DEPARTMENT OF THE NAVY
OFFICE OF THE SECRETARY
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WASHINGTON, DC 20350-1000

SECNAVINST 4800.11C
ONR 36
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SECNAV INSTRUCTION 4800.11C

From: Secretary of the Navy

Subj: MANUFACTURING TECHNOLOGY PROGRAM

Ref: (a) DODINST 4200.15, Manufacturing Technology Program of 24 May 85 (NOTAL)

1. Purpose. To implement the Department of Defense (DoD) Manufacturing Technology (MANTECH) Program within the Department of the Navy (DON). This instruction is a complete revision and should be reviewed in its entirety.

2. Cancellation. SECNAVINST 4800.11B.

3. Scope. This instruction is applicable to all organizations within DON responsible for the sponsorship, management, and or administration of the MANTECH Program.

4. Definitions

a. The MANTECH Program. The DON MANTECH Program provides the crucial link between advanced research and development and industrial applications. It matures and validates emerging manufacturing technologies to support implementation in industry and DON facilities, such as depots and shipyards. The Program addresses production issues from system development through transition to production and sustainment. By identifying production issues early and providing timely solutions, the MANTECH Program reduces risk and positively impacts system affordability. MANTECH projects are primarily executed through Centers of Excellence (COEs) as well as the DON Systems Commands (SYSCOMs), (including Naval Air Systems Command, Naval Facilities Engineering Command, Naval Sea Systems Command, Space and Naval Warfare Systems Command, and Naval Supply Systems Command), Marine Corps, other government agencies, and industry contracts. The DON has established the COEs in specific technology thrust areas to provide readily available expertise to assist in developing and executing individual DON MANTECH projects, and deploying and transferring new technology.

b. MANTECH Projects. A MANTECH project is a specific effort that implements new or improved manufacturing or sustainment processes, methods, techniques, or equipment into the industrial base. MANTECH projects, which transition advanced research and development from the laboratory to the shop floor, are needed when the technology that will solve a manufacturing or sustainment problem exists but is not commercially available or is beyond the normal risk of industry. MANTECH projects are production/sustainment-oriented projects based on research and development (R&D) demonstrated feasibility or extrapolation of known technology. Some MANTECH projects require further investigation and/or development of a candidate technology to confirm feasibility. These efforts shall be structured into incrementally funded phases to facilitate continuation when positive proof of concept has been demonstrated. All MANTECH projects must directly impact the production or repair of DON systems.

c. Repair Technology (REPTECH) Projects. While the major emphasis of the DON MANTECH Program is on support of new production, it also addresses repair, overhaul, and sustainment functions that emphasize remanufacturing processes and advancing technology. REPTECH projects target fielded weapon systems and provide the process and equipment technology needed to repair and maintain fleet assets. Implementations of REPTECH projects target naval depots, shipyards, Marine Corps logistics bases, organizational/intermediate maintenance activities, and contractor facilities responsible for the overhaul and maintenance of fleet hardware.

d. Rapid Response Projects. Each MANTECH COE has the capability to respond quickly to an unexpected issue that emerges as a requirement outside of the normal planning process. Rapid response projects are short-term efforts aimed at providing the resources necessary to resolve the issue or to provide a recommended solution.

5. Objectives. The overall objective of the DON MANTECH Program is to significantly improve the affordability of DON systems by engaging in manufacturing and sustainment initiatives that address the entire weapon system life cycle. More specifically, program objectives are to:

a. Reduce the risk and cycle time associated with the transition from R&D to full-scale production by developing and implementing advanced manufacturing processes and equipment.

b. Extend the life and reduce ownership costs of current DON systems by providing manufacturing technologies to support the maintenance, repair and overhaul of these systems.

c. Strengthen the industrial base by providing maximum dissemination of the results of all MANTECH projects and the best manufacturing practices of government and commercial facilities.

6. Policy. The following DON policy guidance is issued in addition to and in amplification of the policy provided in reference (a).

a. The DON MANTECH Program is an important element in the DON's efforts to be responsive to the affordable manufacturing, repair, and modernization needs of the Navy and Marine Corps. A continuing identifiable and viable DON MANTECH Program shall be maintained throughout the DON. The program shall operate through a central program office under overall direction of an executive steering committee.

b. Projects to be funded within the MANTECH Program shall meet the following criteria:

(1) DON Requirement: Each project shall address specific DON acquisition and/or logistics program requirements that have been sponsored by a SYSCOM and/or Office of Naval Research (ONR) in conjunction with the fleet, acquisition community, or life cycle management office.

(2) State of the Art Advancement: A DON MANTECH project shall establish a new, improved or more economical manufacturing and/or sustainment process, technique and/or equipment, which is beyond the current state of the art, and shall have a significant positive technological impact on the manufacturing and/or sustainment capabilities of the United States' industrial base. A technology, which is a best commercial practice, may provide the basis for a MANTECH project. The application of existing, off-the-shelf processes, methods, techniques, or equipment to solve a manufacturing problem is not acceptable as a MANTECH project.

(3) Adequate Feasibility: Research and development feasibility of the technology under consideration should have been demonstrated sufficiently to expect a high probability of project success. MANTECH projects may also be based on the extrapolation of existing technology when the effort is determined to be of sufficient difficulty that it warrants the expenditure of DON funds. This may include investing in projects that have a higher risk initial phase to confirm the feasibility of a manufacturing technology that addresses a specific DON requirement.

(4) Duplication of Effort: DON MANTECH projects shall not be duplicative of any efforts undertaken by other Services or industry.

(5) Investment Risk: A DON MANTECH project shall be undertaken or continued only when it can be demonstrated that qualified segments of industry will not commit private capital to develop the required manufacturing technology and make it available on a timely basis. Cost sharing shall be encouraged whenever possible.

(6) Implementation: A project shall not be undertaken unless there is both a strong commitment and a comprehensive transition plan to implement the results.

(7) Generic Results: Higher priority shall be assigned to DON MANTECH projects that benefit more than one DON/DoD program.

(8) Industrial Base Benefit: The technology developed must directly benefit the defense industrial base. The benefit should be financial or non-financial or a combination of both and should impact acquisition cost, life cycle cost, safety, producibility, readiness, quality, sustainability, or the environment.

c. The MANTECH Program may complement other government-sponsored programs to ensure the affordability, availability, and implementation of modern manufacturing technology in the U.S. defense industrial base. The MANTECH Program may fund projects in support of government programs provided the projects meet MANTECH Program criteria.

7. Responsibilities

a. The Assistant Secretary of the Navy (Research, Development and Acquisition) shall:

(1) Establish and oversee policies, procedures and criteria for the DON MANTECH Program.

(2) Provide executive oversight and execution authority for DON MANTECH.

(3) Receive and approve DON MANTECH Program policy.

b. The DON MANTECH Program shall have a resource and program sponsor within the Office of the Chief of Naval Operations (OPNAV) (N091). The resource and program sponsor shall:

(1) Provide overall requirements determination and programming.

(2) Review the MANTECH Program on a continuing basis to determine overall program effectiveness.

(3) Encourage participation in and promote the results of the DON MANTECH Program.

c. The DON MANTECH Executive Steering Committee (ESC), consisting of the OPNAV sponsor, senior executive members from each SYSCOM, and the Office of Naval Research, shall ensure a strong link between DON MANTECH and the acquisition community. The ESC shall:

(1) Be chaired by the Chief of Naval Research.

(2) Provide top level requirements guidance to the DON MANTECH community.

(3) Review and approve MANTECH Program policy and the SYSCOMs' short and long term planning submissions.

(4) Resolve DON MANTECH Program issues.

d. The Director, DON MANTECH Program, ONR shall be responsible for central management and execution of the DON MANTECH Program. The Director shall:

(1) Provide overall policy and guidance for the execution of the DON MANTECH Program.

(2) Establish central program goals and guidance consistent with DON needs and requirements.

(3) Per the Navy MANTECH Strategic Planning and Execution Process, consolidate and balance MANTECH short and long term planning submissions.

(4) Submit annual budget requirements for the DON MANTECH Program.

(5) Execute annual allocated funding for the DON MANTECH Program.

(6) Provide guidance for the concept and operation of all COEs.

(7) Assess and evaluate the effectiveness of the DON MANTECH Program.

(8) Develop, maintain, and manage the DON MANTECH Program databases.

(9) Represent the DON on DoD MANTECH panels and solicit and assign participants from within the DON MANTECH community.

(10) Recommend contracting officers representative (CORs) and determine execution strategy for COE and Non-COE efforts.

e. Each SYSCOM is responsible for formulating the requirements and the administration of the MANTECH Program within their respective commands, subject to overall guidance provided by the ESC and the DON MANTECH Program Director. Each SYSCOM shall support an active, robust DON MANTECH Program within their command and provide the necessary resources to ensure that the DON MANTECH Program addresses the affordability of weapon systems under their cognizance. Each SYSCOM shall:

(1) Provide a senior executive to serve on the ESC.

(2) Establish and maintain a MANTECH Program Office within their command, with adequate visibility and support,

including manpower to effectively carry out responsibilities for management, planning, execution, technology transfer and overall coordination of an effective SYSCOM MANTECH Program.

(3) Provide planning, technical and administrative support to the Director, DON MANTECH Program.

(4) Coordinate with Program Executive Officers Program Managers, Direct Reporting Program Managers, and other SYSCOM components to examine long term acquisition, sustainment, and overhaul requirements within their respective purview; to develop and document MANTECH transition plans; and to determine SYSCOM needs where critical gaps or limitations exist.

(5) Provide and support liaison with DoD activities, other Federal agencies, contractors, and industry associations to assist in ensuring exchange of information relative to the DON MANTECH Program and to preclude duplication of effort.

(6) Maintain close working relationships between the MANTECH and science and technology communities within their organizations to ensure efficient technology transfer of emerging technologies to implementation and to ensure identification of future DON MANTECH opportunities.

(7) Recommend technical assistants (TAs) to support the CORs in project planning and technical monitoring per the Navy MANTECH Strategic Planning and Execution Process.

(8) Provide representative(s) to serve on joint service MANTECH planning committees.

(9) Coordinate with the CORs in conducting and supporting COE reviews.

(10) Coordinate with the CORs to assign SYSCOM representatives to COE advisory boards as appropriate.

(11) For non-COE projects managed by the SYSCOMs, provide required information and data to the Director, DON MANTECH Program.

f. The CORs shall:

(1) Provide overall COE program management support, including technical direction to the Contracting Officer, to facilitate project execution per the Navy MANTECH Strategic Planning and Execution Process.

(2) Provide to the contracting officer all necessary contractual requirements documentation.

(3) Coordinate with TAs to develop individual DON MANTECH project strategy and planning.

(4) Coordinate end-of-project briefings and demonstrations. In addition, industry briefings and/or demonstrations are to be conducted at appropriate points during the project development phases to facilitate early technology transfer.

g. TAs shall be identified by the SYSCOMs and appointed by the COR in project development and execution per the Navy MANTECH Strategic Planning and Execution Process. TAs shall:

(1) Provide technical expertise to the COR in technical project planning and execution per the MANTECH Strategic Planning and Execution Process.

(2) Coordinate with and represent the project stakeholder to ensure that the project satisfies the Program Office requirement.

(3) Evaluate contractors' proposals and provide recommendations to the COR.

(4) Assist the COR in the development of all project planning and contractual requirements documents based on input from all participants.

(5) Provide recommendations to the COR regarding project continuation, redirection, or termination as appropriate.

(6) Promote open communication with all participants and stakeholders on the project team.

(7) Coordinate and/or facilitate implementation of project results and technology transfer and deployment.

8. Funding. The Government's share of the DON MANTECH Program shall be funded from the Industrial Preparedness line, Program Element 0708011N, Research, Development, Test & Evaluation, Navy.

9. Action. Addressees shall take the necessary steps to implement the DON MANTECH Program as outlined in this instruction.

Gordon R. England
Secretary of the Navy

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