



DEPARTMENT OF THE NAVY

BUREAU OF MEDICINE AND SURGERY
2300 E STREET NW
WASHINGTON DC 20372-5300

IN REPLY REFER TO
BUMEDINST 4100.3
BUMED-332
7 Dec 98

BUMED INSTRUCTION 4100.3

From: Chief, Bureau of Medicine and Surgery

Subj: ENERGY MANAGEMENT PROGRAM

Ref: (a) OPNAVINST 4100.5D
(b) 10 CFR 435
(c) Energy Policy Act of 1992
(d) Executive Order 12902
(e) DoD 5126.46-M-2

1. Purpose. To issue policy, objectives, goals, and assign responsibilities for the Bureau of Medicine and Surgery (BUMED) Energy Management Program.

2. Cancellation. NAVMEDCOMINST 4100.1A, NAVMED 4100/2, and report control symbol MED 4100-2.

3. Background. Reference (a) sets forth the overall Navy policy, objectives, goals, and responsibilities for the management of energy resources for ships, aircraft, and shore installations through the year 2005. To meet these goals, activities must systematically and aggressively investigate all possible areas of energy management and reduction. An active energy awareness program, energy conservation projects, and proper facility maintenance are essential to effectively reduce energy consumption.

4. Policy. BUMED activities will make every effort to achieve the objectives and goals of reference (a) without compromise to proper patient care, military readiness, safety, and effectiveness.

5. Objectives

a. Maintain readiness and sustainability and reduce costs through application of more energy efficient facilities and systems.

b. Substitute, where practical and cost-effective, more abundant or renewable energy sources for petroleum.

c. Participate in demand side management and conservation programs offered by utility companies.

7 Dec 98

d. Include energy efficient improvements in repair projects where possible.

e. Develop and execute energy conservation projects.

f. Identify and train facility energy managers at all naval medical centers, naval hospitals, naval medical clinics, naval dental centers, and other appropriate BUMED activities.

6. Goals. The Chief of Naval Operations (CNO) has established the following Navy energy resource management goals for shore facilities as stated in reference (a) and in compliance with references (b) through (e). These goals are measured relative to the FY 85 baseline of energy consumption per thousand gross square feet. Reference (e) specifically requires activities to report energy consumption using the Defense Utility Energy Reporting System (DUERS). Use of the Naval Facilities Engineering Service Center's (NFESC) Energy Audit Report User Guide is recommended.

a. Existing Buildings. Reduce energy consumption by 30 percent by the end of FY 2005.

b. New Buildings. Reduce the annual design energy usage by 10 percent relative to buildings designed in FY 85. Ensure buildings comply with the energy performance standards in reference (b).

c. Shore Activities shall support the following goals to the maximum extent it is cost-effective and practical:

(1) Obtain 10 percent of energy from coal, solid fuels, and renewable sources.

(2) Comply with reference (c) as it pertains to vehicles and facilities.

(3) Identify and execute all energy conservation projects with a payback period of less than 10 years by FY 2005.

7. Action

a. Commanding officers of activities greater than 100,000 gross square feet will:

(1) Establish a formal energy management program specifying the administration, objectives, goals, and procedures

for the program within the command. The program shall include management of all energy consuming equipment including heating, ventilation and air-conditioning (HVAC), electrical appliances and systems, lighting, hot and cold water systems, steam systems, natural gas appliances and equipment, transportation assets, and other energy consuming systems and equipment. The program will establish methods to ensure equipment and systems are operated within the limits in reference (a).

(2) Appoint and train an energy conservation manager (ECM). The ECM will be tasked with the execution of the Energy Management Program, monitoring and reporting of energy consumption, and oversight of other energy conservation measures.

(3) Establish an energy conservation committee (ECC). The ECC will meet at least quarterly and will be tasked with development of the Energy Conservation Program and energy conservation projects. The ECC will consist of an appropriate number of individuals representing various departments, tenants, and detachments located at the activity.

(4) Develop and execute a facility energy plan for achieving the goals in reference (a). The plan will include specific actions identified to conserve energy and specify the estimated energy consumption reduction resulting from each action. It will be updated regularly as results of efforts are realized and new initiatives are developed.

(5) Use all available resources for identifying potential energy savings and technical assistance. Sources may include NFESC, local utility companies, public works centers, and the engineering field divisions.

(6) Establish methods to track and report energy consumption as required by reference (e) and monitor progress toward the CNO goals. Activities can monitor energy consumption through the NFESC internet site at: www.NFESC.navy.mil. Activities without proper utility metering will develop and execute projects to install utility meters. Activities having consumption reported by host activities should establish a method to receive progress reports from the host monthly. Results should be posted, publicized, and distributed throughout the command.

(7) Establish and support an active energy conservation awareness and education program. The program will include

7 Dec 98

observance of Energy Conservation Week, as well as active and conspicuous support of conservation throughout the year.

(8) Develop and execute projects to reduce energy and water consumption following the facility energy plan. Forward projects estimated to exceed the commanding officer's funding limits to BUMED for funding in the Special Projects Program or through other energy project funding sources. Document such projects on a DD 1391 and include calculation of the savings to investment ratio and payback period. Investigate and use all possible sources of conservation measures, to the fullest extent possible, including the Energy Conservation Investment Program, energy savings performance contracts (ESPC), and local utility company programs.

(9) Regularly document energy conservation results, projects, and other program efforts and submit nominations for energy conservation awards as appropriate.

b. Commanding officers of activities with less than 100,000 gross square feet will:

(1) Elect to either establish their own energy conservation program, similar to larger activity requirements, or participate in their host installation's program. Activities electing not to establish their own program will appoint an energy monitor to represent the activity in the host installation's energy conservation program.

(2) Establish and support an active energy conservation awareness and education program. The program will include observance of Energy Conservation Week, as well as active and conspicuous support of conservation throughout the year.

c. Naval Healthcare Support Offices will:

(1) Assist activities in establishing and executing effective energy conservation programs.

(2) Assist activities in developing energy conservation projects and associated documentation.

(3) Review, endorse, and forward energy conservation projects.

(4) Review, endorse, and forward energy conservation award nominations.

d. BUMED will:

(1) Solicit, evaluate, and fund energy conservation projects and energy audits.

(2) Forward projects to alternate sources for funding as appropriate.

(3) Solicit, endorse, and forward energy conservation award packages as appropriate.

(4) Monitor activity energy conservation progress and provide guidance as necessary.

8. Reporting Requirements. Forward reports mentioned in this instruction per the reporting requirements of references (a) and (e).

9. Form. DD 1391 (12-76), FY 19__ Military Construction Project Data, S/N 0102-LF-001-3910 is available per CD ROM NAVSUP PUB 600(NLL) and the web at: <http://web1.whs.osd.mil/icdhome/DDEFORMS.HTM>.



D. C. ARTHUR
Assistant Chief for
Health Care Operations

Distribution:

SNDL, C52D (NAVUSEAMEDINSTITUTE NSHS DET GROTON)
FA47 (NAVHOSP)
FA48 (NAVDENCEN)
FA49 (NAVMEDCLINIC)
FB58 (NAVHOSP)
FB59 (NAVDENCEN)
FB60 (NAVMEDCLINIC)
FC16 (NAVMEDCLINIC)
FC17 (NAVHOSP)
FC18 (NAVDENCEN)
FH4 (NAVMEDLOGCOM FT DETRICK)
FH13 (NAVHOSPCORPSCOL GREAT LAKES)
FH15 (NAVENPVNTMEDU)
FH16 (NAVDISVECTECONCEN)
FH18 (NAVOPMEDINST PENSACOLA)
FH21 (NAVOPHTHALSUPTRACT YORKTOWN)
FH24 (NAVMEDINFOMGMTCEN BETHESDA)

BUMEDINST 4100.3

7 Dec 98

Distribution: (Continued)

SNDL, FH26 (NAVENVIRHLTHCEN NORFOLK)
FH28 (NSHS)
FH33 (NAVDRUGLAB)
FH35 (FLEHOSPOTC CAMP PENDLETON)
FH36 (HLTHCARE SUPPO)
FT108 (NAVHOSP)
FT109 (NAVDENCEN)
FT110 (NAVMEDCLINIC)
FW1 (NATNAVMEDCEN BETHESDA)
FW2 (NATNAVDENCEN)
FW3 (NAVHOSP)
FW4 (NAVMEDCLINIC)

Available at:

<http://support1.med.navy.mil/bumed/instruct/external/external.htm>