

## INSURV Mine Warfare Inspection Guide (MHC)

Updated: 1-Dec-03

### Umbilical Cable Handling System (UCHS)

**Reference: NAVSEA AN/SLQ-48 Interactive Electronic Technical Manual (IETM)  
CURRENT PMS: MIP 4762/001**

EQUIPMENT		REMARKS / DISCREPANCIES
<b>VISUAL INSPECTION</b>		<b>REF: NAVSEA AN/SLQ-48 IETM, MRC 4762/ Q-33R, S-3, S-6, S-9R,S-14R</b>
<b>UMBILICAL CABLE HANDLING SYSTEM (UCHS)</b>		<b>REF: MRC 4762/ Q-33R, S-3, S-6, S-9R</b>
(1) Is umbilical cable free of cracks/stretching/cuts?	YES / NO	
(2) Is strain relief free of cracks/cuts/large bulges?	YES / NO	
(3) Are all indicators/switches/knobs on PCU free of Cracks/looseness/missing parts?	YES / NO	
(4) Is PCU panel free of cracks/damage / corrosion/loose connections/missing parts?	YES / NO	
(5) Are all indicators/switches/knobs free of cracks/looseness/missing parts?	YES / NO	
(6) Is OCU panel free of cracks/damage /corrosion/loose connections/missing parts?	YES / NO	
(7) Are junction boxes free of damage / corrosion/loose connections/missing parts?	YES / NO	
(8) Are all gauges calibrated that require calibration/within cycle?	YES / NO	
(9) Are all gauges free of cracks/damage / corrosion/looseness/missing parts?	YES / NO	
(10) Are all Detroit switches calibrated/within cycle?	YES / NO	
(11) Is level wind assembly free of cracks / damage/corrosion/loose connections/missing parts?	YES / NO	
(12) Is cut cable tensioner free of damage / corrosion/loose connections/missing parts?	YES / NO	
(13) Is manual drive and interlock assembly free of damage/corrosion/looseness/missing parts?	YES / NO	
(14) Is cable cooling system free of cracks/damage/corrosion/looseness/missing parts?	YES / NO	
(15) Is chain drive assembly free of damage/corrosion/looseness/missing parts?	YES / NO	

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(16) Are all electrical cables free of cuts/damage/loose connections/missing parts?	YES / NO	
(17) Are all hydraulic hoses free of leaks/cuts/damage/loose connections/missing parts?	YES / NO	
(18) Is the UCHS drum assembly free of cracks/damage/corrosion/missing parts?	YES / NO	
(19) Are all air lines free of cracks/damage/corrosion/loose connections/missing parts?	YES / NO	
(20) Is zinc anode a ½ “ or more long?	YES / NO	
(21) Is flag sheave assembly free of chips/broken sheaves/missing parts?	YES / NO	
(22) Is instrumented sheave assembly free of chips/broken sheaves/missing parts?	YES / NO	
(23) Is accumulator guard free of cracked welds/damage/loose parts/missing parts?	YES / NO	
(24) Is accumulator assembly free of damage/corrosion/Broken wiring/missing parts?	YES / NO	
(25) Is pneumatic cylinder free of damage/corrosion/missing parts?	YES / NO	
(26) Is hydraulic reservoir free of damage/corrosion/missing parts?	YES / NO	
(27) Is the load cell free of damage/corrosion/loose parts/missing parts?	YES / NO	
(28) Is UCHS electric motor free of damage/corrosion/loose parts/missing parts?	YES / NO	
(29) Are all wiring cables to the UCHS motor free of cuts/frays/damage/looseness?	YES / NO	
(30) Is brake assembly free of damage/loose parts/missing parts?	YES / NO	
(31) Is UCHS cooling strainer free of damage/corrosion/foreign material?	YES / NO	
<b>HIGH VOLTAGE TRANSFORMER (HVT)</b>		<b>REF: MRC 4762/ S-14R</b>
(1) Is HVT exterior free of damage/corrosion/loose connections/missing parts?	YES / NO	
(2) Are all filter assemblies clean?	YES / NO	
(3) Is HVT interior free of damage/corrosion/loose connections/missing parts?	YES / NO	

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(4) Are all indicators/switches/knobs free of cracks/looseness/missing parts?	YES / NO	
(5) Is unit 26 free of damage/corrosion/loose connections/missing parts?	YES / NO	
(6) Are unit 26 indicators/switches free of cracks/damage/looseness?	YES / NO	
<b>OPERATIONAL</b>		<b>REF: MRC 4762/ Q-24R (A-series), Q-25R (B-series)</b>
<b>UMBILICAL CABLE HANDLING SYSTEM (UCHS)</b>		<b>REF: MRC 4762/ Q-24R (A-series), Q-25R (B-series)</b>
(1) Does UCHS pass bite test?	YES / NO	
(2) Does UCHS run when placed into auto after bite test?	YES / NO	
<b>LUBRICATION</b>		<b>REF: MRC 4762/ Q-6, S-4, R-15</b>
<b>UMBILICAL CABLE HANDLING SYSTEM (UCHS)</b>		<b>REF: MRC 4762/ Q-6, S-4, R-15</b>
(1) Is there a light coat of oil on the level wind assembly chain?	YES / NO	
(2) Is the flag sheave lubricated?	YES / NO	
(3) Is the instrumented sheave lubricated?	YES / NO	
(4) Is the accumulator assembly lubricated?	YES / NO	
(5) Are the manual drive gears lubricated?	YES / NO	
(6) Is the cable tensioner lubricated?	YES / NO	
(7) Is the drum gear lubricated?	YES / NO	
(8) Is there a light coat of grease on the reversing screw assembly?	YES / NO	