

NAVSEA
STANDARD ITEM

FY-19 CH-4

ITEM NO:	009-06
DATE:	31 AUG 2018
CATEGORY:	I

1. SCOPE:

1.1 Title: Maintaining Protection and Cleanliness from Non-Radioactive Operations; accomplish

2. REFERENCES:

2.1 MIL-STD-1623, Fire Performance Requirements and Approved Specifications for Interior Finish Materials and Furnishings (Naval Shipboard Use)

2.2 NFPA Standard 701, Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

3. REQUIREMENTS:

3.1 Observe the following requirements, in addition to the specific requirements of the Job Order, for maintaining protection and cleanliness from non-radioactive operations on the ship, ship's equipment, components, and spaces for the duration of the availability.

3.1.1 Accomplish an inspection of the work area prior to installation of protective covering to identify the current condition of equipment, systems, and components, including any exposed cables, penetrations, stuffing tubes, bolted cover plates, and antennas.

3.1.1.1 Submit one legible copy, in hard copy or approved transferrable media, of a report listing results of the requirements of 3.1.1 to the SUPERVISOR.

3.2 Prevent contamination and damage of the ship's equipment, components, and spaces during contamination-producing operations.

3.2.1 Plug, blank, wrap, cover, seal, and mask equipment, components, cables, wireways, boots, and openings using fire retardant/water repellent material, and prevent entry of contaminants to components, systems and equipment.

3.2.1.1 Ensure plugging and blanking does not result in flooding or damage to ship's equipment.

3.2.1.2 Protect ship's equipment by installing Herculite or canvas covering conforming to A-A-55308, and/or fire retardant plywood conforming to Category 2, Type II, of MIL-L-19140, or other NAVSEA-approved fire retardant industrial protective material within the proximity to hot work and non-fabric material that conforms with 2.1 and is tested in accordance with and meets the requirements of 2.2 when used onboard for containment or as protective coverings not within the proximity of hot work.

3.2.2 Install fire retardant industrial filter material meeting the minimum requirements of UL 900 Class 1, non-fire contributing material, on the intake of supply and exhaust end of ventilation systems that will be in use.

3.2.2.1 Remove existing and install new filter or clean the filter material when air flow is restricted.

(V) "VERIFY PROTECTIVE MEASURES"

3.2.3 All protective measures are to be in place prior to start of any contamination-producing operations and shall remain in place until the contamination-producing operations are complete.

3.2.4 Install double curtain baffles at the entrance of each access door where airborne contamination could occur during contamination-producing operations. Install a dirt collecting mat on the deck directly inside each door. The SUPERVISOR will select a maximum of 4 doors. Secure and mark doors not designated for access.

3.2.5 Temporary coverings shall not be removed during contamination-producing operations without permission of the SUPERVISOR.

3.3 **Maintain** the integrity of the protective covering at the beginning of each shift in which contamination-producing operations will be accomplished. Ensure that equipment and machinery have not been infiltrated by contaminants. Notify the SUPERVISOR immediately by verbal means, followed on the next day in writing, if contamination or surface damage has occurred. Reseal to prevent further entry of contaminants or surface damage.

3.4 Maintain cleanliness of the work site, including bilges, free from accumulation of industrial debris caused by contractor and/or subcontractor employees on a continuous basis throughout the availability. Work spaces include those areas immediately under and adjacent, and those areas where service lines are run, and bilge areas in vicinity of the work site.

3.4.1 Cleaning shall be accomplished no later than at the end of each shift at a minimum, on a daily basis.

3.4.2 Remove and dispose of industrial debris from the ship at the

end of each shift at a minimum, on a daily basis.

3.4.3 Vacuum cleaners shall be emptied of all debris at the end of each shift at a minimum, on a daily basis.

3.4.3.1 Use metal canister vacuum cleaners aboard the ship, except those used for regulated and controlled radiological and hazardous waste or hazardous material.

3.4.3.2 Permanently and legibly mark each vacuum cleaner with a company name or unique identifier.

3.4.4 Plastic trash cans are prohibited for trash collection onboard in spaces where industrial work is being performed. Plastic trash bags may be used onboard as a liner for metal trash cans.

(V) (G) "FINAL CONTAMINATION/DAMAGE INSPECTION"

3.5 Remove protective covering installed in 3.2 upon completion of contamination-producing operations. Accomplish a final inspection of the work area to identify the presence of contamination and/or damage created by contamination-producing operations. Contamination/damage shall be documented on the inspection record.

3.5.1 Presence of contamination and/or damage created by contamination-producing operations is unacceptable and shall be corrected.

3.6 Remove from the ship and dispose of debris and foreign matter generated as a result of work being accomplished at the end of each shift at a minimum, on a daily basis. Comply with the requirements of federal, state, and local laws, codes, ordinances, and regulations or as specified elsewhere in the Job Order.

4. NOTES:

4.1 Definitions:

4.1.1 Cleanliness means the removal of all industrial debris (industrial trash, waste material, weld rods/tips, fasteners, rags, lagging waste, job scrap, wire, litter, rubbish, etc.) at the end of each shift, leaving the areas broom clean and electronic spaces vacuum clean. Adjacent/surrounding machinery, equipment, etc., shall be cleaned free of all resulting debris.

4.1.2 Daily means at least once per every calendar day.

4.1.3 Non-radioactive operations include but are not limited to:

4.1.3.1 Operations liable to produce particulates to become airborne during accomplishment of the work scope, i.e., abrasive blasting, mechanical cleaning, spray painting, hot work operations, and air blowdowns.

4.1.3.2 Operations liable to produce fluid contamination of equipment as a result of external leakage of piping systems during testing.

4.1.3.3 Operations liable to produce fluid contamination of equipment as a result of external leakage of piping systems during waterjetting.

4.1.3.4 Operations liable to produce industrial debris such as, but not limited to, industrial trash, waste material, weld rods/tips, fasteners, rags, lagging waste, job scrap, wire, litter, rubbish, etc.

4.2 The SUPERVISOR will coordinate operation of ventilation systems, as requested by the contractor, to maintain a positive pressure within the vessel's envelope and to create an outward flow of air through crevices or around penetrations.

4.3 The cleanliness goal is to turn over all areas of the ship in the same condition or better as at beginning of the availability.

4.4 Ship's Force responsibility:

4.4.1 Ship's Force is responsible for dust that collects as a matter of course throughout the availability and for any Ship's Force **work** site maintenance including monitoring **work** sites being worked by intermediate maintenance activities, Alteration Installation Teams (AIT), and any contractor services that the ship has arranged.

4.4.2 Ship's Force is responsible to maintain cleanliness of their areas of responsibility broom clean at the end of each shift, on a daily basis.

4.4.3 Ship's Force will report cleanliness concerns to the SUPERVISOR for contractor responsible areas.

4.4.4 Ship's Force will work continually throughout the availability to keep bilges and other general areas of the ship clean where the Contractor is not working.

4.5 Ship's Force and the Contractor will familiarize each other with their scope of work (any other work being performed on board the ship not pursuant to contractor authorized work under the Job Order is considered Ship's Force work). The affected locations and aspects of the work and/or ship conditions (i.e., blasting, grinding, preservation, hot work, insulation removals, decking replacement, hydroblasting, weight tests, electrical cable replacement, etc.) will be identified. Each responsible party will clean

site in locations where both parties will be working, on a daily basis. Communications must be continuous and active 2 ways.

4.6 Diligence in inspection will ensure that action is taken by the responsible party prior to any area becoming unsatisfactory.