBLAST EQUIPMENT. DIVERS SHALL NOT BE EXPOSED TO A DIRECT STREAM OF HIGH PRESSURE WATER FLOW.


(3): DIVERS SHALL NOT OPERATE LANCES OR ZERO THRUST GUN FOR EXTENDED PERIODS OF TIME. OPERATORS SHALL ENSURE LANCES HAVE THE CORRECT FITTINGS AND ARE PROPERLY RATED FOR THE PRESSURE & FLOW OF THE HYDROBLAST EQUIPMENT BEING UTILIZED.

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<tr>
<td>6.4.1</td>
<td>WATER JET CLEANING HIGH PRESSURE PUMP</td>
<td>GARDNER DENVER (BUTTERWORTH OR WEATHERFORD)</td>
<td>WBD-150N IAW NAVSEA DWG 6699567.</td>
<td>General Notes: (1) (2) (3) Apply. HEARING PROTECTION REQUIRED WHILE OPERATING. FOR HIGH PRESSURE, HIGH FLOW OPERATIONS (5,000-10,000 PSI &amp; UP TO 20 GPM), DO NOT EXCEED 11,000 PSI WHILE OPERATING. DO NOT ALLOW ENGINE TO EXCEED 2150 RPM.</td>
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<tr>
<td>6.4.2</td>
<td>WATER JET CLEANING PRESSURE WASHER</td>
<td>Mi-T-M CORPORATION</td>
<td>HS-3006-DMKO</td>
<td>General Notes: (1) (2) (3) Apply. HEARING PROTECTION REQUIRED WHILE OPERATING. FOR LOW PRESSURE, LOW FLOW OPERATIONS (3,000 PSI &amp; 4.76 GPM).</td>
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<tr>
<td>6.4.3</td>
<td>WATER JET CLEANING, HIGH PRESSURE ZERO THRUST GUN</td>
<td>GARDNER DENVER (BUTTERWORTH)</td>
<td>31-09300-524 IAW NAVSEA DWG 6699567</td>
<td>General Notes: (1) (2) (3) Apply. AUTHORIZED FOR USE WITH ANU #6.4.1 ONLY. RATED AT PRESSURE &amp; FLOW HIGHER (10 GPM AT 10,000 PSI) THAN ANU #6.4.2. DIVER REQUIRED TO WEAR MK 21 FOR HYDROBLASTING OPERATIONS. MAX PERMISSIBLE OPERATING TIME PER DIVER PER 24 HRS IS 85 MIN.</td>
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<td>6.4.4</td>
<td>WATER JET CLEANING, HIGH PRESSURE FLEXIBLE LANCE</td>
<td>GARDNER DENVER (BUTTERWORTH)</td>
<td>431516-037 IAW NAVSEA DWG 6699567</td>
<td>General Notes: (1) (2) (3) Apply. AUTHORIZED FOR USE WITH ANU #6.4.1 ONLY. RATED AT PRESSURE &amp; FLOW HIGHER THAN ANU #6.4.2. DIVER REQUIRED TO WEAR MK 21 FOR HYDROBLASTING OPERATIONS. 1/2&quot; OD, 37' LENGTH.</td>
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* Admin Comments : 2/18/2015 - Added to AMU List

* Admin Comments : 10/27/10 - Added to the AMU List.

* Admin Comments : 8/17/2012 8:58:00 AM

* Admin Comments : 3/10/2017 11:13:00 AM

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<td>6.4.5</td>
<td>CAT II</td>
<td>Active</td>
<td>WATER JET CLEANING, HIGH PRESSURE FLEXIBLE LANCE</td>
<td>JETSTREAM MINI MOLE 51498-XX IAW NAVSEA DWG 6699567 *XX DENOTES LENGTH General Notes: (1) (2) (3) Apply. AUTHORIZED FOR USE WITH ANU #6.4.1 &amp; 6.4.2. DIVER REQUIRED TO WEAR MK 21 FOR HYDROBLASTING OPERATIONS. * Admin Comments : 10/27/10 - Verified available from Jetstream. Updated on: 3/10/2017 11:15:00 AM</td>
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<td>6.4.6</td>
<td>CAT II</td>
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<td>WATER JET CLEANING, HIGH PRESSURE FLEXIBLE LANCE</td>
<td>JETSTREAM PN 51020-XX *XX DENOTES LENGTH General Notes: (1) (2) (3) Apply. AUTHORIZED FOR USE WITH AMU #9.4.2. DIVER REQUIRED TO WEAR MK 21 FOR HYDROBLASTING OPERATIONS. * Admin Comments : 10/27/10 - Added to the AMU List. Updated on: 8/16/2012 12:46:00 PM</td>
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<td>6.4.7</td>
<td>CAT II</td>
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<td>WATER JET CLEANING, HIGH PRESSURE TOOL</td>
<td>DS-JETPAC (NCEL-MODIFIED) N/A General Notes: (1) Apply. DIVER REQUIRED TO WEAR 1/4&quot; NEOPRENE WET HOOD. MAX PERMISSIBLE OPERATING TIME PER DIVER PER 24 HOURS IS 2 HOURS 45 MINUTES. Updated on: 8/16/2012 12:30:00 PM</td>
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<td>6.4.8</td>
<td>CAT II</td>
<td>Active</td>
<td>WATER JET CLEANING, CAVITATING TOOL</td>
<td>SEACO, INC. CAVIJET 1-A &amp; 1-B General Notes: (1) Apply. DIVER REQUIRED TO WEAR 1/4&quot; NEOPRENE WET HOOD. MAX PERMISSIBLE OPERATING TIME PER DIVER PER 24 HOURS IS 1 HR. Updated on: 8/16/2012 12:44:00 PM</td>
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<td>6.4.9</td>
<td>CAT II</td>
<td>Active</td>
<td>WATER JET CLEANING, CAVITATING TOOL</td>
<td>SEACO, INC. CAVIJET 1-B MOD 1 General Notes: (1) Apply. DIVER REQUIRED TO WEAR 1/4&quot; NEOPRENE WET HOOD. MAX PERMISSIBLE OPERATING TIME PER DIVER PER 24 HOURS IS 1 HR 40 MIN. Updated on: 8/16/2012 12:47:00 PM</td>
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<td>6.4.10</td>
<td>CAT II</td>
<td>Inactive</td>
<td>WATER JET CLEANING, CAVITATING TOOL</td>
<td>DAEDALEAN CONCAVER DAI-800-D-100A General Notes: (1) Apply. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. DIVER REQUIRED TO WEAR 1/4&quot; NEOPRENE WET HOOD. MAX PERMISSIBLE OPERATING TIME PER DIVER PER 24 HRS IS 1 HR 50 MIN. USE TOOL WITH EATON SYNFLUX HOSE PN 3V10-04 WITH FACTORY INSTALLED SURLIN OVER JACKET. USE WITH DAEDALEAN NOZZLES (DAI #) 4010 FAN, 3510 FAN, TWIN 025, F118 (40 DEGREE FAN), OR F149 (40 DEGREE FAN). PROTECTIVE GLOVES ARE RECOMMENDED, DEPENDING ON OPERATING CONDITIONS. Updated on: 8/16/2012 12:44:00 PM</td>
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<td>6.4.11</td>
<td>CAT II</td>
<td>Inactive</td>
<td>WATER JET CLEANING, CAVITATING TOOL</td>
<td>SIMPSON 2245 C General Notes: (1) Apply. NO LONGER MANUFACTURED NOR SUPPORTED BUT AUTHORIZED FOR CONTINUED USE. PORTABLE, GASOLINE-POWERED FOR LIGHT CLEANING. Updated on: 7/5/2012 2:17:00 PM</td>
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| 6.4.12|             |              | WATER JET CLEANING, CAVITATING TOOL | CAVIDYNE, LLC CAVIBLASTER LG 1620 General Notes: (1) Apply. AUTHORIZED FOR
### 6.4 HYDRAULIC EQUIPMENT

**General Notes**

(1): THERE ARE SOME MANUFACTURERS OF HYDRAULIC POWERED HAND TOOLS THAT PRODUCE SPECIFIC MODELS DESIGNED FOR USE UNDERWATER. THESE DESIGN CHANGES ARE IMPLEMENTED MAINLY TO ACHIEVE THE SAME LEVEL OF TOOL PERFORMANCE UNDERWATER AS IS ACHIEVED IN AIR. THESE MODIFICATIONS TO MAKE TOOLS RUGGEDIZED FOR USE UNDERWATER ARE:

a. COMPONENTS THAT ARE DIRECTLY EXPOSED TO WATER ARE MADE OF CORROSION RESISTANT MATERIAL OR COVERED WITH A CORROSION RESISTANT COATING WHERE PRACTICAL.

b. FOR MOTORIZED TOOLS, SOME ARE MODIFIED TO HAVE LARGER DISPLACEMENT MOTORS TO ALLOW THE TOOL TO OPERATE AT HIGHER FLOW RATES TO COMPENSATE FOR THE INCREASED RESISTANCE CREATED BY OPERATION IN WATER.

c. COMPONENTS THAT WILL NOT TOLERATE WATER CONTAMINATION ARE SEALED (E.G. BALL BEARINGS ATTACHED TO MOTOR SHAFTS, OR O-RING SEALS IN THE HAMMER CASE BUSHING OF AN IMPACT MECHANISM).

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<tr>
<td>6.4.13</td>
<td>WATER JET CLEANING, HIGH PRESSURE TOOL</td>
<td>HIGH PRESSURE PARTEK</td>
<td>3109300524 IAW NCSC DWG 5368233</td>
<td>General Notes: (1) (2) Apply. DIVER REQUIRED TO WEAR A 1/4&quot; NEOPRENE WET HOOD. 0 DEGREE NOZZLE MAX PERMISSIBLE OPERATING TIME PER DIVER PER 24 HRS IS 50 MIN. 15 DEGREE NOZZLE MAX PERMISSIBLE OPERATING TIME IS 2 HRS 50 MIN.</td>
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<td>6.4.14</td>
<td>WATER JET CLEANING, HIGH PRESSURE TOOL</td>
<td>FLOW INDUSTRIES</td>
<td>MODEL 12 (NCSEL MODIFIED) * XX DENOTES LENGTH</td>
<td>General Notes: (1) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. DIVER REQUIRED TO WEAR 1/4&quot; NEOPRENE WET HOOD. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HRS IS 2 HRS 45 MIN.</td>
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<td>6.4.15</td>
<td>WATER JET CLEANING, CAVITATING TOOL</td>
<td>CAVIDYNE, LLC</td>
<td>CAVIBLASTER HG 1222</td>
<td>General Notes: (1) Apply. AUTHORIZED FOR USE IN-WATER WITH THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS: 85 MINUTES WHILE HOODED &amp; 22 MINUTES (MK 21 HELMETED). NOT AUTHORIZED FOR USE WHILE UNHOODED. NOT AUTHORIZED FOR IN-AIR USE WITHOUT HEARING PROTECTION. IN-AIR PERMISSIBLE EXPOSURE LIMITS ARE DEPENDENT ON THE NOISE REDUCTION RATING OF THE HEARING PROTECTION.</td>
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**6.5 HYDRAULIC EQUIPMENT**

**General Notes**

(1): THERE ARE SOME MANUFACTURERS OF HYDRAULIC POWERED HAND TOOLS THAT PRODUCE SPECIFIC MODELS DESIGNED FOR USE UNDERWATER. THESE DESIGN CHANGES ARE IMPLEMENTED MAINLY TO ACHIEVE THE SAME LEVEL OF TOOL PERFORMANCE UNDERWATER AS IS ACHIEVED IN AIR. THESE MODIFICATIONS TO MAKE TOOLS RUGGEDIZED FOR USE UNDERWATER ARE:

a. COMPONENTS THAT ARE DIRECTLY EXPOSED TO WATER ARE MADE OF CORROSION RESISTANT MATERIAL OR COVERED WITH A CORROSION RESISTANT COATING WHERE PRACTICAL.

b. FOR MOTORIZED TOOLS, SOME ARE MODIFIED TO HAVE LARGER DISPLACEMENT MOTORS TO ALLOW THE TOOL TO OPERATE AT HIGHER FLOW RATES TO COMPENSATE FOR THE INCREASED RESISTANCE CREATED BY OPERATION IN WATER.

c. COMPONENTS THAT WILL NOT TOLERATE WATER CONTAMINATION ARE SEALED (E.G. BALL BEARINGS ATTACHED TO MOTOR SHAFTS, OR O-RING SEALS IN THE HAMMER CASE BUSHING OF AN IMPACT MECHANISM).
d. For percusive tools, the impact area is vented to allow water to move in and out of the impact zone.
e. When working at depths greater than 100 FSW, ¾" I.D. supply and return hoses are utilized to ensure the tool receives adequate flow to operate under the increased hydrostatic pressures.

(2): When working in an underwater dry chamber, hydraulically powered hand tools are authorized for use as applicable to support UWSH operations in accordance with NAVSEA S0600-AA-PRO-010 (Seriees), Underwater Ship Husbandry Manual.

(3): Hydraulically manually operated hand tools are capable of working underwater inherent to their design. These tools are typically high pressure hydraulic cylinders that transmit force for lifting, pulling, cutting or spreading. In order for the hydraulic cylinders to develop these high pressures they have to be properly sealed, which also allows them to maintain their performance underwater. However, some hydraulic hand pumps have hydraulic fluid reservoirs that are not sealed properly and will leak if used underwater. This is not a safety risk, but it does degrade the performance of the pump and cylinder. This problem can be negated by having topside personnel operate the pump with the diver monitoring the tool and providing direction.

(4): Familiarization training is required on the surface for every diver that will be operating the exact tool to be used prior to getting in the water. Familiarization training is also required for topside personnel who will be operating and monitoring the hydraulic power unit and console for powered tools, and hand hydraulic pumps for manual tools.

(5): A dead man switch is required on all hydraulic tools. A dead man switch is a normally "open" switch (typically a trigger on the tool) placed directly in the flow path on the tool and requires a force to close the hydraulic circuit to send power to the tool. The dead man switch acts as a fail safe to stop the tool if the operator becomes incapacitated while underwater. At no time shall a dead man switch be mechanically held in the closed (tool running) position. While a dead man switch does mitigate the risk of injury to the diver in the event of loss of control of the tool, topside personnel shall also be standing by to operate the hydraulic console and/or hydraulic power unit to secure flow.

A secondary on/off switch is required for the hydraulic hammer drill (STANLEY HD45310 or similar) and chainsaw (STANLEY CS11340 or similar) and is considered optional for all other ANU hydraulic tools. The secondary switch shall be operated by the second diver in the water as another means to quickly secure flow if the diver operating the tool loses control and is unable to turn off the tool. Use switch in accordance with NAVSEA underwater ships husbandry manual (S00600-AA-PRO-290) or with OEM recommended tool exchange valve (STANLEY PN 67005).

(6): Use OEM recommended hydraulic fluid. When possible it is recommended to use tools that are capable of using vegetable based oils. Use in accordance with NAVSEA underwater ship husbandry manual chapter 28, S0600-AA-PRO-290, appendix B, best management practices for diver operated tools.

(7): All hydraulic tools shall be maintained IAW NAVY PMS.

(8): For additional information on underwater hydraulic tools contact NAVSEA 00C39.
AUTHORIZED FOR MILITARY USE.
ADDITIONAL RESTRICTIONS PROVIDED
HEREIN AS APPLICABLE.

ALL SIMILAR HYDRAULIC POWERED TOOLS
PREVIOUSLY LISTED ON THE AMU ARE STILL
AUTHORIZED FOR USE UNDER THIS
CATEGORY CONTROL NUMBER.

FOR GRIDNERS, THE MAXIMUM
CUMULATIVE OPERATING TIMES PER DIVER
PER 24 HOURS IS: MK 20, 30 MINUTES; MK 21
and KM 37 NS, 3 HOUR AND 22 MINUTES.

* Admin Comments : 8/20/2014 - added to AMU
List
Updated on: 8/20/2014 1:55:00 PM

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<tr>
<td>6.5.44</td>
<td>HYDRAULIC POWERED RECIPROCATING HAND TOOLS</td>
<td>VARIOUS</td>
<td>VARIOUS</td>
<td>General Notes: (1) (2) (4) (5) (6) (7) (8) Apply.</td>
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* Admin Comments : 9/3/2014 - Added to AMU
List
Updated on: 9/3/2014 4:06:00 PM

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<td>6.5.45</td>
<td>HYDRAULIC POWERED IMPACT HAND TOOLS</td>
<td>VARIOUS</td>
<td>VARIOUS</td>
<td>General Notes: (1) (2) (4) (5) (6) (7) (8) Apply. IMPACT HAND TOOLS INCLUDE: IMPACT DRILLS, HAMMER DRILLS, SINKER DRILLS, IMPACT WRENCHES, BREAKERS, CHIPPING HAMMERS, GRINDERS AND SAWS. ANY COMMERCIALY AVAILABLE UNDERWATER HYDRAULIC POWERED IMPACT HAND TOOL THAT MEETS THE REQUIREMENTS PROVIDED IN THE APPLICABLE GENERAL NOTES IS AUTHORIZED FOR MILITARY USE. ADDITIONAL RESTRICTIONS PROVIDED HEREIN AS APPLICABLE.</td>
</tr>
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FOR CHIPING HAMMERS, DIVER REQUIRED TO WEAR ¼ INCH NEOPRENE HOOD. MAXIMUM PERMISIBLE OPERATING TIME PER DIVER PER 24 HOUR, 3 HOURS 40 MINUTES.

FOR IMPACT WRENCHES, THE MAXIMUM CUMULATIVE OPERATING TIMES PER DIVER PER 24 HOURS IS: MK 20, 40 MINUTES; MK 21 and KM 37 NS, 1 HOUR AND 25 MINUTES.

FOR HAMMER DRILLS, THE MAXIMUM CUMULATIVE OPERATING TIMES PER DIVER PER 24 HOURS IS: MK 20, 2 HOURS AND 9 MINUTES; MK 21 and KM 37 NS, 2 HOURS AND 20 MINUTES

FOR SINKER DRILLS, THE MAXIMUM CUMULATIVE OPERATING TIMES PER DIVER PER 24 HOURS IS: MK 20, 21 MINUTES; MK 21 and KM 37 NS, 2 HOURS AND 49 MINUTES

FOR BREAKERS, THE MAXIMUM CUMULATIVE OPERATING TIMES PER DIVER PER 24 HOURS IS: MK 20, 30 MINUTES; MK 21 and KM 37 NS, 1 HOUR

* Admin Comments : 8/20/2014 - added to AMU
List

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<td>6.5.46</td>
<td>HYDRAULIC POWERED HOISTS</td>
<td>NAVSEA CONTROLLED</td>
<td>NAVSEA CONTROLLED</td>
<td>General Notes: (4) (6) (7) (8) Apply. HYDRAULIC POWERED HOISTS ARE A NAVSEA ESSM CONTROLLED ITEM. CONTACT NAVSEA 00C5 FOR FURTHER INFORMATION. * Admin Comments : 8/20/2014 - Added to AMU List</td>
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<td>6.5.47</td>
<td>HYDRAULIC POWERED SUBMERSIBLE PUMPS</td>
<td>VARIOUS</td>
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<td>General Notes: (1) (2) (4) (6) (7) (8) Apply. * Admin Comments : 8/20/2014 - Added to AMU List</td>
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<td>6.5.48</td>
<td>HYDRAULIC POWERED CYLINDERS</td>
<td>VARIOUS</td>
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<td>General Notes: (1) (2) (4) (6) (7) (8) Apply. HYDRAULIC POWERED CYLINDERS INCLUDE: TORQUE WRENCHES, SPREADERS AND CUTTERS. ANY COMMERCIALY AVAILABLE UNDERWATER HYDRAULIC POWERED CYLINDER THAT MEET THE REQUIREMENTS PROVIDED IN THE APPLICABLE GENERAL NOTES IS AUTHORIZED FOR MILITARY USE. ALL SIMILAR HYDRAULIC POWERED TOOLS PREVIOUSLY LISTED ON THE AMU ARE STILL AUTHORIZED FOR USE UNDER THIS CATEGORY CONTROL NUMBER. * Admin Comments : 8/20/2014 - Added to AMU List</td>
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<td>6.5.49</td>
<td>HYDRAULIC MANUALLY OPERATED HAND TOOLS</td>
<td>VARIOUS</td>
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<td>General Notes: (3) (4) (6) (7) (8) Apply. ANY COMMERCIALY AVAILABLE HYDRAULIC MANUALLY OPERATED HAND TOOL THAT MEETS THE REQUIREMENTS PROVIDED IN THE APPLICABLE GENERAL NOTES IS AUTHORIZED FOR MILITARY USE EXCEPT AS OTHERWISE NOTED HEREIN. ALL OTHER HYDRAULIC MANUALLY OPERATED TOOLS PREVIOUSLY LISTED ON THE AMU ARE STILL AUTHORIZED FOR USE UNDER THIS CATEGORY CONTROL NUMBER. * Admin Comments : 8/20/2014 - Added to AMU List</td>
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### 6.6 PNEUMATIC TOOLS

**General Notes**

(1): PNEUMATIC HAND TOOLS INHERENT TO THEIR DESIGN WILL FUNCTION UNDERWATER, BUT THEIR PERFORMANCE IS DEGRADED DUE TO THE CORROSIVE ENVIRONMENT AND ADDITIONAL RESISTANCE IMPOSED BY THE WATER. DESPITE THEIR LACK OF RELIABILITY OVER HYDRAULIC TOOLS, THEY ARE STILL USEFUL AND SOMETIMES JUST AS GOOD AS HYDRAULIC TOOLS FOR CERTAIN APPLICATIONS. WHEN SELECTING A PNEUMATIC TOOL FOR USE UNDERWATER IT IS RECOMMENDED TO LOOK FOR ONES MADE OF MORE CORROSION RESISTENT MATERIAL.

(2): FAMILIARIZATION TRAINING IS REQUIRED ON THE SURFACE FOR DIVERS OPERATING THE TOOL AND TOPSIDE PERSONNEL FOR THE SPECIFIC TOOLS TO BE USED.
IT IS POSSIBLE FOR PNEUMATIC TOOLS TO FAIL ON, MEANING AFTER RELEASING THE DEAD MAN SWITCH THE TOOL CONTINUES TO RUN. FOR THIS REASON, AT A MINIMUM, A BALL VALVE SHALL BE PLACED IN THE PATH OF FLOW BETWEEN THE AIR SUPPLY AND THE TOOL, READILY ACCESSIBLE TO TOPSIDE PERSONNEL. TOPSIDE PERSONNEL SHALL BE STANDING BY READY AND ABLE TO SECURE AIR AT ALL TIMES WHILE THE DIVER IS OPERATING A PNEUMATIC TOOL UNDERWATER.

ALL PNEUMATIC TOOLS SHALL BE MAINTAINED IAW NAVY PMS.

FOR ADDITIONAL INFORMATION ON UNDERWATER PNEUMATIC TOOLS CONTACT NAVSEA 00C39.

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### General Notes

(1): IF SPECIALIZED TRAINING IS NOT OTHERWISE NOTED, LOCAL COMMAND LEVEL TRAINING AND FAMILIARIZATION IS REQUIRED PRIOR TO USE.

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### Equipment List

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<td>CAT II</td>
<td>PNEUMATICPOWERED</td>
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<td>General Notes: (1) (2) (3) (4) (5) Apply. ANY COMMERCIALLY AVAILABLE UNDERWATER PNEUMATIC HAND TOOL THAT MEETS THE REQUIREMENTS PROVIDED IN THE APPLICABLE GENERAL NOTES IS AUTHORIZED FOR MILITARY USE EXCEPT AS OTHERWISE NOTED HEREIN. ALL OTHER PNEUMATIC HAND TOOLS PREVIOUSLY LISTED ON THE AMU ARE STILL AUTHORIZED FOR USE UNDER THIS CATEGORY CONTROL NUMBER. WHEN WORKING IN AN UNDEWRATER DRY CHAMBER, PNEUMATIC HAND TOOLS ARE AUTHORIZED FOR USE AS APPLICABLE TO SUPPORT UWISH OPERATIONS IN ACCORDANCE WITH NAVSEA 50600-AA-PRO-010 (SERIRES), UNDERWATER SHIP HUSBANDRY MANUAL.</td>
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### Other Tools & Accessories

**General Notes**

(1): IF SPECIALIZED TRAINING IS NOT OTHERWISE NOTED, LOCAL COMMAND LEVEL TRAINING AND FAMILIARIZATION IS REQUIRED PRIOR TO USE.

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<td>CAT II</td>
<td>EXOTHERMIC</td>
<td>VARIOUS</td>
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<td>General Notes: (1) Apply. TOOLS AND EQUIPMENT FOR UNDERWATER CUTTING AND WELDING SHALL BE IN ACCORDANCE WITH THE USN UNDERWATER CUTTING AND WELDING MANUAL, S0300-BB-MAN-010.</td>
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* Admin Comments: 8/21/2014 - Added to AMU List
Updated on: 8/21/2014 1:03:00 PM

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<td>CAT II</td>
<td>DIVER LIFT SYSTEM</td>
<td>NAVAL CIVIL ENGINEERING LAB (NCEL) OR DIVER PREFERENCE</td>
<td>DWG 93-6-1F OR COMMERCIAL EQUIVALENT</td>
<td>General Notes: (1) Apply.</td>
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<td>IAW NFESC DWG # 93-6-1F</td>
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* Admin Comments: 8/20/2014 - removed Kerie Cable, generalized category for cutting/welding iaw USN U/W Cutting & Welding Manual 4/12/05 - Confirmation that CLUCAS is still manufacturing.
Updated on: 8/20/2014 11:14:00 AM

* Admin Comments: 7/5/2012 11:43:00 AM
Updated on: 7/5/2012 11:43:00 AM
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<td>6.7.3</td>
<td>MULTI FUNCTION TOOL SYSTEM (SEA WATER ACTUATED)</td>
<td>NAVAL CIVIL ENGINEERING LAB (NCEL)</td>
<td>MFTS</td>
<td>General Notes: (1) Apply. THE MULTI FUNCTION TOOL SYSTEM IS SEA WATER ACTUATED AND CONSISTS OF A POWER UNIT, A BAND SAW, A ROCK DRILL, A ROTARY IMPACT TOOL, AND A ROTARY DISK TOOL. MAX OPERATING TIME PER DIVER PER 24 HOURS: ROTARY: UNLIMITED IMPACT TOOL: 14 MIN IN METAL TANK ROCK DRILL: 1 HOUR FOR DIVER ASSISTING TO START A BIT. Updated on: 7/5/2012 11:53:00 AM</td>
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<td>6.7.4</td>
<td>STUD GUN (CARTRIDGE ACTUATED)</td>
<td>RAMSET</td>
<td>HD 200</td>
<td>General Notes: (1) Apply. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. USED AS PART OF ESSM'S LIGHTWEIGHT HOT TAP SYSTEM, ESSM #HT-0006. REQUIRES ADDITIONAL TRAINING BY ESSM/NAVSEA 00C PRIOR TO USE. USE OF THE STUD GUN IS LIMITED TO 40 SHOTS PER 24 HOUR PERIOD FOR EACH DIVER. ALL OTHER SOUND SOURCES THAT MAY IMPACT THE DIVER SHALL BE SECURED DURING USE. SECURE STORAGE IS REQUIRED FOR THE STUD GUN AND THE .38 CAL ACTUATING CARTRIDGES. Updated on: 7/5/2012 12:08:00 PM</td>
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<tr>
<td>6.7.5</td>
<td>HIGH-PRESSURE UMBILICAL</td>
<td>VARIOUS</td>
<td>3VIV-04-106-106-120 (1/4&quot;, 10' SYNFLEX) 3VIV-04-106-1200 (1/4&quot;, 100' SYNFLEX)</td>
<td>General Notes: (1) Apply. 10,000 PSIG. Updated on: 7/5/2012 12:06:00 PM</td>
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<td>6.7.6</td>
<td>NON METALLIC HOSE</td>
<td>VARIOUS</td>
<td>WIRE RE-INFORCED IAW MIL-H-24135</td>
<td>General Notes: (1) Apply. 3/4&quot; DIAMETER, 15' LENGTH, 2,000 PSIG. HOSES OF LONGER LENGTHS ARE PERMISSIBLE. INCREASING HOSE LENGTHS WILL RESULT IN ADDITIONAL HYDRAULIC PRESSURE LOSS AND MAY IMPede HYDRAULIC TOOL PERFORMANCE. DRAWING CALLS FOR 15 FOOT INCREASING THE LENGTH OF ANY DIA. HOSE WILL AFFECT PERFORMANCE RELATIVE TO THE ORIGINAL LENGTH. Updated on: 7/5/2012 12:05:00 PM</td>
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<td>6.7.7</td>
<td>PRIMARY UMBILICAL, TWIN LINED</td>
<td>AEROQUIP</td>
<td>KEVLAR POLYESTER FC375-12</td>
<td>General Notes: (1) Apply. 3/4&quot; DIAMETER, LENGTH TO SUIT, 2000 PSIG. QUICK DISCONNECT COUPLINGS MUST BE COMPATIBLE WITH QUICK DISCONNECT COUPLINGS LISTED IAW NAVSEA DWG 5366582. ITEM MAY BE SUBSTITUTED WITH HOSES MEETING SAE 100R8 SPECIFICATION. Updated on: 7/5/2012 12:03:00 PM</td>
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<tr>
<td>6.7.8</td>
<td>TOOL WHIP HOSE, NON-METALLIC</td>
<td>AEROQUIP</td>
<td>AE369-8 IAW MIL-M-24135</td>
<td>General Notes: (1) Apply. 1/2&quot; DIAMETER, 10' LENGTH, 2000 PSIG.</td>
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### Equipment List

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<td>CAT II</td>
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<td>PN 30580-01</td>
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<td>CAT II</td>
<td>FISCHER TECHNOLOGY, INC.</td>
<td>FISCHER DELTASCOPE MP30</td>
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<td>6.7.13</td>
<td>CAT II</td>
<td>AIR AFFAIRS LIMITED</td>
<td>MK 25 MOD 0 Trainer, Test Set</td>
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<td>6.7.14</td>
<td>CAT II</td>
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<td>CYGNUS DIVE</td>
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**General Notes:**

- **(1) Apply.**
- Use of the study gun is limited to 20 shots per 24 hour period for each user. In-air guidance requires users to wear hearing protection with a minimum noise reduction rating of 25 dB. In-water guidance requires divers to wear a wetsuit hood when operating. All other sound sources that may impact the diver shall be secured during use.

- Secure storage is required for the study gun and the actuating cartridges.

* Admin Comments: 2/16/2011 - Added to the AMU List. Updated on: 7/5/2012 12:12:00 PM

* Admin Comments: 12/13/12 - Added to the AMU List. Updated on: 7/5/2012 12:12:00 PM

* Admin Comments: 11/03/09 - Added to the AMU List. Updated on: 7/5/2012 12:31:00 PM

* Admin Comments: Added 1/14/2014

* Admin Comments: 1/29/14 - Added

Hoses of longer lengths are permissible. Increasing hose lengths will result in additional hydraulic pressure loss and may impede hydraulic tool performance.

Item may be substituted with hoses meeting SAE 100R7 or SAE 100R8 specification.
### Equip# | Item/Stock# | Manufacturer | Designation/Model | Comments
--- | --- | --- | --- | ---
6.7.15 | | SUPRAMECA | | ALL USERS SHALL COMPLETE THE MANUFACTURER'S MANDATORY TRAINING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION MANUAL PRIOR TO USE. RECORDS OF TRAINING COMPLETION SHALL BE MAINTAINED.

* Admin Comments: 8/20/2014 - Added to AMU List

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### Equip# | Item/Stock# | Manufacturer | Designation/Model | Comments
--- | --- | --- | --- | ---
6.7.16 | PRESSURE TEST CHAMBER | NAVSEA CONTROLLED ITEM | NAVSEA DWG 8521185 | General Notes: (1) Apply. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. USE IN ACCORDANCE WITH NAVSEA SS500-A4-OMI-010, TECHNICAL MANUAL FOR U.S. NAVY TEST CHAMBER. THIS ITEM IS AVAILABLE THROUGH ESSM. CONTACT NAVSEA 00C3 FOR GUIDANCE.

* Admin Comments: 9/29/2014 - Added to AMU List

8/14/15 - Changed status to Inactive. This item has become too costly to build.

Updated on: 8/14/2015 10:18:00 AM

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### Equip# | Item/Stock# | Manufacturer | Designation/Model | Comments
--- | --- | --- | --- | ---
6.7.17 | PRESSURE TEST CHAMBER | NAVSEA CONTROLLED ITEM | NAVSEA DWG 8663388 | General Notes: (1) Apply. THIS ITEM IS AVAILABLE THROUGH ESSM. CONTACT NAVSEA 00C3 FOR ORDERING

* Admin Comments: 8/14/15 - Added to list.

---

### Equip# | Item/Stock# | Manufacturer | Designation/Model | Comments
--- | --- | --- | --- | ---
6.7.18 | PRESSURE TEST CHAMBER | NAVSEA CONTROLLED ITEM GLOBAL SCUBA MANUFACTURING OF TEXAS LLC | MODEL 48310 (NAVY) | General Notes: (1) Apply. COMMANDS SHALL CONTACT NAVSEA 00C PRIOR TO PROCUREMENT. REF AIG 16-10. MODEL 48310 (NAVY) HAS A MODIFIED CHAMBER BODY THAT IS SERIALIZEI AND INCORPORATES A DOUBLE FILLET WELD AT THE BASE PLATE.

* Admin Comments: 04/25/16 - ADDED TO AMU IAW AIG

Updated on: 4/29/2016 9:45:00 AM

### 7.1 RECOMPRESSION CHAMBER EQUIPMENT

NO General Notes

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### Equip# | Item/Stock# | Manufacturer | Designation/Model | Comments
--- | --- | --- | --- | ---
7.1.1 | BIBS MASK, COMMERCIAL | AVOX SYSTEMS INC. | 803600-00/01/02/03/04 | FOR RECOMPRESSION CHAMBERS WITHOUT BUILT-IN OVERBOARD DUMP CAPABILITY. PART # 803600 (SERIES) REPLACES PREVIOUS PN 800931. AMRON INTERNATIONAL IS THE EXCLUSIVE DISTRIBUTOR FOR THIS ITEM.

* Admin Comments: 9/16/10 - Manufacturer Info updated. Amron only distributor.

Updated on: 9/16/2010 3:26:00 PM

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### Equip# | Item/Stock# | Manufacturer | Designation/Model | Comments
--- | --- | --- | --- | ---
7.1.2 | BIBS MASK, COMMERCIAL | AVOX SYSTEMS INC. | 801238-00/01/02/03/04 | PN 801238-00 / 1H-4240-01-233-6639 IS A BASIC ASSEMBLY. PN 801238-01 / 1H-1940-01-219-6370 ASSEMBLY WITHOUT
<table>
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<tr>
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<th>Item/Stock#</th>
<th>Manufacturer</th>
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<tr>
<td>7.1.3</td>
<td>CAT I Active</td>
<td>BIBS MASK, COMMERCIAL</td>
<td>AVOX SYSTEMS INC. VAK II, 803139-00-01/02/03/04/05, 803139-01-01/02/03/04/05</td>
<td>PN 803139-01-02, 9E-4220-01-173-5384 IS BASIC ASSEMBLY WITH MEDIUM FACE SEAL. PN 803139-01-03, 9C-4220-01-173-5385 IS ASSEMBLY WITH LONG FACE SEAL. OTHER VERSIONS ARE AUTHORIZED FOR COMMERCIAL PURCHASE. AMRON INTERNATIONAL IS THE EXCLUSIVE DISTRIBUTOR FOR THIS ITEM.</td>
</tr>
<tr>
<td>7.1.4</td>
<td>CAT II Active</td>
<td>DUAL POWERED TRC COOLING SYSTEM</td>
<td>DIVEX Name: Graeme Clark Phone: 01224 740145</td>
<td>DPTRC-CS (SKID UNIT &amp; UMBILICAL) N/A</td>
</tr>
<tr>
<td>7.1.7</td>
<td>CAT II Inactive</td>
<td>FIRE EXTINGUISHER, COMMERCIAL</td>
<td>AMRON INTERNATIONAL</td>
<td>MODEL 240 AMRON MODEL 240 MANUFACTURED WITH RELIEF VALVE AND PRESSURE GAUGE SPECIFICALLY FOR HYPERBARIC SERVICE.</td>
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<tr>
<td>7.1.8</td>
<td>CAT II Inactive</td>
<td>PRESSURE COMPARISON DEVICE, COMMERCIAL</td>
<td>3D INSTRUMENTS</td>
<td>8106-100/ VACUUM -60 PSI, 8103-100/ 0-150 PSI, 8105-300/ 0-3000 PSI USE ONLY DISTILLED WATER AS HYDRAULIC MEDIUM FOR GAUGE COMPARISON TO PREVENT GAUGE CONTAMINATION. FOR COMPARISON ONLY, NOT SUITABLE FOR CALIBRATION. NO LONGER MANUFACTURED NOR SUPPORTED BUT AUTHORIZED FOR CONTINUED USE.</td>
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<tr>
<td>7.1.9</td>
<td>CAT II Active</td>
<td>TEMP MONITOR, COMMERCIAL</td>
<td>ANALOX</td>
<td>ANALOX 4000 SERIES SA1A14B1P SA1A14A1P SA1A14B1P READS IN DEGREES FAHRENHEIT. SA1A14A1P READS IN DEGREES CENTIGRADE.</td>
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<tr>
<td>7.1.10</td>
<td>CAT II Inactive</td>
<td>TEMP MONITOR, COMMERCIAL</td>
<td>COLE PARMER</td>
<td>TYPE J-K8521-02 NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE.</td>
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<td>7.1.11</td>
<td>CAT II Active</td>
<td>TEMP MONITOR, COMMERCIAL</td>
<td>ANALOGIC CORP.</td>
<td>MEASUROMETER II N/A</td>
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</table>

* Admin Comments: 9/16/10 - Manufacturer info updated. Amron only distributor. Updated on: 9/24/2010 11:32:00 AM

* Admin Comments: 9/16/10 - Manufacturer info updated. Amron only distributor. Updated on: 9/24/2010 11:34:00 AM

* Admin Comments: 7/15/2014 - Updated manufacturer info. 6/16/2016 - Replaced by 7.1.17 AMEREX Corporation Model 240H. AMRON INTERNATIONAL Model 240 authorized for continued use. Updated on: 6/16/2016 9:11:00 AM

* Admin Comments: 3/18/2004 12:21:00 PM

* Admin Comments: 3/18/2004 12:21:00 PM

* Admin Comments: 3/18/2004 12:21:00 PM

* Admin Comments: 3/18/2004 12:21:00 PM

* Admin Comments: 3/18/2004 12:21:00 PM

* Admin Comments: 3/18/2004 12:21:00 PM

* Admin Comments: 3/18/2004 12:21:00 PM
### 7.1.1 Cooling Vest, Commercial

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<tr>
<td></td>
<td></td>
<td>STEELE, INC.</td>
<td>SA1140-F</td>
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Cooling vests should be considered for chambers in which a heat problem might reasonably occur, based on the operational environment and level of internal & external chamber temperature control available, i.e., heater/chiller system, air conditioned shelter, external water deluge, etc. Gel strips, PN: SA1149 are also required for this system.

* Admin Comments: 2/10/11 - Specific PN no longer manufactured. Updated on: 2/10/2011 8:25:00 AM

### 7.1.12 Chamber Conditioning System, Commercial

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<tr>
<th>Equip#</th>
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</table>
| 7.1.13 | OXYGEN TREATMENT PANEL, COMMERCIAL | AMRON INTERNATIONAL | 8890 | Authorized for fitted facility recompression chambers only. Not authorized for use in portable recompression chambers.
Authorized for use in hyperbaric chambers during treatments.
Authorized with following accessories:
1. Latex oxygen therapy hood (SL-1002)
2. Latex neck seal with mount ring (SL-1001)
3. Complete O2 therapy hood with latex neckseal (8891)
4. Humidifier (8890-0063)

* Admin Comments: 7/15/2014 - Updated manufacturer info. Updated on: 7/15/2014 7:57:00 AM

### 7.1.13 Light System, Commercial

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| 7.1.14 | CHEM LIGHTS, COMMERCIAL | OMNIGLOW CORPORATION | PN 9-27021 CYALUME NIGHT STICKS(CHMLT) | CHMLTs authorized as an emergency lighting source in hyperbaric chambers. Do not store CHMLTs in chambers; instead, they should be placed in a treatment chamber only when needed to provide illumination during a treatment.

Updated on: 2/5/2010 1:32:00 PM

### 7.1.14 Fire Extinguisher, Commercial

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<th>Designation/Model</th>
<th>Comments</th>
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| 7.1.15 | FIRE EXTINGUISHER, COMMERCIAL | AMEREX CORPORATION | MODEL 240H | Authorized for use when filled to a capacity of 2 gallons of water and charged to 200 PSIG.

Updated on: 6/16/2016 9:49:00 AM
7.2 MEDICAL INSTRUMENTS

General Notes
(1): AUTHORIZATION OF SPECIALIZED MEDICAL EQUIPMENT FOR HYPERBARIC OPERATIONS (HBO) IS TYPICALLY GRANTED TO A SPECIFIC COMMAND OR MEDICAL PERSONNEL VIA A FORMAL LETTER FROM THE NAVSEA DIVING MEDICAL OFFICER (00CM). PERSONNEL SHALL PROVIDE PROOF OF THEIR AUTHORIZATION TO USE THE EQUIPMENT IDENTIFIED PRIOR TO PROCURING. IF YOU ARE UNSURE OF YOUR AUTHORIZATION CONTACT NAVSEA 00C3 FOR GUIDANCE.

(2): REFER TO NEDU TR 03-21 FOR FURTHER DETAILS TO ASSIST WITH SELECTING THE APPROPRIATE INFUSION PUMP THAT WILL BEST SUIT THE SPACE AVAILABLE AND YOUR SPECIFIC FUNCTIONAL REQUIREMENTS.

(3): REFER TO NEDU TR 03-18 FOR FURTHER DETAILS TO ASSIST WITH SELECTING THE APPROPRIATE VENTILATOR THAT WILL BEST SUIT THE SPACE AVAILABLE AND SPECIFIC FUNCTIONAL REQUIREMENTS. VENTILATION DURING HYPERBARIC TREATMENT REQUIRES ATTENTIVE MONITORING BY PERSONNEL TRAINED IN VENTILATOR USE AND RESPIRATORY ASSESSMENT. TO ASSURE ADEQUATE SUPPORT, CLOSE MONITORING AND CONTROL ARE PARTICULARLY CRITICAL DURING DEPTH EXCURSIONS.

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<td>7.2.1</td>
<td>CAT II</td>
<td>PULSE OXIMETER</td>
<td>NONIN MEDICAL INC.</td>
<td>8500 SERIES DIGITAL HANDHELD PULSE OXIMETER ONYX 9500 FINGERTIP PULSE OXIMETER</td>
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<td>7.2.2</td>
<td>CAT II</td>
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<td>WELCH ALYN</td>
<td>PROPQA ENCORE 202EL</td>
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<td>7.2.3</td>
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<td>BLOOD GLUCOMETER</td>
<td>ACCU-CHECK</td>
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<td>ABBOTT DIABETES CARE (FORMERLY MEDISENSE)</td>
<td>PRECISION XTRA</td>
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<td>7.2.5</td>
<td>CAT II</td>
<td>PORTABLE CLINICAL ANALYZER &amp; ANALYSIS CARTRIDGES</td>
<td>ABOTT POINT OF CARE</td>
<td>I-STAT</td>
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https://secure.supsalv.org/anu/common/displayAll.asp 11/9/2017
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<tr>
<td>7.2.6</td>
<td>HANDHELD ULTRASOUND</td>
<td>TERASON</td>
<td>SMARTPROBE 2000</td>
<td>General Notes: (1) Apply. ONLY THE EXTERNAL DIGITAL CONVERSION MODULE (EDCM) AND THE SMARTPROBE ULTRASOUND (US) TRANSDUCER HEAD SHALL BE PLACED IN THE HYPERBARIC ENVIRONMENT. IMAGING SIGNALS SHALL BE PASSED THROUGH THE PRESSURE HULL VIA A HIGH SPEED IEEE 1394 CABLE WITH APPROPRIATE HULL-PENETRATOR. AUTHORIZED FOR USE TO A MAXIMUM DEPTH OF 60 FSW.</td>
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<td>7.2.7</td>
<td>INFUSION PUMP</td>
<td>MEDICAL TECHNOLOGY PRODUCTS</td>
<td>MILITARY TRANSPORT INFUSION PUMP 1001AF</td>
<td>General Notes: (1) (2) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE. AUTHORIZED FOR USE TO A MAXIMUM DEPTH OF 165 FSW</td>
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<td>7.2.8</td>
<td>INFUSION PUMP</td>
<td>ZOLL</td>
<td>POWER INFUSER</td>
<td>General Notes: (1) (2) Apply. FOR USE IN DELIVERING IV SOLUTION ONLY, ANY OTHER SUBSTANCE WILL CLOG THE FILTER SYSTEM. AUTHORIZED FOR USE TO A MAXIMUM DEPTH OF 165 FSW</td>
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<td>7.2.9</td>
<td>INFUSION PUMP</td>
<td>CARE FUSION</td>
<td>ALARIS MEDSYSTEM III</td>
<td>General Notes: (1) (2) Apply. AUTHORIZED FOR USE TO A MAXIMUM DEPTH OF 165 FSW</td>
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<td>INFUSION PUMP</td>
<td>CARE FUSION</td>
<td>IMED GEMINI PC-1</td>
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<td>VENTILATOR</td>
<td>IMPACT INSTRUMENTS INC.</td>
<td>UNI-VENT EAGLE MODEL 754</td>
<td>General Notes: (1) (3) Apply. AUTHORIZED FOR USE TO A MAXIMUM DEPTH OF 165 FSW</td>
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<td>7.2.12</td>
<td>VENTILATOR</td>
<td>NEWPORT NMI</td>
<td>E100M</td>
<td>General Notes: (1) (3) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE TO A MAXIMUM DEPTH OF 165 FSW.</td>
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<td>VENTILATOR</td>
<td>ALLIED HEALTH CARE PRODUCT, INC.</td>
<td>OMNI-VENT SERIES D</td>
<td>General Notes: (1) (3) Apply. AUTHORIZED FOR USE TO A MAXIMUM DEPTH OF 165 FSW</td>
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<td>7.2.14</td>
<td>VENTILATOR</td>
<td>PENLON</td>
<td>MULTIVENT</td>
<td>General Notes: (1) (3) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE TO A MAXIMUM DEPTH OF 165 FSW</td>
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<tr>
<td>7.2.15</td>
<td>FINGERTIP PULSE OXIMETER</td>
<td>NONIN MEDICAL INC.</td>
<td>ONYX II 9550</td>
<td>AUTHORIZED FOR USE TO A MAXIMUM DEPTH OF 165 FSW</td>
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* Admin Comments: 9/29/2014 - Added to AMU List

Updated on: 3/23/2017 11:42:00 AM