

Glaser



DEPARTMENT OF THE NAVY  
BUREAU OF MEDICINE AND SURGERY  
WASHINGTON, D.C. 20390

IN REPLY REFER TO

BUMEDINST 6470.11

BUMED 7116:gw

~~14 October 1971~~

BUMED INSTRUCTION 6470.11

From: Chief, Bureau of Medicine and Surgery

Subj: Biological Effects of Electromagnetic Radiation  
Project Office; designation of

Encl: (1) Charter for Project Office

1. Purpose. This Instruction:

a. Designates a BUMED Project Office, entitled Biological Effects of Electromagnetic Radiation (EMR).

b. Promulgates a Charter which specifies the scope, operating relationships, and organization and delineates the authority and responsibilities of the Project Office within the Bureau of Medicine and Surgery.

2. Background

a. The United States Navy relies very heavily upon the use of electromagnetic radiation (EMR) in the operation of its Forces. The frequency of emission of EMR devices varies from extremely low frequencies of about 45 hertz all the way through the electromagnetic spectrum into the ultraviolet light range. The Navy has long recognized the potential hazards of EMR to other electronic devices, ordnance, and fuel, but recognition and emphasis as to what effects EMR has upon naval personnel has been lacking. While there are certain safety standards constraining the use of microwave and LASER radiation, there are presently many questions as to the acceptability, the universality, and the fundamental scientific basis for these standards.

b. Recent events make it imperative that a concerted effort be made to clearly define the mechanisms of EMR interaction with biological systems, determine threshold levels

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of such interaction, and provide a sound scientific basis upon which acceptable standards can be set for electromagnetic radiation exposure.

c. As a result of discussions with the office of the Assistant Secretary of the Navy (R&D), Naval Material Command, and the SYSCOMS concerned, it has been determined that the need for medical biological information concerning the effects of EMR is of sufficient urgency and importance to warrant extraordinary attention and emphasis. Toward this end, the Chief of Naval Development has established a coordinator within NAVMAT for coordinating requirements originating at that level.

### 3. Action

a. Commander Paul E. Tyler, MC, USN, is designated as Head, Biological Effects of Electromagnetic Radiation Project Office. He shall report directly to the Director, Research Division, BUMED. He shall establish direct contact with responsible persons within the office of ASN(R&D), OPNAV, ONR, NAVMAT, and the SYSCOMS, as required, for the purpose of integrating and coordinating the overall medical/biological research effort in electromagnetic radiation.

b. The Director, Research Division, shall provide administrative support and recommended staff allowance for the Biological Effects of Electromagnetic Radiation Project Office.

c. The Project Office shall be staffed to execute the responsibilities delineated in the Charter. Initial staffing is to be as specified in paragraph 7, thereof.

  
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CHARTER FOR THE BIOLOGICAL EFFECTS OF ELECTROMAGNETIC RADIATION  
PROJECT OFFICE

1. Introduction

a. Purpose. This Charter establishes the mission, authority, and responsibility of the Project Office and provides for its scope, operating relationships, organization, and resources.

b. Definitions. The following definitions apply:

(1) Coordination Authority. The coordination authority granted by this Charter to the Head, Project Office, is defined as that guidance, direction, and monitorship exercised by him over electromagnetic radiation projects and tasks assigned to the Bureau of Medicine and Surgery. This authority will include, but not be limited to, origination of plans, schedules, and funding requirements to bring each element into concert for the timely completion of all assigned tasks.

(2) Integration. Integration is defined as the process and actions necessary to maintain a balanced, effective biological research program in terms of objectives, phasing priorities, using of resources, and compatibility between tasks. It includes integration of the program with other related DOD programs, programs of the Navy SYSCOMS, and other Federal agencies.

2. Project Description. This project consolidates all medical/biological research programs of EMR within the purview of the Bureau of Medicine and Surgery. Included are LASERS and the entire electromagnetic spectrum from cosmic rays to extremely low frequency. Primary interest at this time is centered upon the microwave and extremely low frequency areas, but programs will be conducted as required, in all areas of interest to the U.S. Navy.

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3. Mission. The mission of the Project Office is to provide the Chief of the Bureau of Medicine and Surgery and the Operating Forces of the Navy, and other Services and agencies when requested, with information and research data concerning the biological effects of electromagnetic radiation; to develop and maintain an overall research program that is responsive to the policies, needs, and requirements of the Navy; to ensure the effective interaction between the medical and engineering communities to insure that present and future research efforts have scientific merit and can be integrated with other projects and programs within the Navy, within other DOD components, and within other government agencies; and to promote and assist the maintenance of major research and technology efforts whose content and timing are consistent with future Navy and DOD objectives.

4. Authorities of the Head Project Office

a. General. The Head, Project Office, is the single central executive responsible for the successful management of the Project and the accomplishment of the mission as stated in this Charter. He has direction authority within the scope of the Project over the planning, direction, and utilization of resources approved for the Project and over Project efforts of in-house and contractor organizations. As the responsible executive he is expected to act on his own initiative in matters affecting the project. In these cases or where there are conflicts which he is unable to resolve, he shall refer the action to appropriate higher authority with his recommendations, including alternatives available.

b. Executive Authorities. The Head, Project Office, is delegated the executive authorities to:

(1) Make the necessary technical and business management decisions on all matters within the scope of the Project.

(2) Establish work tasks and schedules for work accomplishment, and determine cost estimates for planned work tasks.

(3) Issue under the Head, Project Office, own signature such correspondence, technical direction, planning documents, and management plans as may be necessary to ensure that his Project is properly managed.

(4) Establish direct communication channels with participants in his Project.

(5) Plan, organize, and administer his immediate Project Office.

(6) Prepare and sign efficiency reports on civilian personnel assigned to the Project Office.

(7) Prepare and forward for signature fitness reports of military personnel assigned to the Project Office.

c. Limitation of Authorities. These authorities are not delegated:

(1) The authority to deviate from established DOD or Department of the Navy policies.

(2) The authority to approve the Projects Technical Development Plan.

(3) The authority to change any directive, notice, or mission guidance established by higher authority.

5. Responsibilities of the Project Office. The Head, Project Office, shall:

a. Provide centralized integration and coordination over the Navy's Biological Effects of Electromagnetic Radiation Program, to meet the requirements established by the ASN(R&D), Chief of Naval Operations, Chief, Bureau of Medicine and Surgery, or the Chief of Naval Development. He shall consult with and advise responsible parties within the office of ASN(R&D), CNO, CND, Chief BUMED, as to the status of the overall program and as to progress being made in the bio-medical research effort.

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b. Exercise centralized integration and coordination over the preparation and justification of budget items for the Biological Electromagnetic Radiation Program.

c. Establish and promulgate detailed initial and long range research objectives in compliance with current instructions.

d. Provide higher authority with reports (technical, cost, schedule, etc.) in accordance with applicable directives.

e. Prepare and maintain a file of research reports, new items, accidents, Congressional hearings, industrial reports, and guidelines that are pertinent to the Navy interest in the biological effects of EMR.

f. Review all work that has been accomplished and all on-going research efforts for significant results and validity of results, and determine research areas where further or new research is required.

g. Provide expertise to monitor on-going Navy research by review of progress reports, conferences, and on-site visits as they may be required.

h. Under sponsorship of the Research Division, BUMED, appoint an advisory committee of civilian and/or military experts to provide the Project Office with advice and guidance in developing and reviewing current and future programs.

6. Specific Interface and Operating Relationships of the Project Office

a. The Project Office shall coordinate all Project Matters of concern to the SYSCOMS with the NAVMAT coordinator for Non-Ionizing Radiation.

b. The Project Office shall maintain special liaison and continuous coordination with cognizant personnel of the Bureau of Radiological Health, PHS; Army R&D Command; and the Air Force Aerospace Medical Department (Research).

7. Initial Staffing. Commander Paul E. Tyler, MC, USN, is assigned as Head, Biological Effects of Electromagnetic Radiation Project Office. A civil service position (GS-14) will be established as Assistant Head, Project Office. One secretary shall be assigned by Research Division, BUMED, for initial staffing of the Project Office.

8. Resources. All funds and material resources identified within task areas (MR041.08(6.1) and MF12.524-015(6.2)) shall be utilized by the Project Office in the execution of the approved research programs. Project funding shall be in accordance with the provisions and financial management directives from higher authority.

9. Review for Project Disestablishment. The status of this Project Office will be reviewed periodically by Chief BUMED and particularly when any major change in the Project occurs. Not later than 30 June 1975, the Head, Project Office shall prepare for Chief BUMED a report on whether the major Project objectives have been adequately met to permit disestablishment as a BUMED Designated Project.