

SOUTHEAST REGIONAL MAINTENANCE CENTER
LOCAL STANDARD ITEM

FY-18

ITEM NO: 099-08SE
DATE: 13 MAY 2013
CATEGORY: I

1. SCOPE:

1.1 Title: Temporary Fire Protection Services for Naval Station Mayport Availabilities; accomplish

2. REFERENCES:

2.1 Standard Items

2.2 NFPA Standard 312, Standard for Fire Protection of Vessels During Construction, Repair, and Lay-up

2.3 NFPA Standard 1962, Standard for the Care, Use, and Service Testing of Fire Hose Including Couplings and Nozzles

2.4 29 CFR Part 1915, Occupational Safety and Health Standards for Shipyard Employment

3. REQUIREMENTS:

3.1 Provide temporary fire protection in accordance with the requirements of 2.2 through 2.4 and this item.

3.2 When the ship's fire main is out of service partially or completely, temporary primary fire protection shall consist of:

3.2.1 Diesel or gasoline fire pump(s) capable of providing the gallons per minute (GPM) flow specified in Attachment A at 100 PSIG with 2-1/2 inch hoses to ensure that GPM flow in Attachment A is uninterrupted for the entire availability. Flow and pressure shall be measured with calibrated gages at the connection point to the temporary hose valve manifold stations.

(V)(G) "OPERATIONAL TEST"

3.2.2 Accomplish an operational test of the temporary firefighting system at maximum system operating pressure. Allowable external leakage: None.

3.2.2.1 Verify by the Pitot tube method or an in line flow meter that the water supply specified in Attachment A is available. Water

flow tests shall be accomplished prior to availability start date and on a weekly basis thereafter. Meters and gages shall be calibrated.

3.2.3 Two and one-half inch fire hose and hose valve manifold stations on the vessel so that all parts of the vessel can be reached by at least 2, one and one-half inch or one and three-quarter inch 100-foot hoses. The 100-foot hoses shall be pre-connected to the hose valve manifold stations and faked on racks adjacent to the hose valve manifold stations.

3.2.3.1 Where coverage of the lowermost compartments is impossible with 100 feet of hose, unpressurized 2 and one-half inch drop lines, supplied from the manifolds, with 2 and one-half inch by one and one-half inch by one and one-half inch wye-gate fittings shall be rigged to the lowermost compartments. One and one-half inch hoses and nozzles shall be pre-connected and faked on racks nearby. Activating instructions shall be posted by the manifold.

3.2.3.2 The hose valve manifold stations shall be clearly identified, with sources of water and operating instructions.

3.2.3.3 Fit each hose valve manifold station with a fire retardant plywood base to prevent damage to ship's decks, and secure each manifold to prevent movement during use.

3.2.3.4 Hose valve manifolds shall be kept free of obstructions at all times.

3.2.3.5 Verify GPM at the pump(s) and pressure at each manifold and inspect each station on a daily basis.

3.2.3.6 Emergency fire protection shall be provided in the areas prior to placing any fire main section out of commission.

3.2.4 Water supply shall be available within 3 minutes of loss of temporary primary source of fire main flow/pressure.

3.3 Temporary primary fire protection equipment shall consist of:

3.3.1 Fire hoses equipped with one and one-half inch combination straight stream and spray pattern nozzle.

3.3.2 Fire hoses and hose valve manifolds shall be inspected and service-tested in accordance with 2.3 within 90 days before being placed in service for the first time and at least annually thereafter.

3.3.2.1 Submit one legible copy, in approved transferrable media, of documentation of the service testing required in Chapter 5 of 2.3 when requested by the SUPERVISOR.

3.3.3 Install gages that are in proper working order and calibrated on all temporary and emergency fire main manifolds, and ensure that 100 PSIG is maintained at each gage uninterrupted for the entire availability.

3.3.4 Emergency lighting and power, other than existing ship's emergency backup, shall be available for emergency lighting throughout the ship/barge and emergency devices using a separate source of energy or power line.

3.3.5 The components of the temporary primary firefighting system shall be inventoried and inspected prior to Ship's Force firemain being secured. Provide a copy of the inventory list and inspection results to the SUPERVISOR upon request.

3.4 Remove temporary primary firefighting equipment when directed by the SUPERVISOR.

3.5 Ensure access to temporary and Ship's Force firefighting equipment is not obstructed or restricted.

3.6 Brief Ship's Force personnel on the procedures to rapidly secure temporary systems (e.g., air, electrical power, and ventilation) under their control.

3.7 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

4. NOTES:

4.1 Fire pump(s) shall be started daily by Ship's Force to verify proper operation.

ATTACHMENT A
FIRE PROTECTION WATER SUPPLY REQUIREMENTS

<u>SHIP TYPE</u>	<u>FLOW (GPM) *</u>	
AD	Destroyer Tender	1,500
ADG	Degaussing Ship	500
AE	Ammunition Ship	1,500
AF	Store Ship	1,500
AFS	Combat Store Ship	1,500
AG	Miscellaneous Auxiliary Ship	1,500
AGEH	Hydrofoil Research Ship	500
AGF	Miscellaneous Flagship	2,000
AGFF	Frigate Research Ship	1,000
AGM	Missile Range Instrumentation Ship	1,500
AGMR	Major Communications Relay Ship	1,500
AGOR	Oceanographic Research Ship	500
AGP	Gunboat Support Ship	2,000
AGS	Surveying Ship	1,000
AH	Hospital Ship	1,000
AK	Cargo Ship	1,500
AKS	Store Issue Ship	1,500
AKR	Vehicle Cargo Ship	1,500
ANL	Net Laying Ship	500
AO	Oiler	1,500
AOE	Fast Combat Support Ship	1,500
AOG	Gasoline Tanker	1,000
AOR	Fleet Replenishment Oiler	1,500
AP	Transport Ship	1,000
APB	Self-propelled Barracks Ship	500
AR	Repair Ship	1,500
ARB	Battle Damage Repair Ship	500
ARC	Cable Repair and Laying Ship	1,000
ARG	Internal Combustion Engine Repair Ship	1,500
ARL	Landing Craft Repair Ship	1,000
ARS	Salvage Ship	500
ARSD	Salvage Lifting Ship	500
ARST	Salvage Tender	1,000
ARVA	Aircraft Repair Ship	1,000
ARVE	Aircraft Engine Ship	1,000
ARVH	Helicopter Tender	1,500
AS	Submarine Tender	1,500
ASR	Submarine Rescue Ship	600
ATA	Ocean Tug	500
ATF	Ocean Tug Fleet	500
ATS	Salvage and Rescue Tug	500
AVM	Guided Missile Ship	1,500
CV, CVN	Aircraft Carrier	3,000
CG	Guided Missile Cruiser	1,000

ATTACHMENT A
 FIRE PROTECTION WATER SUPPLY REQUIREMENTS (Con't)

<u>SHIP TYPE</u>	<u>FLOW (GPM) *</u>
DDG Guided Missile Destroyer	1,000
FFG Guided Missile Frigate	1,000
IX Unclassified Miscellaneous	1,500
LCC Amphibious Command Ship	1,000
LCS Littoral Combat Ship	1,000
LHA Amphibious Assault Ship	2,500 **
LHD Amphibious Assault Ship	2,500
LKA Amphibious Cargo Ship	1,500
LPD Amphibious Transport Dock	1,500 ***
LSD Landing Ship Dock	2,000 ***
YRB Repair and Berthing Barge	500
YRBM Repair, Berthing and Messing Barge	500
YRBL Repair, Berthing and Messing Barge (large)	500
LST Landing Ship Tank	1,500 ***
MCM Mine Counter Measures Ship	750
PC Patrol Coastal	500
PCH Hydrofoil Patrol Craft	500
PG Patrol Combatants	500
PGH Hydrofoil Gunboat	500

* All flows are from the pier or dry dock outlet and are available at adequate residual pressures from those systems in compliance with present design criteria for dry docks and piers as reflected in NAVFAC design manuals (UFC 4-213-10, UFC 4-213-12, UFC 4-150-01, UFC 4-150-02, and UFC 4-150-06).

** Includes supply to operate 2 hangar sprinkler groups and 2, 2-1/2-inch hoselines.

*** Includes supply to operate one sprinkler group and 2, 2-1/2-inch hoses.