

## 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 MK 25). 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. Listed buoyancy compensators are not approved for use as a life preserver regardless of whether counterbalance 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.

(4): In addition to authorized minimum equipment, an approved buoyancy compensator (BC), maintained in accordance with the applicable Maintenance Index Page, may be worn over an approved diving harness during Kirby Morgan Dive Systems, Inc. (KM) 37 Navy Standard (NS) and KM 97 helmeted surface supplied diving (SSD) operations. In this application, BC inflation hoses will be connected to the low pressure (LP) port on the helmet side block. Dry suit / BC inflation hose and LP port plug steps outlined in the applicable operation and maintenance manual must be used during equipment setup, donning, doffing, and post-dive procedures and Diving Supervisor Checks. The BC shall not interfere with umbilical or extraction line connection to the diving harness, and, where applicable, the BC will serve as the means of attaching the diver-worn emergency gas supply (EGS) cylinder to the diver. This provision will normally be restricted to underwater ship husbandry operations planned for depths 60 feet and shallower but may be applied in support of all SSD operations on the basis of Operational Risk Management.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.0.1 CAT I Active	BUOYANCY COMPENSATOR	VARIOUS <b>Name :</b> NDCM Dumke, Joshua <b>Phone :</b> 202-904-7534 <b>Email :</b> joshua.w.dumke.mil@us.navy.mil	VARIOUS	<p>General Notes: (1) (2) (4) Apply. The buoyancy compensator must meet all of the following requirements:</p> <p>(1) Provide a minimum of 10 lbs positive buoyancy at maximum depth</p> <p>(2) Integrated weight systems must be ditchable</p> <p>(3) Include power inflator</p> <p>(4) Have an alternative source of inflation (e.g. oral)</p> <p>The manufacturer's literature may be used as verification of positive buoyancy requirement. Commands are authorized to purchase any BCD that meets these requirements.</p> <p>Note: BDC power/oral inflators with integrated 2nd stage regulator are not authorized for use.</p> <p>NOTE: In addition to authorized minimum equipment, an approved buoyancy compensator (BC), maintained in accordance with the applicable Maintenance Index Page, may be worn over an approved diving harness during Kirby Morgan Dive Systems, Inc. (KM) 37 Navy Standard (NS) and KM 97 helmeted surface supplied diving (SSD) operations. In this application, BC inflation hoses will be connected to the low pressure (LP) port on the helmet side block. Dry suit / BC inflation hose and LP port plug steps outlined in the applicable operation and maintenance manual must be used during equipment setup, donning, doffing, and post-dive procedures and Diving Supervisor Checks. The BC shall not interfere with umbilical or extraction line connection to the diving harness, and, where applicable, the BC will serve as the means of attaching the</p>

				<p>diver-worn emergency gas supply (EGS) cylinder to the diver. This provision will normally be restricted to underwater ship husbandry operations planned for depths 60 feet and shallower but may be applied in support of all SSD operations on the basis of Operational Risk Management.</p> <p><i>* 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: 3/29/2023 4:05:00 PM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.0.2 CAT I Inactive	BUOYANCY COMPENSATOR	AQUA LUNG	BC1 (formerly Black Diamond) PN 3600-xx(w Velcro weight pockets) PN 3040-xx (w SureLock weight pockets)  -xx denotes size	General Notes: (1) (2) (3) Apply. SUPERSEDED BY 1.0.1  <i>* Admin Comments : 5/29/2014 - Udpated according to manufacturers changes. Details of change filed in electronic index. Updated on: 12/6/2021 9:12:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.0.3 CAT I Inactive	BUOYANCY COMPENSATOR	SCUBAPRO	SUPERHAWK NT PN 21.100.X.00  * X DENOTES SIZE	General Notes: (1) (2) (3) Apply. SUPERSEDED BY 1.0.1  <i>* Admin Comments : 7/14/09 - Inactive. Last manufactured June 1999. Updated on: 12/6/2021 9:12:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.0.4 CAT I Inactive	BUOYANCY COMPENSATOR	ZEAGLE	RANGER PN 7908RK (OLD MODEL)  * SIZE WILL VARY	General Notes: (1) (2) (3) Apply. SUPERSEDED BY 1.0.1 <i>Updated on: 12/6/2021 9:13:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.0.5 CAT I Inactive	BUOYANCY COMPENSATOR	AQUA LUNG	SEAMASTER PN 3943  * X DENOTES SIZE	General Notes: (1) (2) (3) Apply. SUPERSEDED BY 1.0.1 <i>Updated on: 12/6/2021 9:13:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.0.6 CAT I Inactive	BUOYANCY COMPENSATOR	INTERNATIONAL DIVERS, INC.	ADVANTAGE PN 15X01M  * X DENOTES SIZE	General Notes: (1) (2) Apply. SUPERSEDED BY 1.0.1  <i>* Admin Comments : 6/10/09 - Inactive. Last manufactured in 2003. Updated on: 12/6/2021 9:13:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.0.7 CAT I Inactive	BUOYANCY COMPENSATOR	SEATEC	MILITARY MANTA PN 1001-3126 (MED) PN 1001-5126 (LARGE) PN 1001-6126 (X-LARGE)	General Notes: (1) (2) (3) Apply. SUPERSEDED BY 1.0.1 <i>Updated on: 12/6/2021 9:13:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.0.8 CAT I Inactive	BUOYANCY COMPENSATOR	ZEAGLE	CONCEPT II PRO TWIN	General Notes: (1) (2) (3) Apply. SUPERSEDED BY 1.0.1 <i>Updated on: 12/6/2021 9:13:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

1.0.9 CAT I Inactive	BUOYANCY COMPENSATOR	SCUBAPRO	CLASSIC SPORT PN 21-114-410 (LARGE)	General Notes: (1) (2) (3) Apply. SUPERSEDED BY 1.0.1  * <b>Admin Comments</b> : 07/14/09 - Inactive. Last manufactured July 2006.  Updated on: 12/6/2021 9:13:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.0.10 CAT I Inactive	BUOYANCY COMPENSATOR	SCUBAPRO	KNIGHTHAWK PN 22.130.X10  * X DENOTES SIZE	General Notes: (1) (2) (3) Apply. SUPERSEDED BY 1.0.1  * <b>Admin Comments</b> : 07/14/09 - Inactive. Last manufactured Sept 2007.  Updated on: 12/6/2021 9:14:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.0.11 CAT I Active	BUOYANCY COMPENSATOR	COBHAM MISSION SYSTEMS (FORMERLY CARLETON TECHNOLOGIES INC.)	MK11 MOD 0 PN B50800	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 (p/n 102810) is authorized for use with the Mk11 as an alternate inflation source when conducting training or non-influence ordnance diving operations.  * <b>Admin Comments</b> : 10/31/02 - Added to the AMU List. Added authorization for LU. 5/27/14 - Corrected tank size from 6.1 to 6.2 and added used of mini pressure gauge p/n 102810.  Updated on: 10/25/2022 7:18:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.0.12 CAT I Inactive	BUOYANCY COMPENSATOR	ZEAGLE	MODEL 911 PN 7607RKM	General Notes: (1) (2) Apply. SUPERSEDED BY 1.0.1  * <b>Admin Comments</b> : 07/22/03 - Added to the AMU List. Updated on: 12/6/2021 9:14:00 AM

## 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). 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.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.1 CAT I Inactive	BUOYANCY COMPENSATOR	SEATEC	MILITARY SUNFISH, PRO BLACK CORDURA W/ INFLATOR PN 1040.08 PN 1040.09	General Notes: <b>(1) (2) (3) (4)</b> 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. <i>Updated on: 1/8/2019 9:46:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.2 CAT I Inactive	BUOYANCY COMPENSATOR	SONIFORM INC.	SF-1044 (FRONT MOUNTED)	General Notes: <b>(1) (2) (3)</b> Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.  AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES.  <b>* Admin Comments :</b> 6/11/10 - Soniform acquired by SCUBAPRO in 1997. <i>Updated on: 8/8/2012 8:00:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.3 CAT I Inactive	BUOYANCY COMPENSATOR	SCUBAPRO	MILITARY CLASSIC NT BLACK, JACKET TYPE PN 21-341-X00  * X00 DENOTES SIZE AND WILL VARY	General Notes: <b>(1) (2) (3)</b> Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.  AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES.  <b>* Admin Comments :</b> 7/14/09 - Last manufactured Dec 1998. <i>Updated on: 8/8/2012 8:01:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.4 CAT I Active	BUOYANCY COMPENSATOR	AQUA LUNG <b>Name :</b> Landon VanValkenburg <b>Phone :</b> 808-4886157 <b>Email :</b> Lvanvalkenburg@aqualung.com	MILITARY YOKE STYLE PN 3940-50 PN 3940-00 (OLD)	General Notes: <b>(1) (2) (3) (4)</b> Apply. Authorized to 190 fsw with LP air inflation source other than CO2 cartridges.  <b>* Admin Comments :</b> 1997 - Upgraded to 3940-50 w/ an improved inflator & dump valve.  09/18/23 - Updated POC (NDCM Dumke) <i>Updated on: 9/18/2023 6:20:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.5 CAT I Active	BUOYANCY COMPENSATOR	DRAEGER	SHADOW LIFE VEST MK 7 MOD 0 PN 4056304	General Notes: <b>(1) (2) (3) (4)</b> Apply. Magnetic version, authorized to 190 fsw with ILP air inflation source other than CO2 cartridges. Configured with air inflation cylinders. <i>Updated on: 10/25/2022 7:22:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.6 CAT I Active	LIFE PRESERVER, LOW MAGNETIC SIGNATURE	DRAEGER	SHADOW LIFE VEST 806LM (MK 6 MOD 0) PN 4053603	General Notes: <b>(1) (2) (3) (4)</b> Apply. Non-magnetic version.  Mk 6 Mod 0 is the new designation for model 806LM.  Configured for CO2 cartridges only. <i>Updated on: 10/25/2022 7:24:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.7 CAT I Inactive	LIFE PRESERVER	AQUA LUNG	FENZY X-4 FENZY M-4 (OLD)	General Notes: <b>(1) (2) (3) (4)</b> Apply. FENZY M-4 NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.

				<p>AUTHORIZED TO 190 FSW.</p> <p>AUTHORIZED REPLACEMENT FOR THE FENZY LIFE PRESERVER CYLINDER IS STEEL FENZY CYLINDER W/ VALVE(PN 850230). CYLINDERS WITH AG5 (5283) WHICH DO NOT HAVE THE MARKS ARS OR APL ON THE SIDE MAY BE USED UNTIL THEY ARE 10 YEARS OLD.</p> <p><i>Updated on: 1/8/2019 9:49:00 AM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.8 CAT I Inactive	LIFE PRESERVER	SONIFORM INC.	MK 4 PN 5050-000 OR DWG# 592-6383528-1	<p>General Notes: <b>(1) (2) (3)</b> Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.</p> <p>AUTHORIZED TO 200 FSW FOR MK16 OPERATIONS.</p> <p>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.</p> <p>SONIFORM PNEUMATIC INFLATOR MAY BE USED TO CONVERT THE LIFE PRESERVER TO A BUOYANCY COMPENSATOR.</p> <p><i>* Admin Comments : 8/23/10 - Changed to "Inactive". Soniform no longer in business (purchased by Scubapro in 1998). 12/21/10 - Removed references to EOD MK15 EOD operations (MK15 no longer used, mk4 no longer used by EOD). Updated on: 8/8/2012 8:01:00 AM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.9 CAT I Inactive	LIFE PRESERVER	<p>B/E AEROSPACE (SMR TECHNOLOGIES ENGINEERED RUBBER PRODUCTS)</p> <p>RFI (OLDER EDITIONS)</p>	MODIFIED UDT LIFE PRESERVER PN 110669	<p>General Notes: <b>(1) (2) (3)</b> Apply. NO LONGER MANUFACTURERD BUT STILL AUTHORIZED FOR USE.</p> <p>AUTHORIZED TO 130 FSW WHEN USED WITH TWO 38 GRAM CO2 CARTRIDGES.</p> <p>TO ENSURE THAT THE LIFE JACKET DOES NOT OVER INFLATE AT DEPTHS SHALLOWER THAN 33 FSW, PULL ONE ACTUATOR AT A TIME.</p> <p>THE RUBBER SLEEVE CHECK VALVE SERVES NO USEFUL PURPOSE AND SHALL BE REMOVED PERMANENTLY FROM THESE LIFE PRESERVERS.</p> <p>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</p> <p><i>Updated on: 10/28/2013 2:21:00 PM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.10 CAT I Active	LIFE PRESERVER	DRAEGER	SECUMAR TSK 2/42 LIFE JACKET PN 4056590 (W/O CYL ASSY)	<p>General Notes: <b>(1) (2) (3) (4)</b> Apply. Authorized for use with LAR V only, maximum depth of 50 fsw.</p> <p>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 13.1 lbs for Mk 25 Mod 2.</p>

				<p><b>* Admin Comments :</b> 12/21/10 - Added notations IAW NEDU TL 10-05 3963/TA01-13, Ser 03/132 dtd 02 July 2010.</p> <p>Updated on: 10/25/2022 7:26:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.11 CAT I Inactive	LIFE PRESERVER	MUSTANG SURVIVAL	UDT LIFE VEST MUSTANG PN MD1122	<p>General Notes: <b>(1) (2) (3) (4)</b> Apply. AUTHORIZED FOR SURFACE SWIMMING AND FOR SCUBA TO 33 FSW ONLY.</p> <p><b>* Admin Comments :</b> 1/20/10 - Halkey-Roberts Valve 540 AM and 25 gram CO2 cartridge authorized for use with the UDT.</p> <p>9/26/2013 - MIL-L-16383 has been canceled and removed from this listing. This is now a COTS item.</p> <p>6/25/2015 - Notes on the rubber sleeve check valve and Halkey-Roberts inflator 840AMSBC4 have been removed. this is now a COTS item and will be controlled via the ANU configuration change process.</p> <p>Updated on: 1/8/2019 9:51:00 AM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.12 CAT I Inactive	BUOYANCY COMPENSATOR	SCUBAPRO	SEAHAWK MODEL 21.411	<p>General Notes: <b>(1) (2) (3)</b> Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.</p> <p>AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES.</p> <p><b>* Admin Comments :</b> 7/14/09 - Manufacturer POC updated. Last manufactured Nov 1997.</p> <p>Updated on: 8/8/2012 8:01:00 AM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.13 CAT I Inactive	BUOYANCY JACKET	<p>AQUA LUNG</p> <p><b>Name :</b> Katie Roberts</p> <p><b>Phone :</b> 760-376-9218</p> <p><b>Email :</b> kroberts@aqualung.com</p>	<p>ATLANTIS</p> <p>PN 762950 (W/ ORAL INFLATOR, W/ CYLS)</p> <p>PN 769960 (W/ ORAL INFLATOR, W/O CYLS)</p>	<p>General Notes: <b>(1) (2) (3) (4)</b> Apply. Authorized for use with the Mk 25 Mod 2 UBA to a maximum depth of 50 fsw.</p> <p>Authorized for use with SCUBA to a maximum depth of 190 fsw when equipped with power infiltrator (open circuit kit, PN 394091).</p> <p>IAW NEDU TL 10-05 3963/TA 01-13, 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.</p> <p>Containment collar, PN 762961, authorized for use. Follow OEM procedures when installing collar to ensure the life preserver can still be fully orally inflated prior to use.</p> <p><b>* Admin Comments :</b> 12/21/10 - Added notations IAW NEDU TL 10-05 3963/TA01-13, Ser 03/132 dtd 02 July 2010.</p> <p>2/23/2015 - Authorized use of Containment Collar, PN 762961.</p> <p>11/07/2022 - Updated POC information (NDCM Dumke)</p> <p>6/19/23 - Moved to inactive, OEM does not support and no PMS coverage. NDCM Dumke)</p> <p>Updated on: 6/19/2023 12:39:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.14 CAT I Active	LIFE PRESERVER, COMNAVSEASYS CONTROLLED ITEM	<p>AQUA LUNG</p> <p><b>Name :</b> Landon VanValkenburg</p> <p><b>Phone :</b> 808-489-6157</p>	COMBAT SWIMMER ASSAULT VEST (CSAV)	<p>General Notes: <b>(1) (3) (4)</b> Apply. Authorized for use with the Mk 25 to a maximum of 50 fsw with 8 lb weight in the non-detachable lower back pouch and an 8 lb weight in detachable pouches</p>

		<b>Email :</b> ivanvalkenburg@aqualung.com	PN 769100 (ONE SIZE W/O CYL) PN 769116 (ONE SIZE W/ CYL)	<p>mounted as low and far rearward on the vest as possible.</p> <p>Authorized for use with the Mk 16 Mod 0/1 to a maximum depth 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.</p> <p>Authorized for use with SCUBA to a maximum depth of 190 fsw.</p> <p>Approved for use with low pressure inflation system (PN 108615).</p> <p>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, &amp; 5.5 lbs for Mk 16.</p> <p><b>* Admin Comments :</b> 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  08/08/2012 - LPIS approved for use with the CSAV.  01/08/2019 - Updated PN information  11/05/2019 - Removed note "NAVAL SEA SYSTEMS COMMAND CONTROLLED ITEM UNDER COMNAVSEASYS COM PMS NSW COGNIZANCE"  09/18/2023- Updated POC (NDCM Dumke)  Updated on: 9/18/2023 6:00:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.15 CAT I Active	LIFE PRESERVER, MARCORSYSCOM CONTROLLED ITEM	AQUA LUNG <b>Name :</b> Landon ValVankenburg <b>Phone :</b> 808-4689-6157 <b>Email :</b> ivanvalkenburg@aqualung.cm	COMBATANT DIVER VEST (CDV) PN 769171 (W/ CYL) PN 769176 (W/O CYL)	<p>General Notes: <b>(1) (3) (4)</b> Apply. USMC version of the CSAV (#1.1.14).</p> <p>Authorized for use with the Mk 25 to a maximum of 50 fsw with 8 lb weight in the non-detachable lower back pouch and an 8 lb weight in detachable pouches mounted as low and as far rearward on the vest as possible.</p> <p>Authorized for use with SCUBA to a maximum depth of 190 fsw.</p> <p>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 &amp; 17.2 lbs for Mk 25 Mod 2.</p> <p>Controlled item under MARCOMSYSCOM cognizance.</p> <p><b>* Admin Comments :</b> 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  09/18/23- Updated POC (NDCM Dumke)  Updated on: 9/18/2023 6:01:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.16 CAT I Active	LIFE PRESERVER	AQUA LUNG <b>Name :</b> Landon Valvalkenburg <b>Phone :</b> 808-489-6157 <b>Email :</b> ivanvalkenburg@aqualung.com	SAR-0484-00 SCOUT SWIMMER (BIB STYLE) P/N 769031 NSN 4220014827394 PARA SWIMMER VEST (FOLDED BIB STYLE) P/N 769041 NSN 4220015151205	<p>General Notes: <b>(1) (3) (4)</b> Apply. For use by NDSTC as ancillary diving equipment (SCUBA/UBA life preserver) in the NDSTC pool only. Not intended to be used as a buoyancy compensator.</p> <p>Not authorized for open-water diving. Use as a life preserver not associated with diving operations is outside the scope of this ANU list.</p> <p><b>* Admin Comments :</b> 5/27/14 - Added to AMU List  01/08/2019 - updated part numbers</p>

				09/18/23- Updated POC (NDCM Dumke) Updated on: 9/18/2023 6:04:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.17 CAT I Active	Life Preserver	FIRST SPEAR LLC <b>Name</b> : Jesse Resner <b>Phone</b> : (757)348-1147 <b>Email</b> : resner@first-spear.com	AEGIR-38	General Notes: <b>(1) (3) (4)</b> Apply. Plate carrier with integrated life preserver. - Authorized for use with AAC Frog UBA strap kit. - Authorized for use by SOF and USMC reconnaissance with CC-UBA only to a depth of 50 fsw. - The cummerbund tactical aid to flotation (CTAF)  <b>* Admin Comments</b> : 3/30/2021 - Most recent addition was "USMC Recon" in addition to SOF 12/1/2014 - Added to AMU List 8/2/2016 - Added AAC FROG UBA STRAP KIT & AAC INSTANT ADJUSTABLE BACK PANEL 7/31/2023 - Added changes to comments and update correct equipment (NDCM Dumke) Updated on: 8/1/2023 3:55:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.18 CAT I Active	LIFE PRESERVER	S&S Precision <b>Name</b> : Angela A Borland <b>Phone</b> : (757) 806-0123 <b>Email</b> : Angela@sandsprecision.com	LIFTR-40 (LR-0001BK)	General Notes: <b>(1)</b> Apply. Authorized for use with CC-UBA only to a depth of 50 fsw. Life preserver shall be used in conjunction with S&S Precision, Crye AVS, Crye JPC, or the LBT 6094 combat vest. The life preserver must only have the oral and pull CO2 cartridge methods of activation installed for diving.  Only approved for use with 45 gram CO2 cartridges  Diving supervisors must review S&S Precision instructions for proper attachment to individual plate carriers (instructions vary).  <b>* Admin Comments</b> : 04/25/2019- Hyatt added more approved combat vest for use with the LiftR40 03June2021 - LCDR Irwin edited "can be used in conjunction" to "shall..." Updated on: 11/7/2022 2:54:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.19 CAT I Active	Life Vest Inflation System (LVIS)	AQUA LUNG <b>Name</b> : Landon ValVankenburg <b>Phone</b> : 808-489-6157 <b>Email</b> : lvanvalkenburg@aqualung.com	103688	General Notes: <b>(3)</b> Apply. The LVIS does not meet the life-saving/flotation requirements of a buoyancy compensator. In addition to the oral inflation tube, the LVIS is designed to provide a small amount of flotation to assist a CC-UBA diver.  Only authorized for use in conjunction with the Aegir-38 life preserver.  A complete LVIS kit involves three manufacturers to fit LVIS to the Aegir-38: 1) Aqua Lung America: LVIS 1.5, 3000 PSI, dial, PN 103688, POC: kroberts@aqualung.com 2) First Spear: LVIS cylinder pocket, 1.5 cf, PN 500-10-01039-500x-00, POC: azeiter@first-spear.com 3) Capewell Aerial Ssystems: SAPI cut bladder set with oral inflation (size), PN AMTC-K-1273-BL (size), POC: nick.ashton@capewell.com  Authorized for use by SOF and USMC Reconnaissance with CC-UBA only to a depth of 50 fsw.



				<p><b>* Admin Comments :</b> LCDR Hyatt added 07 Aug 2019  LCDR Hyatt Updated info and details 23 Sep 2020  NDCM Dumke update contact info  09/18/23- Updated POC (NDCM Dumke)  Updated on: 9/18/2023 6:07:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.20 CAT I Active	LIFE PRESERVER	S&S Precision <b>Name :</b> Angela A Borland <b>Phone :</b> (757) 806-0123 <b>Email :</b> Angela@sandsprecision.com	LIFTR-80 (PN: LR-0002BK)	<p>General Notes: <b>(1) (3) (4)</b> Apply. ONLY AUTHORIZED FOR USE IN CONJUNCTION WITH SOF OPERATIONS USING SCUBA OR CC-UBA TO A DEPTH OF 190 FSW.</p> <p>THE LIFE PRESERVER MUST ONLY HAVE ORAL INFLATION AND PULL CO2 CARTRIDGE INSTALLED FOR DIVING.</p> <p>ONLY APPROVED FOR USE WITH 86 GRAM CO2 CARTRIDGES</p> <p><b>* Admin Comments :</b> 06 Dec, 2019 - Added by LCDR Hyatt  16 Dec, 2019 - Updated by LCDR Hyatt  24 Jan, 2022 - Removed LIFTR-40 - LCDR Irwin  08 Feb, 2022 - Removed DDS/LOT and added CC-UBA  Updated on: 11/7/2022 2:55:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.1.21 CAT I Active	LIFE PRESERVER	First Spear, LLC <b>Name :</b> Jesse Resnerq <b>Phone :</b> 757-348-1147 <b>Email :</b> resner@first-spear.com	Assaulter Armor Carrier (AAC) FROG System	<p>General Notes: <b>(1) (3) (4)</b> Apply. - Approved for use with the MK25 Mod 2 only.</p> <p>- Approved for use to depths not to exceed 50 fsw.</p> <p>- Approved for use with the Cumberland Tactical Aid Flotation (CTAF) with 38 gram CO2 cartridges only.</p> <p>- Item is classified as a Life Preserver only. Item is not approved to be used as a buoyancy compensator.</p>

## 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 manufacturer's 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.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.2.1 CAT I Active	SCUBA CYLINDER	VARIOUS	DOT SPEC TYPE 3AL, 3AA, OR DOT SPECIAL PERMIT	<p>General Notes: <b>(1) (2) (3)</b> Apply. DOT special permit shall specify cylinder for use in underwater applications or compliance with DOT 3AA or 3AL.</p> <p><b>* Admin Comments :</b> 2/18/2015 - Changed to cover all cylinder</p>

				and assembly configurations under one category item. Updated on: 12/5/2022 1:20:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.2.18 CAT I Inactive	EGS CYLINDER, ALUMINUM	LUXFER	S-19 (19 CUFT) S-30 (30 CUFT)	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
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.2.19 CAT I Inactive	EGS CYLINDER, ALUMINUM	SHERWOOD	AL0030 (30 CUFT)	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

### 1.3 REGULATORS, COLD WATER SERVICE

#### General Notes

(1): Authorized to 190 FSW for general service and in water temperatures below 38° F, 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.

(4): Unless otherwise noted within the ANU list, the U.S. Navy planned maintenance system, or the U.S. NAVY DIVE MANUAL (SS521-AG-PRO-010), the manufacturer's operation and maintenance manual shall be followed.

(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 regulators associated temperature limitations.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.3.8 CAT I Active	FULL FACE MASK & COLD WATER REGULATOR	INTERSPIRO <b>Name</b> : Aaron O'Brien <b>Phone</b> : 262-9603168 <b>Email</b> : aaronobrien@interspiro.com	DIVATOR MK II MK 20 MOD 0 DIVATOR MK II MK 20 MOD 1	General Notes: (1) (2) (3) (4) Apply. Authorized IAW THE UBA MK 20 MOD 0/1 Technical Manual, SS600-A-MMO-010 and Divator SCUBA/DP Surface Supply Apparatus Technical Manual, SS510-AC-TMM-010.

				<p>The MK 20 MOD 0/1 shall be mated with the 1st stage of any ANU approved cold water regulator.</p> <p>Approved for use with 1.5.8 &amp; 1.5.9.</p> <p><b>* Admin Comments :</b> 1/25/11 - Materials alternate to gold silicon authorized.</p> <p>12/18/13 - Changed model from Divator MK II FFM. Referenced Tech Manual. 09/30/19 - Udate Model with "Divator MK II" for clarification and DP Kit TM reference.</p> <p>09/07/21 - removed note "REGARDLESS OF WATER TEMPERATURE, THE OVERBOTTOM MUST BE SET TO THE MK 20 2ND STAGE PRESSURE REQUIREMENTS."</p> <p>11/07/2022 - Updated POC (NDCM Dumke)</p> <p>Updated on: 12/5/2022 1:39:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.3.13 CAT I Active	COLD WATER REGULATOR	POSEIDON <b>Name :</b> Jorgen Nisson <b>Phone :</b> +46 0 31 7342914 <b>Email :</b> jorgen.nilsson@poseidon.se	XSTREAM DEEP MK3 Assembly PN: 0100-000 1st Stage PN: 0110-000 (Silver) 1st Stage PN: 0110-010 (Black) 2nd Stage PN: 0120-000 Octopus PN: 0100-003 Yoke Adapter PN: 2920	<p>General Notes: <b>(1) (2) (3) (4) (5)</b> Apply. Approved for use in DIN configuration up to 300 BAR (4351 PSI)</p> <p>Approved for use with yoke Adapter up to 232 BAR (3365 PSI)</p> <p><b>* Admin Comments :</b> 9/17/10 - Added to the AMU list IAW NEDU TR 10-01. 7/15/2014 - Corrected part numbers 1/28/2015 - Added Octopus PN 2/25/2015 - Added note for increasing IP when using as EGS based on correspondence with OEM.</p> <p>9/07/2021 - Removed Note: THE OEM SERVICE MANUAL REQUIRES THE INTERMEDIATE PRESSURE BE SET TO 125 PSI. HOWEVER A HIGHER INTERMEDIATE PRESSURE SETTTING IS AUTHORIZED IAW THE DIVE MANUAL WHEN CONFIGURED AS AN EMERGENCY GAS SUPPLY WITH A 50 TO 150 FOOT HOSE.</p> <p>7/05/2022 - Added 1st stage PN 0110-010 (black) to ANU</p> <p>Updated on: 9/12/2023 2:46:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.3.16 CAT I Active	COLD WATER REGULATOR	MARES <b>Name :</b> Zachary O'Hara <b>Phone :</b> 561-827-3441 <b>Email :</b> zohara@us.head.com	ABYSS 22 NAVY II PN 416171 PN 416546 (Octopus)	<p>General Notes: <b>(1) (2) (3) (4)</b> Apply. Approved for use in yoke configuration up to 230 BAR (3335 PSI)</p> <p>Approved for use with DIN adapter up to 300 BAR (4351 PSI)</p> <p><b>* Admin Comments :</b> 10/1/2014 - Added to AMU List 11/3/2014 - Added Octopus p/n. Same as primary regulator w/ longer hose.</p> <p>Updated on: 11/16/2023 9:38:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.3.17 CAT I Active	SCUBA ISOLATOR VALVE	ZEAGLE	ISOLATOR VALVE PN 330-0233	<p>General Notes: <b>(1) (4)</b> 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</p>

				<p>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 octopus on independent 1st stages, a low-pressure relief is required on each 1st stage.</p> <p>This item must be used in conjunction with Zeagle relief valve (PN 330-4905) or equivalent OEM recommended 1st stage relief valve.</p> <p><b>* Admin Comments :</b> 10/22/2015 - Added to ANU 11/3/2015 - Corrected comments. LP relief valve only required when diving with primary and octo on independent 1st stages. 02/11/2016 - LP Relief note corrected. Updated on: 6/6/2023 7:03:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.3.19 CAT I Active	COLD WATER REGULATOR	<p>INTERSPIRO <b>Name :</b> Aaron O'Brien <b>Phone :</b> 262-960-3168 <b>Email :</b> aaronobrien@interspiro.com</p>	<p>RS4 SCUBA W/ MOUTHPIECE RS4 SCUBA W/MK20 FFM MOD 0</p>	<p>General Notes: <b>(1) (3) (4) (5)</b> Apply. PN 57550-xx RS4 1st Stage Regulator with Breathing Valve and Mouthpiece Assembly PN 57551-xx RS4 1st Stage Regulator with Breathing Valve and FFM Assembly PN 32940 RS4 1st Stage (2-port) ONLY PN 32950 RS4 1st Stage (4-port) ONLY</p> <p>Approved for SCUBA USE ONLY with the use of the Breathing Valve with Mouth Piece or the MK20 FFM MOD 1 APPROVED FOR USE IN YOKE CONFIGURATION UP TO 230 BAR (3335 PSI) APPROVED FOR USE IN DIN CONFIGURATION UP TO 300 BAR (4351 PSI)</p> <p><b>* Admin Comments :</b> 11/10/2021 - Add to ANU List IAW NEDU TR 19-08 11/07/2022 - Updated POC (NDCM Dumke) Updated on: 11/7/2022 3:03:00 PM</p>

## 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).

**(2):** Unless otherwise noted within the ANU list, the U.S. NAVY planned maintenance system, or the U.S. NAVY DIVE MANUAL (SS521-AG-PRO-010), the manufacturer's operation and maintenance manual shall be followed.

**(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 regulators associated temperature limitations.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.4.9 CAT I	GENERAL SERVICE REGULATOR	<p>AQUA LUNG <b>Name :</b> Landon ValValkenburg</p>	<p>Conshelf XIV PN: 108100 (1st/2nd Stage)</p>	<p>General Notes: <b>(2)</b> Apply. Authorized to 190 FSW and in 50°F water and warmer.</p>

Active		<b>Phone :</b> 808-489-6157 <b>Email :</b> ivanvalkenburg@aqualung.com	Assembly); NSN: 4220011053069 PN: 108520 (Octopus W/Yellow Hose); NSN: 4220013844175	<p>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.</p> <p>Box bottom part numbers 1085-50 or 1081-22 authorized.</p> <p>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.</p> <p>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 should be cleaned and maintained IAW MIL-STD-1330.</p> <p>For converting the Conshelf XIV supreme to the standard Conshelf XIV, refer To AQUA LUNG TECH BULLETIN 15-001a at:  <a href="http://www.aqualung.com/militaryandprofessional/techlib.html">http://www.aqualung.com/militaryandprofessional/techlib.html</a></p> <p>Approved for use up to 230 BAR (3335 PSI)</p> <p>Conshelf XIV Service Kit 1085-95 (1st Stage Yoke/DIN, Air/Nitrox up to 40%) and Conshelf XIV Service Kit 1085-96 (2nd Stage Yoke/DIN, Air/Nitrox up to 40%) are suitable replacements for 105994 (1st Stage) and 108195 (1st and 2nd Stage) service kits listed in SS510-AB-OMN-010.</p> <p><b>* Admin Comments :</b> 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.  09/18/23 - Updated POC (NDCM Dumke)  9/14/15 - Added Tech Bulletin 15-001a  10/27/15 - Added note allowing use with isolator valve down to 38 DEG F.  06/01/22 - Updated the Box Bottom Part number (NDCM Dumke)  07/28/22 - Updated suitable replacement of 1st stage and 2nd Stage Regulator kits (NDCM Dumke)  11/2/22 - Contact update (NDCM Dumke)  Updated on: 9/18/2023 6:12:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.4.19 CAT I Inactive	REGULATOR, DOUBLE HOSE	AQUA LUNG	MENTOR DOUBLE HOSE PN 1085-55	<p>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 &amp; TL 12-08.</p> <p>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.</p> <p>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</p>

				<p>AND ONE CLAMP PER HOSE ON THE MOUTHPIECE END (6 TOTAL).</p> <p><b>* Admin Comments :</b> 08/21/12 - Added to the AMU List with stipulations. 01/08/2019 - No long manufactured or supported Updated on: 1/8/2019 10:21:00 AM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.4.23 CAT I Active	REGULATOR, DOUBLE HOSE	<p>AQUA LUNG</p> <p><b>Name :</b> Landon VanValkenburg <b>Phone :</b> 808-489-6157 <b>Email :</b> lvanvalkenburg@aqualung.com</p>	<p>MISTRAL</p> <p>P/N 125900</p>	<p>General Notes: <b>(2)</b> Apply. Authorized for use by naval special warfare center training commands only in a pool no deeper than 25 FT.</p> <p>Authorized for use with Panduit clamps (MCMASTER-CARR #7345K26 or equivalent) for attaching breathing hoses and the mouthpiece.</p> <p><b>* Admin Comments :</b> 8/19/15 - Added to ANU list 11/2/22 NDCM Dumke contact update 09/18/23 - Updated POC (NDCM Dumke) Updated on: 9/18/2023 6:14:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.4.24 CAT I Active	CONNECTOR, SWIVEL FITTING	<p>OMNISWIVEL</p> <p><b>Name :</b> Joseph de Wit <b>Phone :</b> 858-748-9442</p>	<p>SW-A</p> <p>SW-S</p>	<p>General Notes: <b>(1) (2)</b> Apply. For use in between the intermediate pressure hose and an ANU approved 2nd stage regulator (primary and octopus)</p> <p><b>* Admin Comments :</b> Added to ANU List on 3/17/17 Updated on: 12/5/2022 1:52:00 PM</p>

## 1.5 REGULATORS, SPECIAL SERVICE FULL FACE MASK

### General Notes

**(1):** "Old style" wire mount rail accessory systems for the MK 20 FFM are not authorized with OTS visors due to possible over-torquing and cracking of the visor (see FAR 22-003). Interspiro GEN III accessory rails are interchangeable and are authorized for use on the OTS visor.

A tech note for identifying the "old" and "new" rail systems can be found on the 00C secure site at: 00C3 drop down -> Diving Technical Guidance and Publication tab -> UBA.

Authorized "New Style" MK20 rail system assembly:  
OTS Model #: 920028-000 rail assembly  
Interspiro Model # 30582-51 rail holder

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.5.1 CAT I Inactive	FULL FACE MASK, NATO CONTROLLED ITEM	BRITISH MILITARY	BRITISH MILITARY "WIDE VISION" FFM	<p>AUTHORIZED FOR USE WITH ANU APPROVED REGULATORS.</p> <p><b>* Admin Comments :</b> 09/07/12 - Approved for use in 1989.</p> <p>06/19/23 - Moved to inactive, OEM does not support and no PMS coverage. (NDCM Dumke) Updated on: 6/19/2023 12:36:00 PM</p>

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.5.2 CAT I Inactive	FULL FACE MASK	CRESSI-SUB S.P.A.	CRESSI-SUB FFM PN KX750089	AUTHORIZED FOR USE WITH THE MK-16, MOUTH PIECE MATED TO THE MASK.  AUTHORIZED FOR THE SAME DEPTH AS THE OPEN CIRCUIT SCUBA REGULATOR THAT IS FITTED TO THE MASK.  <b>* Admin Comments :</b> 09/07/12 - Approved for use 1989.  06/19/23 - Moved to inactive, OEM does not support and no PMS coverage. (NDCM Dumke) Updated on: 6/19/2023 12:36:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.5.4 CAT I Active	Full Face Mask, M48 MOD 0/1 (Non-EOD)	KIRBY MORGAN DIVE SYSTEMS, INC. <b>Name :</b> Pete Ryan <b>Phone :</b> 805-928-7772 <b>Email :</b> pryan@kirbymorgan.com	PN 805-010 (M-48 MOD 0 Mask, No Pod) PN 805-175 (M-48 MOD 1 Mask, No Pod ) PN 805-015 (SCUBA Pod W/ Tilt-To-Purge - for use w/MK 25 and SCUBA) PN 805-082 (Re-breather Pod w/Switchover Regulator - for use w/MK-16)	Authorized for use with MK 25 MOD 2 & MK 16 MOD 1 UBAs.  The mask requires different adapters/pods for each UBA. Contact Kirby Morgan POC for purchase information.  Authorized for use with ANU SCUBA regulator and octopus as per the technical manual. Follow manual for proper SCUBA regulator installation.  Authorized for use IAW NEDU LTRS 3900 SER 02/083 DTD 21 APR 2006 and 3963/TA01-13 SER 02/008 DTD 20 JAN 2010. Contact PMS 340 for further information.  <b>* Admin Comments :</b> 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 5/17/2024 - Updated Item/Stock#, Designation/Model, and Comments Updated on: 5/17/2024 6:57:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.5.5 CAT I Active	FULL FACE MASK, MARCORSYSCOM CONTROLLED ITEM	KIRBY MORGAN DIVE SYSTEMS, INC. <b>Name :</b> Pete Ryan <b>Phone :</b> 805-928-7772 <b>Email :</b> pryan@kirbymorgan.com	COMBAT DIVER FULL FACE MASK (CDFFM) PN 805-165 (MASK W/O SCUBA POD) PN 800-080 (MASK W/ SCUBA POD)	USMC VERSION OF THE M 48 MASK. AUTHORIZED FOR USE WITH THE MK25 MOD 2. THE MASK REQUIRES DIFFERENT ADAPTORS/POD FOR EACH UBA. CONTACT MARCORSYSCOM FOR FURTHER INFORMATION.  AUTHORIZED FOR USE WITH ANU SCUBA REGULATOR AND OCTOPUS AS PER THE TECHNICAL MANUAL. FOLLOW MANUAL FOR PROPER SCUBA REGULATOR INSTALLATION.  AUTHORIZED WITH NEW FACE SEAL, P/N 810-017  <b>* Admin Comments :</b> 8/19/09 - Added to the AMU list. 1/21/09 - Added PNs. 4/20/2015 - Authorized new face seal. Updated on: 1/11/2023 1:30:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.5.6 CAT I Active	FULL FACE MASK, MILITARY	NSWC-PCD, CODE E13 <b>Name :</b> Kevin Jermyn <b>Phone :</b> 850.235.5412	MK 24, MOD 0 PN 6696515-2	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

				<p>WORK TO 300 FSW ON 88/12 HEO2.</p> <p>AUTHORIZED IN ACCORDANCE WITH SS600-AT-OMI-010.</p> <p><b>* Admin Comments :</b> 10/27/10 - Added to the AMU List. Updated on: 8/8/2013 2:34:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
<p><b>1.5.7</b> <b>CAT I</b> <b>Active</b></p>	FULL FACE MASK	<p>INTERSPIRO  <b>Name :</b> Aaron O'Brien  <b>Phone :</b> 262-960-3168  <b>Email :</b> aaronobrien@interspiro.com</p>	<p>DIVATOR MK II FFM MK 20 MOD 0  DIVATOR MK II FFM MK 20 MOD 1</p>	<p>General Note (1) Apply. Authorized IAW the UBA Mk 20 Mod 0/1 Technical Manual, SS600-A-MMO-010 and Divator SCUBA/DP Surface Supply Apparatus Technical Manual, SS510-AC-TMM-010.</p> <p>Mod 0 (positive pressure) configuration recommended for enclosed space diving and diving in Category 3 contaminated water.</p> <p>Mod 1 (non-positive pressure) configuration recommended for diving in scuba mode with a limited air supply.</p> <p>Mk 20 Mod 0/1 authorized to 29 degrees Fahrenheit and warmer when mated with the 1st stage of any ANU approved cold water regulator.</p> <p>Approved for use with ANU item 1.5.8 and 1.5.9.</p> <p>Sizes Small, Regular and Extra Large are authorized for use.</p> <p><b>* Admin Comments :</b> 1/24/11 - Added to Section 1.6. Materials alternate to gold silicone authorized.</p> <p>12/18/13 - Changed model from Divator MK II FFM. Moved MK 20 MOD 0 and MK 20 MOD 1 formerly listed as item 1.7.2 and 1.7.3. 09/30/2019 - Updated nomenclature to include "Divator MK II FFM" for clarification and DP Kit TM reference.</p> <p>03/24/22 Added information on authorized rail systems (updated NDCM Dumke)  11/07/2022 - updated POC (NDCM Dumke)  11/12/2023 - Added sizes S, XL (Irwin)  Updated on: 10/12/2023 2:14:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
<p><b>1.5.8</b> <b>CAT I</b> <b>Active</b></p>	AMBIENT AIR BREATHING DEVICE AND VISOR	<p>INTERSPIRO  <b>Name :</b> Aaron O'Brien  <b>Phone :</b> 262-960-3168  <b>Email :</b> aaronobrien@interspiro.com</p>	<p>VISOR WITH DIVATOR HATCH  INSTALLED  PN 96 962-01</p>	<p>THE INTERSPIRO HATCH IS A MODIFICATION TO THE DIVATOR MK II FFM THAT ALLOWS BREATHING OF AMBIENT AIR WHILE AT REST ON THE SURFACE.</p> <p>THE INTERSPIRO DIVATOR HATCH AMBIENT BREATHING VALVE IS ONLY AUTHORIZED FOR USE WITH THE INTERSPIRO DIVATOR II FULL FACE MASK VISOR. THE MODEL/PN LISTED REFLECTS THE VISOR WITH HATCH INSTALLED. UNIT LEVEL MODIFICATION OF THE DIVATOR MK II FFM VISOR IS NOT AUTHORIZED.</p> <p>THE DIVATOR MK II FFM WITH INTERSPIRO HATCH IS AUTHORIZED TO 190 FSW AT 29° FAHRENHEIT WATER AND WARMER PER THE U.S. NAVY DIVE MANUAL, SS521-AG-PRO-010.</p> <p><b>* Admin Comments :</b> 08/16/12 - Added to the AMU List. 10/01/19 - Updated Notes.</p>



				11/07/2022 - Updated POC (NDCM Dumke) Updated on: 11/7/2022 3:14:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.5.9 CAT I Active	AMBIENT AIR BREATHING DEVICE AND VISOR	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 714- 754-7848 Ext. 109 <b>Email :</b> kschmid@oceantechnologysystems.com	VISOR WITH ABV-2 INSTALLED PN 920010-000	General Note (1) Applies. 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.  THE OTS ABV-2 AMBIENT BREATHING VALVE IS ONLY AUTHORIZED FOR USE WITH THE OTS FULL FACE MASK VISOR. THE MODEL/PN LISTED REFLECTS THIS VISOR WITH ABV INSTALLED. 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 29° FAHRENHEIT WATER AND WARMER PER THE U.S. NAVY DIVE MANUAL, SS521-AG-PRO-010.  <b>* Admin Comments :</b> 08/16/12 - Added to the AMU List. 10/01/19 - Updated notes. 03/24/22 Added information on authorized rail systems (updated NDCM Dumke) 11/07/2022 - Updated POC (NDCM Dumke) Updated on: 11/7/2022 3:19:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.5.10 CAT I Active	EOD Full Face Mask, M48 MOD 0/1, Controlled Item & NAVSEASYS COM Controlled Item for certified UBA use.	KIRBY MORGAN DIVE SYSTEMS, INC. <b>Name :</b> Pete Ryan <b>Phone :</b> 805-928-7772 <b>Email :</b> pryan@kirbymorgan.com	M-48 MOD 0/1 Mask (LoMu) VIPER soft pod w/ tilt-to-purge (LoMu) M-48 re-breather pod assembly (LoMu)	All FFM and/or Pods require LoMu screening. Purchases shall be arranged through PMS-408 (EOD) program office. Visit PMS-408 website for POC and additional information.  <b>* Admin Comments :</b> 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. 5/17/2024 - Updated Item/Stock#, Designation/Model, and Comments Updated on: 5/17/2024 6:57:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.5.11 CAT I Inactive	AMBIENT AIR BREATHING DEVICE	TECH ONE, INC.	PN 55-300USN	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.  <b>* Admin Comments :</b> 04/06/10 - Confirmed that Tech One, Inc. is no longer in business. 08/21/12 - Moved from 1.5.1.1. Updated on: 8/21/2012 3:48:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

1.5.13 CAT I Active	MK 25 Mod 2 UBA OTS Spectrum Full Face Msk	Ocean Technology Systems <b>Name :</b> kurtis Schmid <b>Phone :</b> 800-550-1984 ex 109 <b>Email :</b> kschmid@oceantechnotysystems.com	Spectrum PN: 920036-001 (Model SFM-BB-1) PN: 920036-011 (Model SFM-UB-1) PN: 920036-101 (Model SFM-BB-2) PN: 920036-111 (Model SFM-UB-2)	<p>1. OTS Spectrum FFM in T-Bit configuration with Extended Bite Mouthpiece is authorized for use HideClick here to hide with the MK 25 Mod 2 UBA with ExtendAir canister and MK25 Mod 2 canister with Sofnolime 812. The OTS Spectrum FFM Extended Bite Mouthpiece shall always be used except when necessary for brief communication with surface tenders.</p> <p>2. For dive planning purposes, it is recommended that a sustained work rate above 40 L/min RMV is avoided based off NEDU Testing Letter TL 22-28.</p> <p>3. OTS Spectrum FFM use with the MK25 UBA WITHOUT the Extended Bite Mouthpiece is NOT authorized for use, and requires additional NEDU testing.</p> <p>4. Conduct required maintenance and procedures IAW the OEM manual until general FFM PMS is developed and instituted for the MK25 Mod 2.</p> <p><b>* Admin Comments :</b> 17 July 2023 transferred from 1.6.5 (NDCM Dumke)</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.5.14 CAT I Active	MK 25 Mod 2 UBA Panorama Nova Dive R FFM with CRYE-DRAEGER FFM Assembly	CRYE Associates, and DRAEGER Corp	Crye CG2DH-1-00-A001-CD with Draeger T52730	<p>These ANU Items is only authorized for use with the MK25 MOD 2</p> <p>Additional Notes: The Panorama Nova R FFM with the MK 25 in T-Bit configuration met performance testing criteria with the following recommendations:</p> <p>1. The FFM bite mouthpiece always be used except when necessary for brief communication with surface tenders.</p> <p>2. For dive planning purposes, users be aware of the instances where the exhaust valve is most likely to exhaust gas from the FFM.</p> <p>3. The oral nasal mask and the "heavy" spring (Part Number T54059) always be used in the FFM as all recent testing was conducted with this in place.</p> <p><b>* Admin Comments :</b> 17 July 2023 transferred from 1.6.3 (NDCM Dumke)</p> <p>Updated on: 7/17/2023 2:20:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.5.15 CAT I Active	MK 25 MOD 2 UBA Panorama Nova Dive R Full Face Mask (FFM)	Draeger	T52730	<p>This ANU Items is only authorized for use with the MK25 MOD 2. The Panorama Nova R FFM with the MK 25 in T-Bit configuration met performance testing criteria with the following recommendations:</p> <p>1. The FFM bite mouthpiece always be used except when necessary for brief communication with surface tenders.</p> <p>2. For dive planning purposes, users be aware of the instances where the exhaust valve is most likely to exhaust gas from the FFM.</p> <p>3. The oral nasal mask and the "heavy" spring (Part Number T54059) always be used in the FFM as all recent testing was conducted with this in place.</p> <p><b>* Admin Comments :</b> 17 July 2023 transferred from 1.6.2 (NDCM Dumke)</p> <p>Updated on: 7/17/2023 2:20:00 PM</p>

## 1.6 UBA SETS

### NO General Notes

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.6.1 CAT I Active	LIGHTWEIGHT DIVING APPARATUS	INTERSPIRO <b>Name</b> : Aaron O'Brien <b>Phone</b> : 262-960-3168 <b>Email</b> : aaronobrien@interspiro.com	DIVATOR SELF-CONTAINED UNDERWATER BREATHING APPARATUS/DIVE PANEL SURFACE SUPPLY APPARATUS (SCUBA/DP) KIT	<p>CLASS-CERTIFIED IAW DIVING ADVISORY 16-03. FOR FUTHER GUIDANCE, SEE TECHNICAL MANUAL NAVSEA SS510-AC-TMM-010, NAVSEA DRAWING 6699240 AND THE PRE-SURVEY OUTLINE BOOKLET (PSOB).</p> <p>CONTACT NAVSEA 00C32 PRIOR TO ORDERING A NEW KIT TO ENSURE YOUR COMMAND HAD A COMPLETE LISTING OF PARTS THAT ARE REQUIRED/ALLOWED.</p> <p>USE OF CERTIFIED CHAMBER AIR/OXYGEN SYSTEM (CAOS) AIR RACKS AND OTHER CERTIFIED AIR SOURCES ARE AUTHORIZED PER THE TM BUT REQUIRE AN ADAPTER. ALL CERTIFIED AIR RACKS 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 INJUURY TO PERSONNEL OR DAMAGE TO EQUIPMENT.</p> <p>APPROVED FOR USE IN COLD WATER.</p> <p><b>* Admin Comments</b> : 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.            9/30/2019 - Notes cleaned up since majority of issues covered by TM reference.            11/07/2022 - Updated POC (NDCM Dumke)            Updated on: 11/7/2022 3:21:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.6.2 CAT I Inactive	MK 25 MOD 2 UBA Panorama Nova Dive R Full Face Mask (FFM)	Draeger	T52730	<p>This ANU Items is only authorized for use with the MK25 MOD 2 The Panorama Nova R FFM with the MK 25 in T-Bit configuration met performance testing criteria with the following recommendations:</p> <ol style="list-style-type: none"> <li>1. The FFM bite mouthpiece always be used except when necessary for brief communication with surface tenders.</li> <li>2. For dive planning purposes, users be aware of the instances where the exhaust valve is most likely to exhaust gas from the FFM.</li> <li>3. The oral nasal mask and the "heavy" spring (Part Number T54059) always be used in the FFM as all recent testing was conducted with this in place.</li> </ol> <p><b>* Admin Comments</b> : 10/18/18 - Added to ANU            17 July 2023 Moved to Inactive, moved to 1.5.15 (NDCM Dumke)</p> <p>Updated on: 7/17/2023 2:19:00 PM</p>

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.6.3 CAT I Inactive	MK 25 MOD 2 UBA Panorama Nova Dive R FFM with CRYE- DRAEGER FFM Assembly	CRYE Associates, and DRAEGER Corp	Crye CG2DH-1-00-A001-CD with Draeger T52730	<p>These ANU Items is only authorized for use with the MK25 MOD 2</p> <p>Additional Notes: The Panorama Nova R FFM with the MK 25 in T-Bit configuration met performance testing criteria with the following recommendations:</p> <ol style="list-style-type: none"> <li>1. The FFM bite mouthpiece always be used except when necessary for brief communication with surface tenders.</li> <li>2. For dive planning purposes, users be aware of the instances where the exhaust valve is most likely to exhaust gas from the FFM.</li> <li>3. The oral nasal mask and the "heavy" spring (Part Number T54059) always be used in the FFM as all recent testing was conducted with this in place.</li> </ol> <p><b>* Admin Comments :</b> 10/18/18 - Added to ANU 17 July 2023 Moved to Inactive, moved to 1.5.14 (NDCM Dumke)</p> <p>Updated on: 7/17/2023 2:19:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.6.5 CAT I Inactive	MK 25 MOD 2 UBA OTS Spectrum Full Face Mask	Ocean Technology Systems <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800-550-1984 x 109 <b>Email :</b> kschmid@oceantechnologiesystems.com	Spectrum PN: 920036-001 (Model SFM-BB-1) PN: 920036-011 (Model SFM-UB-1) PN: 920036-101 (Model SFM-BB-2) PN: 920036-111 (Model SFM-UB-2)	<ol style="list-style-type: none"> <li>1. "OTS Spectrum FFM in T-Bit configuration with Extended Bite Mouthpiece is authorized for use with the MK 25 Mod 2 UBA with ExtendAir canister and MK25 Mod 2 canister with Sofnolime 812. The OTS Spectrum FFM Extended Bite Mouthpiece shall always be used except when necessary for brief communication with surface tenders."</li> <li>2. "For dive planning purposes, it is recommended that a sustained work rate above 40 L/min RMV is avoided based off NEDU Testing Letter TL 22-28."</li> <li>3. "OTS Spectrum FFM use with the MK25 UBA WITHOUT the Extended Bite Mouthpiece is NOT authorized for use, and requires additional NEDU testing."</li> <li>4. "Conduct required maintenance and procedures IAW the OEM manual until general FFM PMS is developed and instituted for the MK25 Mod 2."</li> </ol> <p><b>* Admin Comments :</b> 17July 2023- status inactive moved to 1.5.13 (NDCM Dumke)</p> <p>Updated on: 7/17/2023 2:18:00 PM</p>

## 1.7 NAVY DIVE COMPUTERS

### General Notes

(1): May provide significant advantage when diving a multi-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.

(2): Diver qualification/completion of training for the operation and maintenance of the NDC shall be documented in writing by the commanding officer or command leadership (DEPT HEADS, OIC, R&T).

(3): Not authorized for altitude diving operations above 1000 FT.

(4): The configuration manager for this equipment shall be contacted prior to purchase and authorization for use.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.7.1 CAT I Active	NAVY DIVE COMPUTER	COCHRAN UNDERSEA TECHNOLOGY <b>Name</b> : Mike Cochran/John Corso <b>Phone</b> : 972.644.6284	NSW III NDC (BLACK) PN 512110571	<p>General Notes: (1) (2) (3) (4) Apply. BLACK VARIANT NSW III AUTHORIZED FOR USSOCOM COMPONENT SPECIAL OPERATION FORCES FOR NO DECOMPRESSION DIVES.</p> <p>CONFIGURATION MANAGEMENT OF THIS ITEM IS CONTROLLED BY PMS NSW.</p> <p>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.</p> <p><b>* Admin Comments</b> : 12/15/05 - Added to the AMU List. 12/28/12 - Comments Revised 6/10/2020 - Confirmed Cochran Undersea Technology discontinued operations.</p> <p style="text-align: right;">Updated on: 6/10/2020 12:47:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.7.2 CAT I Active	NAVY DIVE COMPUTER	COCHRAN UNDERSEA TECHNOLOGY <b>Name</b> : Mike Cochran/John Corso <b>Phone</b> : 972.644.6284	FLEET (YELLOW)  AIR III-79 NDC PN 742610171	<p>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.</p> <p>ENABLING PROGRAMMING MODE IS AUTHORIZED TO PROVIDE USE OF THE PRE-DIVE PREDICITON MODE. PRIOR TO DIVING, VERIFY CONSERVATISM IS SET TO ZERO. REFER TO THE OEM USER MANDUAL FOR FURTHER GUIDANCE ON THE USE OF PROGRAMMING MODE.</p> <p>THE AIR III-79 NDCs ARE DISTINGUISHIBLE BY THE FRONT BEZEL READING 'AIR III-79'.</p> <p>CONFIGURATION MANAGEMENT OF THIS ITEM IS CONTROLLED BY NAVSEA 00C3.</p> <p><b>* Admin Comments</b> : 12/15/05 - Added to the AMU List. 12/28/12 - Comments Revised. 11/4/2014 - Added Air III-79 and updated note accordingly 11/12/2014 - Corrected P/N for AIR III-79 4/10/2015 - Added authorization for enabling programming mode IAW ECP NDC002. 3/10/2017 - removed old PN and associated notes 6/10/2020 - Confirmed Cochran Undersea Technology discontinued operations.</p> <p style="text-align: right;">Updated on: 6/10/2020 12:48:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.7.3 CAT I Active	NAVY DIVE COMPUTER	COCHRAN UNDERSEA TECHNOLOGY <b>Name</b> : Mike Cochran/John Corso <b>Phone</b> : 972.644.6284	EOD III NDC (GREY) PN 667510541 (NDC) PN 667510G41 (DTDG ONLY)	<p>General Notes: (1) (2) (3) (4) Apply. GREY VARIANT EOD III AUTHORIZED FOR EOD APPLICATIONS FOR NO DECOMPRESSION DIVES.</p> <p>CONFIGURATION MANAGEMENT OF THIS ITEM IS</p>

				<p>CONTROLLED BY PMS EOD.</p> <p>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.</p> <p>ALL COMMANDS WILL ENSURE INITIAL LO-MU SCREENING IS COMPLETED AT NAVEODTECHDIV.</p> <p>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.</p> <p><b>* Admin Comments :</b> 03/28/2011 - PN 667510541 Added as the EOD III NDC. 12/28/12 - Comments Revised. 6/10/2020 - Confirmed Cochran Undersea Technology discontinued operations.</p> <p style="text-align: right;">Updated on: 6/10/2020 12:48:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.7.4 CAT I Active	NAVY DIVE COMPUTER	COCHRAN UNDERSEA TECHNOLOGY <b>Name :</b> Mike Cochran/John Corso <b>Phone :</b> 972.644.6284	NSW III 50/12 1.3 AIR NDC (BLACK) PN 772110571	<p>General Notes: <b>(1) (2) (3) (4)</b> 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.</p> <p>CONFIGURATION MANAGEMENT OF THIS ITEM IS CONTROLLED BY PMS NSW.</p> <p><b>* Admin Comments :</b> 12/28/12 - Comments Revised. 6/10/2020 - Confirmed Cochran Undersea Technology discontinued operations.</p> <p style="text-align: right;">Updated on: 6/10/2020 12:48:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.7.5 CAT I Active	NAVY DIVE COMPUTER	COCHRAN UNDERSEA TECHNOLOGY <b>Name :</b> Mike Cochran/John Corso <b>Phone :</b> 972.644.6284	NSW HE III 200-1.3 PN 792310D71	<p>General Notes: <b>(1) (2) (3) (4)</b> 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.</p> <p>CONFIGURATION MANAGEMENT OF THIS ITEM IS CONTROLLED BY PMS NSW.</p> <p><b>* Admin Comments :</b> 09/14/11 - Added to the AMU List. 12/28/12 - Comments Revised. 11/12/2014 - Corrected color from black to dark blue. 6/10/2020 - Confirmed Cochran Undersea Technology discontinued operations.</p> <p style="text-align: right;">Updated on: 6/10/2020 12:49:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.7.6 CAT I Active	NAVY DIVE PLANNER	NEDU	NAVSEA V4.03 NAVSEA V4.03HE	<p>General Notes: <b>(4)</b> Apply. THE NDP CONFIGURATION FILES (.INI; .DAT; .MPF) SHALL NOT BE ALTERED.</p> <p>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.</p>

				<p>USERS MUST ENSURE THE CORRECT BREATHING MEDIUM VERSION AND GAS MIX IS SELECTED FOR THE DIVE BEING PERFORMED.</p> <p>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 NDP IS ASSUMED BY NAVSEA APPROVAL OF THE COMMAND SPECIFIC PROCEDURES THAT REQUIRE THE NDP.</p> <p>THE NDP SHALL BE USED ONLY BY PERSONNEL WHOSE PROFICIENCY IN NDP USE HAS FIRST BEEN ESTABLISHED BY DOCUMENTED COMPLETION OF APPROPRIATE TRAINING.</p> <p><i>* Admin Comments : 5/30/2014 - Added to AMU List Updated on: 1/14/2015 9:56:00 AM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.7.7 CAT I Active	NAVY DIVE COMPUTER	SHEARWATER <b>Name :</b> Ross Fielding <b>Phone :</b> 240-277-7149 <b>Email :</b> ross.fielding@chasedefense.com	PERDIX USN VERSION	<p>General Notes: <b>(1) (2) (3)</b> Apply. NAVSEA CONTROLLED ITEM; CONTACT NAVSEA 00C3 PRIOR TO PURCHASE.</p> <p>MAXIMUM WORKING DEPTH IN DRY HYPERBARIC ENVIRONMENT IS 200 FSW.</p> <p>RECHARGEABLE LITHIUM-ION BATTERIES ARE NOT AUTHORIZED; NON-RECHARGEABLE LITHIUM (PREFERRED) AND ALKALINE BATTERIES ARE APPROVED.</p> <p>RESTRICTED TO NO DECOMPRESSION DIVES FOR ALL MODES WITH THE EXCEPTION OF NSW APPLICATIONS CONDUCTED PER NAVSEA-APPROVED PROCEDURES.</p> <p>OPERATE PER THE QUICK REFERENCE GUIDE AND OPERATING INSTRUCTIONS LOCATED ON THE NAVSEA WEBSITE.</p> <p>ITEM HAS NOT BEEN LoMu TESTED AND SHALL NOT BE USED IN AN INFLUENCE ORDNANCE ENVIRONMENT.</p> <p><i>* Admin Comments : 4/11/22 - MLP ADDED TO THE ANU 11/14/23 - Updated POCs (NDCM Dumke) Updated on: 11/15/2023 2:00:00 AM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.7.8 CAT I Active	NAVY DIVE COMPUTER	SHEARWATER <b>Name :</b> Ross Fielding <b>Phone :</b> 240-277-7149 <b>Email :</b> ross.fielding@chasedefense.com	TERIC USN VERSION	<p>General Notes: <b>(1) (2) (3)</b> Apply. NAVSEA-CONTROLLED ITEM; CONTACT NAVSEA 00C3 PRIOR TO PURCHASE. SHEARWATER TERIC "USN VERSION" IS DIFFERENT FROM COMMERCIALY AVAILABLE SHEARWATER TERIC.</p> <p>MAXIMUM WORKING DEPTH IN DRY HYPERBARIC ENVIRONMENT IS 200 FSW.</p> <p>RESTRICTED TO NO-DECOMPRESSION DIVES FOR ALL MODES WITH THE EXCEPTION OF NSW APPLICATIONS CONDUCTED PER NAVSEA-APPROVED PROCEDURES.</p> <p>OPERATE PER THE QUICK REFERENCE GUIDE AND OPERATING INSTRUCTIONS LOCATED ON THE NAVSEA</p>

				WEBSITE.  ITEM HAS NOT BEEN LoMu TESTED AND SHALL NOT BE USED IN AN INFLUENCE ORDNANCE ENVIRONMENT.  * <b>Admin Comments</b> : Added by LCDR Irwin 7/20/2022 11/14/23 - Updated POCs (NDCM Dumke) Updated on: 11/15/2023 2:02:00 AM
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1.8 DIVER PROPULSION DEVICES				
<b>General Notes</b> <b>(1):</b> In classroom and shallow water training is mandatory for this item prior to operational use.				
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.8.2 CAT II Inactive	DIVER PROPULSION VEHICLE (DPV), COMMERCIAL	FARALLON USA, INC.	MK V MK VI	General Notes: <b>(1)</b> Apply. NOW BEING SUPPORTED BY FARALLON USA INC, DIVER PROPULSION VEHICLES.  * <b>Admin Comments</b> : 6/10/2020 - Farallon USA, Inc. is no longer in operation. Updated on: 10/15/2020 3:51:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.8.3 CAT II Inactive	DIVER PROPULSION VEHICLE (DPV), COMMERCIAL	FARALLON USA, INC.	MK VIII MK VIII-S	General Notes: <b>(1)</b> Apply. FOLLOW ON REPLACEMENT MODEL TO OLDER FARALLON MODELS MK V AND MK VI. MK VIIIS IS A SMALLER VERSION OF THE MK VIII  * <b>Admin Comments</b> : 6/10/2020 - Farallon USA, Inc. is no longer in operation. Updated on: 10/15/2020 3:51:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
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
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
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
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.8.7 CAT I Active	SWIMMER DELIVERY VEHICLE (SDV), NAVSEA CONTROLLED ITEM	PMS NSW	MK 8 MOD 1 MK 8 MOD 1(D)	General Notes: <b>(1)</b> Apply. 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 COMNAVSEASYS COM PMS NSW COGNIZANCE.  * <b>Admin Comments</b> : 02/25/10 - AIR ONLY note added. 12/1/2014 - MK 8 MOD 1(D) added. Updated on: 8/25/2020 11:50:00 AM



Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.8.8 CAT II Active	DIVER PROPULSION DEVICE (DPD), COMMERCIAL	STIDD SYSTEMS, INC. <b>Name</b> : David Wilberding <b>Phone</b> : 202-904-4461 <b>Email</b> : dwilberding@stidd.com	DPD DPD-ER DPD-TEC2 DPD-TEC2-ER DPD-XT-TEC2 E-DPD (USMC)	General Notes: (1) Apply. USSOCOM STD O&M MANUAL REQUIRED.  '-TEC2' INDICATES IMPROVED PROPULSOR WITH BRUSH-LESS DC MOTOR AND MAGNETICALLY COUPLED DRIVE SHAFT.  -XT' INDICATES DUAL TEC2 THRUSTERS  -ER' INDICATES AN ADDITIONAL BATTERY INSTALLED IN PARALLEL FOR INCREASED OPERATING TIME.  -E-DPD' USMC VARIANT, SINGLE TEC2 THRUSTER, RNAV2 READY, BRENTRONICS BATTERY READY, AP2 DIVER ASSIST, S2 SONAR. USMC VERSION ONLY AT THIS TIME DUE TO LITHIUM BATTERY CHARGING AND FIELDING RESTRICTIONS. FOR ADDITIONAL DETAILS CONTACT NAVSEA 00C3.  <i>* 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. 01/15/2020 - ADDED XT. LDCR HYATT 08/25/2020 - Added E-DPD. LCDR Hyatt Updated on: 8/25/2020 11:49:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.8.9 CAT II Active	DIVER PROPULSION VEHICLE (DPV), COMMERCIAL	PEGASUS MANUFACTURING INC.  <a href="http://pegasusthruster.com">http://pegasusthruster.com</a> <b>Name</b> : Dean Vitale <b>Phone</b> : 305.720.6776	PT-90001	General Notes: (1) Apply. AUTHORIZED FOR USE UP TO A DEPTH OF 60 FSW.  <i>Updated on: 8/25/2020 11:49:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.8.10 CAT II Active	DIVER PROPULSION VEHICLE (DPV), COMMERCIAL	PATRIOT3, INC. <a href="http://www.Patriot3.com">www.Patriot3.com</a> <b>Name</b> : Charles Fuqua <b>Phone</b> : 540-891-7353 <b>Email</b> : Cfuqua@patriot3.com	P3M-DPK-001-0105 (JET BOOTS)	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.  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  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 SER N841/1089 DTD 9 JUL 2013.  4. CHARGING/DISCHARGING AND STORAGE OF THE JET BOOT BATTERY SYSTEM ON UNDERWAY PLATFORMS (AIR, SURFACE, OR UNDERSEA) SHALL BE AUTHORIZED VIA

				<p>SEPARATE AUTHORITIES UNDER NAVSEAINST 9310.1C, THE LION AUTHORITATIVE DOCUMENT.</p> <p>5. CHARGING/DISCHARGING OPS/EPS AND STANDARDIZED WARNINGS SHALL BE POSTED IN A CONSPICUOUS AREA ADJACENT TO CHARGER/DISCHARGER UNIT.</p> <p>6. ANY UNDUE EVENT OR FAILURE OF THE CHARGER/DISCHARGER SYSTEM SHALL BE REPORTED VIA FAR TO SEA06-NSW (PMS340) AND SEA 00C3.</p> <p>7. AUTHORIZED FOR USE WITH: FLOTATION KIT, P/N P3M-DPK-001-0205 STANDARD CHARGER, PN P3M-DPC-001-0114 CHARGER+DISCHARGER, PN P3M-DPC-001-0285</p> <p><i>* 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</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
1.8.11 CAT II Active	DIVER PROPULSION VEHICLE (DPV), COMMERCIAL	<p>SUEX EXPLORATION</p> <p><b>Name :</b> Casey McKinley</p> <p><b>Phone :</b></p> <p><b>Email :</b> casey@d3diving.com</p>	<p>SXD3N90500 (SUEX XJ14N NIMH 14AH)</p> <p>SX71278 (NERO XJ MOD 1 NIMH 14AH)</p>	<p>General Notes: (1) Apply. USE ONLY WITH OEM PROVIDED PROPERLY WEIGHTED TOW CORD WITH A QUICK RELEASE.</p> <p>BASE CONFIGURATION AS LISTED IN THE "DESIGNATION/MODEL" OF THE VEHICLE IS AUTHORIZED TO SUPPORT ADD-ON BRACKETS THAT SUPPORT THE INTEGRATION OF UNDERWATER NAVIGATION TYPE EQUIPMENT. ADD-ONS WILL STRAP AROUND OR UTILIZE PREFABRICATED LOCATIONS FOR ADDITIONAL EQUIPMENT. NO HOLES OR MODIFICATIONS WILL BE MADE TO THE BASE CONFIGURATION FOR THE ADDITION OF ADD-ONS. ADD-ONS MUST BE ANU APPROVED ITEMS.</p> <p>ITEM IS ONLY APPROVED FOR USE WITH THE OEM 14AH NIMH BATTERY. NO OTHER BATTERIES SHALL BE USED.</p> <p>UNTIL PMS IS DEVELOPED THE OEM MAINTENANCE PLAN SHALL BE ADHERED TO.</p> <p><i>* Admin Comments : Added to ANU list 05-08-2018 LT Hyatt Note Change 03-11-2019 LCDR Hyatt added the Nero XJ MOD-1 07 Aug, 2019 Updated on: 8/25/2020 11:49:00 AM</i></p>

## 2.1 DIVING HARNESS

### General Notes

(1): Harness has been independently tested (extraction d-ring/s, umbilical d-rings and webbing) to 1000 lbs. for five minutes IAW NAVSEA 00C ANU testing requirements.

(2): Each harness is clearly marked in a durable manner with the following minimum information:

- Manufacturer's name
- Unique identifier (i.e. Serial number)
- Month and year of production
- This is not a requirement for in service harnesses. Companies will have sufficient time to have manufacturer's name, unique identifier, month and year of production added to harness.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.1.1 CAT I Active	DIVER'S SAFETY HARNESS	ATLANTIC DIVING EQUIPMENT <b>Name</b> : Mark Gibello <b>Phone</b> : 714-619-3373 <b>Email</b> : mark@xsscuba.com	B200 B/NS (MK-20 HARNESS)	JOCKING STRAP REQUIRED. THIS HARNESS WAS FORMERLY DESIGNATED UNDER DWG # 592-6318020 OR ADS/MARVEL PN BH200 B/NS (NO JOCKING STRAP).  <i>* Admin Comments : 4/17/2015 - Corrected Manufacturer to Atlantic Diving Equipment 3/21/11 - Manufacturer corrected to Atlantic Diving Equipment. 2/17/15 - PN Corrected to approved MK20 TM; AMRON PN and ADS PN updated</i>  <i>Updated on: 12/10/2020 3:41:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.1.2 CAT I Inactive	INTEGRATED DIVERS VEST (IDV)	MORRIS DIVING EQUIPMENT	MIL-V-24690(SH) OR PN 4666989	NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.  <i>* Admin Comments : 8/19/11 - Manufacturer no longer exists.</i> <i>Updated on: 12/10/2020 3:40:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.1.3 CAT I Inactive	DIVE HARNESS	ZEAGLE	MILITARY VEST PN 7050-AM	REQUIRES JOCKING STRAP AND "D" RINGS ON BOTH SIDES AND WAIST.  <i>Updated on: 1/22/2021 10:37:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.1.5 CAT I Active	DIVE HARNESS	ATLANTIC DIVING EQUIPMENT	INTEGRATED DIVE VEST (IDV) PN 16509	<i>Updated on: 11/10/2020 7:39:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.1.6 CAT I Inactive	DIVE HARNESS	DIVEX	PN DE394K OR PN DE400	DE394K HOLDS UP TO 61 LBS NON-DITCHABLE WEIGHT.  DE400 HOLDS UP TO 81 LBS OF DITCHABLE WEIGHT.  NO LONGER MANUFACTURED, STILL AUTHORIZED FOR USE.  <i>* Admin Comments : 01/08/2019 - No longer supported by manufacture.</i>  <i>Updated on: 12/10/2020 3:38:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.1.7 CAT I Active	DIVE HARNESS	AQUA LUNG <b>Name</b> : Landon VanValkenburg <b>Phone</b> : 808-489-6157 <b>Email</b> : @aqualvanvalkenburg@aqualung.com	SURFACE SUPPLIED HARNESS (SSH) PN 769158 (SIZE 0) PN 769161 (SIZE 1) PN 769169 (SIZE 2)	General Notes: (1) Apply. OLD SSH SUSPEND USE IAW AIG 20-18. ONLY NEW SSH WITH FORGED D-RINGS AUTHORIZED FOR USE.  FOR TENDED SURFACE SUPPLIED DIVING APPLICATIONS.

				<p>HOLDS UP TO 10 LBS NON-DITCHABLE WEIGHT &amp; UP TO 40 LBS OF DITCHABLE WEIGHT.</p> <p><b>* Admin Comments :</b> 7/6/10 - Added to the AMU List.  5/2/15 - Added Size 0.  10/20/20 - Suspend use IAW AIG 20-18  01/29/21 - Returned to ANU, only new SSHs with forged D-Rings  11/2/22 - Contact Update (NDCM Dumke)  09/18/23- Updated POC (NDCM Dumke)  Updated on: 9/18/2023 6:16:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.1.8 CAT I Active	DIVER'S SAFETY HARNESS	<p>MILLER DIVING CORPORATION  <b>Name :</b> Trent Schultz  <b>Phone :</b> (805) 928-7772  <b>Email :</b> TSchultz@Kirbymorgan.com</p>	<p>900-070  900-025</p>	<p>General Notes: <b>(1) (2)</b> Apply. - 900-070 approved only with adjustable shoulder straps, chest strap, jockstrap with clips and shoulder D rings  - 900-025 approved only with adjustable shoulder straps, chest strap, jockstrap with clips (part number 900-086) and shoulder D rings</p> <p><b>* Admin Comments :</b> Added to ANU list 3/17/17  LCDR Hyatt - Updated POC info 02/09/21  Updated on: 1/11/2022 10:53:00 AM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.1.9 CAT I Active	HARNESS, COMMERCIAL	<p>AQUA LUNG  <b>Name :</b> Landon VanValkenburg  <b>Phone :</b> 808-489-6157  <b>Email :</b> lvanvalkenburg@aqualung.com</p>	<p>COMBAT SWIMMER HARNESS (CSH)  PN 495506</p>	<p>General Notes: <b>(1) (2)</b> Apply.</p> <p><b>* Admin Comments :</b> 3/31/2021 - Updated to reflect Notes 1 and 2 by LCDR Irwin.  5/18/2009 - Added to the AMU list.  01/08/2019 - Updated Part Number and location on ANU  11/2/22 - Update Contact info (NDCM Dumke)  09/18/23- Updated POC (NDCM Dumke)  Updated on: 9/18/2023 6:17:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.1.10 CAT I Inactive	HARNESS, DIVING	<p>AQUA LUNG  <b>Name :</b> GLEN RUBIN  <b>Phone :</b> 850.625.4193  <b>Email :</b> grubin@aqualung.com</p>	<p>H3 SURFACE SUPPLY HARNESS  400800, 400801, 400811, 400812, 388032</p>	<p>Authorized for continued use.</p> <p><b>* Admin Comments :</b> 5/29/2021 - Made inactive due to addition of 2.1.11  add 10 December 2020 by NDCM Dumke, Josh  Updated on: 3/29/2021 2:27:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.1.11 CAT I Active	SURFACE SUPPLIED HARNESSES	<p>VARIOUS  <b>Name :</b> NDCM DUMKE  <b>Phone :</b> (202) 904-7534  <b>Email :</b> joshua.w.dumke@navy.mil</p>	ADCI 6 COMPLIANT	<p>DIVING COMMANDS MAY PROCURE ASSOCIATION OF DIVING CONTRACTORS INTERNATIONAL (ADCI) 6 COMPLIANT HARNESSES. PROOF OF ADCI 6 COMPLIANCE MUST BE PROVIDED TO THE COMMAND.  FOR THE ADDITION OF NON-ADCI 6 SURFACED SUPPLIED HARNESSES, PLEASE CONTACT THE ANU MANAGER</p> <p><b>* Admin Comments :</b> 2020/12/18 - LCDR Hyatt added  Updated on: 1/4/2021 11:52:00 AM</p>

## 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 spiral designed umbilical must be factory twisted and incorporate a combination strength/communication cable.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.2.1 CAT I Active	BREATHING AIR HOSE, COMMERCIAL	FURON, SYNFLEX DIVISION	34BA	General Notes: (1) Apply. PRODUCT ID: SYNFLEX 34BA-06 3/8 INCH ID, WORKING PRESSURE 250 PSI. <i>Updated on: 8/12/2020 11:41:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.2.2 CAT I Active	BREATHING AIR HOSE, COMMERCIAL	GATES CORPORATION	33HB	General Notes: (1) Apply. PRODUCT ID: 33HB - 3/8 INCH ID, WORKING PRESSURE 1,125 PSI. <i>Updated on: 8/12/2020 11:42:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.2.3 CAT I Inactive	BREATHING AIR HOSE, COMMERCIAL	UMBILICALS INTERNATIONAL	HDA0106	APPROVED FOR CONTINUED USE BUT NOT AVAILABLE FOR PURCHASE  PRODUCT ID: HDA0106 - 3/8 INCH ID, WORKING PRESSURE 500 PSI.  AUTHORIZED FOR USE WITH UMBILICALS INTERNATIONAL FITTING PN FXFSP20606  AUTHORIZED FOR USE WITH UMBILICALS INTERNATIONAL FITTING PN FXFSP50606  <i>* 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 Updated on: 10/25/2017 2:54:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.2.4 CAT I Active	BREATHING AIR HOSE, COMMERCIAL	FIBRON (FORMERLY CORTLAND COMPANY) <i>Name : Marco Cano Phone : 713-292-6486 Email : MARCO.CANO@FIBRON.COM</i>	FLT06/R	General Notes: (1) Apply. PRODUCT ID: FLT06/R - 3/8 INCH ID, WORKING PRESSURE 500 PSI.  AUTHORIZED FOR USE WITH CORTLAND FITTING PN FPBSF/M/06-04OXY  <i>* Admin Comments : 3/23/21 - Changed Manufacturer Name to Fibron Updated on: 3/23/2021 9:23:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.2.5 CAT I Inactive	BREATHING AIR HOSE, COMMERCIAL	JDR	HAL0106	PRODUCT ID: HAL0106 - 3/8 INCH ID, WORKING PRESSURE 500 PSI.  AUTHORIZED FOR USE WITH JDR FITTING PN XF06SP1F06  AUTHORIZED FOR USE WITH CORTLAND FITTING PN FPBSF/M/06-04OXY

				NO LONGER AVAILABLE FOR PURCHASE, AUTHORIZED FOR CONTINUED USE <i>Updated on: 3/13/2017 9:36:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.2.6 CAT I Active	BREATHING AIR HOSE, COMMERCIAL	UMBILICALS INTERNATIONAL	HDA0106-USN	General Notes: (1) Apply. PRODUCT ID: HDA0106-USN, 3/8 INCH ID, WORKING PRESSURE 500 PSI.  AUTHORIZED FOR USE WITH UMBILICALS INTERNATIONAL FITTING PN FXFSP50606  <b>* Admin Comments :</b> 10/25/2017 - ADDED TO ANU <i>Updated on: 8/12/2020 11:42:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.2.7 CAT I Active	MK-20 UMBILICAL TO MASK HOSE ASSEMBLY	DIVE LAB <b>Name :</b> Mike Ward <b>Phone :</b> 850-235-2715 <b>Email :</b> <a href="mailto:divelab@divelab.com">divelab@divelab.com</a>	DL-638-32	WORKING PRESSURE 250 PSI 32" LENGTH HOSE ASSEMBLIES WITH A 5/16" INSIDE DIAMETER ALL PREVIOUSLY MANUFACTURED HOSE ASSEMBLIES PRODUCED BY DANICORP THAT MEET SPECIFICATIONS WITHIN THE MK-20 MOD 0/1 MANUAL ARE AUTHORIZED FOR CONTINUED USE, BUT ARE NO LONGER IN PRODUCTION.  <b>* Admin Comments :</b> 07/06/2020 - Added LCDR Hyatt <i>Updated on: 10/25/2022 4:01:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.2.8 CAT I Active	HOSE ASSY, 9/16-18 EGS/SCUBA FIRST STAGE TO A SECOND STAGE REG (Enclosed Space Diving Emergency Gas Supply Hose) FOR MK-20 OR KM 37/97	AMRON INTERNATIONAL, INC. <b>Name :</b> Tyler Key <b>Phone :</b> 760.208.6532 <b>Email :</b> <a href="mailto:tkey@amronintl.com">tkey@amronintl.com</a>	LP5-91618F-3824M1800	- 50'-150' LENGTHS AVAILABLE  - 50-150' LENGTH EMERGENCY GAS SUPPLY (EGS) HOSES WITH AN INTERNAL DIAMETER OF 5/16" AND A MINIMUM WORKING PRESSURE OF 250 PSI THAT WERE REQUISITIONED PRIOR TO 12 AUGUST 2020 AND MANUFACTURED IN ACCORDANCE WITH EN250:2014 STANDARDS ARE ALSO AUTHORIZED, PROVIDED THEY ARE FITTED WITH A 9/16-18 FEMALE SCUBA SWIVEL AT THE SECOND STAGE REGULATOR CONNECTION AND A 3/8-24 UNF-2A RH MALE FITTING AT THE FIRST STAGE REGULATOR CONNECTION. ALL HOSES SUBJECT TO THIS PROVISION MUST UNDERGO A FIVE MINUTE, 435 PSI HYDROSTATIC TEST WITH NO END FITTING SLIPPAGE OR OTHER MATERIEL DEGRADATION OR DEFORMATION. TESTS MUST BE FORMALLY DOCUMENTED AND RETAINED AS OBJECTIVE QUALITY EVIDENCE FOR THE LIFE OF THE HOSE. ALL HOSES MUST BE MAINTAINED IN ACCORDANCE WITH APPROVED PROCEDURES.  - WHEN USED WITH THE KM 37/97 THE HOSE WILL BE CONNECTED TO THE HELMET'S SIDE BLOCK ASSEMBLY INSTEAD OF DIRECTLY TO THE SECOND STAGE REGULATOR.  <b>* Admin Comments :</b> 12 AUG, 2020 - ADDED LCDR HYATT 28 APR, 2021 - EGS ACQUIRED PRIOR TO 12 AUG 2020 ADDED NDCM HOPKINS <i>Updated on: 4/28/2021 2:11:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.2.9 CAT I	MK 20 UMBILICAL TO MASK HOSE ASSEMBLY	AMRON INTERNATIONAL, INC. <b>Name :</b> Tyler Key	LP5-AGAF-O2M-30	MAX WORKING PRESSURE OF 250 PSIG.

Active		Phone : 760.208.6532 Email : tkey@amronintl.com		* Admin Comments : 12 AUG, 2020 - LCDR HYATT ADDED. Updated on: 8/12/2020 11:58:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.2.10 CAT I Active	BREATHING AIR HOSE, COMMERCIAL	DIVE LAB INC. Name : Mike Ward Phone : 850-235-2715 Email : divelab@divelab.com	DL-8-1-5-150ft	150' HOOKA HOSE (ENCLOSED SPACE DIVING EMERGENCY GAS SUPPLY HOSE) MALE 3/8"-24 STRAIGHT THREAD TO 9/16"-18 UNF FEMALE WITH 5/16 I.D. AIR HOSE  HOSE LENGTHS 50' TO 150' AUTHORIZED  * Admin Comments : 3/25/22 - MLP ADDED TO ANU

## 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.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.3.1 CAT II Inactive	UMBILICAL POWERED UW LIGHT, COMMERCIAL	AQUA AIR INDUSTRIES INC.	AA1-MINI	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. Updated on: 10/10/2013 3:15:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.3.2 CAT II Inactive	UMBILICAL POWERED UW LIGHT, COMMERCIAL	KONGSBERG MARITIME (ORIGINALLY HYDRO-PRODUCTS)	HQ-250/800647-01250 WATTS/120 VOLTS AC	General Notes: (1) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.  * 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
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.3.3 CAT II Inactive	UMBILICAL POWERED UW LIGHT, COMMERCIAL	KONGSBERG MARITIME (ORIGINALLY HYDRO-PRODUCTS)	HQ-500/800647-02 500 WATTS/120 VOLTS AC	General Notes: (1) Apply.  * 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
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.3.4 CAT II Inactive	UMBILICAL POWERED UW LIGHT, COMMERCIAL	KONGSBERG MARITIME (ORIGINALLY HYDRO-PRODUCTS)	DIVER HELMET MOUNTED LIGHT SYSTEM (DHMLS) DWG # 998-2005 REV A	General Notes: (1) Apply. PRODUCT ID & DEPOT LEVEL REPAIRS: DHMLS O & M MANUAL PUB # 998-20005.  * 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

(1): Authorized IAW the U.S. NAVY DIVE MANUAL, SS521-AG-PRO-010.

(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 regulators associated temperature limitations.

(4): "Old style" wire mount rail accessory systems for the MK 20 FFM are not authorized with OTS visors due to possible over-torquing and cracking of the visor (see FAR 22-003). Interspiro GEN III accessory rails are interchangeable and are authorized for use on the OTS visor.

A tech note for identifying the "old" and "new" rail systems can be found on the 00C secure site at: 00C3 drop down -> Diving Technical Guidance and Publication tab -> UBA.

Authorized "New Style" MK20 rail system assembly:

OTS Model #: 920028-000 rail assembly

Interspiro Model # 30582-51 rail holder

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.4.1 CAT I Active	SURFACE SUPPLIED DIVING HELMET, NAVSEA CONTROLLED	KIRBY MORGAN DIVE SYSTEMS, INC. <b>Name</b> : Pete Ryan <b>Phone</b> : 805-928-7772 <b>Email</b> : pryan@kirbymorgan.com	KM 37 NS	General Notes: (1) Apply. Authorized IAW Underwater Breathing Apparatus (UBA) KM 37 NS Technical Manual T6560-AC-OMP-010.  Authorized replacement for MK21.  Authorized For Use With Quad Exhaust Kit, KMDSI PN 525-759.  Authorized for use with oral nasal mask, KMDSI PN 510-747, and lens retainer kit, KMDSI PN 525-776.  <b>* Admin Comments</b> : 07/03/07 - Added per CDR Gray direction. 04/29/10 - Quad Exhaust Kit, KMDSI PN 525-759 added. 9/17/10 - Oral Nasal Mask, KMDSI PN 510-747 & Lens Retainer kit, KMDSI PN 525-776 added.  Updated on: 3/21/2023 4:35:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.4.2 CAT I Inactive	SURFACE SUPPLIED DIVING HELMET, NAVSEA CONTROLLED	KIRBY MORGAN DIVE SYSTEMS, INC.	MK 21 MOD 1	General Notes: (1) Apply. NO LONGER AUTHORIZED FOR USE  AUTHORIZED IAW UNDERWATER BREATHING APPARATUS (UBA) MK 21 MOD 1 TECHNICAL MANUAL S6560-AG-OMP-010.  APPROVED FOR USE WITH QUAD EXHUAUST VALVE, KMDSI PN 525-759.  APPROVED FOR USE WITH THE ZINC ANODE KIT, KMDSI PN 525-376.  <b>* Admin Comments</b> : 1/14/11 - Zinc Anode Kit approved. 2/1/10 - Added to the AMU list. 1/25/09 - KMDSI Quad Exhaust Valve approved for use. 01/08/2019 - Removed from ANU, no longer authorized for use



				Updated on: 1/8/2019 11:07:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.4.3 CAT I Active	MANIFOLD BLOCK ASSEMBLY, COMMERCIAL	KIRBY MORGAN DIVE SYSTEMS, INC. <b>Name</b> : Pete Ryan <b>Phone</b> : 805-928-7772 <b>Email</b> : pryan@kirbymorgan.com	KM PN 300-150	Approved for use with MK 20 UBA for providing EGS capability within MK 20 operating limits.  <b>* Admin Comments</b> : 08/31/23 - Updated Designation and Model to KM (NDCM Dumke)  Updated on: 8/31/2023 7:29:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.4.4 CAT I Active	EGS HOSE QUICK DISCONNECT ASSEMBLY, STAINLESS STEEL, COMMERCIAL	DIVING EQUIPMENT COMPANY OF AMERICA (DECA)	DE 255-025 NS	Approved for use with UBA KM 37 NS and KM 97 for EGS whip. Approved for use with UBA MK 20 MOD 0 for EGS whip when used with DSI manifold block assembly.  For details of assembly refer to the UBA KM 37 NS and KM 97 technical manual.  Updated on: 3/21/2023 4:44:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.4.5 CAT I Active	EGS HOSE QUICK DISCONNECT ASSEMBLY, BRASS, COMMERCIAL	DIVING EQUIPMENT COMPANY OF AMERICA (DECA)	DE 255-020 NS	Approved for use with UBA KM 37 NS and KM 97 for EGS whip. Approved for use with UBA MK 20 MOD 0 for EGS whip when used with DSI manifold block assembly.  For details of assembly refer to the UBA KM 37 NS and KM 97 technical manual.  Updated on: 3/21/2023 4:45:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.4.7 CAT I Active	SURFACE SUPPLIED DIVING FULL FACE MASK, NAVSEA CONTROLLED	INTERSPIRO	MK 20 MOD 0/1	General Notes: <b>(1) (4)</b> 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.  IAW NAVSEA Itr 3150 Ser 3103 of 17 NOV 21, Naval Diving Salvage Training Center (NDSTC) is authorized to use the Underwater Breathing Apparatus (UBA) MK 20 Mod 0 in the Diving Simulation Facility (DSF) Wetpots by safety divers to a maximum depth of 190 feet of seawater (FSW). An over bottom pressure of between 90 and 150 pounds per square inch (PSI), with a desired over bottom pressure of 135 +/- 5 PSI, shall be maintained. DSF Wetpot water depth shall not exceed 15 feet. All MK 20 Mod 0 DSF dives shall be conducted IAW Center for Explosive Ordnance Disposal and Diving approved Trainee Guide Job Sheet.  <b>* Admin Comments</b> : 08/14/13 - Added to the AMU List for Surface Supplied. 11/17/21 - Added ANU note for NDSTC to 190fsw 03/24/22 Added information on authorized rail systems (updated NDCM Dumke)  Updated on: 3/21/2023 4:37:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

2.4.10 CAT II Active	SATURATION DIVING CONTAMINATED WATER SUIT	NAVAL SURFACE WARFARE CENTER PANAMA CITY	FULL COVERAGE SUIT (FCS)	<p>AAuthorized for use by trained saturation divers only with the following restrictions:</p> <ul style="list-style-type: none"> <li>- Shall not be used in contaminated water.</li> <li>- Shall not be taken inside the diving bell or dry deck chamber.</li> <li>- Familiarization training is required prior to use for saturation diving.</li> </ul> <p><b>* Admin Comments :</b> 9/25/2014 - Added to AMU List Updated on: 3/21/2023 4:39:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
2.4.11 CAT I Active	SURFACE SUPPLIED DIVING HELMET, COMMERCIAL	KIRBY MORGAN DIVE SYSTEMS, INC. <b>Name :</b> Pete Ryan <b>Phone :</b> 805-928-7772 <b>Email :</b> pryan@kirbymorgan.com	KM 97 (PN 500-701) WITH 455 REGULATOR (PN 505-455)	<p>General Notes: <b>(1) (2)</b> Apply. Authorized IAW Underwater Breathing Apparatus (UBA) KM 97 Technical Manual S6560-AL-TMM-010</p> <p>Authorized for surface supply air diving operations to 190 FSW only. Further testing and evaluation are required prior to authorization for mixed gas diving operations.</p> <p>The Poseidon Diving Systems Xstream DEEP MK3 (ANU Item # 1.3.13) is the only first stage scuba regulator authorized for use with the UBA KM 97 helmet EGS during surface supplied air diving operations in water temperatures at or below 37 degrees F. The UBA KM 97 helmet remains unauthorized for surface supplied mixed gas diving operations. (IAW AIG 22-014)</p> <p><b>* Admin Comments :</b> 3/18/2015 - Added to AMU List 8/14/2019 - NDCM Hopkins added cold water restriction note from AIG 19-09. 5/17/2022 - NDCM Dumke added the TECH MANUAL info. 12/16/2022 - NDCM Dumke updated operational parameters. 03/21/2023 - NDCM Dumke update verbiage. Updated on: 4/4/2023 7:34:00 PM</p>

### 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.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.1.1 CAT II Active	WET SUITS, COMMERCIAL OR STOCK	VARIOUS	VARIOUS	<p>General Notes: <b>(1)</b> Apply. Updated on: 10/10/2013 3:15:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.1.2 CAT II Active	WET SUIT ACCESSORIES, COMMERCIAL OR STOCK	VARIOUS	GLOVES, VESTS, HOODS, LINERS, POCKETS, BOOTIES & SUITABLE FOOTWEAR	<p>General Notes: <b>(1)</b> Apply. Updated on: 10/10/2013 3:15:00 PM</p>

### 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 KM-37 (NS) diving helmet 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 and KM-97 diving helmets with a watertight neck dam to support contaminated water diving operations PER SS521-AJ-PRO-101 REV 2, "Guidance for Diving in Contaminated Waters".

(3): Dry suits are authorized for use without a helmet or neck ring in accordance with SS521-AJ-PRO-010, "Guidance for Diving in Contaminated Waters".

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.2.1 CAT II Active	DRY SUIT	VARIOUS	VARIOUS	General Notes: (1) (2) (3) Apply. Commands are authorized to purchase commercially 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. <i>Updated on: 8/1/2023 5:39:00 PM</i>

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.2.6 CAT II Inactive	DRY SUIT, EOD CONTROLLED	EOD	MK 1 MOD 1	General Notes: (2) Apply. EOD CONTROLLED ITEM.  LOW-MAGNETIC SIGNATURE. MEETS MIL-M-19595.  NOT AUTHORIZED FOR CATEGORY I OR II CONTAMINATED WATER DIVING OPERATIONS.  <b>* Admin Comments :</b> 5/12/2015 - Updated to specify restriction to Category III and IV only.  05/14/2020 - Move to inactive, no longer on EOD TOA. LCDR Hyatt <i>Updated on: 5/14/2020 8:32:00 AM</i>

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.2.11 CAT II Active	DRY SUIT	VIKING a division of Ansell Protective Solutions: Amron is the United States distributor <b>Name :</b> Tyler Key <b>Phone :</b> 760-208-6500 <b>Email :</b> tkey@amronintl.com	HEAVY DUTY WITH UBA KM 37 NS AND KM 97 YOKE	General Notes: (1) (2) Apply.  <b>* Admin Comments :</b> 30 APR 20 POC Updated by NDCM HOPKINS  <i>Updated on: 4/30/2020 3:29:00 PM</i>

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.2.14 CAT II Inactive	DRY SUIT	VIKING a division of Ansell Protective Solutions: Amron is the United States distributor <b>Name :</b> Tyler Key <b>Phone :</b> 760-208-6500 <b>Email :</b> tkey@amronintl.com	VIKING COMBAT WITH LATEX NECKSEAL	General Notes: (1) Apply. Authorized for diving in Category III OR IV water as defined in SS521-AJ-PRO-010, guidance for diving in contaminated waters.  <b>* Admin Comments :</b> 10/06/09 - Added to the AMU list 5/13/2015 - Clarified in Notes authorization restricted to Cat II and IV water. 04/30/20 UPDATED POC BY NDCM HOPKINS 08/31/23 - Updated status to Inactive (NDCM Dumke) <i>Updated on: 8/31/2023 7:31:00 PM</i>

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.2.15 CAT II Active	DRY SUIT	VIKING a division of Ansell Protective Solutions: Amron is the United States distributor <b>Name</b> : Tyler Key <b>Phone</b> : 760-208-6500 <b>Email</b> : tkey@amronintl.com	VIKING HDS	General Notes: <b>(1) (2)</b> Apply.  <b>* Admin Comments</b> : 12/10/09 - Added to the AMU list 04/30/20 POC UPDATED AND 1500 WAS REMOVED FROM THE MODEL INFORMATION AS IT IS IN REFERENCE TO A MATERIAL WEIGHT THAT THEY NO LONGER USE. NDCM HOPKINS  Updated on: 4/30/2020 3:46:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.2.16 CAT II Active	DRY SUIT	AQUA LUNG <b>Name</b> : Landon VanValkenburg <b>Phone</b> : 808-489-6157 <b>Email</b> : lvanvalkenburg@aqualung.com	Hazmat KM-37 Drysuit Aqua-Lung USN Part #s: 611943-611955, 611991	General Notes: <b>(1) (2)</b> Apply. - Authorized for CAT 1 and 2 Contaminated Water Diving.  <b>* Admin Comments</b> : 4/14/10 - Added to the AMU List.  10/21/18 - Item changed and reevaluated by 00C3. - Authorized for CAT 1 and 2 Contaminated Water Diving. 09/18/23 - Updated POC (NDCM Dumke) Updated on: 9/18/2023 6:19:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.2.18 CAT II Active	DRY SUIT	DIVING UNLIMITED INTERNATIONAL INC. <b>Name</b> : Carol Heaton <b>Phone</b> : 619.237.1203 <b>Email</b> : cmheaton@DUI-Online.com	DUI CXO Model # 131100	General Notes: <b>(1) (2)</b> Apply. When diving in contaminated water, chemical-resistant steel toe boots shall be worn as an over-boot when the diver's working platform (e.g. the sea floor, propeller shaft, diver stage, sunken vessel, etc.) Could puncture the dry sock. When work is being conducted with no platform (i.e. free swimming in water column) fins are authorized.  <b>* Admin Comments</b> : 11/13/2013 - Added to AMU List Updated on: 8/1/2023 5:41:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.2.19 CAT II Active	DRY SUIT	ANSELL PROTECTIVE SOLUTIONS: AMRON IS THE UNITED STATES DISTRIBUTOR <b>Name</b> : Tyler Key <b>Phone</b> : 760-208-6500 <b>Email</b> : tkey@amronintl.com	VIKING HAZTECH	General Notes: <b>(1) (2)</b> Apply. Approved for all categories of contaminated water diving.  <b>* Admin Comments</b> : 5/20/2020 - Added to ANU. LCDR Hyatt Updated on: 8/1/2023 5:41:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.2.20 CAT II Active	CRYE Full Face Mask-Encapsulated Dive Suit (FFM-EDS) System	CRYE Precision <b>Name</b> : Mr. Todd Rood <b>Phone</b> : 757 325 6337 <b>Email</b> : Diving@chasedefense.com; Todd.Rood@Chasedefense.com	FFMEDS Mod 1, FFMEDS Mod 2	General Notes: <b>(1)</b> Apply. This ANU item is only authorized for SOF components divers with the MK25 Mod 2 UBA Panorama Nova Diver FFM with Crye-Draeger FFM assembly. ANU items 1.6.2 and 1.6.3. Authorized for diving in Category III or IV water as defined in SS521-AJ-PRO-010, guidance for diving in contaminated waters  <b>* Admin Comments</b> : 06 Aug, 2020 - LCDR Hyatt added to ANU Updated on: 8/1/2023 5:44:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

3.2.21 CAT II Active	CLX-450 MAGNETIC AND NON-MAGNETIC DRY SUIT (EOD)	Diving Unlimited International <b>Name</b> : Carol Heaton <b>Phone</b> : 619-236-1203 <b>Email</b> : cmheaton@dui-online.com	Magnetic 182101 (GSA 182100); Non-Magnetic 117031	General Notes: <b>(1) (3)</b> Apply. 117031 is an EOD controlled item. Low-magnetic signature. Meets MIL-M-19595.  <b>* Admin Comments</b> : 12 AUG 2020 - ADDED LCDR HYATT Updated on: 8/1/2023 5:45:00 PM
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### 3.3 DIVER HEATING EQUIPMENT

#### NO General Notes

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.1 CAT II Inactive	HOT WATER HEATER, COMMERCIAL	DIVING UNLIMITED INTERNATIONAL INC.	ECONO PN 31020-01	NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. Updated on: 8/19/2011 11:09:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.2 CAT II Inactive	HOT WATER HEATER, COMMERCIAL	DIVING UNLIMITED INTERNATIONAL INC.	GULF PN 31007-00	NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. Updated on: 8/19/2011 11:10:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.3 CAT II Active	HOT WATER HEATER	CUSTOM DESIGN & FABRICATION LTD <b>Name</b> : Arnold W. Monk <b>Phone</b> : 856-905-2987 <b>Email</b> : cdfhotwater@hotmail.com	MILITARY MONKEY HEATER PN PWH-100/3	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.  <b>* Admin Comments</b> : 1/6/06 - Reactivated based off tech documents received from manufacturer. 04/04/11 - Formerly MAR-VEL (acquired by ADS). LCDR Hyatt  04/09/2020 - Updated ANU with proper Manufacturer information Updated on: 4/9/2020 2:24:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.3.1 CAT II Inactive	HOT WATER HEATER, COMMERCIAL	ALPHA RENTALS (FORMERLY HERMAN RENTALS INC.)	PN DHH-690-A PN DHH-690-NM	FUEL FIRED DIVERS HOT WATER HEATER  DHH 690-A IS SUPPLIED WITH A GFI SUITABLE FOR USE ON COMMERCIAL UTILITY POWER ONLY. THE INSTALLED GFI MUST BE REPLACED WITH AN APPROVED 15 AMP GFI PRIOR TO USE. DO NOT PLACE GFI'S IN PARALLEL. DHB 690-R AUTHORIZED FOR CONTINUED USE.  <b>* Admin Comments</b> : 9/22/2014 - Updated for change in manufacturer and added PN DHH-690-NM. 08/31/2023 - Updated by changing status to Inactive (NDCM Dumke) Updated on: 8/31/2023 7:23:00 PM

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.3.2 CAT II Inactive	HOT WATER HEATER, COMMERCIAL	DIVING UNLIMITED INTERNATIONAL INC.	K15B-P (ELECTRIC)	NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.  MUST BE USED WITH AN APPROVED GFI. APPROVED FOR SATURATION DIVING. <i>Updated on: 8/19/2011 11:24:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.4 CAT I Active	INSPIRED GAS HEATER SPLITTER BLOCK, COMMERCIAL	VARIOUS	NEDU DWG NO. 88-46	USED TO SPLIT HOT BETWEEN WATER SUIT AND DSI HOT WATER SHROUD. <i>Updated on: 2/2/2010 1:23:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.4.1 CAT II Active	SCALD SAFE VALVE, COMMERCIAL	ADS INC.  <i>Name : Dirk Palmer Phone : 850-902-1930 Email : dpalmer@adsinc.com</i>	PN SS-72253.	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.  <i>* Admin Comments : 04/04/11 - Formerly MAR-VEL (acquired by ADS). 4/8/20 - POC Updated</i> <i>Updated on: 10/25/2022 4:03:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.5 CAT I Inactive	INSPIRED GAS HEATER, COMMERCIAL	KINERGETICS	PN 3375-3	NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.  NOT FOR USE WITH THE MK-21. <i>Updated on: 8/19/2011 11:19:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.8 CAT II Inactive	HOT WATER HOSE FITTINGS, COMMERCIAL	DIVING UNLIMITED INTERNATIONAL INC.	VARIOUS	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. <i>Updated on: 8/19/2011 11:21:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.9 CAT II Inactive	HOT WATER HOSE, COMMERCIAL	DIVING UNLIMITED INTERNATIONAL INC.	PN 31027-000	NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. <i>Updated on: 8/19/2011 11:22:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.10 CAT II Active	HOT WATER HOSE	GATES CORPORATION	ECONOFLEX	N/A <i>Updated on: 6/27/2013 8:00:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

3.3.12 CAT II Active	HOT WATER SUIT ACCESSORIES	VARIOUS	VARIOUS LINERS, BOOTS, & HOODS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE HOT WATER SUIT LINERS, BOOTS & HOODS FOR USE IN DIVING APPLICATIONS. <i>Updated on: 5/3/2022 3:08:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.13 CAT II Active	HOT WATER SUIT	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE HOT WATER SUITS FOR DIVING APPLICATIONS. FOR USE IN SATURATION DIVING SYSTEMS, CONTACT 00C3 FOR ADDITIONAL TESTING REQUIREMENTS PRIOR TO USE OF NEW SUITS. <i>Updated on: 7/27/2022 7:05:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.15 CAT II Active	FREE-SWIMMING DIVER HEATING SYSTEM (FDHS)	Rini Technologies, Inc. 582 South Econ Circle, Oviedo, FL, 32765 <b>Name</b> : Dan Rini <b>Phone</b> : 407-359-7138 ext. 103 <b>Email</b> : dan@rinitech.com	PN 101497 (GEN 2.1) PN 102348 (NSW use only)	THIS IS A NAVSEA CONTROLLED ITEM. CONTACT SEA 00C3 FOR INFORMATION.  AUTHORIZED FOR NO-DECOMPRESSION DIVING ONLY PER NEDU TL 17-13.  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 INSATLL 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.  <b>* Admin Comments</b> : 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. 3/20/18 - Added NSW unique PN 102348 <i>Updated on: 8/24/2022 5:47:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.17 CAT II Active	FREE-SWIMMING DIVER COOLING SYSTEM (FDCS)	Rini Technologies, Inc. 582 South Econ Circle, Oviedo, FL, 32765 <b>Name</b> : Dan Rini <b>Phone</b> : 407-359-7138 ext. 103 <b>Email</b> : dan@rinitech.com	PN 101757 (GEN 1.1)	THIS IS A NAVSEA CONTROLLED ITEM. CONTACT SEA 00C3 FOR INFORMATION.  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.  <b>* Admin Comments</b> : 5/21/18 - Added to ANU list - MLP
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.3.18 CAT II Active	PWHCDF 1M	CUSTOM DESIGN & FABRICATION LTD <b>Name</b> : Arnold W. Monk <b>Phone</b> : 856-905-2987 <b>Email</b> : cdfhotwater@hotmail.com	CDF TWIN 500 (CDF 1M)	220 VAC WITH 20 AMP BREAKER REQUIRED AUTHORIZED TO 300 FSW PROPER TRAINING MUST BE CONDUCTED BEFORE USE TO ENSURE THE SAFETY OF DIVERS AND TOPSIDE PERSONNEL  <b>* Admin Comments</b> : 08 Jun 2020 - LCDR Hyatt added

### 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.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.4.1 CAT II Active	GENERAL ACCESSORY ITEMS	VARIOUS	DIVER PREFERENCE	General Notes: (1) (2) Apply. TO INCLUDE WEIGHT BELTS, UNDERWATER COMPASSES, SWIM FINs, DIVE KNIVES, SCUBA FACE MASK, SNORKELS, AND DIVE LIGHTS.  <b>* Admin Comments</b> : 8/22/13 - Updated to include dive lights Updated on: 10/10/2013 3:18:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.4.2 CAT II Active	WATCHES, UNDERWATER AND TOPSIDE USE	VARIOUS	DIVER PREFERENCE	General Notes: (1) (2) Apply. FOR UNDERWATER AND TOPSIDE USE.  CONVENTIONAL AND DIGITAL UNDERWATER AND STOP TYPE WATCHES SHALL HAVE ELAPSED TIME FEATURE. Updated on: 10/10/2013 3:18:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.4.3 CAT II Active	DEPTH GAUGE	VARIOUS	DIVER PREFERENCE	General Notes: (1) (2) Apply. Updated on: 8/14/2012 3:20:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.4.4 CAT II Active	GAUGE, SUBMERSIBLE SCUBA TANK	VARIOUS	VARIOUS	General Notes: (1) (2) Apply. High pressure submersible pressure gauge hoses shall conform to EN250 standards and manufactured using a kink-resistant outer cover material such as, but not limited to, rubber, synthetic rubber, or nylon braid. Updated on: 4/4/2024 3:58:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.4.5 CAT II	GAUGE, TOPSIDE SCUBA TANK	VARIOUS	VARIOUS	General Notes: (1) (2) Apply. GAUGES AND MANIFOLD ASSEMBLY SHALL MEET OR EXCEED WORKING PRESSURE



Active				OF THE TANKS TO BE MEASURED. <i>Updated on: 3/30/2011 12:05:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.4.6 CAT II Active	GAUGE, TOPSIDE FILLER AND GAUGE	VARIOUS	VARIOUS	General Notes: <b>(1) (2)</b> Apply. GAUGES AND MANIFOLD ASSEMBLY SHALL MEET OR EXCEED WORKING PRESSURE OF CHARGING SYSTEM ATTACHED TO. <i>Updated on: 3/30/2011 12:05:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.4.7 CAT II Inactive	KNIFE, NON-MAG	EOD	NON-MAGNETIC EOD 700-1765159	FOR NON-MAGNETIC AND NON-SPARKING APPLICATIONS. <i>Updated on: 4/25/2023 1:01:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.4.8 CAT II Inactive	MASK, NON-MAG	AQUA LUNG <b>Name :</b> Glen Rubin <b>Phone :</b> 850.249.7417	NON-MAGNETIC PN 5029-50	EOD NON-MAGNETIC SCUBA FACE MASK, AUTHORIZED FOR EOD AND SPECWAR DIVING REQUIRING NON-MAG SCUBA ACCESSORIES.  <b>* Admin Comments :</b> 6/16/09 - Manufacturer POC updated. <i>Updated on: 4/25/2023 1:01:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.4.9 CAT II Active	WEIGHT VEST, EOD CONTROLLED	EOD	MK 1 EOD DRY SUIT WEIGHT VEST	NAVSEA PEO MIW/PMS-EOD CONTROLLED ITEM. <i>Updated on: 9/24/2010 8:45:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.4.10 CAT I Inactive	TIMER/DEPTH GAUGE, COMMERCIAL	BEUCHAT	DIGITAL MCD-1 NON-MAGNETIC	NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE WITH THE MK 16 UBA. <i>Updated on: 8/19/2011 11:04:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.4.11 CAT II Inactive	COMBATANT DIVER DISPLAY	OCEANIC	CDDM	General Notes: <b>(2)</b> Apply. AUTHORIZED FOR USE WITH SCUBA AND MK25 MOD 2 (USMC ONLY).  THE CDDM IS AN ALTERNATE DISPLAY, IT DOES NOT REPLACE THE PRIMARY PRESSURE GAUGE (MK25/SCUBA) OF THE J VALVE.  <b>* Admin Comments :</b> 08/31/23 - Updated status to Inactive (NDCM Dumke) <i>Updated on: 8/31/2023 7:32:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
3.4.13 CAT II Active	ACTIVARMR COOLING VEST	ANSELL PROTECTIVE SOLUTIONS <b>Name :</b> David Clark <b>Phone :</b> 603-738-2955 <b>Email :</b> David.J.Clark@saint-gobain.com	97-609 STANDARD; 97-610 FIRE RETARDANT	AMRON IS AN AUTHORIZED DISTRIBUTOR  STANDARD AND FIRE RETARDANT VESTS ARE BOTH AUTHORIZED  AUTHORIZED FOR DIVERS AND TOPSIDE PERSONNEL FOR COOLING IN HOT ENVIRONMENTS. NOT APPROVED FOR HYPERBARIC USE.  <b>* Admin Comments :</b> 05/13/2020 - Added to ANU LCDR Hyatt 06/29/2020 - FR Vests added. LCDR Hyatt <i>Updated on: 7/14/2020 6:58:00 AM</i>

## 4.1 RECALL/ONE-WAY COMMUNICATIONS

### NO General Notes

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.1.1 CAT II Inactive	DIVER RECALL SYSTEM, COMMERCIAL	BENTOS, INC.	MODEL 4501B	WATERBORNE DIVERS SHOULD REMAIN SIX FEET FROM TRANSDUCER. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. <i>Updated on: 3/18/2004 12:20:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.1.2 CAT II Active	BROADCASTER, COMMERCIAL	IMENCO NAUTRONIX (FORMERLY NAUTRONIX HELLE AND HELLE ENGINEERING INC. PRIOR TO THAT)	MODEL 3510	N/A  <i>* Admin Comments : 6/17/10 - Helle Engineering Inc. no longer exists, but aquired into Nautronix (Marine Technology Solutions). 6/10/2020 - Nautronix acquired by IMENCO. Updated on: 6/10/2020 10:49:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.1.3 CAT II Active	DIVER AUDIO RECALL/ HYDROPHONE SYSTEM, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <i>Name : Kurtis Schmid Phone : 800.550.1984 ex 109 Email : kschmid@oceantechnologysystems.com</i>	DRS-100 DRS-100B	MODEL DRS-100 NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE. MODEL DRS-100B REPLACES MODEL DRS-100.  <i>* Admin Comments : 5/11/10 - Status changed back to Active since DRS-100B still manufactured (confirmed bt 5/3/2010 Site Visit to OTS). 4/3/20 - POC Updated. NDCM Hopkins Updated on: 4/3/2020 2:50:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.1.4 CAT II Active	ACOUSTIC DIVER SIGNALING DEVICE, COMMERCIAL	OCEAN ENGINEERING ENTERPRISES (OCEANEARs)	DSD-6E	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 <i>Updated on: 6/10/2020 10:40:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.1.5 CAT I Inactive	AUDIBLE RECALL DEVICE, EXPLOSIVE, COMMERCIAL	PROPELLEX CORPORATION	MK 137 MOD 0	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 PRECUATIONS.  <i>* Admin Comments : 4/21/11 - Moved from Section 4.2.</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.1.6 CAT II Active	ACOUSTIC DIVER RECALL SYSTEM	OCEAN ENGINEERING ENTERPRISES (OCEANEARs)	DRS-8-003/SA430 PATRIOT	DO NOT OPERATE THE DIVER RECALL SYSTEM IN ANY OF THE SIREN MODES WHEN DIVERS ARE WITHIN 25 FEET OF THE UNDERWATER SPEAKER AND UNDERWATER CABLE

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.1.7 CAT II Active	PORTABLE DIVER RECALL SYSTEM	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800-550-1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	PDR-100	* <b>Admin Comments :</b> 8/18/17 - Added to ANU 4/3/20 - POC Updated. NDCM Hopkins  Updated on: 4/3/2020 2:53:00 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.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.1 CAT II Inactive	RECALL DEVICE, COMMERCIAL	RJE INTERNATIONAL (FORMERLY EFCOM)	SC-125M/SC-120M/SC 100M SYSTEM	NO LONGER AUTHORIZED FOR PROCUREMENT, BUT STILL AUTHORIZED FOR CONTINUED USE.  COMPATIBLE WITH THE DIVATOR MKII FFM. Updated on: 4/21/2011 11:49:00 AM
4.2.2 CAT II Active	RECALL DEVICE, COMMERCIAL	ORCATRON COMMUNICATIONS, LTD.	SCUBAPHONE ORCA RT-2000S SYSTEM	COMPATIBLE WITH THE DIVATOR MKII FFM. Updated on: 6/10/2020 1:41:00 PM
4.2.3 CAT II Inactive	RECALL DEVICE, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Ryan Lummus/John Hott <b>Phone :</b> 800.550.1984	AQUACOM SSB-1000S	NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. WILL CONTINUE TO BE SUPPORTED BY THE MANUFACTURER.  BASE STATION, SINGLE SIDE BAND ACOUSTIC TRANSCEIVER. REPLACED BY STX 101M (CAT III 4.3.4.3) Updated on: 9/24/2010 10:31:00 AM
4.2.4 CAT II Active	RECALL DEVICE, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800.550.1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	MK-2 BUDDY PHONE	COMPATIBLE WITH THE DIVATOR MKII FFM AND MK-20 IN SCUBA MODE. INCLUDES PUSH TO TALK ASSEMBLY ME-1ER  * <b>Admin Comments :</b> 4/3/20 - POC Updated. NDCM Hopkins Updated on: 4/3/2020 2:35:00 PM
4.2.4.1 CAT II Active	DIVER TRANSCEIVER OR PORTABLE SURFACE STATION, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800.550.1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	AQUACOM SSB-2010	COMPATIBLE WITH THE DIVATOR MK II FFM, MK 20, AND EXO-BR MS IN SCUBA MODE. COMPATIBLE WITH MK 25 MOD 0/2 UBA (P/N 900282-000) SSB-2001NO  * <b>Admin Comments :</b> 4/3/20 - POC Updated. NDCM Hopkins Updated on: 4/3/2020 2:36:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

4.2.4.2 CAT II Inactive	SURFACE STATION, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Ryan Lummus/John Hott <b>Phone :</b> 800.550.1984	STX-100	NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. WILL CONTINUE TO BE SUPPORTED BY THE MANUFACTURER.  BASE STATION FOR SSB-2001. REPLACED BY STX-101M. <i>Updated on: 9/24/2010 10:32:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.4.3 CAT II Active	SURFACE STATION, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800.550.1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	STX-101M	UPGRADED BASE STATION FOR USE WITH AQUACOM SSB- 1001B, SSB-2001, OR SSB-2010  <b>* Admin Comments :</b> 4/3/20 - POC Updated. NDCM Hopkins <i>Updated on: 4/3/2020 2:39:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.5 CAT II Inactive	SURFACE STATION, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Ryan Lummus/John Hott <b>Phone :</b> 800.550.1984	SSB 1000/1001	NO LONGER PRODUCED BUT STILL AUTHORIZED FOR USE. REPLACED BY SSB-1001B.  SSB 1000 IS SURFACE STATION, SSB 1001 IS DIVER TRANSCIVER OR PORTABLE SURFACE STATION. <i>Updated on: 9/24/2010 10:33:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.6 CAT II Active	SURFACE ACCESSORY KIT, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800.550.1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	AQUACOM CDK-6	WALK-ABOUT HEAD PHONE ACCESSORY, CONVERTS SSB- 1000D/SSB-1001B AND SSB-1000 AND 2010 COMBINATION TO WALK ABOUT SUPERVISOR HEAD PHONE  <b>* Admin Comments :</b> 4/3/20 - POC Updated. NDCM Hopkins <i>Updated on: 4/3/2020 2:40:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.7 CAT II Active	RECALL DEVICE, COMMERCIAL	CROUZET (FORMERLY SAFARE- CROUZET)	ERUS-2B5 & ERUS-2A5	ERUS-2B5 IS SURFACE UNIT, ERUS-2A5 IS DIVER WORN UNDERWATER UNIT. <i>Updated on: 6/10/2020 1:42:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.8 CAT II Inactive	RECALL DEVICE, COMMERCIAL	SUBCOM	MODEL 230D/S	NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE. <i>Updated on: 2/2/2010 2:22:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.9 CAT II Active	RECALL DEVICE, COMMERCIAL	DIVECOMM, INC.	DIVECOM MUC-100 & MUC-2000	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. DIVECOMM UNITS NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE.  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.  <b>* Admin Comments :</b> 6/10/2020 - Confirmed DIVECOMM no

				longer an operating business. <i>Updated on: 6/10/2020 12:04:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.10 CAT II Inactive	RECALL DEVICE, COMMERCIAL	RJE INTERNATIONAL (FORMERLY EFCOM)	SCM-100M/120M/125M	NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE.  PREVIOUSLY BUILT BY EFCOM. SCM-100M IS DIVER MODULE, SCM-120M IS SURFACE ACCURACY KIT, SCM-125M IS SURFACE MODULE. <i>Updated on: 9/24/2010 10:35:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.11 CAT II Active	RECALL DEVICE, COMMERCIAL	ORCATRON COMMUNICATIONS, LTD.	MODEL 2000-SPPAGM SCUBA PHONE	2000-SPPAGM IS 2 DIVER, 1 SURFACE UNIT SYSTEM. 2000S IS SURFACE UNIT, 2000D IS DIVER UNIT. NATO APPROVED, COMPATIBLE WITH AGA FFM. <i>Updated on: 2/3/2010 11:35:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.13 CAT II Active	RECALL DEVICE, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800.550.1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	AQUACOM SSB 1000D OR SSB-1001/SSB-1001B	SSB 1000D IS OLD DESIGNATION OF SSB-1001.5 WATT DIVER TRANCEIVER INCLUDING VOICE MENU.  COMPATIBLE WITH THE DIVATOR MKII FFM AND EXO-26BR IN SCUBA MODE.  <b>* Admin Comments :</b> 4/3/20 - POC Updated. NDCM Hopkins <i>Updated on: 4/3/2020 2:41:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.14 CAT II Inactive	RECALL DEVICE, COMMERCIAL	SUBCOM	MODEL 230D	NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE. <i>Updated on: 2/3/2010 11:33:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.15 CAT II Active	THROUGH WATER COMMUNICATIONS	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800-550-1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	SW-1000-SC MAG-1001S	SW-1000-SC IS DIVER WORN UNIT. MAG-1001S IS THE SURFACE UNIT.  <b>* Admin Comments :</b> 09/04/03 - Added to the AMU List. 04/03/20 - POC Updated. NDCM Hopkins <i>Updated on: 4/3/2020 2:44:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.16 CAT II Active	THROUGH WATER COMMUNICATIONS	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800-550-1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	MAG-1003D (PN 900360) MAG 1003PS (PN 900371)	MAG-1003D IS THE DIVER WORN UNIT. MAG-1003PS IS THE SURFACE UNIT.  <b>* Admin Comments :</b> 7/27/12 - Added to the AMU List. 4/3/20 - POC Updated. NDCM Hopkins <i>Updated on: 4/3/2020 2:46:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.2.17 CAT II Active	HYBRID COMMUNICATIONS, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800-550-1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	MAG-1004HS (DIVER UNIT) MAG-1004PS (SURFACE UNIT)	HYBRID SYSTEM CAPABLE OF BOTH THROUGH WATER AND HARD WIRE COMMUNICATIONS  <b>* Admin Comments :</b> 4/3/20 - POC Updated. NDCM Hopkins <i>Updated on: 4/3/2020 2:48:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

4.2.18 CAT II Active	THROUGH WATER COMMUNICATIONS	Oceans Technology Systems (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 424-333-2310 <b>Email :</b> kschmid@oceantechnologysystems.com	900473-000 MILCOM 6000	<p>TRANCEIVER AUTHORIZED FOR SHORE-BASED AND SMALL BOAT USE ONLY.</p> <p>RECALL received from OTS on 29 July 2022. Contact NAVSEA prior to use. AIG 22-009 pending.</p> <p><b>* Admin Comments :</b></p> <p>07/29/2022 - Discontinue Use due to Recall (NDCM Dumke) Updated on: 8/2/2022 2:05:00 PM</p>
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### 4.3 HARDWARE COMMUNICATIONS

#### General Notes

(1): This item does not include an internal Ground Fault Interrupter (GFI). This device must be used with a GFI protected outlet or an external GFI device.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.1 CAT II Inactive	HYDROCOM UW COMMUNICATION SYSTEM, COMMERCIAL	ALLIANT TECH SYSTEMS, INC.	HCOM 1001000	<p>General Notes: (1) Apply. NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.</p> <p>Updated on: 5/21/2020 3:48:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.2 CAT II Active	DIVER COMMUNICATION SYSTEM, COMMERCIAL	AMRON INTERNATIONAL & DIVING SUPPLY INC. <b>Name :</b> Tyler Key <b>Phone :</b> 760-208-6500 <b>Email :</b> tkey@amronintl.com	<p>AMCOM III</p> <p>2830A-11 (Replaced PN 2830A-01)</p> <p>2830A-12 (Replaced PN 2830A-02)</p> <p>2830A-13 (Replaced PN 2830A-03)</p> <p>2830A-15 (Replaced PN 2830A-05)</p> <p>2830A-16 (Replaced PN 2830A-06)</p> <p>2830A-17 (Replaced PN 2830A-07)</p>	<p>General Notes: (1) Apply. 2830A-XX IS A 3-DIVER COMMUNICATIONS SYSTEM. MODEL NUMBERS LISTED ARE AUTHORIZED FOR USE.</p> <p>Below models are 3-diver communications systems. Model numbers listed are authorized for use.</p> <p>2830A-11 (Replaced PN 2830A-01) - 3 Diver Rechargeable Portable Communicator</p> <p>2830A-12 (Replaced PN 2830A-02) - 3 Diver Portable DSP3 Helium Speech Unscrambler</p> <p>2830A-13 (Replaced PN 2830A-03) - 3 Diver Portable with 28B Wireless Tender Kit</p> <p>2830A-15 (Replaced PN 2830A-05) - 3 Diver Deluxe Portable Communicator with MS Connections</p> <p>2830A-16 (Replaced PN 2830A-06) - 3 Diver Portable with 28B Wireless Tender Kit with MS Connectors</p> <p>2830A-17 (Replaced PN 2830A-07) - 3 Diver Portable DSP3 Helium Speech Unscrambler, MS Connectors</p> <p>HELMETS MUST BE OUTFITTED WITH AMRON EARPHONES/MICS. NOT COMPATIBLE WITH HYDROCOM OR HELLE EARPHONES/MICS.</p> <p>PN 2830A/24 SERIES IS NO LONGER MANUFACTURED BUT IS STILL AUTHORIZED FOR CONTINUED USE.</p> <p>PNs: 2830A-01; 2830A-02; 2830A-03; 2830A-05;2830A-06; 2830A-07 are no longer available but remain authorized for continued use.</p> <p><b>* Admin Comments :</b> 8/18/11 - PN change 2830/24M/28FDH to 2830A/24. 7/15/2014 - Changed Manufacturer Info. 05/31/2018 - MWH - Updated Model number changes and</p>

				configurations 07/05/2022 - PN change to COMM boxes Updated on: 9/20/2023 2:11:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.3 CAT II Active	HELIUM SPEECH UNSCRAMBLER, COMMERCIAL	IMENCO NAUTRONIX (FORMERLY NAUTRONIX HELLE AND HELLE ENGINEERING INC. PRIOR TO THAT)	3315S	General Notes: (1) Apply. N/A  * <b>Admin Comments</b> : 6/17/10 - Helle Engineering Inc. no longer exists, but acquired by Nautronix (Marine Technology Solutions). 6/10/2020 - Nautronix acquired by IMENCO. Updated on: 6/10/2020 10:50:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.3.1 CAT II Inactive	AMCOM II HELIUM SPEECH UNSCRAMBLER, COMMERCIAL	AMRON INTERNATIONAL & DIVING SUPPLY INC.	AMRON PN 2825A-10 replaces PN 2825/24/26-MS	General Notes: (1) Apply. AMRON PN 2825A-10 TWO-DIVER DELUXE PORTABLE COMMUNICATOR WITH DSP HELIUM SPEECH UNSCRAMBLER AND MS CONNECTIONS  No longer manufactured or supported by OEM. Replaced by AMCOM III 2830-012 (see 4.3.2)  * <b>Admin Comments</b> : 7/15/2014 - Updated Manufacturer Info. 05/31/2018 MWH - Updated with replacement PNs and corrected errors from notes 07/06/2022 - Moved to inactive status. NDCM Dumke Updated on: 8/8/2022 12:37:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.4 CAT II Active	HELIUM SPEECH UNSCRAMBLER, COMMERCIAL	IMENCO NAUTRONIX (FORMERLY NAUTRONIX HELLE AND HELLE ENGINEERING INC. PRIOR TO THAT)	-3315	General Notes: (1) Apply. N/A  * <b>Admin Comments</b> : 6/17/10 - Helle Engineering Inc. no longer exists, but acquired by Nautronix (Marine Technology Solutions). 6/10/2020 - Nautronix acquired by IMENCO. Updated on: 6/10/2020 10:51:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.5 CAT II Active	COMMUNICATION SET, COMMERCIAL	KIRBY MORGAN DIVE SYSTEMS, INC.	PN 515-030	PN 515-030 INCLUDES EARPHONES (RIGHT PN 515-005, LEFT PN 515-006) & MICROPHONE (PN 515-009).  COMPATIBLE WITH AMCOM III PN 2830A/24. Updated on: 6/9/2020 10:30:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

4.3.5.1 CAT II Active	COMMUNICATION SET, COMMERCIAL	AMRON INTERNATIONAL & DIVING SUPPLY INC. <b>Name</b> : Tyler Key <b>Phone</b> : 760-208-6500 <b>Email</b> : tkey@amronintl.com	PN: 1500-010, 1500-255 (Penetrator kits without connector), 1500-255M (Male penetrator kits with 4 pin Marsh Marine Male Connector)"	PN: 1501-010 (Kit), 1501-011N (Microphone), 1501-014N (Earphone set with EO connector), and 1501-255 MN (Penetrator kit with EO connectors) are obsolete and no longer supported by OEM. Updated PNs are as follows: PN: KM 515- 033(full kit); 1500-255 (penetrator without connector); PN: 1500- 255M (Male penetrator kits with 4 pin Marsh Marine Male Connector). KM 515-033 INCLUDES EARPHONES (Right Headphone PN 1501-012 (Right Headphone), PN 1501-013 (Left Headphone) and 515-029 (microphone)). COMPATIBLE WITH ALL AMCOMS.  <b>* Admin Comments</b> : 8/18/11 - Separated from 3.5.5 7/15/2014 - Updated manufacturer Info. 7/19/2022 - Updated part numbers NDCM Dumke Updated on: 7/19/2022 9:11:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.6 CAT II Inactive	DYNAMIC HEAD PHONES, COMMERCIAL	RJE INTERNATIONAL (FORMERLY EFCOM)	DAR 1000 MOD 2	NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.  FOR RECOMPRESSION CHAMBER USE ONLY. Updated on: 9/24/2010 10:03:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.7 CAT II Inactive	MICROPHONE SET, COMMERCIAL	NAUTRONIX HELLE (FORMERLY HELLE ENGINEERING INC.)	PN 3455, 10780, 10782	NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.  <b>* Admin Comments</b> : 6/17/10 - Helle Engineering Inc. no longer exists, but aquired into Nautronix (Marine Technology Solutions). Updated on: 9/24/2010 10:02:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.8 CAT II Active	COMMUNICATION SET, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name</b> : Kurtis Schmid <b>Phone</b> : 800-550-1984 ex 109 <b>Email</b> : kschmid@oceantechnologysystems.com	BP-3MN, PN 900226-000 (SET) *BP-44B, PN 900080-001 (EARPHONE) *2PME, PN 910032-000 (MIC)	PRE-AMPLIFIED COMMUNICATION ASSEMBLY AUTHORIZED FOR USE WITH THE MK 20 MOD 0/1.  BP-44B HAS NEXUS CONNECTOR. 2PME HAS FEMALE AMP CONNECTOR.  <b>* Admin Comments</b> : 09/05/12 - Removed 1PME preamplified mic (with E/O conenctor) since it is no longer manufactured or in line with the MK 20 tech manual.  04/03/20 - POC Updated Updated on: 6/10/2020 10:57:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.9 CAT II Active	MICROPHONE, MILITARY	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name</b> : Kurtis Schmid <b>Phone</b> : 800.550.1984 ex 109 <b>Email</b> : kschmid@oceantechnologysystems.com	SDV 16	FOR USE WITH CLOSED CIRCUIT REBREATHAR.  <b>* Admin Comments</b> : 04/03/20 - POC Updated Updated on: 6/10/2020 10:58:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.11 CAT II Active	MICROPHONE ELEMENT, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name</b> : Kurtis Schmid <b>Phone</b> : 800.550.1984 ex 109	M 101/A1C	COMPATIBLE WITH HYDROCOM SYSTEM ONLY.  <b>* Admin Comments</b> : 4/3/20 - POC Updated. NDCM Hopkins Updated on: 6/10/2020 10:58:00 AM



		<b>Email :</b> kschmid@oceantechnologysystems.com		
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.12 CAT II Active	STRENGTH/ COMMUNICATIONS CABLE, NAVSEA CONTROLLED	STRENGTH/ COMMUNICATIONS CABLE/NEDU CODE 03D	NAVSEA DWGS 592-5939961, 592-5939962, AND 592-5939963	REFER to NAVSEA DWGs 592-5939961, 592-5939962, AND 592-5939963  Updated on: 9/24/2010 10:05:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.13 CAT II Active	MICROPHONE, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800.550.1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	ME-16R	"HOT-MIC" NON-PREAMPLIFIED MICROPHONE ELEMENT USED IN VARIOUS COMMUNICATION ASSEMBLES INCLUDING EMA-2.  USE WITH ME16-SL AND MANUFACTURER'S ASSOCIATED INTERCONNECTING COMPONENTS FOR KM-37 AND KM-97  USE OF OTS INSULATING BOOT (506281-000), CUT-TO-SIZE, TO COVER MICROPHONE TERMINALS OR LATEX FINGER COT TO COVER THE ENTIRE MICROPHONE AND TERMINALS IS MANDATORY FOR KM-37 AND KM-97  <b>* Admin Comments :</b> 4/3/20 - POC Updated. NDCM Hopkins  5/21/20 - Update notes use with ME16-SL and insulation boot for KM 37/97  Updated on: 6/10/2020 10:59:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.14 CAT II Active	EARPHONE & MICROPHONE ASSEMBLY, COMMERCIAL	OCEAN TECHNOLOGY STSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800.550.1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	EMA-2	EARPHONE/MIC ASSEMBLY FOR USE WITH SSB-2010 AND 1001B, STANDARD COMS WITH OTS HIGH USE IN WATER CONNECTOR.  <b>* Admin Comments :</b> 4/3/20 - POC Updated. NDCM Hopkins Updated on: 6/10/2020 11:00:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.15 CAT II Inactive	THREE DIVER INTERCOM, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800.550.1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	AQUACOM MK IV	General Notes: (1) Apply. FEATURES CHANGEABLE SUB- PANEL FOR THE UMBILICALS, ALLOWING COMMANDS TO SWITCH OUT BETWEEN BANANA & MS (OR ANY TYPE)CONNECTORS.  NO LONGER PRODUCED BY OTS. OTS WILL CONTINUE TO SUPPORT SERVICE AND PARTS FOR THIS MODEL. REPLACED BY ANU ITEM 4.3.20  <b>* Admin Comments :</b> 9/19/11 - Connector note added.  4/3/20 - POC Updated  4/21/20 - Moved to inactive list. LCDR Hyatt Updated on: 5/21/2020 3:51:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.16 CAT II Active	EARPHONE & MICROPHONE ASSEMBLY, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800.550.1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	KM EAR/MICROPHONES (SUPER MIC) PN 900397-001	FOR USE KM-37 & KM-97  <b>* Admin Comments :</b> 07/27/09 - Added to the AMU list.  04/04/20 - Manufacturer POC updated. NDCM Hopkins

				05/21/20 - Added PN LCDR Hyatt Updated on: 6/10/2020 11:00:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.17 CAT II Active	STANDARD 4 WIRE COMM ROPE	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> KURTIS SCHMID <b>Phone :</b> (800) 550-1984 ext 109 <b>Email :</b> kschmid@oceantechnologysystems.com	MK 7, PN 9000104-000 YAD-S SPLITTER, PN 910034-000 CR-4 COMROPE Blue BANANA TO HI-USE 910216 Yellow BANANA TO HI-USE 910217 Blue AMP to HI-Use PN 910218 Yellow AMP to Hi-Use PN 910219	Diver to diver & diver to topside hardwire 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.  <b>* Admin Comments :</b> 08/23/12 - Added to the AMU List. 03/27/12 - COMROPE approved as a strength member.  04/03/20 - Item/Stock # changed from "DIVER INTERCOM" to actual OTS product name of "STAND 4 WIRE COMM ROPE" NDCM HOPKINS 01/19/23 - Update PN and Noun names NDCM Dumke -1/31/23 - Update PNs NDCM Dumke Updated on: 1/31/2023 2:44:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.18 CAT II Active	COMMUNICATION SET	AMRON INTERNATIONAL & DIVING SUPPLY INC.	PN 1406A (SET) * PN 1406-2 (EARPHONE) * PN 1408 (DYNAMIC MICROPHONE)	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 & DRY AT ALL TIMES. WATERPROOF COVER (PN 1414) SHALL BE UTILIZED.  <b>* Admin Comments :</b> 09/05/12 - Added to the AMU List to align with the MK 20 Tech Manual. 7/15/2014 - Updated manufacturer info. Updated on: 6/10/2020 11:44:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.19 CAT I Active	COMMUNICATION SET	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800-550-1983 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	PN 910382-001 (SET) *EP-1 (EARPHONE) *ME-16R, PN 912086- 000(MICROPHONE)	NON-PREAMPLIFIED COMMUNICATION ASSEMBLY AUTHORIZED FOR USE WITH THE MK 20 MOD 0/1.  <b>* Admin Comments :</b> 09/05/12 - Added to AMU List to align with MK 20 Tech Manual. Updated on: 6/10/2020 10:56:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.20 CAT II Active	THREE DIVER SURFACE INTERCOM, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 800-550-1984 ex 109 <b>Email :</b> kschmid@oceantechnologysystems.com	AQUACOM MK-III	General Notes: (1) Apply.  <b>* Admin Comments :</b> ADDED TO ANU 4/25/2018  04/03/20 - POC Updated Updated on: 4/3/2020 2:17:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.21 CAT II Active	EP-45MM EAR PHONE/MIC ASSEMBLY	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 1-800-550-1984 ext 109	EP-45MM	Approved to 190 FSW with MK 20 MOD 0/1 PRE AMPLIFIED MIC ASSEMBLY

		<b>Email :</b> kschmid@oceantechnologysystems.com		<b>* Admin Comments :</b> 04/16/2020 - Added by LCDR Hyatt Updated on: 8/18/2023 6:56:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.22 CAT II Active	FLOATING COMM CABLE	OCEAN TECHNOLOGY SYSTEMS (OTS) <b>Name :</b> Kurtis Schmid <b>Phone :</b> 1-800-550-1984 ext 109 <b>Email :</b> kschmid@oceantechnologysystems.com	BLUE AMP TO HI-USE: 910486-*** YELLOW AMP TO HI-USE 910487-***  BLUE BANANA TO HI-USE 910488-*** YELLOW BANANA TO HI-USE 910489-*** *** - IS LENGTH REQUESTED/ORDERING	2500 LBS BREAKING STRENGTH COMMS CABLE. APPROVED FOR SCUBA TO 190 FSW WITH MK 20 MOD 0/1 (SCUBA AGA). MAY BE USED AS TENDING LINE IF PROPERLY MARKED AND SHACKLED WITH HARNESSSED DIVER. AUTHORIZED FOR USE IN SCUBA WITH FULL FACE MASK AND DP CONFIG 3 IN SWIFT WATER DIVING OPERATIONS. CONTACT NAVSEA 00C3 FOR DP CONFIG 1 USE IN SWIFT WATER DIVING OPERATIONS.  NOTE: APPROVED AS STRENGTH MEMBER. HIGH TENSIONS MAY EFFECT COMMS.  <b>* Admin Comments :</b> 04/16/2020 - Added by LCDR Hyatt Updated on: 6/10/2020 10:54:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
4.3.23 CAT II Active	ONE DIVER COMMUNICATIONS BOX	AMRON INTERNATIONAL	AMCOM I 2810-05	General Notes: (1) Apply.  <b>* Admin Comments :</b> 11/15/2021 - ADDED TO ANU - MLP

## 5.1 GAS TRANSFER SYSTEMS

### NO General Notes

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.1.1 CAT I Active	OXYGEN BOOSTER PUMP	HASKEL <b>Name :</b> Dave Arnold <b>Phone :</b> 818-556-2571 <b>Email :</b> dave.arnold@haskel.com	MODELS 26968, 55016, 55312	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 & 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.  Updated on: 2/21/2023 5:59:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.1.2 CAT I Inactive	GAS TRANSFER SYSTEM	HASKEL <b>Name :</b> Dave Arnold <b>Phone :</b> 818-395-5986 <b>Email :</b> dave.arnold@haskel.com	MODEL 5367002	FOR PORTABLE USE ONLY. NOT FOR PERMANENT INSTALLATION ON BOARD SHIP.  TWO INDEPENDENT BOOSTER SYSTEMS, (1) O2 & (1) HEO2. HASKEL FILTER ASSEMBLIES 28728-10 AND 28728-12 NO LONGER AUTHORIZED FOR USE. HASKEL FILTER ASSEMBLIES 87260-10 & 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.  Updated on: 4/25/2023 12:57:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

5.1.3 CAT I Active	OXYGEN TRANSFER PUMP	AMINCO	AOC 250 & OA 25	Updated on: 8/14/2012 2:55:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.1.5 CAT I Inactive	OXYGEN TRANSFER PUMP	THE DURIRON COMPANY, INC. (PPI DIVISION)	1040-A 3081M	PPI PUMP MODIFIED BY FLUITRON. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE. Updated on: 11/1/2013 11:52:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.1.7 CAT I Active	GAS BOOSTER PUMP AND CHARGING CASE	HIGHSTAR INDUSTRIAL TECHNOLOGIES <b>Name</b> : Larry Murphy <b>Phone</b> : 757.398.9300	HS-121055M2/HS-032628M2	SOF APPROVED.  <b>* Admin Comments</b> : 4/20/09 - Added to the AMU List. Updated on: 8/14/2012 2:56:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.1.8 CAT I Inactive	OXYGEN BOOSTER PUMP	MARINE SERVICES COMMERCIAL DIVING COMPANY, INC.	MS-H-201	HASKEL BOOSTER PUMP ASSY, MODEL 26968, MODIFIED BY MARINE SERVICES. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE.  SOF APPROVED.  <b>* Admin Comments</b> : 3/25/11 - Added to the AMU List. Updated on: 11/1/2013 10:29:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.1.9 CAT I Active	PORTABLE AIR FILL STATION	BAUER <b>Name</b> : William Dickson <b>Phone</b> : 757-855-6006 <b>Email</b> : bill.dickson@bauercomp.com	BRIEFCASE FILL STATION NAVY	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 "NAVY" 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 "NAVY" 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.  <b>* Admin Comments</b> : 08/08/12 - Approved for use. Updated on: 8/23/2023 1:28:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.1.10 CAT I Active	OXYGEN BOOSTER PUMP	HYDRAULICS INTERNATIONAL, INC. <b>Name</b> : Les Turner	MODEL HIHPG2-21059	Electric motor has to be ordered for the specific type of electrical power available at the locker:  PN HIHPG2-21059 (115 VAC, 24 AMPS, 1-PHASE, 60 HZ)

		<b>Phone</b> : 818-407-3400 <b>Email</b> : lturner@hiipumps.com		PN HIHPG2-21059-B (230 VAC, 12 AMPS, 1-PHASE, 60 HZ) PN HIHPG2-21059-C (230 VAC, 6.8 AMPS, 3-PHASE, 60 HZ) PN HIHPG2-21059-D (460 VAC, 3.4 AMPS, 3-PHASE, 60 HZ) PN HIHPG2-21059-E (380 VAC, 5.0 AMPS, 3-PHASE, 50 HZ) PN HIHPG2-21059-F (220 VAC , 12 AMPS, 1-PHASE, 50 HZ)  <b>* Admin Comments</b> : 10/9/12 - Added to the AMU List. Updated on: 8/23/2023 1:31:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.1.11 CAT I Active	OXYGEN BOOSTER PUMP	HYDRAULICS INTERNATIONAL, INC. <b>Name</b> : Les Turner <b>Phone</b> : 818-407-3400 <b>Email</b> : lturner@hiipumps.com	HIHPG2-21070/A07302-O-A1-A2-PR-1330	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.  <b>* Admin Comments</b> : 9/29/2014 - Added to AMU List Updated on: 8/23/2023 1:32:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.1.12 CAT I Active	GAS BOOSTER PUMP	HYDRAULICS INTERNATIONAL, INC. <b>Name</b> : Les Turner <b>Phone</b> : 818-407-3400 <b>Email</b> : lturner@hiipumps.com	HIHPG4-29035	SOF APPROVED  Portable air driven gas booster pump for use in charging the EX/MK-11 SDV (NAVSEA CERTIFIED SYSTEM)  <b>* Admin Comments</b> : 10/1/2014 - Added to AMU List 12/02/2020 - Some Gauges replaced with Perma-Cal Gauges. Updated on: 8/23/2023 1:33:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.1.13 CAT I Active	AIR BOOSTER PUMP	WIKA (FORMERLY 3D INSTRUMENTS)	SIERRA ELECTRIC AIR BOOSTER 8000 & 9000 SERIES	<b>* Admin Comments</b> : AUTHORIZED FOR USE WITH AIR ONLY. ANY USE WITH OXYGEN IS PROHIBITED 6/10/2020 - 3D Instruments products discontinued. Acquiring company, WIKA, offers similar models. Updated on: 6/10/2020 11:53:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.1.14 CAT I Active	HP AIR BASIC FILL PANEL	BAUER <b>Name</b> : EDDIE WRIGHT <b>Phone</b> : +1 (757) 858-5150 <b>Email</b> : Ed.wright@bauercomp.com	WALL-MOUNTED BASIC FILL PANEL (BFP), BFP 100 SERIES AND BFP 450-FP SERIES WITH CASCADE (IF DESIRED)	DEVELOP AND UTILIZE COMMAND-TAILORED OPERATING PROCEDURES FOR OPERATION PER CHAPTER 7 OF THE U.S. NAVY DIVING MANUAL (SS521-AG-PRO-010)  CONDUCT MAINTENANCE IAW OEM O&M MANUAL AND APPLICABLE MIPS/MRCS  FOR ANY NEW SYSTEM INSTALLATION, ACTIVITIES ARE ENCOURAGED TO CONTACT NAVSEA 00C FOR ASSISTANCE IN SYSTEM DESIGN  ACTIVITIES SHALL KEEP ALL TECHNICAL DOCUMENTATION AND DRAWINGS OF SYSTEM FOR LIFE OF SYSTEM (NEW OR OVERHAULED SYSTEMS)  <b>* Admin Comments</b> : ADDED BY LCDR IRWIN 03 OCT 22 Updated on: 10/3/2022 7:50:00 PM

## 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 air cooled multi-stage type with an intercooler between each stage, a final after cooler 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 outdoors, 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, hour-meter 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 desire to gain authorization for use, submit a formal request to NAVSEASYS COM 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, hydro-test certificates for all separators, purification chambers, and flex hose charging whips. Additionally, all safety relief valves are to be equipped with a metal tag wired 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.

(13): Electronic carbon monoxide monitors/detectors are not required to be installed in high pressure breathing air compressors.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
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5.2.7 CAT I Active	HP AIR COMPRESSOR, COMMERCIAL	RIX INDUSTRIES	MODEL 4VX, 5000 PSI/27 SCFM	General Notes: (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) Apply. GENERAL NOTES APPLY <i>Updated on: 11/5/2019 9:35:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.2.9 CAT I Active	HP AIR COMPRESSOR, COMMERCIAL	RIX INDUSTRIES	2JS4B-150 5000 PSI, 60-100 SCFM	General Notes: (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) Apply. General notes apply and can be set for 3,000, 4,500 or 5,000 PSI service. <i>Updated on: 11/1/2022 9:32:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.2.15 CAT I Inactive	HP AIR COMPRESSOR, COMMERCIAL	RIX INDUSTRIES	1S3B-6G/E/D (SA-6G/E/D) 4500/3000 PSI, 5SCFM	General notes apply, may be procured for 4500 or 3000 PSI service, G = gasoline, E = electric, D = diesel.  <b>* Admin Comments :</b> 11/13/2014 - Updated to include Diesel drive option.  06/19/23 - Moved to inactive, No coverage from OEM and PMS. (NDCM Dumke) <i>Updated on: 6/19/2023 12:42:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.2.18 CAT I Inactive	HP AIR COMPRESSOR, COMMERCIAL	HARDIE-TYNES	3M-133 3000 PSI, 8 SCFM	General notes apply.  <b>* Admin Comments :</b> 6/10/2020 - Hardie-Tynes has discontinued operation.  06/19/23 - Moved to inactive, No coverage from OEM and PMS. (NDCM Dumke) <i>Updated on: 6/19/2023 12:43:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.2.22 CAT I Inactive	HP AIR COMPRESSOR 1H-4310-01-105-3074	INGERSOLL RAND	10T2 3000 PSI, 14 SCFM	GENERAL NOTES APPLY. MK 31 MOD 0, APL: 069990020 NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE AND WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. 10T2 REPLACED BY 15T4. <i>Updated on: 2/3/2010 12:46:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.2.24 CAT I Inactive	HP AIR COMPRESSOR, COMMERCIAL	RIX INDUSTRIES	3K3B-44 3000 PSI, 20/30 SCFM	General notes apply. 20 or 30 SCFM is dependent on prime mover. May be used for 4,500 PSI service.  <b>* Admin Comments :</b> 06/19/23 - Moved to inactive, No coverage from OEM and PMS. (NDCM Dumke) <i>Updated on: 6/19/2023 12:43:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.2.25 CAT I Inactive	HP AIR COMPRESSOR 9C-4310-01-172-3140	INGERSOLL RAND	4R15, 15T4 3000 PSI, 20 SCFM	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. <i>Updated on: 2/3/2010 12:48:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

<b>5.2.28</b> <b>CAT I</b> <b>Active</b>	HP AIR COMPRESSOR 1H-4310-00-779-5238	VARIOUS	MIL-C-18419, 3000PSI, 60 -100 SCFM	General notes apply. These Mil-Spec HPACS are for permanently installed shipboard use. <i>Updated on: 11/1/2022 9:39:00 PM</i>
<b>Equip#</b>	<b>Item/Stock#</b>	<b>Manufacturer</b>	<b>Designation/Model</b>	<b>Comments</b>
<b>5.2.33</b> <b>CAT I</b> <b>Active</b>	HP AIR COMPRESSOR, COMMERCIAL	BAUER	VARIOUS	General Notes: (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) Apply.  <b>* Admin Comments :</b> 10/6/2014 - Added to AMU list to consolidate authorization of air compressors by manufacturer.  SUPERSEDED BY ITEM 5.2.33 <i>Updated on: 11/5/2019 9:36:00 AM</i>
<b>Equip#</b>	<b>Item/Stock#</b>	<b>Manufacturer</b>	<b>Designation/Model</b>	<b>Comments</b>
<b>5.2.34</b> <b>CAT I</b> <b>Active</b>	HP AIR COMPRESSOR, COMMERCIAL	MAKO	VARIOUS	General Notes: (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) Apply.  <b>* Admin Comments :</b> 10/6/2014 - Added to AMU list to consolidate authorization of air compressors by manufacturer.  SUPERSEDED BY ITEM 5.2.33 <i>Updated on: 11/5/2019 9:36:00 AM</i>
<b>Equip#</b>	<b>Item/Stock#</b>	<b>Manufacturer</b>	<b>Designation/Model</b>	<b>Comments</b>
<b>5.2.35</b> <b>CAT I</b> <b>Active</b>	HP AIR COMPRESSOR, COMMERCIAL	COLTRI <b>Name :</b> Tom Maddox; Doug McNeese <b>Phone :</b> 609-579-8782; 970-215-9340 <b>Email :</b> tom.maddox@americanbreathingair.com.com; doug.McNeese@coltri.com	MCH-16 MCH-36	General Notes: (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) Apply. Maintain IAW Manufacturer O&M Manual  <b>* Admin Comments :</b> 02/10/2022 - MLP Added to ANU 11/10/2022 - POC update (NDCM Dumke) <i>Updated on: 11/10/2022 3:22:00 PM</i>

### 5.3 MP & LP COMPRESSORS

#### NO General Notes

<b>Equip#</b>	<b>Item/Stock#</b>	<b>Manufacturer</b>	<b>Designation/Model</b>	<b>Comments</b>
<b>5.3.1</b> <b>CAT I</b> <b>Active</b>	MP AIR COMPRESSOR, COMMERCIAL	RIX INDUSTRIES	2JS2B-300 400 PSI, 150 SCFM	COMPRESSOR IS OIL FREE DESIGN. <i>Updated on: 9/24/2010 11:17:00 AM</i>
<b>Equip#</b>	<b>Item/Stock#</b>	<b>Manufacturer</b>	<b>Designation/Model</b>	<b>Comments</b>
<b>5.3.2</b> <b>CAT I</b> <b>Inactive</b>	MP AIR COMPRESSOR, COMMERCIAL	QUINCY	5120, W-5120LPH 250 PSIG, 87 SCFM	NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. <i>Updated on: 9/24/2010 11:17:00 AM</i>
<b>Equip#</b>	<b>Item/Stock#</b>	<b>Manufacturer</b>	<b>Designation/Model</b>	<b>Comments</b>
<b>5.3.3</b> <b>CAT I</b> <b>Active</b>	LP AIR COMPRESSOR, COMMERCIAL	AQUA AIR INDUSTRIES INC.	AA1 325 200 PSIG, 18 SCFM	N/A  <b>* Admin Comments :</b> 8/1/11 - Removed note requiring additonal approval from NAVSEA. <i>Updated on: 8/1/2011 1:08:00 PM</i>



Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.3.4 CAT I Inactive	LP AIR COMPRESSOR, COMMERCIAL	ATLAS COPCO	18LT8BE200 PSIG, 20 SCFM	NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE.  <i>Updated on: 10/28/2013 2:09:00 PM</i>

#### 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.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.4.6 CAT I Inactive	PURIFICATION SYSTEM, COMMERCIAL	INGERSOLL RAND	EAGLE 50LB083	General Notes: (1) (2) Apply. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER.  77,600 FT3 @ 80°F, 20 CFM @ 3000 PSI FOR USE WITH INGERSOLL RAND MODEL 15TH4.  77,600 FT3 @ 800F,20 CFM @ 3000 PSI FOR USE WITH INGERSOLL RAND MODEL 15TH4.  <i>* Admin Comments : 02/29/00 - Inactive.</i> <i>Updated on: 6/24/2013 9:34:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.4.17 CAT I Active	PURIFICATION SYSTEM, COMMERCIAL	BAUER	VARIOUS	General Notes: (1) (2) (3) Apply.  <i>* Admin Comments : 10/6/2014 - Added to AMU list to consolidate authorization of purification systems by manufacturer.</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.4.18 CAT I Active	PURIFICATION SYSTEM, COMMERCIAL	MAKO	VARIOUS	General Notes: (1) (2) (3) Apply.  <i>* Admin Comments : 10/6/2014 - Added to AMU list to consolidate authorization of purification systems by manufacturer.</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.4.19 CAT I Active	PURIFICATION SYSTEM, PORTABLE	BAUER	PAFA	PORTABLE AIR PURIFICATION SYSTEM THAT CAN BE HOOKED UP TO ANY AIR COMPRESSOR. MAXIMUM OPEARTING PRESSURE OF 6,000 PSIG. CAPABLE OF PROCESSING UP TO 12,000 CU. FT. OF AIR.  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 4-1 OF THE USN DIVE MANUAL.

\* **Admin Comments** : 6/22/2015 - Added to AMU list  
2/3/2022 - changed Table 4-2 to table 4-1 IAW rev 7 DIVMAN

Updated on: 2/3/2022 2:26:00 PM

## 5.5 SODALIME CARBON DIOXIDE ABSORBENTS

### General Notes

(1): Only "non-indicating" CO2 absorbing products are authorized for use.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.5.1 CAT I Inactive	CO2 ABSORBENTS	W. R. GRACE & CO.	HIGH PERFORMANCE SODASORB, REGULAR	General Notes: (1) Apply. THIS IS A 4 - 8 MESH SODALIME Updated on: 4/25/2023 12:53:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.5.2 CAT I Active	CO2 ABSORBENTS	MOLECULAR PRODUCTS LTD.	SOFNOLIME 408 MESH NI L GRADE	General Notes: (1) Apply. THIS IS A 4 - 8 MESH SODALIME. Updated on: 6/24/2013 9:27:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.5.3 CAT I Active	CO2 ABSORBENTS	MOLECULAR PRODUCTS LTD.	SOFNOLIME 812 MESH NI D GRADE	General Notes: (1) Apply. THIS IS A 8 - 12 MESH SODALIME. Updated on: 6/24/2013 9:27:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.5.4 CAT I Active	CO2 ABSORBENTS	DRAEGER	DIVESORB PRO 37 lbs P/N 6737818 (NSN 4220-12- 405-2249)  18 kgs P/N 6737109 (NSN 4240-12- 376-0682)  4.5 kgs P/N 6737062	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.  * <b>Admin Comments</b> : 04/25/2019 - Hyatt Added NSN and additional Part Numbers 06/21/2019 - Hyatt Added NSN and additional Part Numbers Updated on: 6/21/2019 10:38:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.5.5 CAT I Active	EXTENDAIR CO2 ABSORBENT	MICROPORE Inc.	MK25 SYSTEM KIT PN: MP-1130K  MK25 MICROPORE ABSORBENT CARTRIDGE (CASE QTY6) PN: SM-0505C  MODE MICROPORE ABSORBENT CARTRIDGE (CASE QTY4) PN: SM-0625C	RESTRICTED USE AS CERTIFIED BY 00C4 Updated on: 9/27/2016 9:19:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.5.6 CAT I Active	CO2 ABSORBENTS	INTERSURGICAL LIMITED <b>Name</b> : Mr. Wallace <b>Phone</b> : +44 (0) 118 9656 300 <b>Email</b> : aw@premchemltd.com	INTERSORB SUBSEA 408 MESH GRADE L	General Notes: (1) Apply. FOR SATFADS USE ONLY.  This is a 4-8 mesh sodalime.  Use is limited to SATFADS hyperbaric systems (deck

				decompression chamber (DDC), diving bell, and breathing gas reclaim system CO2 scrubbers) which can be continually monitored for CO2. Use is not authorized for SATFADS secondary life support back packs or UBAs.
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.5.7 CAT I Active	CO2 ABSORBENTS	INTERSURGICAL LIMITED  <i>Name : Mr. Wallace Phone : +44 (0) 118 9656 300 Email : aw@premchemltd.com</i>	INTERSORB SUBSEA 812 MESH GRADE D	General Notes: (1) Apply. FOR SATFADS USE ONLY.  This is a 8-12 mesh sodalime.  Use is limited to SATFADS hyperbaric systems (deck decompression chamber (DDC), diving bell, and breathing gas reclaim system CO2 scrubbers) which can be continually monitored for CO2. Use is not authorized for SATFADS secondary life support back packs or UBAs.

## 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.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.1 CAT I Active	CARBON DIOXIDE ANALYZER HAND PUMP, COMMERCIAL	DRAEGER	MODEL 21, 31 & ACCURO	N/A <i>Updated on: 12/20/2013 9:18:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.2 CAT I Active	CO2 COLORMATIC TUBE, COMMERCIAL	DRAEGER	PN CH 23501	.1 TO 6% RANGE <i>Updated on: 12/20/2013 9:19:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.3 CAT I Active	COLORMETRIC GAS TUBES, COMMERCIAL	DRAEGER	VARIOUS RANGES	COLORMETRIC TUBES MAY BE PURCHASED AS REQUIRED TO MEET LOCAL GAS AND VAPOR ANALYSIS REQUIREMENTS. <i>Updated on: 12/20/2013 9:19:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.4 CAT I Inactive	CARBON DIOXIDE MONITOR, COMMERCIAL ITEM	ANALOX	5000/5001-USN	General Notes: (1) Apply. THE 5000-USN VERSION IS NO LONGER MANUFACTURED BUT IS STILL AUTHORIZED FOR CONTINUED USE. <i>Updated on: 12/20/2013 9:20:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.5 CAT I Inactive	OXYGEN ANALYZER PORTABLE, COMMERCIAL	TELEDYNE	320 B	NICAD RECHARGEABLE BATTERIES SHALL NOT BE USED INSIDE RECOMPRESSION CHAMBERS.  NO LONGER MANUFACTURED NOR SUPPORTED BUT AUTHORIZED FOR CONTINUED USE.  <i>* Admin Comments : 7/13/11 - Removed 320 A &amp; C as 320B is the</i>

				only model authorized for use inside a hyperbaric chamber. Updated on: 12/20/2013 9:20:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.6 CAT I Inactive	OXYGEN ANALYZER, COMMERCIAL	TELEDYNE	326 (SERIES)	N/A  * <b>Admin Comments</b> : 08/31/23 - Updated status to Inactive (NDCM Dumke) Updated on: 8/31/2023 7:33:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.7 CAT I Inactive	OXYGEN ANALYZER, COMMERCIAL	ANALOX	SERIES 1000	NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE.  * <b>Admin Comments</b> : 12/19/13 - Changed status to inactive. Updated on: 12/20/2013 9:20:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.8 CAT I Inactive	OXYGEN ANALYZER, COMMERCIAL	TELEDYNE	TED 60-T	NICAD RECHARGEABLE BATTERIES SHALL NOT BE USED INSIDE RECOMPRESSION CHAMBERS.  NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.  * <b>Admin Comments</b> : 4/14/11 - Inactive. Updated on: 12/20/2013 9:20:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.9 CAT I Inactive	PORTABLE MINI OXYGEN ANALYZER, COMMERCIAL	ANALOX	MINI-02-1	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.  * <b>Admin Comments</b> : 7/13/11 - Inactive. Updated on: 12/20/2013 9:20:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.10 CAT I Inactive	PORTABLE CARBON DIOXIDE ANALYZER, COMMERCIAL	ANALOX	(501) MINI-CO2 PORTABLE CO2 ANALYZER	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.  * <b>Admin Comments</b> : 9/29/99 - Inactive. Updated on: 12/20/2013 9:21:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.11 CAT I Active	CARBON DIOXIDE ANALYZER, COMMERCIAL	GEOTECHNICAL INSTRUMENTS LTD. <b>Name</b> : Steve Billingham <b>Phone</b> : +44(0)1926 338112	ANAGAS MODEL HB 1.2A	MEASURES CO2 UP TO 2.5 PERCENT OF SEV AND O2 FROM 0 TO 2 ATA ppO2 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 USE IN HIGH HUMIDITY, I.E., DDS. NOTE: ONLY

				<p>THE ANAGAS MODEL HB 1.2A (ID'D BY A BLUE CASE) IS AUTHORIZED.</p> <p><i>* 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.</i>  <i>Updated on: 8/18/2015 9:28:00 AM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.12 CAT I Inactive	CO2 MONITOR, COMMERCIAL	ANALOX	DA, 5DS P/N	<p>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE.</p> <p>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.</p> <p><i>* Admin Comments : 12/19/13 Changed status to inactive</i>  <i>Updated on: 12/20/2013 9:21:00 AM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.13 CAT I Inactive	CO MONITOR, COMMERCIAL	ANALOX	MODEL 3D	<p>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE.</p> <p>FIXED INSTALLATION OPERATION UNDER NORMAL ATMOSPHERIC PRESSURE (1 ATA) CONDITIONS. RANGE OF MEASUREMENT CAN BE SPECIFIED AT TIME OF ORDERING. AUDIBLE ALARM. LCD DISPLAY.</p> <p><i>* Admin Comments : 12/19/13 - Changed status to inactive</i>  <i>Updated on: 12/20/2013 9:21:00 AM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.14 CAT I Inactive	O2 / CO2 COMBINED MONITOR, COMMERCIAL	ANALOX	SUB E-IR15P	<p>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE.</p> <p>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.</p> <p><i>* Admin Comments : 3/21/11 - Corrected PN from E-1R-15P to PN E-IR15P as based on the NEDU TM 98-05.</i></p> <p><i>11/15/13 - Changed to Inactive. new model available model # SUB MKIIP, but has not yet been evaluated and AMU.</i>  <i>Updated on: 12/20/2013 9:21:00 AM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.15 CAT I Inactive	CO2 ANALYZER, COMMERCIAL	ANALOX	"BUDDY" C02	<p>NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.</p> <p>PORTABLE, BATTERY POWERED. FOR EXTERNAL MONITORING OF HYPERBARIC CHAMBER ENVIRONMENT.</p> <p>RECALIBRATION SOFTWARE ALLOWS COMMANDS TO CONDUCT ANNUAL CALIBRATION. CALIBRATION AND OTHER SERVICING IS AVAILABLE VIA THE DISTRIBUTOR.</p> <p><i>Updated on: 12/20/2013 9:21:00 AM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

5.6.17 CAT I Active	O2/CO2 COMBINED MONITOR, COMMERCIAL PN # SAACAAAU01B	ANALOX <b>Name :</b> Todd Rood <b>Phone :</b> 619-778-6217 <b>Email :</b> todd.rood@chasedefense.com	SUB ASPIDA	<p>PORTABLE, BATTERY POWERED GAS MONITOR FOR CO2 &amp; O2. FOR EXTERNAL MONITORING OF HYPERBARIC CHAMBER ENVIRONMENT.</p> <p>RECALIBRATION SOFTWARE ALLOWS COMMANDS TO CONDUCT ANNUAL CALIBRATION. CALIBRATION AND OTHER SERVICING IS AVAILABLE VIA THE DISTRIBUTOR.</p> <p>THE CO2 SENSOR REQUIRES CALIBRATION ON A YEARLY BASIS WITH A CALIBRATION GAS OF 3% CO2 IN N2 TO CALIBRATE THE HIGH &amp; 100% N2 TO CALIBRATE THE ZERO POINTS.</p> <p><b>* Admin Comments :</b> 10/27/11 - Added to the AMU List* 08/08/19 - Current part number added by NDCM Hopkins. 11/14/23 - Updated POCs (NDCM Dumke) Updated on: 11/15/2023 2:04:00 AM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.18 CAT I Active	O2/CO2 COMBINED MONITOR, COMMERCIAL	GEOTECHNICAL INSTRUMENTS LTD.	HYB 2.0	<p>General Notes: (1) Apply. PMS 399 CONTROLLED ITEM.</p> <p>MEASURES CO2 UP 30,000 PPM SEV AND OXYGEN UP TO 0 TO 25% (ABSOLUTE) AND 0 TO 2 PPATA. SWITCHING OXYGEN UNITS FROM PERCENT TO PARTIAL PRESSURE CAN BE DONE IN THE FIELD.</p> <p>THE GEOTECH MODEL HYB 2.0 IS A SPECIFICALLY MODIFIED UNIT FOR NAVY USE, AND IS DESIGNED FOR USE INSIDE CHAMBERS USE IN HIGH HUMIDITY, I.E., DDS, FOR A DEPTH RANGE OF 0 TO 6 ATA.</p> <p>ANCILLARY COMPONENTS PROVIDED BY THE OEM FOR THIS UNIT ARE: GEOTECH P/N HYB1.11 - CAL GAS REGULATOR AND CONNECTING TUBING GEOTECH P/N HYB1.16 - ANALYZER DATA MANAGER (ADM) SOFTWARE GEOTECH P/N HYB1.18 - LEAD FOR 28 VDC EXTERNAL POWER SUPPLY</p> <p>OPERATING PROCEDURES FOR THIS UNIT SHALL BE IN ACCORDANCE WITH NEDU TR 15-1 APPENDIX A, OR APPROVED BY PMS 399 OR NAVSEA 00C3.</p> <p><b>* Admin Comments :</b> 11/3/2015 - Added to ANU list Updated on: 6/10/2020 10:11:00 AM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
5.6.19 CAT I Active	PORTABLE AIR MONITOR, NAVSEA CONTROLLED ITEM	ANALOX <b>Name :</b> Todd Rood <b>Phone :</b> 619-778-6217 <b>Email :</b> todd.rood@chasedefense.com	ACG+ Analyzer	<p>AUTHORIZED FOR USE AS A MEANS OF VERIFYING ANU COMPRESSOR OUTPUT, SAMPLING NON-U.S. NAVY AIR SOURCES AND AS A SINGLE-PERIODICITY SUBSTITUTE FOR LABORATORY-BASED AIR SAMPLING OF U.S. NAVY COMPRESSORS NOT USED FOR NITROGEN-OXYGEN MIXING, AS DICTATED BY OPERATIONAL CONDITIONS THAT WOULD OTHERWISE PRECLUDE SAMPLING IN ACCORDANCE WITH APPROVED MAINTENANCE REQUIREMENTS.</p> <p>NAVSEA CONTROLLED ITEM IN ACCORDANCE WITH NAVSEA DRAWING 8698023. CONTACT NAVSEA 00C3 FOR ISSUANCE.</p>

				<p>POWER SUPPLY PART NUMBERS T4109ST &amp; T5885ST ARE APPROVED FOR USE.</p> <p><b>* Admin Comments :</b> 3/29/19 - 00C32 updated notes; removed NAVSEA TM reference; added drawing # and approval for alternate power supply PNs. 10/21/20 - LCDR Hyatt updated IAW AIG 20-17 11/14/23 - Updated POCs (NDCM Dumke)</p> <p>Updated on: 11/15/2023 2:05:00 AM</p>
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## 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.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.1.1 CAT II Inactive	GFI	FLUID KINETICS	IM-4502	<p>General Notes: (1) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.</p> <p>NAVSEA 00C5 IS THE PROGRAM MANAGER FOR GFIs.</p> <p><b>* Admin Comments :</b> 04/19/12 - Inactive. Fluid Kinetics was purchased in 2003 and no longer exists nor supports this product. Updated on: 8/7/2012 12:20:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.1.2 CAT II Inactive	GFI, COMMERCIAL	FLUID KINETICS	ARCTIC GFI, 2.5 Kw	<p>General Notes: (1) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.</p> <p>NAVSEA 00C5 IS THE PROGRAM MANAGER FOR GFIs.</p> <p><b>* Admin Comments :</b> 04/19/12 - Inactive. Fluid Kinectis was purchased in 2003 and not longer exists nor supports this product. Updated on: 8/7/2012 12:28:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.1.3 CAT II Inactive	GFI, COMMERCIAL	DANIEL WOODHEAD COMPANY	1670 (PORTABLE) 1680 (WALL MOUNTED)	<p>General Notes: (1) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.</p> <p>SPECIAL WIRING MODIFICATION REQUIRED FOR USE WITH UNGROUNDED POWER SYSTEMS.</p> <p>NAVSEA 00C5 IS THE PROGRAM MANAGER FOR GFIS. Updated on: 8/7/2012 12:28:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.1.4 CAT II Inactive	GFI, PORTABLE	POWER ELECTRONIC SYSTEMS, INC.	PN 6698494	<p>General Notes: (1) Apply. NAVSEA 00C5 IS THE PROGRAM MANAGER FOR PORTABLE GFIS.</p> <p><b>* Admin Comments :</b> 07/02/13 - Added to the AMU List. 08/20/13 - Changed category from I to II. Original label of Cat I was</p>

## 6.2 PHOTOGRAPHIC AND VIDEO EQUIPMENT

### General Notes

(1): Authorized as cat ii diver preference for in-water applications only. Cameras, video and video scope equipment is not considered cat ii for installation in hyperbaric chambers or other closed environments. Cameras, video and video scope equipment to be used in hyperbaric chambers or other closed environments must be approved in advance by NAVSEA 00C.

(2): Equipment that utilizes lithium batteries shall meet the exceptions outlined in (1) NAVSEA INSTRUCTION 9310.1C, NAVAL LITHIUM BATTERY SAFETY PROGRAM, (2) NAVSEA S9310-AQ-SAF-010, the technical manual for navy lithium battery safety program responsibilities and procedures. For assistance, determining exceptions to these instructions please contact NAVSEA 00C ANU program manager. When possible, avoid procurement of products that utilize lithium batteries.

(3): The voltage at the diver of any cat ii equipment shall not be more than the "safe" level per (1) IMCA D 045, the code of practice for the safe use of electricity under water, (2) NAVSEA TS500-AU-SPN-010, U.S. NAVY GENERAL SPECIFICATION FOR THE DESIGN, CONSTRUCTION, REPAIR OF DIVING AND HYPERBARIC EQUIPMENT. If voltage at the diver is greater than 7.5 VAC OR 30 VDC please contact NAVSEA 00C ANU coordinator of additional guidance.

(4): Underwater still picture camera, underwater video camera, umbilical powered camera, and video scope/fiberscope inspection tools do not require testing IAW NAVSEA TS500-AU-SPN-010. Equipment must be certified by the manufacture to operate at the maximum operating depth.

(5): All purchase must be made IAW us procurement rules and regulations.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.1 CAT II Active	UNDERWATER STILL PICTURE CAMERA, BATTERY POWER	VARIOUS	DIVER PREFERENCE	General Notes: (1) (2) (3) (4) (5) Apply.  * <b>Admin Comments</b> : UPDATE FOR ADDITION OF GENERAL NOTE 5  Updated on: 3/26/2021 12:05:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.2 CAT II Active	UNDERWATER VIDEO CAMERA, BATTERY POWER	VARIOUS	DIVER PREFERENCE	General Notes: (1) (2) (3) (4) (5) Apply.  * <b>Admin Comments</b> : UPDATE FOR ADDITION OF GENERAL NOTE 5  Updated on: 3/26/2021 12:06:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.3 CAT II Active	UNDERWATER VIDEO CAMERA, UMBILICAL POWER	DIVER PREFERENCE	DIVER PREFERENCE	General Notes: (1) (3) (4) (5) Apply.  * <b>Admin Comments</b> : UPDATE FOR ADDITION OF GENERAL NOTE 5  Updated on: 3/26/2021 12:07:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.4 CAT II Inactive	STROBE LIGHT, BATTERY POWER	SUBSEA	MK 150	General Notes: (1) (2) (3) Apply. NO LONGER MANUFACTURERD BUT STILL AUTHORIZED FOR CONTINUED USE.  Updated on: 8/14/2012 9:03:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments



6.2.5 CAT II Inactive	ELECTRONIC FLASH, BATTERY POWER	NIKON INC.	NIKONOS SB 102, SB 105	General Notes: (1) (2) (3) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.  SB 103 UNITS RECALLED BY NIKON (1994) AND NO LONGER AUTHORIZED FOR USE. CONTACT MANUFACTURER FOR DETAILS.  <i>Updated on: 8/14/2012 9:05:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.7 CAT II Inactive	UNDERWATER TELEVISION SYSTEM	KONGSBERG MARITIME	HYDRO COLOR TC-181	NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.  <b>* Admin Comments :</b> 02/22/00 - Inactive (2000). 08/14/12 - Formerly Hydro Products. <i>Updated on: 8/14/2012 11:53:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.8 CAT II Inactive	CAMERA ASSEMBLY	KONGSBERG MARITIME <b>Name :</b> KARL LUTTRELL <b>Phone :</b> 734-223-0977	KONGSBERG SIMRAD DWG 082-0534	General Notes: (5) Apply. THIS ITEM REPLACES THE CAMERA/LIGHT ASSEMBLY ON THE DUCTS (DIVER UNDERWATER COLOR TV SYSTEM). USED IN CONJUNCTION WITH THE DUCTS SCU. REQUIRES AN ADAPTER FOR THE DUCTS UMBILICAL.  SMALL ENOUGH TO BE HELMET MOUNTED.  THE SYSTEM INCLUDES A LIGHT (DWG 998-2002 REV D, -1 VERSION) AND CABLE ADAPTER (DWG 082-0530 REV A).  REPLACES OSPREY ELECTRONICS VIDEO CAMERA PN OE 1365 (DWG 1365-9999 REV 0).  <b>* Admin Comments :</b> 4/26/12 - Kongsberg Simrad became Kongsberg Maritime. 6/10/2020 - Added POC info. <i>Updated on: 12/11/2020 10:07:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.9 CAT II Inactive	UNDERWATER TELEVISION SYSTEM	KONGSBERG MARITIME <b>Name :</b> KARL LUTTRELL <b>Phone :</b> 734-223-0977	DUCT II DWG 082-0500	General Notes: (5) Apply. FOLLOW ON TO DUCT I SYSTEM (ANU #9.2.11).  <b>* Admin Comments :</b> 4/26/12 - Kongsberg Simrad became Kongsberg Maritime. 6/10/2020 - Added POC info. <i>Updated on: 12/11/2020 10:10:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.11 CAT II Inactive	UNDERWATER TELEVISION SYSTEM	S-TRON	DUCTS I S-TRON DWG 110000 REV A	NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.  SYSTEM INCLUDES SURFACE CONTROL UNIT (SCU), CAMERA, LIGHT AND UMBILICAL. <i>Updated on: 8/14/2012 8:38:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.12 CAT II Inactive	UNDERWATER TELEVISION SYSTEM	KONGSBERG MARITIME	SEA BEE II,2D, CM-55	NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE.  <b>* Admin Comments :</b> 4/26/12 - Kongsberg Simrad became

				Kongsberg Maritime. Updated on: 8/14/2012 11:53:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.13 CAT II Active	LIGHT METER	SEKONIC	N/A	General Notes: (1) (2) (5) Apply. BATTERY POWERED  * <b>Admin Comments</b> : UPDATE FOR ADDITION OF GENERAL NOTE 5 Updated on: 3/26/2021 12:07:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.14 CAT II Inactive	UNDERWATER TELEVISION SYSYEM	MPK-60	UNDERWATER TV SYSTEM SELF CONTAINED	General Notes: (3) Apply. No longer made and supported by Sony Updated on: 12/11/2020 11:11:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.15 CAT II Inactive	DC POWER SUPPLY COMMERCIALY AVAILABLE	SONNICHEN	A-200	N/A Updated on: 10/12/2023 2:17:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.16 CAT II Active	DC POWER SUPPLY, COMMERCIAL	ACOPIAN & ADVANCED TECHNOLOGY RESEARCH	ACOPIAN PN W184Y1500, U28Y1500 ATR PN IS PS-28-15-M	N/A Updated on: 9/24/2010 12:26:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.17 CAT II Inactive	UNDERWATER BORESCOPE, NAVSEA CONTROLLED ITEM	NAVSEA	NAVSEA DWG 6697610 ESSM #UW 0324 ESSM #UW 0324A	General Notes: (1) (3) (4) (5) Apply. 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: 12/11/2020 1:27:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.18 CAT II Inactive	PIPE INSPECTION EQUIPMENT, COMMERCIAL	DEESEA POWER AND LIGHT SEESNAKE	KD-VARIOUS DEPENDENT ON REEL LENGTH	General Notes: (1) (4) (5) Apply. 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: 12/11/2020 1:27:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.19 CAT II Inactive	UNDERWATER TELEVISION SYSTEM, COMMERCIAL	KONGSBERG MARITIME <b>Name</b> : KARL LUTTRELL <b>Phone</b> : 734-223-0977	MODEL OE 9021	CONTROL UNIT MODEL OE 1261 MUST BE ORDERED WITH DUCTS II LINE INSULATION MONITOR (PART NUMBER 1263- 6011) WITH TRIP CURRENT SETTINGS IAW ANU STANDARDS FOR DUCTS II. THE CONTROL UNIT MUST ALSO BE ORDERED WITH A MODIFIED POWER INPUT CORD FITTED WITH GFCI PROTECTOR (PART NUMBER 302-0053-00)  * <b>Admin Comments</b> : 4/26/12 - Kongsberg Simrad became Kongsberg Maritime. 6/10/2020 - Added POC info. Updated on: 10/12/2023 2:16:00 PM

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.20 CAT II Inactive	UNDERWATER TELEVISION SYSTEM, COMMERCIAL	OUTLAND TECHNOLOGY, INC. <b>Name :</b> <i>Buddy Mayfield</i> <b>Phone :</b> 985.847.1104	UWS-3010 UWS-3010D	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.  <b>* Admin Comments :</b> 08/20/09 - This item is no longer manufactured. See AMU item 9.2.23. <i>Updated on: 8/20/2009 10:48:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.21 CAT II Inactive	UNDERWATER TELEVISION SYSTEM, COMMERCIAL	OUTLAND TECHNOLOGY, INC. <b>Name :</b> <i>Buddy Mayfield</i> <b>Phone :</b> (985) 847-1104 <b>Email :</b> <i>bmayfield@outlandtech.com</i>	UWS-7010	General Notes: <b>(1) (3) (4) (5)</b> Apply. UWS-7010 PROVIDES CAMERA AND LIGHT VIA UMBILICAL FOR ONE DIVER. HIGHLY PORTABLE PELICAN CASE CONFIGURATION. AC POWERED, INTERNAL ELECTRICAL PROTECTION.  Moved to inactive due to parts obsolescence and not longer manufacture or supported by OEM (Outlander). ANU Item still approved for continued use.  <b>* Admin Comments :</b> UPDATE FOR ADDITION OF GENERAL NOTE 5  <i>Moved to Inactive 7/7/2022 NDCM Dumke</i>  <i>Updated on: 7/7/2022 11:13:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.22 CAT II Inactive	UNDERWATER TELEVISION SYSTEM, COMMERCIAL	OUTLAND TECHNOLOGY, INC. <b>Name :</b> <i>Buddy Mayfield</i> <b>Phone :</b> (985) 847-1104 <b>Email :</b> <i>bmayfield@outlandtech.com</i>	UWS-7550	General Notes: <b>(1) (3) (4) (5)</b> Apply. 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.  Moved to inactive due to parts obsolescence and not longer manufacture or supported by OEM (Outlander). ANU Item still approved for continued use.  <b>* Admin Comments :</b> Moved to inactive 7/7/2022 NDCM Dumke <i>Updated on: 7/7/2022 11:14:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.23 CAT II Inactive	UNDERWATER TELEVISION SYSTEM, COMMERCIAL	OUTLAND TECHNOLOGY, INC. <b>Name :</b> <i>Buddy Mayfield</i> <b>Phone :</b> 985.847.1104	UWS-3210 UWS-3210D	General Notes: <b>(1) (3) (4) (5)</b> Apply. 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.  <b>* Admin Comments :</b> Added to the AMU list 08/20/09. This item is an upgrade to AMU item 9.2.20 (UWS-3010 & UWS 3010D).  UPDATE FOR ADDITION OF GENERAL NOTE 5 - Inactivated 25JAN22 - LCDR Irwin <i>Updated on: 1/25/2022 1:26:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

6.2.24 CAT II Active	UNDERWATER VIDEO SYSTEM, ESSM CONTROLLED ITEM	ESSM	ESSM # UW 2235	N/A  <b>* Admin Comments :</b> 7/12/10 - Added to the AMU List. Updated on: 9/24/2010 12:31:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.25 CAT II Inactive	FIBERSCOPE, COMMERCIAL	GENERAL ELECTRIC <b>Name :</b> John Percival <b>Phone :</b> 315.554.2069	EVEREST XLG3 EVEREST XL PRO MENTOR VISUAL IQ MVIQAP61300-9162 (66 FSW Probe)	General Notes: <b>(1) (2) (3) (4) (5)</b> Apply. APPROVED WITH A DEPTH LIMITATION OF 33 FSW (2 ATA) AS STATED IN THE SPECIFICATIONS. The MVIQAP61300-9162 probe is approved to 66 FSW (3 ATA)  <b>* Admin Comments :</b> 7/13/10 - Added to the AMU List. 2/27/2015 - Combined XLG3 and XL Pro into one item. Added MViQ.  10/31/2019 - Added MVIQAP61300-9162 Probe for up to 66 FSW Updated on: 12/11/2020 1:30:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.27 CAT II Inactive	UNDERWATER ELECTRICAL FIELD DETECTOR, COMMERCIAL	FLUID KINETICS	UEFD-001	FORMERLY "WESTERN INSTRUMENTS" Updated on: 12/15/2020 10:42:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.28 CAT II Inactive	UNDERWATER CONCRETE INSPECTION SYSTEM	NFESC	REBAR LOCATOR REBOUND HAMMER ULTRASONIC TEST SYSTEM  IAW NFESC 93-8-1F	PORTABLE GROUND FAULT INTERRUPTER REQUIRED.  <b>* Admin Comments :</b> no longer used Updated on: 12/28/2020 9:09:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.29 CAT II Active	DIVER VIDEO DISPLAY, NAVSEA CONTROLLED ITEM	SOUND METRICS CORPORATION	ADVANCED HEAD MOUNTED DISPLAY S3D-MA-023	CONTROLLED ITEM UNDER COMNAVSEASYS COM PMS NSW COGNIZANCE.  FOR SDV SOF USE ONLY.  <b>* Admin Comments :</b> 08/08/12 - Added to the AMU List. Updated on: 8/17/2012 7:00:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.30 CAT II Inactive	UNDERWATER FIBERSCOPE, COMMERCIAL	ZIBRA CORPORATION <b>Name :</b> Jesse Plouffe jesse@zibracorp.com <b>Phone :</b> 508-636-6606	ZX4.4500.00FX6KIT	APPROVED FOR USE TO A DEPTH OF 50 FSW  <b>* Admin Comments :</b> 1/28/2014 - Updated model number to include 'KIT' Updated on: 12/15/2020 10:51:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.31 CAT II Inactive	UNDERWATER VIDEO SYSTEM, COMMERCIAL	OUTLAND TECHNOLOGY, INC. <b>Name :</b> Buddy Mayfield <b>Phone :</b> 985-847-1104 <b>Email :</b> bmayfield@outlandtech.com	UWS-3310 UWS-3310/D UWS 3310/dc	General Notes: <b>(1) (3) (4) (5)</b> Apply. UWS-3310 PROVIDES CAMERA AND LIGHT VIA UMBILICAL FOR ONE DIVER. USW- 3310/D PROVIDES CAMERA AND LIGHT VIA UMBILICALS FOR TWO DIVERS. AC POWERED, INTERNAL ELECTRICAL PROTECTION. UWS 3310/dc PROVIDES CANERA AND LIGHT VIA UMBILICAL FOR ONE DIVER AND IS AC AND DC POWERED.  <b>* Admin Comments :</b> UPDATE FOR ADDITION OF GENERAL NOTE 5 - Inactivated 25JAN22 - LCDR Irwin Updated on: 1/25/2022 1:28:00 PM

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.32 CAT II Active	UNDERWATER VIDEO SYSTEM, COMMERCIAL	OUTLAND TECHNOLOGY, INC.  <b>Name :</b> Buddy Mayfield <b>Phone :</b> 985-847-1104 <b>Email :</b> bmayfield@outlandtech.com	UWS-3410 UWS-3410/DC	General Notes: <b>(1) (3) (4) (5)</b> Apply. 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.  UWS 3410/DC: PROVIDES CAMERA AND LIGHT VIA UMBILICAL FOR ONE DIVER AND IS AC AND DC POWERED.  <b>* Admin Comments :</b> UPDATE FOR ADDITION OF GENERAL NOTE 5 - Inactivated UWS-3410/D 22JAN22 - LCDR Irwin Updated on: 7/7/2022 1:37:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.33 CAT II Active	UNDERWATER VIDEO SYSTEM, COMMERCIAL	ROVSCO, INC. <b>Name :</b> Jessica Mckenney <b>Phone :</b> 281-858-6333	2-Diver Video System w/ SSD DVR RVS-400-17	General Notes: <b>(1) (3) (4) (5)</b> Apply.  <b>* Admin Comments :</b> UPDATE FOR ADDITION OF GENERAL NOTE 5 Updated on: 3/26/2021 12:11:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.34 CAT II Active	UNDERWATER VIDEO CAMERA	OCEAN SYSTEMS INC. <b>Name :</b> JASON WHITTLE <b>Phone :</b> 425-258-0778 x204 <b>Email :</b> jason@oceansystemsinc.com	Delta Diver U.V.C.	General Notes: <b>(1) (3) (4) (5)</b> Apply.  <b>* Admin Comments :</b> Added to ANU 3/24/17  UPDATE FOR ADDITION OF GENERAL NOTE 5 Updated on: 3/26/2021 12:11:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.35 CAT II Active	VIDEOSCOPE/FIBERSCOPE GENERAL	VARIOUS <b>Name :</b> ANU Program Manager <b>Phone :</b>	DIVER/COMMAND PREFERENCE	General Notes: <b>(1) (2) (3) (4) (5)</b> Apply. CONTACT NAVSEA 00C PROGRAM MANAGER IF YOU HAVE QUESTIONS RELATED TO GENERAL NOTES  <b>* Admin Comments :</b> 11 Dec 2020 - Added by LCDR Hyatt  UPDATE FOR ADDITION OF GENERAL NOTE 5 Updated on: 3/26/2021 12:12:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.2.36 CAT I Active	UNDERWATER VIDEO SYSTEM, COMMERCIAL	OUTLAND TECHNOLOGY INC <b>Name :</b> Buddy Mayfield <b>Phone :</b> 985-847-1104 <b>Email :</b> bmayfield@outlandtech.com	UWS-3510 UWS-3510/D	General Notes: <b>(1) (3) (4) (5)</b> Apply. UWS-3510: PROVIDES CAMERA AND LIGHT VIA UMBILICAL FOR ONE DIVER AND IS AC POWERED WITH INTERNAL ELECTRICAL PROTECTION.  UWS-3510/D: PROVIDES CAMERAS AND LIGHTS VIA UMBILICAL FOR TWO DIVERS AND IS AC POWERED WITH INTERNAL ELECTRICAL PROTECTION.  BOTH MODELS PROVIDE CAMERA HD FOCUS AND DEFINITION CAPABILITIES WITH UPDATED 1TB HDD DVR SYSTEMS. Updated on: 7/7/2022 2:15:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

6.2.37 CAT I Active	UNDERWATER VIDEO SYSTEM, COMMERCIAL	OUTLAND TECHNOLOGY, INC. <b>Name</b> : Buddy Mayfield <b>Phone</b> : 985-847-1104 <b>Email</b> : bmayfield@outlandtech.com	CON-3700	General Notes: <b>(1) (2) (3) (4) (5)</b> Apply. CON-3700 provides integrated underwater video system with AMCON communications box for two divers.  <b>* Admin Comments</b> : Addition to ANU - 26Jan2023 NDCM DUMKE
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### 6.3 NAVIGATION & LOCATION EQUIPMENT

#### General Notes

**(1)**: 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.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.1 CAT II Active	DIVER OPERATED CABLE TRACKING SYSTEM	FLUID KINETICS	CTP 250 UNDERWATER TRACKING PROBE FBSI - 0.5 SHORE BASED SIGNAL INJECTOR	<b>* Admin Comments</b> : 09/24/10 - Fluid Kinetics formerly Western Instruments".  Updated on: 7/5/2012 2:54:00 PM
6.3.2 CAT II Active	LOCATOR, BURIED PIPE AND CHAIN	NAVAL CIVIL ENGINEERING LAB (NCEL) OR COMMERCIAL	NFESC DWG 93-10-1F	Updated on: 7/5/2012 2:53:00 PM
6.3.3 CAT II Active	NAVIGATION SYSTEM	NFSEC OR COMMERCIAL	NAVAL CIVIL ENGINEERING LAB (NCEL) DWG 91-29-1F THRU 15F OR COMMERCIALY AVAILABLE	General Notes: <b>(1)</b> 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.  <b>* Admin Comments</b> : 6/9/2015 - Add general note 1 for guidance on the use of equipment containing lithium batteries. Updated on: 3/8/2023 5:44:00 PM
6.3.4 CAT II Active	UW PINGER/MARKER	VARIOUS	VARIOUS	General Notes: <b>(1)</b> Apply. Battery powered. Updated on: 3/8/2023 5:44:00 PM
6.3.5 CAT II Inactive	HAND HELD SONAR	FUTURONICS CORP.	JOINT ELECTRONICS TYPE DESIGNATION: AN/PQS-1D	Safe diving distances from transmitting SONAR are addressed in US Navy Diving Manual appendix 1A. Updated on: 10/12/2023 2:16:00 PM
6.3.6 CAT II Active	HAND HELD SONAR	RJE INTERNATIONAL (FORMERLY EFCOM)	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. <i>Updated on: 3/8/2023 5:46:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.7 CAT II Active	HAND HELD SONAR	GENERAL INSTRUMENTS	1100/5001 NON-MAG OR AN/PQS-2A	Safe diving distances from transmitting sonar are addressed in US Navy Diving Manual Appendix 1A. <i>Updated on: 3/8/2023 5:48:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.8 CAT II Active	DIVER HULL IMAGING AND NAVIGATION SYSTEM (DHINS), CONTROLLED ITEM	APPLIED REASEARCH LABORATORY, UNIVERSITY OF TEXAS <i>Name : Jeff Ruckel</i> <i>Phone : 512.835.3964</i>	DHINS	Controlled item under COMNAVSEASYS COM PMS EOD cognizance.  Basic level operator training required. DHINS training for a basic 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.  <i>* Admin Comments : 12/10/09 - Added to the AMU list.</i> <i>Updated on: 3/8/2023 5:49:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.9 CAT II Active	DIVER HELD NAVIGATION UNIT, CONTROLLED ITEM	NAVSEA <i>Name : Dominic Gabreleski</i> <i>Phone : 850.628.6626</i>	HYDROGRAPHIC MAPPING UNIT (H MU) MK 107, MOD 0	Controlled item under COMNAVSEASYS COM PMS NSW cognizance.  Also known as "DHU." Approved for use with SKC Powertech lithium ion battery, PN UI SLMSKP.  <i>* Admin Comments : 09/08/10 - Added to the AMU List.</i> <i>Updated on: 3/8/2023 5:52:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.10 CAT II Active	HAND HELD SONAR	SOUND METRICS CORPORATION	DIDSON DIVER HELD (DH)	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 li-batts@navy.mil.  Safe diving distances from transmitting SONAR are addressed in US Navy Diving Manual Appendix 1A.  <i>* Admin Comments : 10/05/11 - Added to the AMU List.</i> <i>04/04/12 - Added UHMD note.</i> <i>Updated on: 3/8/2023 5:57:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.11 CAT II Active	EMERGENCY TRANSPONDER, CONTROLLED ITEM	UCSD-SIO	POPUP CASE MK1/CRUMB MK1	General Notes: (1) Apply. Controlled item under COMNAVSEASYS COM PMS NSW cognizance. For SOF use only.  <i>* Admin Comments : 05/01/12 - Added to the AMU List.</i> <i>Updated on: 3/8/2023 5:58:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

6.3.12 CAT II Active	HAND HELD SONAR, CONTROLLED ITEM	SHARK MARINE TECHNOLOGIES INC.	Navigator Delta Hand Held Sonar (HHS) and Guidance System (P/N: NVD0000)	<p>General Notes: <b>(1)</b> Apply. Controlled item under COMNAVSEASYS COM PMS 340 (NSW) cognizance. For SOF Use only.</p> <p>Authorized for use with the following accessories: SM Doppler Navigator System (P/N: NAVDNS), SM External NIMH Battery Pack (P/N: NBN0002-0), DNS cable Assembly (P/N: NDS0001-14), Blue View Sonar (P/N: P900-90 and P900-45), SM Floating GPS (P/N: GPSS0000) and extension kit (P/N: GPSX0001), pro-mag magnetometer (P/N: NOM0000), and Navigator Battery Charging Assembly (P/N: NBC0003).</p> <p>IAW NSMRL guidance, stand-off distance for all divers, regardless of diver dress, is 1 meter. Divers should not place their head or body in close proximity to the sonar head within the beam while it is operating.</p> <p>Contact COMNAVSEASYS COM PMS 340 (NSW) for configuration control</p> <p><b>* Admin Comments :</b> 02/28/12 - Approved for use. 12/11/13 - Added use of floating GPS and extension kit. 03/20/23 - Updated part numbers. (NDCM Dumke) Updated on: 3/20/2023 3:54:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.13 CAT II Active	DIVER DATA ACQUISITION COMMUNICATION AND DISPLAY (DACAD) SYSTEM	Monitoring Technologies (MonTech) New Zealand Limited  Distributed by ADS	DACAD-USN01-K-6DCS	<p>General Notes: <b>(1)</b> Apply. This equipment has been evaluated by NAVSEA 00C to determine its safe use by military trained divers only and not for its performance (i.e. no testing of location capabilities or bottle pressure accuracy). Some manufacturer's performance data is available.</p> <p>Authorized for use for no-decompression dives as a supplemental tool for monitoring diver's location, depth and bottle pressure only. Use of any dive computer function associated with this equipment for the purposes of monitoring a diver's decompression obligation is strictly prohibited.</p> <p>People can hear much higher frequency sounds underwater than they can in air. For safety reasons, do not turn the diver-worn diverside modem above level 6. Keep at least one yard away from the dunking transducer, and preferably far enough so that it is not louder than the diverside modem. If the sounds from either device are uncomfortably loud, then cease use of the system immediately.</p> <p><b>* Admin Comments :</b> 12/1/2014 - Re-activated on AMU list. 12/12/2014 - Added ADS as distributor. 2/18/2015 - Updated note for clarification on prohibiting use as a dive computer. Updated on: 3/8/2023 6:01:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.14 CAT II Active	DIVER TRACKING SYSTEM	Azimuth, Inc.	DIVER6	<p>General Notes: <b>(1)</b> Apply. This equipment has been evaluated by NAVSEA 00C to determine its safe use by military trained divers only and not for its performance (i.e. no testing of location capabilities). Some manufacturer's performance data is available.</p>



				<p>Authorized for use for no-decompression dives as a supplemental tool for monitoring diver's location, depth and water temperature only. Use of any dive computer function associated with this equipment for the purposes of monitoring a diver's decompression obligation is strictly prohibited.</p> <p>People can hear much higher frequency sounds underwater than they can in air. For safety reasons, keep at least one yard away from the dunking transducer, and preferably far enough so that it is not louder than the diverside modem. If the sounds from either device are uncomfortably loud, then cease use of the system immediately.</p> <p><b>* Admin Comments :</b> 2/18/2015 - Added to AMU List Updated on: 3/8/2023 6:02:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.15 CAT II Active	EVOLOGICS SWEEP-SPREAD CARRIER (S2C) M & R SERIES UNDERWATER ACOUSTIC MODEMS	EVOLOGICS <b>Name :</b> Eric Munday <b>Phone :</b> 206-963-6369 <b>Email :</b> eric@subsea2020.com	S2C M 18/34 SERIES S2C R 18/34 SERIES	<p>Divers should keep pinger as far away as possible from the divers head.</p> <p>Pingers power should be reduced as much as possible while still meeting mission requirements.</p> <p>3MM MINIMUM HOOD REQUIRED IF PINGER IS ATTACHED TO THE DIVER/S.</p> <p>IF THE SOUNDS FROM DEVICE IS UNCOMFORTABLY LOUD, THEN CEASE USE OF THE SYSTEM IMMEDIATELY.</p> <p><b>* Admin Comments :</b> 10/31/2019 - Added to ANU Updated on: 3/8/2023 6:04:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.16 CAT II Active	MS-1000	KONIGSBURG MARITIME <b>Name :</b> KARL LUTTRELL <b>Phone :</b> 734-223-0977	MS-1000 SIDE SCAN SONAR	<p>General Notes: (1) Apply. Divers should maintain a one meter (3 ft) standoff from the MS-1000 while active. When not hard hat diving, divers are required to wear a hood (2 mm minimum) when MS-1000 is active.</p> <p><b>* Admin Comments :</b> 02/21/2020 - ADDED BY LCDR HYATT Updated on: 3/8/2023 6:05:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.17 CAT II Active	DIVERS AUGMENTED VISION DISPLAY (DAVD)	CODA OCTOPUS <b>Name :</b> Blair Cunningham <b>Phone :</b> 407-735-2402 <b>Email :</b> blair.cunningham@codaoctopus.com	GEN 3	<p>General Notes: (1) Apply. - Approved to 165 fsw. - Divers should maintain a one meter (3 ft) standoff from the CODA, while it is active. - Replacing the KM37 faceplate, comms penetrator and air bar with the DAVD faceplate, penetrator and air bar is authorized.</p> <p>Gen 2 - Approved for all air diving operations in accordance with the US Navy Diving Manual.</p> <p><b>* Admin Comments :</b> 02/24/2020 - ADDED BY LCDR HYATT 03/10/2020 - ADDED KM37 FACEPLATE, COMMS PENETRATOR AND AIR BAR SWAP - LCDR HYATT 02/19/2020 - ADDED GEN 2 - MATT P 08/31/2023 - ADDED GEN 3 NDCM Dumke Updated on: 8/31/2023 7:12:00 PM</p>

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.18 CAT II Active	ECHOSCOPE 4G C500, ECHOSCOPE 4G C500 SURFACE, UIS RAPID DEPLOYMENT	CODA OCTOPUS <b>Name</b> : Blair Cunningham <b>Phone</b> : 407-735-2402 <b>Email</b> : blair.cunningham@codaoctopus.com	ECHOSCOPE 4G C500 (DUAL AND XD), ECHOSCOPE 4G C500 SURFACE (DUAL AND XD), UIS RAPID DEPLOYMENT 3D, UIS RAPID DEPLOYMENT 4G	General Notes: (1) Apply. Divers should maintain a one meter (3 ft) standoff from active CODA devices. Also, when not hard hat diving, divers are required to wear a hood (2 mm minimum) while working around active CODA devices.  <b>* Admin Comments</b> : 02/21/2020 - ADDED BY LCDR HYATT Updated on: 8/10/2023 4:28:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.19 CAT II Active	RNAV2-4600-101; AP2 Diver ASSIST-4600-122; S2 (SINGLE FREQ)-4600-104; S2 (DUEL FREQ)-4600-102	STIDD Systems Inc. <b>Name</b> : Dave Wilberding <b>Phone</b> : 631-477-2400 ext. 158 <b>Email</b> : dwilberding@stidd.com	RNAV2 NAVIGATION SYSTEM	General Notes: (1) Apply. RNAV2 & S2 can be used in conjunction with or independent of ready STIDD DPDs. See ANU item 1.8.8. Hoods are required for use of the RNAV2 and S2 SONARs. Do not point the bottom of the RNAV2 (DVL) or the front of the S2 SONAR within one meter of other divers.  <b>* Admin Comments</b> : 19 Mar 2020 - Added by LCDR Hyatt Updated on: 3/8/2023 6:13:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.20 CAT II Active	BP01068 (ARTEMIS PRO), BP01032 (M750D DUEL FREQUENCY), BP01042 (M1200D DUEL FREQUENCY)	BLUEPRINT SUBSEA <b>Name</b> : James Barratt <b>Phone</b> : +44 (0) 1539 531536 <b>Email</b> : enquiries@blueprintsubsea.com	ARTEMISPRO	Approved to a max depth of 130 fsw. Hoods are suggested (not required) while using this device. Do not point active SONAR toward other divers.  <b>* Admin Comments</b> : 08 JUN 2020 - LCDR HYATT item added. Updated on: 3/8/2023 6:18:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.3.21 CAT I Active	HANDHELD SONAR, CONTROLLED ITEM	SHARK MARINE TECHNOLOGIES INC. <b>Name</b> : Jim Honey <b>Phone</b> : 877-977-4275 <b>Email</b> : jhoney@sharkmarine.com	Navigator HHS Delta (PN: NVD0000)	General Notes: (1) Apply. - Controlled item under COMNAVSEASYS COM PMS 408 (EOD) cognizance. For EOD Use only.  - Authorized for use with the following accessories: SM Doppler Navigator System (PN: NAVDNS), SM External NIMH Battery Pack (PN: NBN0002-0), DNS cable Assembly (PN: NDS0001-14), Floating GPS (PN: FGPS0000), Subnet Acoustic (PN: NAVSUB), Surface Flip GPS (PN: SGPS1000), NCAM 3000 Camera (PN: NCAM3000), M900-2250-S 130/45-Mk2 SONAR (PN: NVSS2130- 0), SLA Lo-Mu Battery  - If Subnet Acoustic (P/N: NAVSUB) accessory item is used, deepest system depth is limited to 245 FSW due to testing data. All other accessories can be utilized to 300 fsw.  - IAW NSMRL guidance, stand-off distance for all divers, regardless of diver dress, is 1 meter. Divers should not place their head or body in close proximity to the sonar head within the beam while operating.  - Contact COMNAVSEASYS COM PMS 408 (EOD) for configuration control.

## 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 hydro blast equipment. Divers shall not be exposed to a direct stream of high pressure water flow.

(2): Authorized for hydro blasting operations IAW chapter 27 of the UWSH manual, S0600-AA-PRO-270.

(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 hydro blast equipment being utilized.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.1 CAT II Active	WATER JET CLEANING, HIGH PRESSURE PUMP	GARDNER DENVER (BUTTERWORTH OR WEATHERFORD)	WBD-150N IAW NAVSEA DWG 6699567.	General Notes: (1) (2) (3) Apply. Hearing protection required while operating.  For high pressure, high flow operations (5,000-10,000 psi & up to 20 gpm). Do not exceed 11,000 psi while operating. Do not allow engine to exceed 2150 rpm.  <i>Updated on: 11/22/2022 8:35:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.2 CAT II Active	WATER JET CLEANING, PRESSURE WASHER	MI-T-M CORPORATION	HS-3006-DMKO IAW NAVSEA DWG 6699437.	General Notes: (1) (2) (3) Apply. Hearing protection required while operating.  For low pressure, low flow operations (3,000 PSI & 4.76 GPM).  <b>* Admin Comments :</b> 10/27/10 - Added to the AMU List. <i>Updated on: 1/17/2023 4:02:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.3 CAT II Active	WATER JET CLEANING, HIGH PRESSURE ZERO THRUST GUN	GARDNER DENVER (BUTTERWORTH)	31-09300-524 IAW NAVSEA DWG 6699567	General Notes: (1) (2) (3) Apply. Authorized for use with ANU item # 6.4.1 only.  Diver required to wear KM-37 or KM-97 for hydroblasting operations. Maximum permissible operating time per diver per 24 hours is 85 minutes.  <b>* Admin Comments :</b> 05/05/2020 - LCDR Hyatt updated authorized diving helmets. <i>Updated on: 1/12/2023 7:59:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.4 CAT II Active	WATER JET CLEANING, HIGH PRESSURE FLEXIBLE LANCE	GARDNER DENVER (BUTTERWORTH)	431516-037 IAW NAVSEA DWG 6699567	General Notes: (1) (2) (3) Apply. Authorized for use with ANU item # 6.4.1 only.  Diver required to wear KM-37 or KM-97 for hydroblasting operations.

				1/2" OD, 37' LENGTH.  <i>* Admin Comments : 05/05/2020 - LCDR Hyatt updated authorized diving helmets.</i> <i>Updated on: 1/12/2023 7:59:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.5 CAT II Active	WATER JET CLEANING, HIGH PRESSURE FLEXIBLE LANCE	JETSTREAM	MINI MOLE 51498-XX IAW NAVSEA DWG 6699567  *XX DENOTES LENGTH	General Notes: <b>(1) (2) (3)</b> Apply. Authorized for use with ANU item # 6.4.2.  Diver required to wear KM-37 or KM-97 for hydroblasting operations.  <i>* Admin Comments : 10/27/10 - Verified available from Jetstream.</i> <i>05/05/2020 - LCDR Hyatt updated authorized diving helmets.</i> <i>Updated on: 1/12/2023 8:00:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.6 CAT II Active	WATER JET CLEANING, HIGH PRESSURE FLEXIBLE LANCE	JETSTREAM	PN 51020-XX  *XX DENOTES LENGTH	General Notes: <b>(1) (2) (3)</b> Apply. Authorized for use with ANU item # 6.4.2.  Diver required to wear KM-37 or KM-97 for hydroblasting operations.  <i>* Admin Comments : 10/27/10 - Added to the AMU List.</i> <i>05/05/2020 - LCDR Hyatt updated authorized diving helmets.</i> <i>Updated on: 1/12/2023 8:00:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.7 CAT II Inactive	WATER JET CLEANING, HIGH PRESSURE TOOL	DS-JETPAC (NCEL-MODIFIED)	N/A	General Notes: <b>(1)</b> Apply. Diver required to wear ¼" neoprene wet hood. Max permissible operating time per diver per 24 hours is 2 hours 45 minutes.  <i>* Admin Comments : Moved status to Inactive 27 Jan 2023 - NDCM Dumke</i> <i>Updated on: 1/27/2023 5:52:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.8 CAT II Inactive	WATER JET CLEANING, CAVITATING TOOL	SEACO, INC.	CAVIJET 1-A & 1-B	General Notes: <b>(1)</b> Apply. Diver required to wear ¼" neoprene wet hood. Max permissible operating time per diver per 24 hours is 1 hour.  <i>* Admin Comments : Moved status to Inactive 27 Jan 2023 - NDCM Dumke</i> <i>Updated on: 1/27/2023 5:53:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.9 CAT II Inactive	WATER JET CLEANING, CAVITATING TOOL	SEACO, INC.	CAVIJET 1-B MOD 1	General Notes: <b>(1)</b> Apply. Diver required to wear ¼" neoprene wet hood. Max permissible operating time per diver per 24 hours is 1 hour and 40 minutes.  <i>* Admin Comments : Moved status to Inactive 27 Jan 2023 - NDCM Dumke</i> <i>Updated on: 1/27/2023 5:53:00 PM</i>

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.10 CAT II Inactive	WATER JET CLEANING, CAVITATING TOOL	DAEDALEAN	CONCAVER DAI-800-D-100A	<p>General Notes: (1) Apply. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE.</p> <p>DIVER REQUIRED TO WEAR 1/4" NEOPRENE WET HOOD. MAX PERMISSIBLE OPERATING TIME PER DIVER PER 24 HRS IS 1 HR 50 MIN.</p> <p>USE TOOL WITH EATON SYNDFLEX 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).</p> <p>PROTECTIVE GLOVES ARE RECOMMENDED, DEPENDING ON OPERATING CONDITIONS.</p> <p><i>Updated on: 8/16/2012 12:44:00 PM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.11 CAT II Inactive	WATER JET CLEANING, CAVITATING TOOL	SIMPSON	2245 C	<p>General Notes: (1) Apply. NO LONGER MANUFACTURED NOR SUPPORTED BUT AUTHORIZED FOR CONTINUED USE.</p> <p>PORTABLE, GASOLINE-POWERED FOR LIGHT CLEANING.</p> <p><i>Updated on: 7/5/2012 2:17:00 PM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.12 CAT II Active	WATER JET CLEANING, CAVITATING TOOL	CAVIDYNE, LLC	CAVIBLASTER LG 1620	<p>General Notes: (1) Apply. Authorized for in-water use with the following permissible exposure limits: 101 minutes while hooded &amp; 26 minutes (KM-37 or KM-97 helmeted). Not authorized for use while unhooded.</p> <p>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.</p> <p><b>* Admin Comments :</b> 10/15/10 - Added to the AMU List. 05/05/2020 - LCDR Hyatt updated authorized diving helmets.</p> <p><i>Updated on: 12/7/2022 6:51:00 PM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.13 CAT II Inactive	WATER JET CLEANING, HIGH PRESSURE TOOL	HIGH PRESSURE PARTEK	3109300524 IAW NCSC DWG 5368233	<p>General Notes: (1) (2) Apply. Diver required to wear a ¼ " neoprene wet hood. For the zero degree nozzle, the maximum permissible operating time per diver per 24 hours is 50 minutes. For the 15 degree nozzle, the maximum permissible operating time is 2 hours and 50 minutes.</p> <p><b>* Admin Comments :</b> Moved status to Inactive 27 Jan 2023 - NDCM Dumke</p> <p><i>Updated on: 1/27/2023 5:53:00 PM</i></p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.4.14 CAT II Inactive	WATER JET CLEANING, HIGH PRESSURE TOOL	FLOW INDUSTRIES	<p>MODEL 12 (NCEL MODIFIED)</p> <p>* XX DENOTES LENGTH</p>	<p>General Notes: (1) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR CONTINUED USE.</p> <p>DIVER REQUIRED TO WEAR 1/4" NEOPRENE WET HOOD. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HRS IS 2 HRS 45 MIN.</p>

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
<b>6.4.15</b> <b>CAT II</b> <b>Active</b>	WATER JET CLEANING, CAVITATING TOOL	CAVIDYNE, LLC	CAVIBLASTER HG 1222	<p>General Notes: <b>(1)</b> Apply. Authorized for in-water use with the following permissible exposure limits: 85 minutes while hooded &amp; 22 minutes (KM-37 or KM-97 helmeted). Not authorized for use while unhooded.</p> <p>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.</p> <p><b>* Admin Comments :</b> 07/17/12 - Added to the AMU List.</p> <p>05/05/2020 - LCDR Hyatt updated authorized diving helmets. Updated on: 12/7/2022 7:03:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
<b>6.4.16</b> <b>CAT I</b> <b>Active</b>	WATER JET CLEANING, HIGH PRESSURE NON-ABRASIVE CAVITATING TOOL	DYNAFLOW <b>Name :</b> Dr. Georges L. Chahine <b>Phone :</b> 301-604-3688 <b>Email :</b> glchahine@dynaflow-inc.com	NADT/10k-30g-2n	<p>General Notes: <b>(1) (3)</b> Apply. Observe 50 minute permissible exposure limit (PEL) in a helmeted diver at an operating pressure of 9,000 PSI. Additional PELs, for various operating pressures are pending approval.</p> <p>Inspect silencer/shroud prior to each use and replace if damaged or worn.</p> <p><b>* Admin Comments :</b> 06 DEC 2019 - ADDED BY LCDR HYATT Updated on: 12/7/2022 7:09:00 PM</p>

## 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 percussive 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 (series), Underwater Ship Husbandry Manual.

**(3):** Hydraulic 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 IAW NAVSEA Underwater Ship Husbandry Manual CHAPTER 28, S0600-AA-PRO-290, appendix B, and 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.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.5.43 CAT II Active	HYDRAULIC POWERED ROTARY HAND TOOLS	VARIOUS	VARIOUS	General Notes: (1) (2) (4) (5) (6) (7) (8) Apply. Rotary hand tools include: drills (except impact type), grinders and saws. Any commercially available underwater hydraulic powered rotary hand tool that meets the requirements provided in the applicable general notes is authorized for military use. Additional restrictions provided herein as applicable.  All similar hydraulic powered tools previously listed on the ANU are still authorized for use under this category control number.  For grinders, the maximum cumulative operating times per diver per 24 hours is: Mk 20, 30 minutes; KM-97 and KM 37 NS, 3 hours and 22 minutes.  <i>* Admin Comments : 8/20/2014 - added to AMU List</i>  <i>05/05/2020 - LCDR Hyatt updated authorized diving helmets.</i> <i>Updated on: 12/7/2022 6:30:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.5.44 CAT I Active	HYDRAULIC POWERED RECIPROCATING HAND TOOLS	VARIOUS	VARIOUS	General Notes: (1) (2) (4) (5) (6) (7) (8) Apply.  <i>* Admin Comments : 9/3/2014 - Added to AMU List</i> <i>Updated on: 9/3/2014 4:06:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

6.5.45 CAT II Active	HYDRAULIC POWERED IMPACT HAND TOOLS	VARIOUS	VARIOUS	<p>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 commercially 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.</p> <p>All similar hydraulic powered tools previously listed on the ANU are still authorized for use under this category control number.</p> <p>For chipping hammers, divers are required to wear ¼ inch neoprene hood. Maximum permissible operating time per diver per 24 hours is 3 hours and 40 minutes.</p> <p>For impact wrenches, the maximum cumulative operating times per diver per 24 hours is: Mk 20, 40 minutes; KM 97 and KM 37 NS, 1 hour and 25 minutes.</p> <p>For hammer drills, the maximum cumulative operating times per diver per 24 hours is: Mk 20, 2 hours and 9 minutes; KM 97 and KM 37 NS, 2 hours and 20 minutes</p> <p>For sinker drills, the maximum cumulative operating times per diver per 24 hours is: Mk 20, 21 minutes; KM 97 and KM 37 NS, 2 hours and 49 minutes</p> <p>For breakers, the maximum cumulative operating times per diver per 24 hours is: Mk 20, 30 minutes; KM 97 and KM 37 NS, 1 hour.</p> <p><b>* Admin Comments :</b> 8/20/2014 - added to AMU List</p> <p>05/05/2020 - LCDR Hyatt updated authorized diving helmets. Updated on: 12/7/2022 6:33:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.5.46 CAT II Active	HYDRAULIC POWERED HOISTS	NAVSEA CONTROLLED	NAVSEA CONTROLLED	<p>General Notes: (4) (6) (7) (8) Apply. Hydraulic powered hoists are a NAVSEA ESSM controlled item. Contact NAVSEA 00C5 for further information.</p> <p><b>* Admin Comments :</b> 8/20/2014 - Added to AMU List Updated on: 12/7/2022 6:35:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.5.47 CAT II Active	HYDRAULIC POWERED SUBMERSIBLE PUMPS	VARIOUS	VARIOUS	<p>General Notes: (1) (2) (4) (6) (7) (8) Apply.</p> <p><b>* Admin Comments :</b> 8/20/2014 - Added to AMU List Updated on: 8/20/2014 2:02:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.5.48 CAT II Active	HYDRAULIC POWERED CYLINDERS	VARIOUS	VARIOUS	<p>General Notes: (1) (2) (4) (6) (7) (8) Apply. Hydraulic powered cylinders include: torque wrenches, spreaders and cutters. Any commercially available underwater hydraulic powered cylinder that meets the requirements provided in the applicable general notes is authorized for military use.</p> <p>ALL SIMILAR HYDRAULIC POWERED TOOLS PREVIOUSLY LISTED ON THE AMU ARE STILL AUTHORIZED FOR USE UNDER THIS CATEGORY CONTROL NUMBER.</p>



				<b>* Admin Comments :</b> 8/20/2014 - Added to AMU List Updated on: 12/7/2022 6:37:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.5.49 CAT II Active	HYDRAULIC MANUALLY OPERATED HAND TOOLS	VARIOUS	VARIOUS	General Notes: <b>(3) (4) (6) (7) (8)</b> Apply. Any commercially 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 ANU are still authorized for use under this category control number.  <b>* Admin Comments :</b> 8/20/2014 - Added to AMU List Updated on: 12/7/2022 6:37:00 PM

## 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.

**(3):** 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.

**(4):** ALL PNEUMATIC TOOLS SHALL BE MAINTAINED IAW NAVY PMS.

**(5):** FOR ADDITIONAL INFORMATION ON UNDERWATER PNEUMATIC TOOLS CONTACT NAVSEA 00C39.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.6.4 CAT II Active	PNEUMATIC POWERED HAND TOOLS	VARIOUS	VARIOUS	General Notes: <b>(1) (2) (3) (4) (5)</b> 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 ANU are still authorized for use under this category control number.  When working in an underwater dry chamber, pneumatic hand tools are authorized for use as applicable to support UWSH operations in accordance with NAVSEA S0600-AA-PRO-010 (series), underwater ship husbandry manual.

## 6.7 OTHER TOOLS & ACCESSORIES

### General Notes

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

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.1 CAT II Active	EXOTHERMIC CUTTING AND ELECTRIC ARC WELDING EQUIPMENT	VARIOUS	VARIOUS	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.  * <b>Admin Comments</b> : 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: 11/10/2022 5:46:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.2 CAT II Active	DIVER LIFT SYSTEM	NAVAL CIVIL ENGINEERING LAB (NCEL) OR DIVER PREFERENCE	DWG 93-6-1F OR COMMERCIAL EQUIVALENT  IAW NFESC DWG # 93-6-1F	General Notes: (1) Apply. Updated on: 7/5/2012 11:43:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.3 CAT II Active	MULTI FUNCTION TOOL SYSTEM (SEA WATER ACTUATED)	NAVAL CIVIL ENGINEERING LAB (NCEL)	MFTS	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: 11/10/2022 5:47:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.4 CAT II Inactive	STUD GUN (CARTRIDGE ACTUATED)	RAMSET	HD 200	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
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

6.7.5 CAT II Active	HIGH-PRESSURE UMBILICAL	VARIOUS	3VIV-04-106-106-120(1/4", 10' SYNFLEX) 3VIV-04-106-1200 (1/4", 100' SYNFLEX)	General Notes: <b>(1)</b> Apply. 10,000 PSIG. <i>Updated on: 7/5/2012 12:06:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.6 CAT II Active	NON METALLIC HOSE	VARIOUS	WIRE RE-INFORCED IAW MIL-H-24135	General Notes: <b>(1)</b> Apply. 3/4" 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.  <i>Updated on: 11/10/2022 5:48:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.7 CAT II Active	PRIMARY UMBILICAL, TWIN LINED	AEROQUIP	KEVLAR POLYESTER FC375-12	General Notes: <b>(1)</b> Apply. 3/4" 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.  <i>Updated on: 11/10/2022 5:49:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.8 CAT II Active	TOOL WHIP HOSE, NON-METALLIC	AEROQUIP	AE369-8 IAW MIL-M-24135	General Notes: <b>(1)</b> Apply. 1/2" diameter, 10' length, 2000 PSIG.  Hoses of longer lengths are permissible. Increasing hose lengths will result in additional hydraulic pressure loss and may impede hydraulic tool performance.  <i>Updated on: 11/10/2022 5:50:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.9 CAT II Active	TOOL WHIP HOSE, THERMOPLASTIC	AEROQUIP	FC373-8	General Notes: <b>(1)</b> Apply. 1/2" diameter, 10' length, 2000 PSIG.  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.  <i>Updated on: 11/10/2022 5:51:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.10 CAT II Active	STUD GUN (CARTRIDGE ACTUATED)	HILTI	UW10	General Notes: <b>(1)</b> Apply. Use of the stud 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 stud gun and the actuating cartridges.  <b>* Admin Comments :</b> 11/03/09 - Added to the AMU list <i>Updated on: 11/10/2022 5:52:00 PM</i>

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.11 CAT II Active	MK 20 WELDING VISOR	INTERSPIRO	PN 30580-01	General Notes: (1) Apply.  * <b>Admin Comments</b> : 2/16/2011 - Added to the AMU List. Updated on: 7/5/2012 12:12:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.12 CAT II Active	PAINT THICKNESS MEASURING SYSTEM	FISCHER TECHNOLOGY, INC.	FISCHER DELTASCOPE MP30	General Notes: (1) Apply.  * <b>Admin Comments</b> : 12/13/12 - Added to the AMU List.
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.13 CAT II Active	MARITIME EOD TRAINING, RANGING AND EVALUATION SYSTEM(METRES)	AIR AFFAIRS LIMITED	MK 52 MOD 0 Trainer, Test Set	This is a PMS-408 (EOD) controlled item, developed for evaluating diver performance when identifying and deactivating mines.  * <b>Admin Comments</b> : Added 1/14/2014 22Mar23 - Updated line item to correct MK and Mod (NDCM DUMKE)  Updated on: 3/22/2023 7:41:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.14 CAT II Active	UNDERWATER THICKNESS GAUGE	CYGNUS INSTRUMENTS LTD www.cygnusinstruments.com <b>Name</b> : Kathy Sanders <b>Phone</b> : 410-267-9771 <b>Email</b> : Kathy@cygnusinstruments.com	CYGNUS DIVE	* <b>Admin Comments</b> : 1/29/14 - Added
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.15 CAT II Active	STUD GUN (CARTRIDGE ACTUATED)	SUPRAMECA <b>Name</b> : Mark Benson <b>Phone</b> : (855) 838-2246 <b>Email</b> : mark.benson@tectacinc.com	SUPRAFX FIXING TOOL (PN 0150_001_000)	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.  * <b>Admin Comments</b> : 8/20/2014 - Added to AMU List Updated on: 11/10/2022 5:53:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.16 CAT II Inactive	PRESSURE TEST CHAMBER	NAVSEA CONTROLLED ITEM	NAVSEA DWG 8521185	General Notes: (1) Apply. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE.  THIS ITEM IS AVAILABLE THROUGH ESSM. CONTACT NAVSEA 00C3 FOR GUIDANCE.  * <b>Admin Comments</b> : 9/29/2014 - Added to AMU List 8/14/2015 - Changed status to Inactive. This item has become too costly to build. 2/8/2022 - Deleted, "USE IN ACCORDANCE WITH NAVSEA SS500-A4-OMI-010, TECHNICAL MANUAL FOR U.S. NAVY TEST CHAMBER" from item 6.7.16.  Updated on: 2/8/2022 4:37:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.17 CAT II Active	PRESSURE TEST CHAMBER	NAVSEA CONTROLLED ITEM	NAVSEA DWG 8663388	General Notes: (1) Apply. This item is available through ESSM. Contact NAVSEA 00C3 for guidance.  * <b>Admin Comments</b> : 8/14/2015 - Added to list. 2/8/2022 - Deleted "CONTACT NAVSEA 00C3 FOR ORDERING"

				from the Comments block of 6.7.17 and replace with "THIS ITEM IS AVAILABLE THROUGH ESSM. CONTACT NAVSEA 00C3 FOR GUIDANCE" which mirrors the note currently listed in item 6.7.16. Updated on: 11/10/2022 5:54:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.18 CAT I Active	PRESSURE TEST CHAMBER	GLOBAL SCUBA MANUFACTURING OF TEXAS LLC	MODEL 48310 (NAVY)	General Notes: (1) Apply. Model 48310 (Navy) has a modified chamber body that is serialized and incorporates a double fillet weld at the base plate.  Operate per manufacturer's technical manual.  <b>* Admin Comments :</b> 04/25/16 - ADDED TO AMU IAW AIG 02/08/22 - Deleted "NAVSEA CONTROLLED ITEM" from the Manufacturer block of item 6.7.18. Added "Operate per manufacturer's technical manual." to the Comments block of item 6.7.18. Deleted "COMMANDS SHALL CONTACT NAVSEA 00C PRIOR TO PROCUREMENT. REF AIG 16-10." from the Comments block of item 6.7.18. Updated on: 11/10/2022 5:54:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.19 CAT II Active	UNDERWATER POWER TOOLS, BATTERY POWERED	NEMO POWER TOOLS LTD <b>Name :</b> Becky Feinberg <b>Phone :</b> 408-663-8514 <b>Email :</b> beckyfeinberg@gmail.com	Nemo V2 Divers Drill - 50M, (DDV2-18V-3Li-50) Nemo V2 Divers Drill - 50M, (DDV2-18V-6Li-50) Nemo Hammer Drill - 50M, (HD-18V-3Li-50) Nemo Hammer Drill - 50M, (HD-18V-6Li-50) Nemo Impact Driver - 50M, (ID-18V-3Li-50) Nemo Impact Driver - 50M, (ID-18V-6Li-50) Nemo Impact Wrench - 50M, (IW-18V-3Li-50) Nemo Impact Wrench - 50M, (IW-18V-6Li-50) Nemo Angle Grinder - 50M, (AG-22-6Li-50-v2) Nemo Reciprocating Saw - 50M, (RS-18V-6Li-50-v2) Spare 18V 3Ah Li-ion Battery (TB-18V-3A) Spare 18V 6Ah Li-ion Battery (TB-18V-6A) Battery Charger XVE2100400	Depth limited to 164 fsw for all NEMO tools listed. - Nemo tools are only authorized for use with the specific battery and battery charger supplied with the tool. - In accordance with NAVSEA ltr 9077, 63/21-082 dtd 12 Jul 21, the Nemo 22v 6Ah V2 battery (TB-22V-6AH), 18 V 6 Ah (TB-18V-6A) and 18 V 3 Ah (TB-18V-3A) lithium-ion batteries are approved for use in Nemo underwater power tools per the specific manufacturers operations and maintenance manual. Approval is limited to use at all Naval shore facilities and underwater operations as well as the transportation of the batteries and tools on board Naval LCM-8 class platforms, range craft, and Military Sealift Command (MSC) host platforms to include T-ARS, T-ATF and T-ATS classes. - Nemo tools will be maintained IAW manufacturers operations and maintenance manual (a.k.a. Product Manual) and NAVSEA 00C3 "NEMO Tools Operational Use" supplemental information posted on the NAVSEA 00C3 Secure Site under the "Technical Guidance and Publications" tab, "Diving Equipment - ANU Miscellaneous" drop down menu.  <b>* Admin Comments :</b> Added to ANU 1/2/2018 07/31/2023 - Added Recip saw and angle grinder. Updated comments section (NDCM Dumke) Updated on: 8/1/2023 1:50:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
6.7.20 CAT II Active	BATHYCORROMETER	Buckleys (UVRAL) Ltd. <b>Name :</b> Craig Hoveman <b>Phone :</b> +44 0 7789 843 869 <b>Email :</b> craighoveman@buckley.co.uk	MK5 BathyCorrometer / Mk7 BathyCorrometer Pro	General Notes: (1) Apply. Operate and maintain IAW Buckleys BathyCorrometer Operating Instructions. Surface Display Unit is NOT authorized for Navy Use until further analysis is conducted.  <b>* Admin Comments :</b> Added by LCDR Irwin: follow up with OEM for SDU power info.

## 7.1 RECOMPRESSION CHAMBER EQUIPMENT

### NO General Notes

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.1 CAT I Active	BIBS MASK, COMMERCIAL	AVOX SYSTEMS INC.	803600-00/01/02/03/04	<p>FOR RECOMPRESSION CHAMBERS WITHOUT BUILT-IN OVERBOARD DUMP CAPABILITY. PART # 803600 (SERIES) REPLACES PREVIOUS PN 800931.</p> <p>AMRON INTERNATIONAL IS THE EXCLUSIVE DISTRIBUTOR FOR THIS ITEM.</p> <p><b>* Admin Comments :</b> 9/16/10 - Manufacturer Info updated. Amron only distributor.</p> <p>Updated on: 9/16/2010 3:26:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.2 CAT I Active	BIBS MASK, COMMERCIAL	AVOX SYSTEMS INC.	801238-00/01/02/03/04	<p>PN 801238-00 / 1H-4240-01-233-6639 IS A BASIC ASSEMBLY. PN 801238-01 / 1H-1940-01-219-6370 ASSEMBLY WITHOUT PRESSURE REGULATOR. OTHER COMBINATIONS 03/04 AUTHORIZED FOR COMMERCIAL PURCHASE.</p> <p>AMRON INTERNATIONAL IS THE EXCLUSIVE DISTRIBUTOR FOR THIS ITEM.</p> <p><b>* Admin Comments :</b> 9/16/10 - Manufacturer Info updated. Amron only distributor.</p> <p>Updated on: 9/24/2010 11:32:00 AM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.3 CAT I Active	BIBS MASK, COMMERCIAL	AVOX SYSTEMS INC.	VAK II, 803139-00-01/02/03/04/05, 803139-01-01/02/03/04/05	<p>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.</p> <p>AMRON INTERNATIONAL IS THE EXCLUSIVE DISTRIBUTOR FOR THIS ITEM.</p> <p><b>* Admin Comments :</b> 9/16/10 - Manufactuer Info updated. Amron only distributor.</p> <p>Updated on: 9/24/2010 11:34:00 AM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.4 CAT II Active	DUAL POWERED TRC COOLING SYSTEM	DIVEX <b>Name :</b> Graeme Clark <b>Phone :</b> 01224 740145	DPTRC-CS (SKID UNIT & UMBILICAL)	<p>N/A</p> <p>Updated on: 6/17/2010 1:32:00 PM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.7 CAT II Inactive	FIRE EXTINGUISHER, COMMERCIAL	AMRON INTERNATIONAL	MODEL 240	<p>AMRON MODEL 240 MANUFACTURED WITH RELIEF VALVE AND PRESSURE GAUGE SPECIFICALLY FOR HYPERBARIC SERVICE.</p> <p><b>* Admin Comments :</b> 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.</p> <p>Updated on: 6/16/2016 9:11:00 AM</p>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

7.1.8 CAT II Inactive	PRESSURE COMPARISON DEVICE, COMMERCIAL	3D INSTRUMENTS	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. <i>Updated on: 3/18/2004 12:21:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.9 CAT II Active	TEMP MONITOR, COMMERCIAL	ANALOX	ANALOX 4000 SERIES SA1A14B1P SA1A14A1P	SA1A14B1P READS IN DEGREES FAHRENHEIT. SA1A14A1P READS IN DEGREES CENTIGRADE. <i>Updated on: 3/18/2004 12:21:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.10 CAT II Inactive	TEMP MONITOR, COMMERCIAL	COLE PARMER	TYPE J-K8521-02	NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. <i>Updated on: 3/18/2004 12:21:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.11 CAT II Active	TEMP MONITOR, COMMERCIAL	ANALOGIC CORP.	MEASUROMETER II	N/A <i>Updated on: 3/18/2004 12:21:00 PM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.12 CAT II Inactive	COOLING VEST, COMMERCIAL	STEELE, INC.	SA1140-FR	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.  <i>* Admin Comments : 2/10/11 - Specific PN no longer manufactured.</i> <i>Updated on: 2/10/2011 8:25:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.13 CAT I Active	OXYGEN TREATMENT PANEL, COMMERCIAL	AMRON INTERNATIONAL & DIVING SUPPLY INC.	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)  <i>* Admin Comments : 7/15/2014 - Updated manufacturer info.</i> <i>Updated on: 6/10/2020 11:47:00 AM</i>
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.14 CAT II Active	CHEM LIGHTS, COMMERCIAL	CYALUME (FORMERLY 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.

				<b>* Admin Comments :</b> 6/10/2020 - Updated to reflect OmniGlow acquired by Cyalume. Updated on: 6/10/2020 11:29:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.15 CAT II Active	CHAMBER CONDITIONING SYSTEM, COMMERCIAL	AMRON INTERNATIONAL & DIVING SUPPLY INC.	9100 ICS 9100 ICS2	PN 9100RMK IS THE AUTHORIZED REPLACEMENT MOTOR KIT.  <b>* Admin Comments :</b> 8/19/11 - PN corrected. 7/15/2014 - Updated manufacturer info. Updated on: 6/10/2020 11:47:00 AM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.16 CAT II Active	LIGHT SYSTEM, COMMERCIAL	HYDROTEC ENTERPRISES <b>Name :</b> Gary Standefer <b>Phone :</b> 805.985.1876	TRCS ILLUMINATION SYSTEM MDL 3000 GENERATION II	AUTHORIZED FOR USE WITH THE TRCS.  ONLY LED BULBS ARE AUTHORIZED FOR USE.  <b>* Admin Comments :</b> 4/21/11 - Moved from section 3.5.
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.17 CAT II Active	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
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.1.18 CAT II Active	TRCS EXTERNAL VIEWPORT LIGHT	Cowan Manufacturing <b>Name :</b> Craig White <b>Phone :</b> +61 2 4954 6588 <b>Email :</b> craig@cowanmfg.com.au	G-30-007	Viewport flush mounted, rechargeable, Low heat LED Light for the TRCS. Approval based on test data, OEM Manual and additional technical data to follow.  Updated on: 2/12/2019 1:19:00 PM

## 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 ASSESMENT. TO ASSURE ADEQUATE SUPPORT, CLOSE MONITORING AND CONTROL ARE PARTICULARLY CRITICAL DURING DEPTH EXCURSIONS.

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.1 CAT II Inactive	PULSE OXIMETER	NONIN MEDICAL INC.	8500 SERIES DIGITAL HANDHELD PULSE OXIMETER ONYX 9500 FINGERTIP PULSE OXIMETER	ONYX MODEL 9500 FINGERTIP PULSE OXIMETER NO LONGER MANUFACTURED BUT STILL AUTHORIZED USE  <b>* Admin Comments :</b> 05/29/08 - AMU REQ 00C Biomed



				11/14/2013 - Changed status to inactive Updated on: 11/14/2013 12:45:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.2 CAT II Active	PATIENT VITAL SIGNS MONITOR	WELCH ALLYN	PROPAQ ENCORE 202EL	General Notes: (1) Apply. Modification required for use in a hyperbaric chamber IAW NEDU TR 02-03 to replace brush type motor with brushless motor.  Authorized for use to a maximum depth of 165 fsw.  <b>* Admin Comments :</b> 9/29/2014- Added to AMU List Updated on: 11/10/2022 5:38:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.3 CAT II Active	BLOOD GLUCOMETER	ACCU-CHECK	ACTIVE	Authorized for use to a maximum depth of 165 fsw.  <b>* Admin Comments :</b> 9/29/2014 - Added to AMU List Updated on: 11/10/2022 5:39:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.4 CAT II Active	BLOOD GLUCOMETER	ABBOTT DIABETES CARE (FORMERLY MEDISENSE)	PRECISION XTRA	Authorized for use to a maximum depth of 165 fsw.  <b>* Admin Comments :</b> 9/29/2014 - Added to AMU List Updated on: 11/10/2022 5:40:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.5 CAT II Active	PORTABLE CLINICAL ANALYZER & ANALYSIS CARTRIDGES	ABOTT POINT OF CARE	I-STAT	General Notes: (1) Apply. The stock 9 volt dc rechargeable lithium battery that comes with the unit is not authorized for use in the hyperbaric environment. This shall be replaced with a 9 volt DC alkaline equivalent.  Authorized for use to a maximum depth of 60 fsw.  <b>* Admin Comments :</b> 9/29/2014 - Added to AMU List Updated on: 11/10/2022 5:41:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.6 CAT II Active	HANDHELD ULTRASOUND	TERASON	SMARTPROBE 2000	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 165 FSW.  <b>* Admin Comments :</b> 9/29/2014 - Added to AMU List Updated on: 11/10/2022 5:43:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.7 CAT II Inactive	INFUSION PUMP	MEDICAL TECHNOLOGY PRODUCTS	MILITARY TRANSPORT INFUSION PUMP 1001AF	General Notes: (1) (2) Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE.  AUTHORIZED FOR USE TO A MAXIMUM DEPTH OF 165 FSW

				<b>* Admin Comments</b> : 9/29/2014 - Added to AMU List
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.8 CAT II Active	INFUSION PUMP	ZOLL	POWER INFUSER	General Notes: <b>(1) (2)</b> 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.  <b>* Admin Comments</b> : 9/29/2014 - Added to AMU List Updated on: 11/10/2022 5:43:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.9 CAT II Active	INFUSION PUMP	CARE FUSION	ALARIS MEDSYSTEM III	General Notes: <b>(1) (2)</b> Apply. Authorized for use to a maximum depth of 165 fsw.  <b>* Admin Comments</b> : 9/29/2014 - Added to AMU List 6/10/2020 - Care Fusion acquired, now a division of Becton Dickinson Updated on: 11/10/2022 5:44:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.10 CAT II Inactive	INFUSION PUMP	CARE FUSION	IMED GEMINI PC-1	General Notes: <b>(1) (2)</b> Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE.  AUTHORIZED FOR USE TO A MAXIMUM DEPTH OF 165 FSW  <b>* Admin Comments</b> : 9/29/2014 - Added to AMU List
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.11 CAT II Active	VENTILATOR	IMPACT INSTRUMENTS INC.	UNI-VENT EAGLE MODEL 754	General Notes: <b>(1) (3)</b> Apply. Authorized for use to a maximum depth of 165 fsw.  <b>* Admin Comments</b> : 9/29/2014 - Added to AMU List 6/10/2020 - Impact Instruments acquired by Zoll Medical Corp. Updated on: 11/10/2022 5:44:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.12 CAT II Inactive	VENTILATOR	NEWPORT NMI	E100M	General Notes: <b>(1) (3)</b> Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE TO A MAXIMUM DEPTH OF 165 FSW.  <b>* Admin Comments</b> : 9/29/2014 - Added to AMU List
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.13 CAT II Active	VENTILATOR	ALLIED HEALTH CARE PRODUCT, INC.	OMNI-VENT SERIES D	General Notes: <b>(1) (3)</b> Apply. Authorized for use to a maximum depth of 165 fsw.  <b>* Admin Comments</b> : 9/29/2014 - Added to AMU List Updated on: 11/10/2022 5:44:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments

7.2.14 CAT II Inactive	VENTILATOR	PENLON	MULTIVENT	General Notes: <b>(1) (3)</b> Apply. NO LONGER MANUFACTURED BUT STILL AUTHORIZED FOR USE TO A MAXIMUM DEPTH OF 165 FSW  <b>* Admin Comments :</b> 9/29/2014 - Added to AMU List
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.2.15 CAT II Active	FINGERTIP PULSE OXIMETER	NONIN MEDICAL INC.	ONYX II 9550	Authorized for use to a maximum depth of 165 fsw.  <b>* Admin Comments :</b> 6/22/15 - Added to AMU list Updated on: 11/10/2022 5:45:00 PM

### 7.3 SANITIZERS

#### General Notes

**(1):** CONSULT SAFETY DATA SHEET

**(2):** COMPLY WITH PRODUCT LABELING

**(3):** 10 MINUTE WETTED CONTACT IN ACCORDANCE WITH APPARATUS-SPECIFIC PROCEDURES IS REQUIRED FOR ALL APPLICATIONS

**(4):** THOROUGHLY RINSE IN ACCORDANCE WITH APPROVED PROCEDURES

Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.3.1 CAT II Active	CONFIDENCE PLUS 2 CLEANER	MINE SAFETY APPLIANCES COMPANY  <b>Email :</b> info.us@msasafety.com	PART NUMBER: 10009971 (32 OZ. BOTTLE); CAGE CODE: 8F723; EPA REGISTRATION NUMBER: 47371-130	General Notes: <b>(1) (2) (3) (4)</b> Apply. Authorized for sanitization of all apparatuses in accordance with approved procedures. Dilute 1 ounce per gallon of clean fresh water.  <b>* Admin Comments :</b> 06/10/2020 - LCDR Hyatt Added Updated on: 1/31/2024 4:25:00 PM
Equip#	Item/Stock#	Manufacturer	Designation/Model	Comments
7.3.2 CAT II Active	SANIZIDE PLUS GERMICIDAL SOLUTION	SAFETEC OF AMERICA, INC  <b>Email :</b> info@safetec.com	PART NUMBER: 34800 (4 OZ. SPRAY BOTTLE); PART NUMBER: 34805 (16 OZ. SPRAY BOTTLE); PART NUMBER: 34810 (32 OZ. SPRAY BOTTLE); PART NUMBER: 34815 (1 GAL. BOTTLE); CAGE CODE: 00K94; EPA REGISTRATION NUMBER: 1839-83	General Notes: <b>(1) (2) (3) (4)</b> Apply. Authorized for sanitization of all apparatuses in accordance with approved procedures with the exception of closed and semi-closed circuit apparatuses. Ready to use; do not dilute.  <b>* Admin Comments :</b> 06/10/2020 - LCDR Hyatt Added Updated on: 11/10/2022 5:36:00 PM

Distribution Statement A