



DEPARTMENT OF THE NAVY  
COMMANDING OFFICER  
NAVAL STATION  
PEARL HARBOR, HAWAII 96860-6000

NAVSTAPEARLINST 11320.1C CH-3  
00G

08 JUN 1998

NAVSTA PEARL INSTRUCTION 11320.1C CHANGE TRANSMITTAL 3

Subj: NAVAL STATION PEARL HARBOR FIRE REGULATIONS

1. Purpose. To issue pen and ink change to basic instruction.
2. Action. Page 2-22, paragraph 221, add subparagraph: "c. Identification for marking bulk storage of hazardous materials: When more than daily usage of these products are stored in a facility, a marking system shall be established. A readily recognized and easily understood system that provides a general idea of the hazards of a material and the severity of these hazards as they relate to an emergency response is the NFPA 704 diamond system."

  
JOHN G. FAHLING  
By direction

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NAVSTAPEARLINST 5605.2F

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support/services - tenants)

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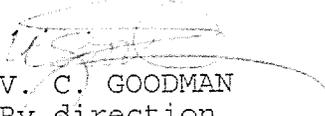
DEPARTMENT OF THE NAVY  
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PEARL HARBOR, HAWAII 96860-6000

NAVSTAPEARLINST 11320.1C CH-1  
00GA:GR  
21 NOV 1995

NAVSTA PEARL INSTRUCTION 11320.1C CHANGE TRANSMITTAL 1

Subj: NAVAL STATION PEARL HARBOR FIRE REGULATIONS

1. Purpose. To make pen and ink changes to basic instruction.
2. Action.
  - a. Page 2-12, Para 213.d(2), change "1530" to read "0659".

  
V. C. GOODMAN  
By direction

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(8) Contact Fire Alarm Division, 474-2222 to advise of permit issue.

c. Supervisor Responsibilities: Supervisors in charge of cutting or welding operations shall recognize their responsibility for the safe use of their equipment and site or area hazardous conditions. Although the cutter or welder has the best opportunity to avoid fire or injury by proper controls of the equipment and work practices, there are many circumstances that can arise that the cutter or welder may not be aware of. Therefore, supervisors shall be responsible for the following:

(1) Obtaining authorization and fire permit for the cutting or welding operation from the FFD representative.

(2) Based on fire potential, preparing the area or site for cutting or welding operation prior to being inspected by the FFD representative.

(3) Ensuring adequate and trained fire watch personnel are available at the work site and ensuring individuals are versed in the use of the portable fire extinguisher and their responsibilities.

(4) Complying with the safety conditions outlined by the FFD representative and as indicated on the Cutting/Welding Permit.

(5) Briefing their workers of the safety conditions and requirements prior to starting cutting or welding operations.

d. Requesting Hot Work Inspection and Permit: When arranging for a cutting or welding inspection, the requestor shall contact the Federal Fire Department. Under no circumstances will hot work be conducted unless the cutting and welding site or area has been inspected. To arrange for an inspection, the requestor will contact the following divisions:

(1) Fire Prevention Division - 474-3995 - 0700 through 0800

(2) Fire Alarm Division - 474-2222 - 0801 through 1530

A) e. Gas Free Engineering Services: The Gas Free Engineering Program provides a minimum requirement for ensuring that workers are being protected from hazards such as explosion, fire, toxicity and oxygen deficiency. When determined by the FFD representative or by existing regulations, a Gas Free Engineer shall analyze conditions on the ship or station including structures, tunnels, tanks, containers, sewer systems and other areas deemed necessary. Gas free engineering qualifications and services shall be, but are not limited to, the following criteria:

(1) As addressed in governmental regulations, gas free engineering shall be performed only by a Marine Chemist certified by the National Fire Protection Association.



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pressure leak from an oxygen cylinder may cause a sufficient amount of rapid oxidation to ignite gasoline, oil grease, alcohol, or organic material and can result in fire or explosion.

(5) When using welding equipment in confined spaces, the area shall be frequently inspected for evidence of leaks in the hose, couplings, valve stems, or other points of the systems.

(6) When equipment is left unattended or when work is stopped, acetylene and oxygen valves shall be closed at the cylinders. For electric welding, equipment power source shall be disconnected.

R) 214. Outdoor Open Fires: Outdoor open fires for purposes of cooking, recreational, demonstrations, or controlled/prescribed burning, require advance notice and approval from the FFD Fire Chief or his representative. Open burning shall be by permit only and procedures for obtaining an outdoor fire approval are as follows:

a. Schedule a site inspection appointment by calling the FFD at 474-3990. When scheduling, a minimum of 3 days advance notice is required.

b. A representative of the FFD is authorized to inspect and approve an outdoor open fire area or site.

c. Fire permit shall be issued by a FFD representative for an approved area or site.

The permit shall establish and identify safety guidelines relevant to the area or site being approved, see Attachment 3.

d. Safety criteria and guidelines shall be in accordance with NFPA Standard 224 and applicable Navy instructions.

e. The following pertain to open flame devices:

A) (1) Portable space heaters using gas or liquid fuel are only authorized for use at construction sites and as interim emergency heating in facilities requiring protection from the cold.

A) (2) Portable electric space heaters shall have a built-in thermostat and tip-over device.

A) (3) The use of open flame lighting devices such as oil lamps and candles shall be permitted in family housing.

A) (4) Open flame portable cooking and food warming devices such as gas-fired grills, solid fuel cans and candles require approval from the FFD when used for ceremonial purposes and use in clubs/dining facilities.



h. When melting tar or similar materials are applied in buildings or other enclosed areas, the space shall be dust free and adequately ventilated to ensure removal of smoke and fumes.

i. All smoking, flame devices and other sources of ignition shall be prohibited in or near the area of application of the material.

j. In addition to the above safety guidelines, the FFD Representative shall establish other safety/preventive measures relevant to the operation and related conditions. He/she shall stipulate these measures on a FFD Tar Kettle Permit, see Attachment 4. The FFD representative will then brief the on site supervisor, then both will sign the permit. Copies of the permit shall be distributed as follows:

(1) Copy #1 - Requestor

(2) Copy #3 - Fire Prevention Division or Fire Station File

R) 216. Fireworks and Other Similar Materials:

a. Except for command controlled displays, the possession of explosives and fireworks (for sale, storage, or use) is prohibited on Naval Station property. Fireworks do not include paper caps or highway flares.

b. Approval for the use of pyrotechnic devices for ceremonial or religious purposes can be obtained by submitting a letter request to the NAVSTA Commanding Officer, stating the reason and purpose for the event.

A) c. Black powder is prohibited in family housing and other occupancies not approved for storing Class B Explosives. Up to 20 pounds of smokeless powder may be permitted in family housing if stored in accordance with NFPA Standard 495 requirements and approving authorities having jurisdiction.

R) 217. Occupant Daily Fire Prevention Inspection: Pre-opening, operational, and closing inspections are the key factors in maintaining a fire free and safe facility. NAVSTA department heads, supervisors and tenant activities who are responsible for buildings, office spaces or operational areas shall designate a responsible person or persons who carry out these duties. Individuals detailed for the task shall be person or persons who work at the building, office space or area being considered. Selectee will perform the following duties:

a. Places of Public Assembly: Managers of places of public assembly shall establish and maintain a certification program for the daily fire prevention inspection process for their facilities. He or she shall ensure the person or persons being detailed comply and complete the requirements outlined in Attachment 5. At the end of each month, the completed form



(4) Flexible cords commonly known as Power Strip, UL or FM approved, 6 feet or less, assembled with 6 or less multiple outlets and equipped with an on-off switch, a self-contained 15 amps circuit breaker, with No. 16 AWG or better wiring, are permitted for permanent wiring.

(5) Flexible cords shall not be spliced, tacked, stapled or fastened to walls; never tied or draped over pipes or other supports; and never led through windows, doors, holes in walls or concealed under carpets or furnitures.

R)           b. Appliance:

(1) Only electrical appliances and devices bearing the label of the Underwriters Laboratories (UL) and Factory Mutual (FM) are authorized for use at NAVSTA facilities.

(2) All electrical equipment, devices, vending machines and other similar equipment installed and operated in shops and other similar occupancies where flammable vapors, gases or dust may be present, shall be UL approved for the particular hazardous area.

(3) All appliances will be disconnected when not in use by an individual responsible for the property.

)           (4) Cooking in the BEQ/BOQ is prohibited except in rooms where kitchenettes are provided. Cooking equipment found in room where cooking is prohibited will be confiscated and placed in storage for disposition.

A)           (5) Coffee makers, hot plates and similar devices shall be located with adequate clearances from combustibles and shall not be operated in storage rooms, closets or other out-of-sight places. Automatic timers are prohibited for use with any electrical appliance.

(6) Hot plates, electric grills, toaster ovens, or any other similar appliance having exposed heating elements are prohibited for use.

(7) Vending equipment, washers, dryers, etc., shall be regularly inspected for serviceability, cleanliness and safety.

(8) Where permitted, portable heat producing equipment of categories normally listed and approved for use by UL or FM, shall have its seal or label affixed to the equipment. A controlled permit shall be obtained from the FFD to ensure safety guidelines are established when such equipment are used within, on, under or against structure.

c. Circuits:

(1) Electrical circuits will not be over-fused or tampered so as to allow circuits to be overloaded. Fuse boxes or circuit panels should be kept locked to limit access to



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- A) b. Dead or cut vegetation, cotton, cut Christmas trees, plastic, textile, expanded foams, excelsior, paper, or other combustibles shall not be used as decorations within any NAVSTA building unless such decorative materials have been made flame retardant by an approved material or process.
- c. Draperies, curtains or other similar decorative items installed in any building shall be non-combustible or flame retardant treated. An inspection and approval must be obtained from the FFD prior to installing such items.
- d. Temporary holiday decorations shall be inspected and approved by the FFD prior to being used. Electrical lights and similar equipment used in connection with decorations will bear the UL or FM label. Only non-combustible ornaments and decorations are permitted.

220. Storage And Handling Of Hazardous Materials: Limitations on floor area and clearance of different types of stored materials are discussed in MIL-HDBK 1008B.

a. Accidental Hazards: Dangerous chemicals and compressed gases will be stored in such a manner that accidental breakage, leakage, or rupture of containers, or exposure to fire, heat, or water will not result in the combining of such materials with other substance which might produce fire, explosive or flammable gases, or toxic fumes, or jeopardize the safety of personnel and material.

b. Fire and Smoke Doors: Fire doors or shutters will not be obstructed, blocked or wedged open. These doors shall be the same fire rating as the walls they are erected on.

c. General Storage Requirements: Flammable liquids will be stored and handled in accordance with references (a) and (o). The following safety practices shall be adhered to:

(1) When storing flammable liquids with combustible commodities, only end bays shall be used. The flammable liquids shall be isolated by separation.

(2) Avoid any location where spilled liquids may come into contact with sparks or flames.

(3) Use dry sand or other approved absorbent material to cleanup spilled flammable liquids, oil and grease.

(4) Use only fork lift trucks approved or listed by UL or FM for uses in hazardous areas.

(5) Parking spaces for fork lift truck shall be determined and designated by the FFD. The designated parking area shall be a minimum of 30 feet distance from any stored materials and properly marked and identified with a sign.



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(d) Cylinders in storage or use will be secured to prevent movement or falling.

(e) Acetylene cylinder will be stored and used in an upright position.

f. Cleaning Operations: No flammable liquid with a flash point below 100 degrees will be used for cleaning of equipment parts.

g. Dispensing Flammable Liquids:

(1) Flammable liquids having flash points below 100 degrees will not be drawn from or dispensed into tanks or containers within a building, except with drum in an upright position, using approved type manually operated barrel pumps and in a location approved by the FFD.

(2) Only safety cans equipped with an approved self-closing lid or valve are approved for storing flammable liquids.

(3) Gravity transfer or discharge of flammable liquids having flash points below 100 degrees from tanks, drums, or containers is specifically prohibited, unless equipment is properly bonded or grounded.

(4) The transfer of flammable liquids by compressed air, gases or other similar method, is prohibited.

h. Contaminated and Waste Flammable Liquids: Contaminated and waste flammable liquids will be collected and stored in an approved type receptacle. The approved container shall be marked with six inch letters: "WASTE FLAMMABLE LIQUID." For information concerning flammable disposal, contact Code 20, NAVSTA Hazardous Waste Management Section.

221. Flammable Storage Cabinet Requirements: For additional information concerning this subject, refer to NFPA Standard 30.

a. Storage Cabinet Design Criteria: The storage cabinet shall be constructed of Number 18 gage sheet steel, double walled with 1 - 1/2 inch air space. The joints shall be tightly riveted or welded. The doorsill shall be raised a minimum of two inches above the bottom of the cabinet to contain spillage. For identity purposes, the cabinet shall be painted yellow and with six inch red lettering, conspicuously stenciled with the following: "FLAMMABLE - KEEP FIRE AWAY."

b. Flammable Storage Cabinet Designation: When flammable storage cabinets are required for use by a NAVSTA department or tenant activity, a survey by the FFD shall be requested. The requestor shall submit a letter to the FFD, stating the purpose for the flammable cabinet, quantity to be stored and a point of contact.



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- a. Fueling Operation Notification: Ship commanders shall be responsible for ensuring the FFD is notified of any refueling/defueling operations 30 minutes prior to commencing or terminating.
- b. Fire Protection Equipment: Ships standpipe systems and other firefighting equipment shall be placed in operational condition for immediate use. These fire protection equipment shall be manned by designated ship force personnel for the duration of the defueling or refueling operation.
- c. Access Lanes: During refueling or defueling operations, access lanes of a minimum of 15 feet width, to permit free travel of emergency vehicles, shall be maintained on and off piers and wharves.
- d. Flame/Spark Arrestor Screens: All tank manhole openings or ullage plugs that are kept in the open position shall be fitted with flame/spark arrestor screen.
- e. Pier/Wharf Security: Only persons on official duty will be allowed on the pier or wharf during fueling operations. Personnel engaged in fuel transfer operations will not leave their assigned post until properly relieved.
- f. Gasoline Transfer Operations: A minimum of 200 feet cordon will be maintained for ships engaged in gasoline transfer operations. All spark producing items shall be prohibited within the 200 feet area.
- g. Bonding, Flammable Fuel Transfer, below 100 Degrees: Static bonding devices will be in place and secured between the ship and shore pipeline prior to connecting transfer fuel lines. Military Fuel Operations Handbook (DOD Publication) will be used for additional information.

225. Commercial Cooking Equipment for Removal of Smoke/Grease-Laden Vapors:

The design and installation of this system shall conform to NFPA Standard 96. Supervisors of facilities that possess this type of installed system and when placing it into operation, shall comply with the following safety practices and procedures:

- a. Exhaust system shall be operated during all periods of cooking.
- b. Exhaust system shall not be operated without installed grease filters. At the end of each workday, the filters and hood shall be cleaned.
- c. Instructions for manually operating the fire extinguishing system shall be conspicuously posted. Employees assigned to cook shall familiarize themselves with activating the system.
- d. Lighting units installed on hood shall be vapor proof type.



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- a. The minimum number of exits from any building, balcony, mezzanine, story or portion thereof shall be two.
- b. Doors used for exit purposes shall be installed with side hinges and swing in the direction of exit travel.
- c. In places of public assembly, all exit doors shall be equipped with panic hardware.
- d. All means of egress shall be kept clear and unobstructed. All doors used for means of egress shall be properly identified with exit signs readily visible from any direction of exit access.
- e. Exit signs shall have the word "EXIT," in 6 " x 2 " letters in width. The color of the letters shall be red or green with a white background. Avoid using glossy paint for background and lettering.
- f. In places of public assembly, exit signs shall be of illumination type with a battery back-up system.

228. New Construction, Renovation and Facility Improvement Projects: Naval Station and tenant level new construction, renovation, facility improvement projects, including self-help projects, which may impact on property or life safety due to fire, shall be reviewed and approved by FFD prior to the start of the work. Fixed fire protection systems installed or modified under such projects shall be subjected to an acceptance test conducted under the cognizance of the Pacific Facilities Engineering Division, Fire Protection Engineer.

















