

27 September 2011

SERMC CODE: 900

**Waterfront Maintenance Note Number 14**

**Surface Vessel Torpedo Tube (SVTT) Intermediate Level Maintenance Responsibilities**

- Ref:
- (a) MIP 7511
  - (b) COMFLTFORCOMINST 4790.3
  - (c) SVTT IETM Volume ID N6660400079
  - (d) NUWC-NPT Technical Document 11,282 01 July 2007 Field Repair Breech Mechanisms
  - (e) NUWC-NPT Technical Document 11,428 01 July 2005 Breech Mechanisms INSP/Air Flask
  - (f) NUWC-NPT Technical Document 10,910D 15 Jan 2009 SVTT Breech Gauge/Switch Cal
  - (g) NAVSEA OD 46508 CHNG 21 DEC 1988 Workshop Equip Use and Maintenance for SVTT

1. **Purpose:** To define the specific shipboard/RMC responsibilities that are required in support of I-Level SVTT maintenance to include Repair, Alignment and Calibration (RAC), as well as Breech Mechanism Refurbishment. Adherence to this procedure will enable all ships systems within the Mayport basin to receive I-Level maintenance within the timeframes specified in Ref (a).

2. **Background:** SVTT Repair, Alignment and Calibration (RAC) is considered through a Material Condition Assessment (MCA) usually conducted during a Combat Systems Command, Control, Communications and Computer Readiness Assessment (C5RA). Breech Mechanism Refurbishments are based on the conduct and result of PMS procedures per Ref (a). SERMC is equipped and staffed to conduct I-Level maintenance and refurbishment that exceeds PMS requirements at the shipboard level. I-Level refurbishment of SVTT, in addition to the normally scheduled shipboard PMS, is intended to enhance system material condition and reliability.

3. **Procedures:**

**Repair, Alignment and Calibration**

a. Ship's Force (S/F) shall:

(1) Submit one 4790/2K per SVTT mount no later than 170 days prior to the scheduled availability start date to SERMC Code 954 for Repair, Alignment and Calibration as dictated by MCA remarks section of the 4790/2K:

***“Request SERMC Code 954 conduct I-Level Repair, Alignment and Calibration of Port/STBD SVTT.”***

(2) Ensure all S/F action items from most recent MCA/C5RA are complete. S/F will submit 2K for SISCAL gauge calibration to ensure all SVTT gauges prior to mount refurbishment. Include the following information in Block 35 Remarks section of the 4790 2K:

***“Request SISCAL perform calibration per MIP 7511 18M-1.”***

Note: (Current gauge calibration is required to maintain SVTT operation certification.)

(3) Schedule crane services through the respective Maintenance Teams (Port Engineer and Ship’s Superintendent) for removal/installation (as applicable) of SVTT mounts. The specific timeframe for this event will be coordinated between S/F and SERMC Code 954.

(4) Provide at least one S/F technician to participate in all aspects of SVTT refurbishment and testing. SERMC Code 954 personnel will witness manual/fire control air slug operation test upon installation of SVTT mounts.

b. SERMC Code 954 shall:

(1) Schedule RACs through the respective Maintenance Teams (Port Engineer and Ship’s Superintendent).

(2) Conduct S/F in-brief prior to SVTT RAC commencement.

(3) Perform Repair, Alignment and Calibration procedures per Ref (c-g).

(4) Verify serial numbers, inspect work for quality assurance, and ensure a fully refurbished and tested system is installed onboard ship as coordinated by Combat Systems Production Code 954, Maintenance Team and S/F. Post testing is accomplished through manual/fire control air slug operation test.

**Breach Mechanism Refurbishment**

a. Ship’s Force (S/F) shall:

(1) Submit one 4790/2K (indicate number of breach mechanisms) no later than 65 working days prior to the scheduled availability start date to SERMC Code 954 for breach mechanism refurbishment. Include the following information in Block 35 Remarks section of the 4790/2K:

***“Request SERMC Code 954 conduct I-level refurbishment of (number) SVTT breech mechanisms.”***

(2) Deliver breech mechanisms and charging hoses to SERMC Combat Systems Production Code 954 with the bleed screws in the open position, ensuring breech is not charged.

(3) Provide at least one S/F technician to participate in all aspects of AVTT breech mechanism refurbishment and testing.

(4) Pick up breech mechanisms upon contact from SERMC after completion of overhaul and hydrostatic testing procedures IAW Ref (b).

(5) Install breech mechanisms in SVTT and perform manual Air Slug operation test.

b. SERMC Code 954:

(1) Determine an appropriate repair procedure for each barrel ring. Unserviceable components will be replaced.

(2) Install mandatory replacement items per Refs (b) and (c).

(3) Prep and paint breech mechanisms.

(4) Provide ship with copies of hydrostatic test results documented on QA Form 28.

(5) Confirm repairs per decay test procedures in Ref (a) and witness manual air slug operation test upon S/F installation of SVTT breech mechanisms.

4. Point of Contact: For further guidance or information, contact SERMC Code 950 at 904 270-5126 x3115 or x5824.