

INSURV Mine Warfare Inspection Guide (MHC/MCM)

Updated: 4-May-04

AN/SQQ-32(V) Series

Reference: NAVSEA SE315-R2-SOM/FLD/MMO MHC-51 Variant
 NAVSEA SE315-R1-IEM-010/SQQ-32(V)2, Minehunting Sonar Set
 NAVSEA SE315-R3-IEM-030/SQQ-32(V)3, Minehunting Sonar Set
CURRENT PMS: MIP 4603/003, AN/SQQ-32(V) Series Minehunting Sonar System

EQUIPMENT		REMARKS / DISCREPANCIES
HAND HELD WINCH CONTROL (Unit 50)		MRC M-7R
(1) Was Unit 50 in good condition?	YES / NO	
(2) Did all controls function properly?	YES / NO	
(3) Was the cable and plug in good condition and free of cuts?	YES / NO	
CABLE GUIDE ASSEMBLY (Unit 4)		MRC Q-2R
(1) Were any oil leaks visible?	YES / NO	
(2) Was there excessive wear, damage or cracks?	YES / NO	
(3) Was the guide free of corrosion excessive marine growth?	YES / NO	
SEA CHEST, RAILS, AND HAWSE PIPE		MRC S-7R, A-9, R-14
(1) Was HULL Position sensor in good condition and operable?	YES / NO	Test during MI and record last inspection date.
(2) Was Sea Chest clean and in good condition?	YES / NO	Record last inspection/cleaning date.
(3) Was the sea chest cover in good condition and all hardware properly installed?	YES / NO	
(4) Was the gasket installed and in good condition?	YES / NO	
(5) Were two ½ inch safety ropes installed and in good condition?	YES / NO	
(6) Were the fixed rails in good condition and free of corrosion / excessive wear? (MCM only)	YES / NO	

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(7) Were brass bearing plates in good condition and was all hardware installed? (MCM only)	YES / NO	
(8) Was the flexible hawse pipe in good condition? (MCM only)	YES / NO	
(9) Was the lifting and tie-down hardware installed and in good condition? (MCM only)	YES / NO	
(10) Were Stow Wedge Locks operable and in good condition?	YES / NO	
(11) Was the Sea Chest cover position sensor assembly in good condition?	YES / NO	
(12) Were all bolts installed, lock wired, and free of corrosion?	YES / NO	
(13) Did the sensor plunger operate smoothly?	YES / NO	
(14) Were Hull Wedge Locks in good condition?	YES / NO	
(15) Were Maintenance Stop blocks installed and in good condition?	YES / NO	
(16) Were Maintenance Lock Assemblies in good condition?	YES / NO	
BODY LOCK CABLE REEL (Unit 46)		MRC A-9
(1) Were all fasteners, mounting bolts securely installed?	YES / NO	
(2) Was the assembly in good condition and free of corrosion?	YES / NO	
(3) Were all connectors in good condition, free of corrosion, and sealed?	YES / NO	
(4) Was body lock cable free of cracks, gouges or other damage?	YES / NO	
(5) Was spring tension maintained while?	YES / NO	

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EQUIPMENT		REMARKS / DISCREPANCIES
TOWD BODY (Unit 1)		MRC Q-2R, S-3R
A. Classification Carousel	YES / NO	
(1) Was the Tow Bail in good condition and all hardware properly installed?	YES / NO	
(2) Was the Fairing in good condition and free of excessive marine growth?	YES / NO	
(3) Were zinc anodes in good condition (Less than 50 percent worn)?	YES / NO	
(4) Were all cables in good condition?	YES / NO	
(5) Were all connectors in good condition and properly installed?	YES / NO	
(6) Was all hardware installed and secure?	YES / NO	
(7) Was the Roll Actuator in good condition?	YES / NO	
(8) Was there evidence of oil leakage from the Roll Actuator?	YES / NO	
(9) Was the bellows in good condition?	YES / NO	
(10) Was Pitch Actuator in good condition?	YES / NO	
(11) Was there evidence of oil leakage from the Pitch Actuator?	YES / NO	
(12) Was the bellows in good condition?	YES / NO	
(13) Were Transducer Modules in good condition and free of excessive marine growth?	YES / NO	

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EQUIPMENT		REMARKS / DISCREPANCIES
B. Detection Carousel		
(1) Was the exterior in good condition and free of excessive marine growth?	YES / NO	
(2) Was the Fairing in good condition and free of excessive marine growth?	YES / NO	
(3) Were zinc anodes in good condition (Less than 50 percent worn)?	YES / NO	
(4) Were all cables in good condition?	YES / NO	
(5) Were all connectors in good condition and properly installed?	YES / NO	
(6) Was all hardware installed and secure?	YES / NO	
(7) Were Transducer Modules in good condition and free of excessive marine growth?	YES / NO	
AIR FILTERS / COOLING		MRC Q-5
(1) Were air filters on the following equipment, installed, in good condition, and clean?	YES / NO	
- System Computer Unit Assembly, USH-26, UYK-44 (Unit 6)	YES / NO	
- Operator Console (Unit 7)	YES / NO	
- Operator Console (Unit 8)	YES / NO	
- CIC Control Assembly (Unit 11)	YES / NO	
- Processor & Power Control Unit (Unit 3)	YES / NO	

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EQUIPMENT		REMARKS / DISCREPANCIES
OPERATOR CONSOLES (UNITS 7 & 8)		MRC A-1R ,
(1) Did console pass BITE tests without faults?	YES / NO	
(2) Was display properly adjusted for clarity?	YES / NO	
(3) Was all hardware properly installed and functional?	YES / NO	
(4) Were all connectors securely attached and in good condition?	YES / NO	
(5) Did tape drives operate properly? (MCM only)	YES / NO	
TRANSPONDER/RESPONDER		MRC A-5R
(1) Was Responder / Transponder battery within transponder within periodicity?	YES / NO	
(2) Was battery pack and securing hardware properly installed?	YES / NO	
UPS ((V) 3 Ships only)		MRC Q-4
(1) Were all UPS indicators functional?	YES / NO	
(2) Did UPS audible alarm sound?	YES / NO	
(3) Did UPS pass the capacity test (7-10 minutes)?	YES / NO	
(4) Did the UPS fully recharge (24 hours / 5 Green LEDs on)?	YES / NO	
AN/USH-26 RECORDER – REPRODUCER ((V) 2 Ships only)		A-3R
(1) Could both AN/USH-26 Recorder-Reproducers read from and write to a tape?	YES / NO	

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EQUIPMENT		REMARKS / DISCREPANCIES
OPERATIONAL CHECKS		MRC W-3R, M -7R, M-8R, R-12S, R-13S, NAVSEA TM
(1) Were System Initialization / Power-On checks completed without faults?	YES / NO	
(2) Were Deployment & Recovery tests completed without faults?	YES / NO	
(3) Were Sonar Operational checks completed without faults?	YES / NO	
(4) Was System Fault Localization (FL) Baseline completed without faults?	YES / NO	
(5) Did Towed Body, Stow and Hull Locks operate properly & without faults?	YES / NO	
(6) Was "BODY IN VDS" Indication received at expected depth range?	YES / NO	
(7) Did "TB ALT <75 FT" indicator illuminate and Warning Alarm sound at the correct depth?	YES / NO	
(8) Did AHI activate and recover the towed body?	YES / NO	
(9) Did EMERGENCY HAUL-IN occur when TB was 50 feet above the bottom?	YES / NO	
(10) Did Down Slow, Down Fast, Up Slow, and Up Fast functions operate properly?"	YES / NO	
(11) Did "TB TOO CLOSE (20')" indicator illuminate and Warning Alarm sound at the correct depth.	YES / NO	
(12) Did the Towed Body Altimeter/Fathometer function properly?	YES / NO	
(13) Did the Towed Body Tails correctly configure to VDS / Hull / Stow?	YES / NO	