

3 October 2011

SERMC CODE: 200

Waterfront Maintenance Note Number 11

Magazine Sprinkler System Certification Procedure

- Ref:
- (a) COMNAVSURFOR 111740ZJAN2010, War Fighting Improvement Program (WFIP) Number 133 Bravo Governing Magazine Sprinkler System Verification (MSSV).
 - (b) Magazine Sprinkler System Description, Operation, and Maintenance Handbook, S9522-AA-HBK-010
 - (c) Magazine Sprinkler System MIPs 5221/009, 5221/012, 5221/018
 - (d) Alarm, Safety, and Warning Systems MIP 4361/001
 - (e) Flexible Hoses MIP 5000/009
 - (f) FFG-7 class advisory 04-92, concerning operation and configuration of the Back-Up sprinkler systems for MK 75 magazine, Torpedo magazine and CIWS magazine.
 - (g) COMNAVSURFOR 232015ZFEB2010, War Fighting Improvement Program (WFIP) Number 52 Golf governing Combat Systems Smooth Log Organization
 - (h) JFMM REV B CH-3 Volume IV Chapter 14

1. **Purpose**: To establish procedures for the certification of shipboard magazine sprinkler systems.
2. **Background**: The following situational requirements determine the need for certification verification IAW ref (a):
 - a. The magazine has been sprinkled.
 - b. System has been isolated from ship's fire main pressure or deactivated for more than 30 days.
 - c. Any thermo-pneumatic component has been replaced (which includes prp valves, transmission tubing, vented check valves, and heat sensing devices).
 - d. The thermo-pneumatic system is open to atmosphere for 48 hours or longer (i.e., prp gauges removed for calibration).
 - e. As directed by PMS.

Note: A non-certified magazine shall not be considered safe to stow ammunition and explosives. Any Safety or Major discrepancy shall be justification for recommendation of non-certification.

Significant Magazine Sprinkler System Discrepancies

DISCREPANCY	Loaded Magazine	Empty Magazine	Magazine in lay-up
PRPV fails to trip	Safety	Major	Major
Magazine sprinkler valve fails to open	Safety	Major	Major
Magazine sprinkler valve fails to close properly	Safety	Major	Minor
PRPV fails to reset	Safety	Major	Minor
Drain line 1 leaks	Safety	Major	Minor
Drain lines plugged	Safety	Major	Minor
Orifice plates blocked	Safety	Major	Minor
Magazine sprinkler valve operates slowly	Safety	Major	Major
Port B leaks during operation	Safety	Major	Minor
Port D leaks during operation	Safety	Major	Minor
Sprinkler head missing	Safety	Major	Minor
Transmission tubing crimped	Safety	Major	Major
Vented check valves inoperative	Safety	Major	Major
PRPV gauge not calibrated	Major	Major	Major
FH alarm out of service	Safety	Major	Major
FD alarm out of service	Safety	Major	Major
F sensors inoperative	Safety	Major	Major

3. Procedure:

a. Ship's Force Shall:

(1) Submit 2-Kilo.

- Example OPNAVINST 4790/2-Kilo (2K) Block 35:

Magazine sprinkler system requires certification due to _____
 XXX SERMC Code 294/5 inspect and provide follow-on message of inspector's findings.

(2) Prior to SERMC arrival S/F will complete the steps listed below, and notify SERMC of completion.

(a) Conduct a self-assessment of shipboard magazine protection systems IAW Magazine Sprinkler Inspections and Check Sheets located in ref (b) Chapter 5.

(b) For 3-Position Control Valve, Dry Type Sprinkler, complete ref (c), MIP 5221/012, MRC's M-1R, S-3, S-4, A-1R, and R-4Q.

(c) For 2-Position Control Valve, Dry Type Sprinkler, complete ref (c), MIP 5221/009, MRC's M-1R, S-3, A-1R, and R-3Q.

(d) Complete ref (d), MRC's A-3 and A-4.

(e) Complete ref (e) MRC S-1.

(f) For FFG Class, Back-Up Sprinklers applicable in ref (f), complete ref (c), MIP 5221/018, MRC's M-1 and Q-1.

(3) Provide two dedicated Gunner's Mates for the duration of the inspection.

(4) Ships are required to take necessary action to correct all discrepancies noted during magazine sprinkler inspections. Within 30 days following receipt of the magazine sprinkler discrepancy list, report the status to the ISIC with information copy to the Type Commander via message, identifying corrective action(s) taken and/or applicable plan of action and milestones.

(5) Place a copy of certification messages in smooth log per ref (g).

b. SERMC Shall:

(1) Conduct Magazine Sprinkler Systems Verification (MSSV) IAW ref (a) and (h) and provide, via naval message, a recommendation to the Ship's Commanding Officer and ISIC as to thermo-pneumatic certification. Recommendation will be dependent on correction of noted discrepancies and completion of satisfactory sprinkler system operational maintenance test.

4. Points of Contact: For further guidance or information, contact SERMC Magazine Sprinkler Inspectors at 904-270-5126 x3126, x5836 or x3247.