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MEMORANDUM FOR NAVY OVERSEAS INSTALLATION WATER QUALITY BOARDS  
(IWQB) AND REGIONAL WATER QUALITY BOARDS (RWQB)

From: Commander, Navy Installations Command (N4)  
To: Distribution

Subj: DRINKING WATER TREATMENT CHEMICAL STANDARDS FOR U.S. NAVY  
INSTALLATIONS OVERSEAS

Ref: (a) CNICINST 5090.1 U.S. Drinking Water Quality Standards  
for Navy Installation, 4 February 2013  
(b) UFC 3-230-03 dated 1 November 2012, Water Supply:  
Water Treatment, Section 8-1  
(c) NAVMED P-5010-5 (Rev. 6-2008), Manual of Naval  
Medicine, Chapter 5, Water Supply Ashore, Section  
5-3(c) 3- Policy  
(d) CEN/TR 14269:2001 (Chemicals used for treatment of  
water intended for human consumption - Guidelines for  
the purchase of products)  
(e) NSF International Standard / American National Standard  
NSF/ANSI 60-12, Drinking Water Treatment Chemicals -  
Health Effects

Encl: (1) Interim Guidance for Drinking Water Treatment Chemical  
Standards for U.S. Navy Installations Overseas

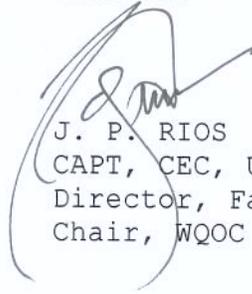
1. Enclosure (1) provides interim guidance that shall be implemented immediately to ensure a standard process is established to evaluate acceptable chemicals utilized in U.S. Navy overseas drinking water treatment processes. This interim guidance promulgates National Sanitation Foundation (NSF) Standard 60, Drinking Water Treatment Chemicals - Health Effects, as the standard applicable to all U.S. Navy installations overseas. This effort is necessary to ensure compliance with reference (a).

2. References (b) and (c) require that chemicals used in Navy water treatment systems meet the NSF 60 standard. Reference (d) describes European Union standards for chemical additives in drinking water, which is deemed equivalent to the NSF 60 standard. Reference (e) includes the quality standards for

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chemical additives in drinking water incorporated by this guidance, and will be adopted as Navy policy upon the issuance of CNICINST 5090.3.

3. As changes occur to NSF 60 standard, overseas Navy installations are subject to the changes. The Navy's Overseas Water Quality Oversight Council (WQOC) will monitor the NSF 60 standard and communicate any changes to overseas Navy installations for implementation.



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Chair, WQOC

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**Subject:** DRINKING WATER TREATMENT CHEMICAL STANDARDS FOR THE NAVY  
OVERSEAS DRINKING WATER PROGRAM

1. **Issue:** Overseas Navy installations are not required to meet the same minimum quality criteria for water treatment chemicals. In order to meet drinking water quality standards set forth in CNIC Instruction 5090.1, Water Quality for Overseas Installations, requirements must be established for treatment chemicals, since they can have a significant impact on drinking water quality.

2. **Background:**

a. CNICINST 5090.1 establishes quality standards for Navy drinking water at overseas locations. The Unified Criteria Code 30 "Water Supply: Water Treatment - Section 8-1", and NAVMED P-5010-5 "Manual of Naval Medicine, Chapter 5, Water Supply Ashore" require that chemicals used in Navy water treatment systems meet National Sanitation Foundation (NSF) Standard 60 "Drinking Water Treatment Chemicals - Health Effects". Further, the European Committee for Standardization defines European Union standards for chemical additives in drinking water through CEN/TR 14269:2001. Country-specific Final Governing Standards (FGS)/Overseas Environmental Baseline Guidance Document (OEBGD) do not incorporate NSF 60 standards.

b. This interim guidance establishes NSF Standard 60, Drinking Water Treatment Chemicals - Health Effects, as the standard applicable to all U.S. Navy installations overseas drinking water programs. It addresses the use of drinking water treatment chemicals in meeting SECNAV and Chief of Naval Operations (CNO) direction regarding overseas drinking water (ODW) quality. This guidance also ensures that, as changes occur to NSF 60 standards, overseas Navy installations are subject to the changes. The Water Quality Oversight Council (WQOC) will monitor NSF 60 standards and communicate any changes to overseas Navy installations.

3. **Procedure:**

a. Overseas Navy installations must determine the need to use water treatment chemicals. Installation Water Quality Boards (IWQBs) shall validate the requirement(s) for use (e.g. disinfection, corrosion control, etc.) for each chemical in use or proposed for use and document the validation in the Navy Overseas Drinking Water Database. A list of chemicals used shall be reported to the Regional Water Quality Board (RWQB) annually beginning December 2013, and subsequently provided to the WQOC. All lists of certified chemicals shall be maintained on the ODW database.

- b. Overseas Navy installations shall procure and use water treatment chemicals that are NSF 60 certified. NSF certified chemicals may be purchased and obtained from either U.S. manufacturers or overseas manufacturers, since many overseas manufacturers maintain NSF certification. The IWQB shall determine the most prudent course for obtaining the certified chemicals, taking into account quality assurance, availability of supply, delivery time, cost, shelf life, procurement considerations, and other related factors. The purchase and delivery of the chemicals must be accompanied by certification documentation from the manufacturer and/or the certifying entity. Certification documentation must be kept on record by the installation in the Navy ODW Data Repository.
- c. In situations where the installation is unable to obtain certified chemicals, the following alternatives will be utilized:
  - i. The IWQB must identify chemical additives that are certified IAW European Norm CEN/TR 14269:2001, Chemicals Used for Treatment of Water Intended for Human Consumption - Guidelines for the Purchase; or certified IAW host nation legislation as being equivalent to chemicals certified to comply with European Norm CEN/TR 14269:2001. Prior to purchase and use, the IWQB must obtain approval for use by the Regional Water Quality Board (RWQB), and provide the list of approved chemicals to the WQOC.
  - ii. Installations may purchase water treatment chemicals that are used locally, or are otherwise available for purchase in compliance with Navy procurement guidelines to the advantage of the government, and test for compliance with NSF 60 requirements. If test results indicate full compliance, the chemicals may be used until NSF certified chemicals become available. Testing methodology must be approved in advance by the RWQB and WQOC, and results must be approved by the RWQB and WQOC prior to approval for use.
- d. If the installation moves to a new supplier, or the supplier moves to a new source of treatment chemicals, these new chemicals must be fully evaluated to ensure they meet NSF 60 or equivalent requirements.
- e. Installations shall consult with appropriate Navy procurement officials for assistance in obtaining NSF certified chemicals and certified chemical alternatives allowed for use by this instruction.
- f. Installations shall ensure chemicals are properly transported, delivered, handled, stored, and used at all times to include, when specifying purchasing requirements,

when taking delivery of chemicals, and over the life of storage and use on the installation.

- g. The WQOC shall be responsible for monitoring changes to NSF standards for water treatment chemicals, and for identifying other treatment chemical standards that may impact the use of water quality. Any developments shall be reported immediately to the WQOC Chair.
- h. Navy RWQBs are responsible for monitoring changes to host nation standards for drinking water chemical additives, if such products are used by installations within the Region, and communicating those changes to the WQOC.