



DEPARTMENT OF THE NAVY
NAVAL AIR STATION
22268 CEDAR POINT ROAD
PATUXENT RIVER, MARYLAND 20670-1154

NASPAXRIVINST 5090.6A
N45
19 Nov 2015

NAS PATUXENT RIVER INSTRUCTION 5090.6A

From: Commanding Officer, Naval Air Station Patuxent River

Subj: SAFE DRINKING WATER FOR THE PATUXENT RIVER NAVAL COMPLEX

Ref: (a) Public Law 93-523, Safe Drinking Water Act (SDWA)
(b) COMAR 26.04.01 Quality of Drinking Water in Maryland
(c) COMAR 26.06 Waterworks and Waste Systems Operators
(d) NAVMED P-5010-5
(e) BUMEDINST 6240.10
(f) OPNAVINST 5090.1D
(g) ANSI/AWWA C651-14 Disinfecting Water Mains
(h) ANSI/AWWA C654-13 Disinfection of Wells
(i) ANSI/AWWA C652-11 Disinfection of Water Storage
Facilities
(j) UG-2029-ENV (May 1998) Cross Connection Control and
Backflow Prevention Program
(k) 40 CFR Parts 141 and 142 Drinking Water National
Primary Drinking Water Regulation, and Total Coliform
Final Rule
(l) NASPAXRIVINST 5090.5A

Encl: (1) NAS Patuxent River Total/Fecal Coliform Response
Activity Flow Chart

1. Purpose. To establish procedures and define responsibilities for connecting to and monitoring the Potable Water Supply, Plants, and Distribution Systems on board Naval Air Station (NAS) Patuxent River, Webster Outlying Field, Solomons Navy Recreation Center, and other locations coming under the Installation Commanding Officer's area of responsibility.

2. Cancellation. NASPAXRIVINST 5090.6

3. General. References (a) through (f) provide guidelines to ensure that public water supply systems meet minimum national standards for protecting the public's health. To ensure a high quality, sanitary supply of this essential commodity, continuous and effective communication must exist between the NAS Patuxent

19 Nov 2015

River Public Works Utilities Division, the Public Works Environmental Division, and the Naval Health Clinic Patuxent River (NHCPR), Preventive Medicine Department.

4. Responsibilities.

a. Installation Commanding Officer.

(1) Provide a supply of potable water that meets or exceeds state and federal criteria for water quality to permanent personnel living and/or working aboard NAS Patuxent River Naval Complex.

b. Public Works Officer.

(1) Operate and maintain the Patuxent River Naval Complex's potable water plants and distribution systems, in a manner that meets or exceeds State of Maryland, Federal, and Navy drinking water quality standards.

(2) Develop and implement a quality control program to identify and correct potable water system deficiencies and upgrade equipment in accordance with life cycle management requirements.

(3) Develop and implement an emergency plan. In accordance with reference (b), the supplier of water to a community water system shall have an emergency plan provision approved by the State of Maryland to assure adequate safe drinking water for human survival.

(4) Coordinate with the Preventive Medicine Department for all determinations requiring the classification of the water supply as potable or non-potable. If the Preventive Medicine Department determines bottled water is required, coordinate the purchasing and distribution of bottled water as necessary until the water is once again deemed potable by NHCPR Preventive Medicine Department.

(5) Consult with the NHCPR Preventive Medicine Department and the Utilities and Environmental Divisions concerning potable water issues.

19 Nov 2015

c. Public Works Utilities Division.

(1) Ensure the water supply is potable and free from disease producing organisms, hazardous concentrations of toxic materials, and objectionable color, odors, and taste. At a minimum, ensure the water supply meets or exceeds those standards established by the State of Maryland (reference (c)) and the Environmental Protection Agency (EPA).

(2) Establish a rate structure that will cover the life cycle management costs associated with the operation and maintenance of the potable water plants and distribution systems identified within the Patuxent River Naval Complex.

(3) Ensure that all connections or changes to the potable water system (i.e. equipment connected to laterals, installation of new laterals and mains, repairs made to laterals and mains, extensions or repairs to potable water lines within existing facilities, storage facilities, and wells) are disinfected before being placed into service per references (g), (h), and (i).

(4) Identify, isolate, and correct potential sources of contamination to the distribution system.

(5) Notify the Environmental Division and NHCPR Preventive Medicine Department upon discovery of water supply leaks and/or contamination. If water is contaminated due to failure to meet Total and Fecal Coliform standards, implement enclosure (1).

(6) Maintain quality control data to ensure adherence to State of Maryland requirements and regulations.

(7) Ensure all personnel who will be working with potable water are trained and/or supervised by a current State of Maryland certified Operator and/or Superintendent for Potable Water Plants and Distribution Systems per reference (c).

(8) Ensure all types of chemical additives to potable water supplies are used in proper concentrations and approved by the State of Maryland and the EPA.

19 Nov 2015

(9) Ensure water quality/chemical analysis is conducted in accordance with operational method, frequency, and numbers of samples, and to include State of Maryland requirements. Copies of all reports of water quality/chemical analysis shall be reported to the Maryland Department of Environment (MDE) within the prescribed deadlines with copies to the Public Works Environmental Division, and the NHCPR Preventive Medicine Department.

(10) Ensure a current chemical analysis of the water system is on file and re-analyzed as required by state law.

(11) Maintain a cross-connection and backflow prevention program that satisfies the requirements contained in references (b) and (k), which establish policy, procedures, instructions for installing, repairing, maintaining, inspecting, and testing backflow preventers by properly trained and certified personnel.

(12) Maintain and update copies of diagrams depicting the potable, sanitary, and fire water systems at the NAS Patuxent River Naval Complex.

d. Public Works Environmental Division. The Environmental Division has an advisory role and will recommend corrective measures when any phase of water sanitation is unsatisfactory. The Environmental Division will:

(1) Maintain close liaison with Federal, State, Local, and Navy regulatory authorities pertaining to current drinking water regulations to ensure compliance. This will include notification of the NAS Patuxent River Commanding Officer, via the Public Works Officer, and notification of appropriate state and federal agencies in accordance with reference (b).

(2) Ensure that all Maryland sampling and analysis requirements are being accomplished and reported on time in accordance with the State of Maryland's Annual Sampling Plan.

(3) Have access to a copy of the plumbing schematic diagrams of the potable water, firefighting, and sanitary waste systems.

19 Nov 2015

(4) Maintain all records forwarded from the Public Works Utilities Division on chemical and bacteriological analysis of the potable water system.

(5) Provide recommendations, when requested, regarding the disinfecting of all new additions or repairs to water mains, laterals, pumps, storage tanks, and other units involved in the water system.

(6) Confirm copies of all chemical analysis have been received by the NHCPR Preventive Medicine Department.

(7) Create, maintain, and disseminate annual Consumer Confidence Reports (CCR) as required by the State for the NAS Patuxent River Naval Complex.

e. NHCPR Preventive Medicine Department. Preventive Medicine is responsible for monthly bacteriological testing in accordance with reference (d).

(1) Ensure water bacteriological testing is completed to support and/or to supplement testing by the Environmental Department. This will include random bacteriological sampling of ice machines onboard the installation. Any ice machine found to have bacterial growth will be secured, thoroughly cleaned, sanitized, and sampled again. Contaminated ice machines will remain secured until two consecutive tests have proven bacterial growth no longer exists.

(2) Notify the NAS Patuxent River Public Works Utilities and Environmental Divisions when a positive water sample is found. Public Works will retest the system and, if the second test is positive, collect three repeat samples within 24 hours and contact MDE if any repeat samples prove positive per reference (b).

(3) Monitor potable water supply units for potability.

(4) Determine the potability of water supplied by the Navy at NAS Patuxent River, Webster Outlying Field, and Solomons Navy Recreation Center.

19 Nov 2015

f. NAS Patuxent River Department Heads, Competency Managers, Officers-in-Charge, Tenant Activities, and contractors operating at the NAS Patuxent River Complex.

(1) Shall not tap into water mains and service lines or connect equipment to a potable water source without receiving written approval to do so from the Public Works Utilities Division. This review and approval step is related to ensure reference (j) requirements are being met.

(2) Per reference (1), if equipment and/or a process associated with the equipment being connected generates a waste stream, written approval must also be received from the Public Works Environmental Division prior to connection and use to ensure that a waste stream analysis is completed. Completion of the waste stream analysis will provide the owner and user with the proper disposal requirements for any wastes generated by the equipment and/or associated process.

5. Review. The Public Works Environmental Division shall review this instruction annually.


H. A. FLEMING

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NAS PATUXENT RIVER
TOTAL/FECAL COLIFORM RESPONSE ACTIVITY FLOW CHART

COMAR
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