



DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
WASHINGTON NAVY YARD DC 20376-0001
BUREAU OF MEDICINE AND SURGERY
WASHINGTON DC 20372-5300

9210
Ser 08R/05-03570
12 Jan 06

BUMED
6470
Ser M342/06UM3004
09 Jan 06

**MEMORANDUM OF AGREEMENT
BETWEEN
DIRECTOR, NAVAL NUCLEAR PROPULSION
AND
CHIEF, BUREAU OF MEDICINE AND SURGERY**

1. **Purpose.** Presidential Executive Order 12344 of February 1, 1982, as set forth in Public Laws 98-525 (42 USC 7158 note) and 106-65 (50 USC 2406), assigns to the Director, Naval Nuclear Propulsion, the responsibility for the control of radiation and radioactivity associated with naval nuclear propulsion activities, including prescribing and enforcing standards and regulations for these areas as they affect the environment and safety and health of workers, operations, and the general public. Chief, Bureau of Medicine and Surgery (BUMED), has responsibility for medical policies affecting military and Navy civilian personnel in the Naval Nuclear Propulsion Program (NNPP) (also referred to as Naval Reactors). This requires that there be close coordination between BUMED and Naval Reactors. Therefore, Chief BUMED and the Director, Naval Nuclear Propulsion agree that the policies specified in this memorandum of agreement (MOA) will be followed.

2. **Agreement / Understanding**

a. *Program Management*

(1) The Head, Undersea Medicine/Radiation Health, BUMED implements policy and procedures regarding nuclear propulsion medical and radiation health matters. The Head is a senior undersea medical officer in the grade of captain. The Head, Undersea Medicine/Radiation Health shall be permitted to confer directly with and advise the Chief, BUMED and all echelons of the Navy Medicine organization on all matters concerning the NNPP and the Naval Radiation Health Program.

(2) The Head, Undersea Medicine/Radiation Health will serve as the point of contact on medical matters and issues relating to radiation and radioactivity associated with naval nuclear propulsion plants. Changes to policies affecting these matters and issues will be provided to Naval Reactors for review prior to implementation.

(3) The Head, Undersea Medicine/Radiation Health will have review responsibility for all medical waivers and disqualification cases for submarine duty, nuclear field duty, and occupational exposure to ionizing radiation for military and Navy civilian personnel in the NNPP. The Head, Undersea Medicine/Radiation Health will chair the BUMED Radiation Effects Advisory Board.

(4) All inquiries to BUMED regarding radiation health and medical issues associated with naval nuclear propulsion plants will be referred to the Head, Undersea Medicine/Radiation Health for response. For all inquiries from within the Navy that involve a policy change and for all inquiries originating outside the Navy (except for routine requests, such as for exposure history), a copy of the inquiry and proposed response will be provided to Naval Reactors for review prior to issue.

(5) Both Naval Reactors and BUMED will keep each other informed of any alleged, potential, or actual radiation injury of personnel receiving radiation exposure associated with naval nuclear propulsion plants. This includes the initiation and status of claims against the Government concerning radiation injury.

(6) Naval Reactors will consult with BUMED on changes to naval shipyard, Fleet maintenance activity, and forces afloat dosimetry requirements. Naval Reactors will provide any new dosimetry system used in the Naval Nuclear Propulsion Program to BUMED for review prior to implementing the system.

(7) Naval Reactors and BUMED will keep each other informed of issues that affect or might affect maintaining adequate staffing and facilities to support field organizations involved in naval nuclear propulsion.

b. *Audits*

(1) In coordination with Naval Reactors, BUMED Headquarters (Undersea Medicine/Radiation Health) will conduct annual audits of the Radiation Health Programs at naval nuclear propulsion sites, including nuclear-capable naval shipyards, Naval Reactors prototype or moored training ship sites, and Fleet maintenance activities.

(2) Pursuant to DOD Instruction 6025.18-R, only personnel designated responsible for radiation health matters at organizations involved in naval nuclear propulsion will be permitted to audit radiation health aspects of personnel health records.

c. *Naval Undersea Medical Institute*

(1) The Naval Undersea Medical Institute (NUMI) provides instruction in radiation health matters to all enrolled hospital corpsmen, Medical Service Corps officers, Medical Corps officers, and other medical department personnel. These students will or could be assigned to nuclear-powered ships, nuclear-capable maintenance facilities (Fleet maintenance activities and shipyards), and supervisor of shipbuilding offices. Course content related to the NNPP will be reviewed annually by BUMED Undersea Medicine/Radiation Health. Any changes to training program content related to the NNPP shall require BUMED and Naval Reactors approval prior to implementation.

(2) Students at this school who will be or could be assigned to naval nuclear-powered ships (or to maintenance activities supporting these ships or to other activities that require undersea medical support) are required to pass both a comprehensive written and oral examination (applies to Undersea Medical Officers, Radiation Health Officers, and Submarine Force Independent Duty Corpsmen) before being assigned. Naval Reactors will provide one voting member of the final oral examination boards for officers and may provide a voting member for enlisted oral boards. A negative vote by any member of the examining board for the final oral examination shall result in failure.

(3) The Naval Reactors Representative, Groton, will have direct access to personnel and material associated with NUMI.

d. *Naval Dosimetry Center*

(1) The Naval Dosimetry Center (NDC) provides dosimetry services for Navy personnel not covered by the NNPP, including operations conducted under the Navy's Master Material License from the Nuclear Regulatory Commission. NDC also provides technical support in the area of radiation dosimetry to all Navy activities, and tracks and reports on participating command compliance with dosimetry processing procedures and shipping requirements listed in NAVMED P-5055, Navy Radiation Health Protection Manual.

(2) NDC will provide technical support and services in support of the DT-702/PD dosimetry program in the NNPP. Specifically, NDC will assist in the set up of new reader systems, maintain the dose algorithm for DT-702/PD processing, provide necessary documentation to support accreditation through the National Voluntary Laboratory Accreditation Program, calibrate dosimeters, assist with resolution of processing problems related to NDC-provided services and software, and perform other functions as appropriate and agreed to by BUMED Undersea Medicine/Radiation Health and Naval Reactors.

(3) Specific conditions and requirements pertaining to NDC support of the NNPP DT-702/PD dosimetry program will be detailed in a separate memorandum of agreement between NDC and Naval Reactors.

(4) BUMED (Undersea Medicine/Radiation Health) and Naval Reactors will conduct an inspection of NDC at least annually.

e. *Field Organizations Involved in Naval Nuclear Propulsion.* The provisions of this section apply to nuclear-capable naval shipyards, Naval Reactors prototype or moored training ship sites, Fleet maintenance activities, and the Naval Nuclear Power Training Command. The term *commanding officer* as used in this section applies to commanders of naval shipyards; commanding officers of Fleet maintenance activities; Commanding Officer, Naval Nuclear Power Training Command; commanding officers of the Naval Nuclear Power Training Units; and site managers of Naval Reactors prototype sites. The commanding officer and the local medical command shall establish a local MOA for coordinating nuclear propulsion medical and radiation health matters. Naval Reactors' review will be obtained for such agreements. These agreements shall include the following:

(1) The local agreement shall require that a local medical representative be designated in writing to fulfill the responsibilities of sections 2.b. and 2.e. of this document.

(2) The medical representative will keep the commanding officer or his designated representative informed on all matters in the medical facility concerned with radiation or radioactivity associated with naval nuclear propulsion plants, including the following:

(a) All inquiries regarding medical surveillance, emergency medical, or radiation health issues related to naval nuclear propulsion plants.

(b) Actual, potential, or alleged radiation injuries of personnel.

(c) Medical disqualification of personnel for radiation work.

(3) The commanding officer or his designated representative will keep the medical representative informed of medical and radiation health issues involving naval nuclear propulsion.

(4) When acting in their official capacities, the resident Naval Reactors Representative (or the nearest Naval Reactors Representative, as appropriate), Naval Reactors, and the commanding officer or their designated representative will have direct access to personnel and records associated with NNPP radiation health matters at the medical facility, including the medical representative in charge of the medical facility. The medical representative or his designated representative, when acting in his or her official capacity, will have direct access to personnel and records associated with radiation health matters at the nuclear facility, including the commanding officer of the facility.

f. Chief BUMED will issue appropriate direction to affected commands to ensure the above described responsibilities and interactions are carried out.

3. **Effective Date.** This agreement is effective upon signature and supersedes and cancels the Memorandum of Agreement of 18 September 2001 between the Director, Naval Nuclear Propulsion Program and the Chief, Bureau of Medicine and Surgery. Revisions to this agreement may be made by mutual consent of both organizations. This memorandum of agreement will remain in effect unless BUMED or Naval Reactors withdraws from the agreement by providing written notice to the other party.



KIRKLAND H. DONALD
Admiral, U.S. Navy
Director, Naval Nuclear Propulsion



DONALD C. ARTHUR
Vice Admiral, Medical Corps, U.S. Navy
Chief, Bureau of Medicine and Surgery