



DEPARTMENT OF THE NAVY

OFFICE OF THE SECRETARY
WASHINGTON, D.C. 20350-1000

SECNAVINST 4790.5
ASN(S&L) SS
17 MAY 1989

SECNAV INSTRUCTION 4790.5

From: Secretary of the Navy

Subj: SERIAL NUMBER TRACKING OF SELECTED PARTS, COMPONENTS, AND
END ITEMS

Encl: (1) DOD Instruction 4140.54 of 19 Sep 85

1. Purpose. To implement enclosure (1) within the Department of the Navy.

2. Policy. Department of the Navy activities will implement serial number tracking of selected parts, components, and end items to meet the requirements of policy set forth in enclosure (1).

3. Responsibilities

a. The Deputy Chief of Naval Operations (Logistics) (OP-04) is designated as the Department of the Navy's focal point for serial number tracking and is hereby assigned the following responsibilities:

(1) Issue a directive implementing the requirements of enclosure (1) in coordination with Headquarters, Marine Corps and with Navy Systems Commands having responsibility for the acquisition and maintenance of weapon systems, equipments, and initial/replacement spare parts;

(2) Ensure that the directive reflects a comprehensive, integrated, and coordinated approach to implementing the requirements of enclosure (1);

(3) Monitor implementation and compliance with the requirements of enclosure (1); and

(4) Assess the applicability and feasibility of incorporating into the Department of the Navy efforts serial number tracking technology/management systems employed by other services.

b. Navy Systems Commands and Headquarters, Marine Corps will work with the Department of the Navy focal point to assure that the requirements of enclosure (1) are implemented in a comprehensive, integrated, coordinated and expeditious manner.



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EVERETT PYATT
ASSISTANT SECRETARY OF THE NAVY
(SHIPBUILDING AND LOGISTICS)

SECNAVINST 4790.5

17 MAY 1989

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Department of Defense INSTRUCTION

SECNAVINST 4790.5

17 MAY 1989

September 19, 1985

NUMBER 4140.54

ASD (A&L)

SUBJECT: Serial Number Tracking of Selected Parts, Components, and End Items

- References:
- (a) Joint Regulation NAVMATINST 4130.1A/AFR 65-3/AR 70-37, "Configuration Management," July 1, 1974
 - (b) National Security Agency Instruction No. 4005, "Safeguarding and Control of Security Communications Material," October 12, 1979
 - (c) DoD Directive 5000.19, "Policies for the Management and Control of Information Requirements," March 12, 1976

A. PURPOSE

This Instruction:

1. Establishes a program whereby the Military Services and Defense Agencies will (a) design, modify, and enhance their maintenance data systems and procedures to permit the tracking of parts, components, and end items (hereafter referred to as "items"), as selected by the Military Services, by serial number, and (b) expedite the introduction of actual tracking by an orderly, evolutionary process. Item identification and control shall be in accordance with references (a) through (c).

2. Establishes the Joint Serial Number Tracking Committee (JSNTC).

B. APPLICABILITY

This Instruction applies to the Military Departments and to those Defense Agencies having responsibility for maintenance of equipment. The term "Military Services," as used herein, refers to the Army, Navy, Air Force, and Marine Corps.

C. OBJECTIVE

The objective of serial number tracking is to establish cost-effective programs whereby selected items are tracked by serial number (or an equivalent identification "tool") and the data so obtained is used to:

1. Facilitate the tracking of the performance of items by manufacturer and by lot.

2. Facilitate isolation of diagnostic problems and their causes through identification of specific configurations of a component or system.

3. Increase maintenance productivity by enabling identification of problem equipment through historical analysis; ordering spares that match configuration of the end item; and better scheduling of maintenance.

Enclosure (1)

4. Increase the reliability of repaired components via the identification and removal of "bad actor" components.
5. Reduce the need for complete replacement of parts and subassemblies by having detailed histories of systems and equipment.
6. Facilitate and expedite component modification programs by tracking the performance of various configurations for comparing, controlling, and scheduling of modification and updates of items as improvements are identified.
7. Reduce the premature condemnation of life-limited items through enhanced availability of accurate usage data.
8. Enhance the ability to mature new weapon systems by separating cause from symptom and then tracking the configuration of components to speed the correction-of-deficiency process and to assist in determining if an approved engineering change has accomplished its intended purpose.
9. Provide valuable information to supply organizations to improve requirements calculations and issue decisions by being able to order parts by specific configuration, and by updating source, maintenance and recoverability codes, which result in better provisioning.
10. Improve weapon system readiness by improving system availability.
11. Improve system safety by tracking usage data on life-limited, safety-related components, and establishing the capability to locate quickly parts with a suspected or confirmed safety problem so that they can be inspected, analyzed, and removed.
12. Support and promote maintenance data collection systems through enhanced and more efficient use of automation.

D. PROCEDURES

1. This Instruction specifies ways to design, modify, and enhance maintenance data systems and maintenance processes.
2. The maintenance data systems and processes affected directly by this Instruction are to be designed, modified, and enhanced so they will be capable of tracking selected high-value items by serial number, as long as serial numbers have been or could be affixed or otherwise indicated on the individual units.
3. Occurrences to be tracked on individually selected serial numbered items initially will include, if appropriate, failures, usage factors (miles, hours, and rounds) removals, bench check findings, subassemblies and parts replaced during repair of the parent assembly, installation on weapon systems or parent equipments, modifications, configuration, maintenance man-hours consumed, repair times, and completion of repair or overhaul. Occurrences should be reviewed periodically, to ensure these are necessary in keeping with the goals of collecting maintenance data by serial number.

4. The goal is to promote cost-effective programs that provide timely, accurate, and meaningful data on selected items by serial number to all levels of maintenance.

E. SYSTEM REQUIREMENTS

To have effective serial number tracking systems that will further the desired objectives, a concerted effort will be required in the following areas:

1. Data Accuracy. Data error rates must be maintained at a reasonably low level. In order to achieve this, the following systems design concepts shall be exploited, when appropriate.

a. Automated data input using techniques such as LOGMARS (bar coding and laser reading).

b. Online, real time editing to reconcile input data with weapon systems and equipment configuration files and with master serial number files containing information gathered from various locations.

c. Automated audit trail and followup systems to reconcile inconsistencies.

2. Interservice and Agency Data Transmittal. Since all serialized units will not be managed by the Military Service performing the maintenance, data collected and/or the results of the analysis of such data for the individual unit will be transmitted to the Integrated Materiel Manager or lead Military Service (Item Managers).

3. Numbering System. Numbering items will be in accordance with the standard approach contained in the Joint Regulation NAVMATINST 4130.1A/AFR 65-3 AR 70-37 (reference (a)).

4. Communications Security (COSMEC) Controlled Items. DoD Components will continue to provide serial number accountability for COMSEC controlled items in accordance with National Security Agency Instruction No. 4005 (reference (b)).

5. Quality Assurance. Quality assurance programs shall be established and implemented to ensure that cross service and agency reporting of processes and product quality is consistent with DoD policy.

F. POLICY

1. It is DoD policy that maintenance data systems and procedures be designed, modified, and enhanced to permit DoD Components to:

a. Track components by serial number as specified in section D., above.

b. Maintain histories of maintenance transactions by serial number.

c. Incorporate serial number information in weapon systems and equipment configuration files.

d. Exploit such serial number information to achieve the objectives enumerated in section C., above.

2. The impact of serial number tracking on functions other than maintenance will be addressed by separate memoranda, Instructions, or Directives.

3. The collection and use of serial number data shall be phased in without disruption of ongoing systems and processes.

G. ORGANIZATION AND MANAGEMENT

1. The JSNTC shall be chaired by the Director for Maintenance Policy, Office of the Assistant Secretary of Defense (Acquisition and Logistics).

2. Each of the Military Services shall provide a member of the JSNTC. The National Security Agency/Central Security Service shall provide a member to the group on an "as required" basis for coordinating special cryptological requirements.

H. RESPONSIBILITIES

1. The Assistant Secretary of Defense (Acquisition and Logistics) (ASD(A&L)) shall:

a. Establish policy and provide guidance for the serial number tracking program and ensure effective implementation of these policies throughout the Department of Defense.

b. Monitor the overall planning, implementation, and operation of the program and provide special guidance to the Joint Serial Number Tracking Committee, as required.

c. Have the Director for Maintenance Policy, or his designee, chair the JSNTC.

2. The Secretaries of the Military Departments shall:

a. Implement the procedures identified in sections E. and F., above, on selected items, expand additional items as experience is gained, and ensure contractor and in-house compliance with serial number tracking requirements.

b. Identify a DoD Component program focal point for all serial number tracking related efforts within that Component and provide membership on the JSNTC as specified in section G., above.

c. Obtain prior approval from the JSNTC for exceptions or variations to the serial number tracking program in accordance with sections E. and F., above.

d. Conduct and participate in serial number tracking tests and studies, as required.

e. Maintain a formal overview of DoD Component serial number tracking plans, programs, and performance.

3. The Joint Serial Number Tracking Committee (JSNTC) shall:

a. Assess the serial number tracking progress, review DoD Component plans, facilitate implementation, recommend future directions, and monitor joint projects.

b. Give priority attention to those DoD-wide applications of serial number tracking that offer the most significant improvements in readiness and productivity.

c. Ensure serial number tracking is addressed adequately in the early phases of the acquisition life cycle of new weapon systems.

d. Act as the DoD serial number tracking focal point within the Department of Defense and for non-DoD entities worldwide, both public and private, including small and disadvantaged business, to facilitate and encourage serial number tracking implementation.

e. Pursue, with appropriate Government and industry representatives, joint national and international efforts to improve serial number tracking, establish standards, and reduce costs.

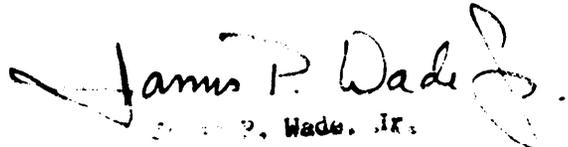
f. Develop a research capability to track developments in serial number tracking technology actively and, working with the DoD Components, develop, test, and recommend future serial number tracking applications.

g. Monitor quality and performance of serial number tracking programs.

h. Coordinate, as appropriate, with other DoD management committees on related policy issues, and implementing procedures, and issue JSNTC guidance to affected DoD Components.

I. EFFECTIVE DATE AND IMPLEMENTATION

This Instruction is effective immediately. Forward one copy of implementing documents to the Assistant Secretary of Defense (Acquisition and Logistics) within 90 days.


James P. Wade, Jr.
Assistant Secretary of Defense
(Acquisition and Logistics)



DEPARTMENT OF THE NAVY
OFFICE OF THE SECRETARY
WASHINGTON D C 20350

SECNAVINST 4800.11B
OP-098
20 August 1986

SECNAV INSTRUCTION 4800.11B

From: Secretary of the Navy

Subj: MANUFACTURING TECHNOLOGY PROGRAM (MTP)

Encl: (1) DoD Instruction 4200.15 of 24 May 85

1. Purpose. To implement enclosure (1) with n the Department of the Navy (DON).

2. Cancellation. SECNAVINST 4800.11A

3. Responsibilities

a. The Assistant Secretary of the Navy (Research, Engineering and Systems) and the Assistant Secretary of the Navy (Shipbuilding and Logistics) are responsible for accomplishing those functions under their cognizance assigned to the Secretary of the Navy in enclosure (1).

b. The Chief of Naval Operations (CNO) is responsible for establishing and maintaining a continuing MTP within the DON.

4. Policy

a. Reliance on Private Enterprise. The application of advanced technology to production is primarily the responsibility of private industry. The DON encourages industry to undertake as much of that effort as possible with their resources.

b. Support of MTP. The DON will assist in support of MTP projects in areas of development having high potential where private industry cannot or is reluctant to make the investment because of high risks involved in introducing high technologies or there is an extended period of payback. Normally, projects are carried out through contracts with private industry consistent with DON acquisition strategy aimed at establishing competitive production sources, securing appropriate data rights, requiring aggressive follow-up marketing and benefits tracking by the executing contractors.

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c. Coordination with Other Services Agencies. The DON will maintain close coordination with other Services/Agencies to avoid duplication of efforts. Where appropriate, the DON will co-fund with other Services/Agencies in efforts having a common interest.

d. Dissemination of MTP Results. The results of unclassified DON MTP projects will be distributed throughout industry as well as to appropriate government and industrial organizations in sufficient detail to foster industry-wide adaptation beyond initial demonstration.

5. Action. The CNO shall take appropriate action to implement enclosure (1) within the DON.

A) 6. Report. The reporting requirements contained in paragraphs G4g. and G5 of enclosure (1) are assigned Control Symbols DD-DR&E(A)1678(4800) and DD-DR&E(Q)1679(4800) and are approved for three years only from the date of this instruction.


James F. Goodrich
Acting Secretary of the Navy

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Department of Defense INSTRUCTION

SECNAVINST 4800.11B

20 AUG 1986

May 24, 1985
NUMBER 4200.15

USDR&E

SUBJECT: Manufacturing Technology Program

- References:
- (a) DoD Instruction 4200.15, subject as above, July 14, 1972 (hereby canceled)
 - (b) DoD Directive 4005.1, "DoD Industrial Preparedness Production Planning," July 28, 1972
 - (c) DoD Directive 4245.6, "Defense Production Management," January 19, 1984
 - (d) DoD Directive 5000.1, "Major System Acquisitions," March 29, 1982
 - (e) through (h), see enclosure 1

A. REISSUANCE AND PURPOSE

This Instruction reissues reference (a) to update policy, responsibilities, and procedures for the Manufacturing Technology Program (MTP).

B. APPLICABILITY

This Instruction applies to the Office of the Secretary of Defense (OSD), the Military Departments, and the Defense Logistics Agency (DLA). The term "DoD Components," as used herein, refers to the Military Departments and the DLA.

C. DEFINITIONS

Terms used in this Instruction are defined in enclosure 2.

D. POLICY

It is DoD policy to rely on private sector investment and the "free enterprise" system to provide the manufacturing technology necessary to produce DoD materiel. The MTP is maintained with the objective of significantly improving the productivity and responsiveness of the defense industrial base. MTP investments will be undertaken with DoD funds only when qualified segments of industry cannot or will not commit private funds to establish manufacturing technology and make it available on a timely basis in support of DoD requirements or when the results of these investments are directed at the industrial improvement of in-house facilities. In meeting its objective, the MTP:

1. Aids in the economical and timely production of weapons systems and components.
2. Ensures that advanced manufacturing processes, techniques, and equipment are available for reducing DoD materiel acquisition, maintenance, and repair costs.

Enclosure (1)

3. Advances manufacturing technology continuously to bridge the gap from research and development (R&D) advances to full-scale production.

4. Promotes capital investment and industrial innovation in new plants and equipment by reducing the cost and risk of advancing and applying new and improved manufacturing technology.

5. Ensures that manufacturing technologies used to produce DoD materiel are consistent with safety and environmental considerations and energy conservation objectives.

6. Provides for the dissemination of MTP results throughout the defense industrial base.

E. RESPONSIBILITIES

1. The Deputy Under Secretary of Defense (Acquisition Management), Office of the Under Secretary of Defense for Research and Engineering (OUSDRE), shall:

a. Establish policies, procedures and criteria for participation in and management of the MTP.

b. Oversee the MTP within the Department of Defense and ensure that the MTP is maintained in accordance with this Instruction.

2. The Heads of DoD Components shall:

a. Maintain a continuing, identifiable MTP in accordance with DoD Directives 4005.1, 4245.6, and 5000.1 (references (b), (c), and (d)).

b. Provide an adequately staffed MTP management structure responsible for promoting and achieving MTP objectives.

c. Establish, use, and maintain a Manufacturing Technology Program Information System (MTPIS) consisting of a centralized computer data base containing information on all planned, active, and completed MTP investments. The MTPIS shall be managed and controlled in accordance with DoD Directive 5000.19 (reference (e)). Specifications and submission requirements for MTPIS data are included in enclosure 3. When possible, data elements shall correspond to DoD 5000.12-M (reference (f)) in accordance with DoD Directive 5000.11 (reference (g)).

F. PROCEDURES

1. MTP investments shall be directed toward areas of greatest need and potential benefit. Individual MTP investments shall be selected by assessing (a) current production, maintenance, and repair costs and industrial base responsiveness and (b) the potential to reduce those costs and improve responsiveness by advancing manufacturing technology. Maximum potential benefits from each MTP investment shall be sought by ensuring that:

a. There is a well-defined DoD requirement for the technology.

- b. The technology can be delivered in time to meet the requirement.
- c. Anticipated investment results are applicable to more than one end item.
- d. There is a specific plan to implement the results of the investment.
- e. The potential for multi-DoD Component-sponsored investments has been investigated.

2. MTP funds may not be used for investments more appropriately funded by other means, such as:

- a. Routine application of existing technology for the production of specific parts.
- b. Investments specifically intended to change an end item's design.
- c. Purchase of off-the-shelf capital equipment, unless it constitutes a minor portion of the investment and is required to establish the first-case application of the MTP deliverable.
- d. Performance testing of materiel produced using MTP deliverables, except to validate the manufacturing process.
- e. Implementation of manufacturing technology beyond the first-case, factory floor application.

3. MTP effectiveness shall be evaluated by identifying and quantifying benefits resulting from the implementation of MTP deliverables.

4. DoD Components shall maintain the following measures of MTP planning and execution:

- a. Comparisons between the planned (budget and apportionment) and the actual use of MTP funds.
- b. Comparisons between the planned (at time of obligation) and the actual deliverable from MTP investments.
- c. Comparisons between the planned (at time of obligation) and the actual implementation of MTP deliverables.
- d. Records on the amount of activity designed to disseminate MTP deliverables throughout the industrial base.

5. DoD Components shall ensure that each proposed MTP investment has technical merit and is not unnecessarily duplicative by having the appropriate Manufacturing Technology Advisory Group (MTAG) technical subcommittees review

the budget proposal. The subcommittees' recommendations shall be documented and retained by the DoD Components as a part of the permanent records for the investment.

G. INFORMATION REQUIREMENTS

1. DoD Components shall provide budget and apportionment (detailed and summary) information to the OSD in accordance with DoD 7110.1-M (reference (h)).

2. DoD Components shall prepare a technical report describing the MTP deliverables received and activity conducted for each MT Task for which funds have been expended. This report shall be prepared whether or not the activity was technically successful and shall be submitted to the Defense Technical Information Center (DTIC) no later than 4 months after the activity is ended.

3. Each DoD Component shall prepare and submit a Manufacturing Technology Long-Range Plan to the OUSDRE by November 1 of each year. As a minimum, the plan shall address the following areas:

a. Factors affecting the long-term direction of MTP investments, such as trends in the industrial base and weapons system procurements, emerging technologies, and regulatory constraints.

b. Major thrust areas being pursued and their relationship to factors identified in paragraph G.3.a., above.

c. Projected funding requirements for each of the next 5 fiscal years, broken down according to both funding category and general thrust areas.

d. Specific investments planned for the next 3 fiscal years (beginning with the 1st year of the current Program Objectives Memorandum (POM) submission), including investment identification code, title, estimated cost for each fiscal year, and a description of the investment's objective.

4. Each DoD Component shall prepare and submit to the OUSDRE a Manufacturing Technology Program Annual Report by March 15 of each year. As a minimum, the report shall provide the following:

a. Total MTP funding by appropriation and thrust area during the past 5 fiscal years. (The 5th year should be the fiscal year that ended the previous September.)

b. MTP investments funded during the past fiscal year, including investment identification code, title, overall cost by fiscal year, why the investment was needed, deliverables, weapon systems supported, implementation plan, and expected benefits.

c. MT projects completed during the past fiscal year, including investment identification code, title, overall cost by fiscal year, deliverables received, project performer, weapon systems supported, implementation plan (or status), and actual or anticipated benefits.

May 24, 85
4200.15

d. MT projects canceled during the past year, including investment identification code, title, overall cost by fiscal year, project performer, and reason for cancellation.

e. Benefits achieved from MTP results during the past 5 fiscal years and other significant accomplishments.

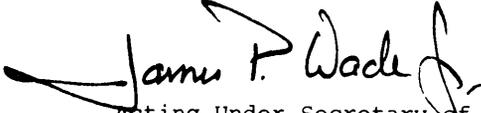
f. A list of end-of-contract briefings (1) held in the past fiscal year, including dates and number of attendees, and (2) planned for the next fiscal year, including estimated dates.

g. These information requirements have been assigned Report Control Symbol DD-DR&E(A)1678.

5. Each DoD Component shall prepare and submit input to the MTPIS according to the instructions in enclosure 3. This information requirement has been assigned Report Control Symbol DD-DR&E(Q)1679.

H. EFFECTIVE DATE AND IMPLEMENTATION

This Instruction is effective immediately. Forward two copies of implementing documents to the Under Secretary of Defense for Research and Engineering within 120 days. Subsequent revisions of implementing documents shall be forwarded within 30 days of their issuance.


Acting Under Secretary of
Defense for Research and
Engineering

Enclosures - 3

1. References
2. Definitions
3. Data Submission Instructions

REFERENCES, (continued)

- (e) DoD Directive 5000.19, "Policies for the Management and Control of Information Requirements," March 12, 1976
- (f) DoD 5000.12-M, "DoD Manual for Standard Data Elements," December 1982, authorized by DoD Instruction 5000.12, April 27, 1965
- (g) DoD Directive 5000.11, "Data Elements and Data Codes Standardization Program," December 7, 1964
- (h) DoD 7110.1-M, "Budget Guidance Manual," July 1982, authorized by DoD Instruction 7110.1, October 30, 1980

DEFINITIONS

1. Deliverable. A tangible product that is received by the Department of Defense as a result of an MT investment.
2. Manufacturing Technology. Information that is, will, or may be used to define, monitor, or control processes and equipment used to manufacture or remanufacture DoD materiel.
3. Manufacturing Technology Program. The total of all DoD investments specifically authorized by Congress for establishing new or improved manufacturing technology.
4. MT Investment. An outlay of funds by the Department of Defense that is expected to result in the development of manufacturing technology that will provide benefits to the Department of Defense that will exceed the value of the original outlay of funds.
5. MTP Investment. An MT investment funded by the MTP.
6. MT Project. An individually managed MTP investment intended to deliver a uniquely identifiable new manufacturing technology as an end product. An MT project may be funded over 1 or more fiscal years. The activity funded in any one fiscal year is an MT task.
7. MT Sub Task. A subset of an MT task that is used when more than one contract or in-house work order is used to complete an MT task.
8. MT Task. Used synonymously with R&D task in the context of the MTP.
9. R&D Project. A fiscal subelement of a Congressional Descriptive Summary that identifies funds requested from and appropriated by the Congress for a set of MTP investments.
10. R&D Task. A subelement of an R&D project that identifies the specific activity associated with a given fiscal year of an MT project.
11. Thrust Area. A set of MT projects intended to achieve some overall, unified purpose. An MT project may be an element of more than one thrust area.

DATA SUBMISSION INSTRUCTIONS

A. GENERAL

Data required by this Instruction shall be submitted on a computer tape according to current system specifications provided separately. This information shall be grouped into nine records and shall be submitted as individual files as scheduled.

B. SCHEDULE OF SUBMISSIONS

The initial data for MT project identification, MT project attributes, MT project funding, and planned MT projects shall be submitted annually at the time of the budget submission and shall be updated quarterly. Data for active and completed MT projects shall be submitted quarterly and shall reflect MT projects started or completed during the quarter being reported. The data for MT projects already in the active file also shall be updated each quarter during the life of the active project. Data for deliverable products and reports shall be submitted quarterly no later than 1 quarter after data for the completed MT projects are submitted. Data for implemented MT projects by the executing contractor, and other cases in which such information is available, shall be submitted quarterly and shall reflect implementations identified during the quarter being reported. Quarterly submissions are due no later than 45 days after the end of the quarter being reported.

DATA ENTRY INSTRUCTIONS

RECORD 1 - MT PROJECT IDENTIFICATION

MT PROJECT IDENTIFICATION

1. SERVICE CODE. Enter A for Army, N for Navy, F for Air Force, and S for Defense Logistics Agency.
2. COMMAND CODE. Enter the appropriate code from Table 1 for the major subordinate command that will manage the MT project.
3. MT PROJECT NUMBER. Enter a four-digit number that uniquely identifies the MT project within the subordinate command. This number may not be used again for that subordinate command until such time that no ambiguity will result.
4. TITLE. Enter the title of the MT project.
5. PROBLEM. Enter a description of why the investment is needed. This shall describe the specific production situation in which it is believed that the development and implementation of advanced manufacturing technology will result in less DoD resources (such as money, time, or materials) being required to produce DoD materiel than is now needed or expected to be needed.
6. SOLUTION. Enter a description of what will be accomplished to solve the problem. This statement shall describe the expected results of the MT project. This statement should not describe the step-by-step activity that will be followed to arrive at the solution. Enter the step-by-step information under the technical plan data element.
7. WORK STATE. Enter the current state of the MT project. Valid entries are PLANNED, ACTIVE, CANCELED, COMPLETED, and IMPLEMENTED. For multiple-year projects, the state should be changed from planned to active when funds from the 1st year of the project are obligated.
8. DATE OF STATE CHANGE. Enter the calendar year and month of the most recent change in work state (CYMM).
9. POINT OF CONTACT NAME. Enter the last name, first name, and middle initial, in that order of the individual who is most familiar with the technical activity associated with this MT project.
10. POINT OF CONTACT PHONE. Enter the phone number of the point of contact, including area code (999-999-9999). Use area code 008 if it is an AUTOVON number.

RECORD 2 - MT PROJECT ATTRIBUTES

This record will be used primarily for ad hoc queries into the data base. Data elements for materiels, processes, equipment, and components shall include as many key words as necessary to ensure that a data base user can locate all MT projects in the data base on some specific subject. Some data elements may be empty.

MT PROJECT IDENTIFICATION

1. SERVICE CODE - See RECORD 1
 2. COMMAND CODE - See RECORD 1
 3. MT PROJECT NUMBER - See RECORD 1
-
11. MATERIALS. Enter key words identifying the materials involved in the MT project (for example, HI-Y steel, titanium, or super-plastic aluminum).
 12. PROCESSES. Enter key words identifying the manufacturing processes involved in the MT project (for example, welding, forging, drying, process planning, or die design).
 13. EQUIPMENT. Enter key words identifying the manufacturing equipment involved in the MT project (for example, lathe, FMS, pilot line, welder, or beam bender).
 14. COMPONENTS. Enter key words identifying the materiel components involved in the MT project (for example, traveling wave tube, circuit boards, or track shoes).
 15. MATERIEL SUPPORTED. Enter the names of the weapons systems or end items the Department of Defense is purchasing or will purchase that will benefit from the implementation of the results of the MT project (should be more than one).
 16. MTAG SUBCOMMITTEE. Enter the name of the MTAG subcommittee that should review the MT investment. Valid entries are METALS, NONMETALS, ELECTRONICS, CAD/CAM, MUNITIONS, and INSPECTION & TEST. (This is a repeating item - up to three entries.)

RECORD 3 - MT PROJECT FUNDING

This record shall be replicated for each fiscal year in which funds are used for the project. The data elements shall be entered over the life cycle of the project. For example, during the early planning phases, only the project identifier data elements, the fiscal years, and the amount planned shall be filled in. When the project is included in a President's budget request, the source of funds data elements and the amount budgeted shall be filled in.

MT PROJECT IDENTIFICATION

1. SERVICE CODE - See RECORD 1
 2. COMMAND CODE - See RECORD 1
 3. MT PROJECT NUMBER - See RECORD 1
-
17. FISCAL YEAR FUNDED. Enter the last two characters of the fiscal year for which the following information applies (FY).
 18. APPROPRIATION. Enter the appropriation used to fund the MT project. Valid entries are R&D, PROC, and O&M.
 19. PROGRAM ELEMENT NUMBER. Enter the five-digit program element number and the DoD Component suffix.

20. R&D PROJECT NUMBER. If R&D funds are used, enter the four-character R&D project number from the Congressional Descriptive Summary.
21. FUNDING CODE. If procurement or operations and maintenance (O&M) funds are used, enter the code from Table 2 that identifies the appropriate funding source. However, if research, development, test, and evaluation (RDTE) funds are used, enter the code from Table 2 for the procurement appropriation that will be used to purchase the materiel on which the technology will be demonstrated.
22. AMOUNT PLANNED. Enter the amount planned for funding the MT project during the fiscal year identified above. (\$ - thousands)
23. AMOUNT BUDGETED. Enter the amount requested in the DoD budget for the project for the fiscal year identified above. (\$ - thousands)
24. AMOUNT AUTHORIZED. Enter the amount authorized for the MT project during the fiscal year identified above. (\$ - thousands)
25. HIGHEST APPROVAL. Enter the acronym of the highest DoD Component organization level that has authorized funding for this MT project.
26. AMOUNT OBLIGATED. Enter the amount obligated for the MT project from the fiscal year identified above. (\$ - thousands)
27. AMOUNT EXPENDED. Enter the amount expended on the MT project from the fiscal year identified above. (\$ - thousands)

RECORD 4 - PLANNED MT PROJECT

This record includes information for a planned MT project. Unless major changes occur, these data elements probably shall be entered only during the initial planning phase and then shall remain unchanged throughout the life cycle of the MT project. However, they shall be updated as required to reflect a true description of the MT project.

MT PROJECT IDENTIFICATION

1. SERVICE CODE - See RECORD 1
 2. COMMAND CODE - See RECORD 1
 3. MT PROJECT NUMBER - See RECORD 1
28. PLANNED TOTAL COST. Enter the planned amount required for an MT project from start to completion (the total of all FY planned amounts). (\$ - thousands)
29. PLANNED START YEAR AND MONTH. Enter the calendar year and month in which work is planned to start if funds are released (CYMM).
30. TECHNICAL PLAN. Enter a description of how the solution will be accomplished. Include work checkpoints.
31. PLANNED DELIVERABLES. Enter a description of the deliverables expected from this MT project and the calendar year and month when they are expected to be delivered (CYMM).

32. PREINVESTMENT IMPLEMENTATION PLAN. Enter a description of where, when, and how the manufacturing technology expected to be developed is expected to be implemented in a production facility to produce DoD material.
33. PLANNED FINANCIAL BENEFITS. Enter the expected value of financial benefits that are expected to be achieved from the implementation of the results of this investment. (\$ - thousands)
34. DATE OF PLANNED FINANCIAL BENEFITS. Enter the last two digits of the 1st fiscal year when the above savings are expected to begin to be realized and the last two digits of the fiscal year when the above total will be realized (FYFY).
35. PLANNED NONFINANCIAL BENEFITS. Enter a description of the benefits, other than financial, expected to be achieved from implementing the results of this project.
36. PLANNED DATE OF NONFINANCIAL BENEFITS. Enter the last two digits of the 1st fiscal year when the benefits stated above are expected to begin (FY).
37. RELATED EFFORTS. Identify other work, government or private, that has been done or is in progress in the same areas as this project.

RECORD 5 - ACTIVE MT PROJECT

This record identifies the attributes of each individual activity that is authorized by contract or in-house work order for each MT project. This record shall be replicated as many times as necessary.

MT PROJECT IDENTIFICATION

1. SERVICE CODE - See RECORD 1
2. COMMAND CODE - See RECORD 1
3. MT PROJECT NUMBER - See RECORD 1

38. FISCAL YEAR FUNDED. Enter the last two characters of the fiscal year that provides funds for the activity identified in the following data elements. Continue to use the same fiscal year in the records for reports or products delivered in order to maintain a link with the use of these funds from this fiscal year of the project (FY).
39. MONITORING ORGANIZATION. Enter the name of the DoD Component organization responsible for monitoring or managing the work being performed.
40. PERFORMING ORGANIZATION. Enter the name of the DoD Component or non-DoD Component organization that is being paid for performing the work.
41. ADDRESS. Enter the address of the performing organization.
42. CITY. Enter the name of the city where the performing organization is located.
43. STATE. Enter the two-letter standard abbreviation of the state in which the performing organization is located.

44. ZIP CODE. Enter the five-digit ZIP code for the performing organization.

45. AGREEMENT TYPE. Enter the abbreviation for the contractual method for the agreement as follows:

SS	- Sole Source	PO	- Project Order
C	- Competitive	WR	- Work Request
REQN	- Requisition	ALLOT	- Allotment
MIPR	- Military Interdepartmental Purchase Request		

46. AGREEMENT DATE. Enter the calendar year and month of the agreement (CYMM).

47. AGREEMENT IDENTIFICATION. Enter the in-house work order identifier or contract identifier that authorized funds for the work.

48. SCOPE CHANGE. Enter any change of scope of work that is different from that entered in the technical plan data element.

49. START DATE. Enter the calendar year and month that work was started (CYMM).

50. PLANNED COMPLETION DATE. Enter calendar year and month originally planned to complete the work (CYMM). This date shall not be changed after initial entry.

51. CURRENT COMPLETION DATE. Enter the latest estimated work completion calendar year and month (CYMM).

52. DATE OF CURRENT COMPLETION DATE. Enter the calendar year and month when Item 51 was entered (CYMM).

53. DELIVERABLES. Enter a description of the specific deliverables expected from this activity.

54. DELIVERABLE REVISION DATE. Enter the calendar year and month of the latest revision to the above (CYMM).

55. CONTRACT AMOUNT OBLIGATED. Enter the amount obligated to the contract or agreement (\$ - thousands).

56. CONTRACT AMOUNT EXPENDED. Enter the amount costed against the contract amount obligated (\$ - thousands).

57. IN-HOUSE AMOUNT OBLIGATED. Enter the amount obligated to in-house work (\$ - thousands).

58. IN-HOUSE AMOUNT EXPENDED. Enter the amount costed against the in-house amount obligated (\$ - thousands).

59. WORK-ACCOMPLISHED REPORT. Describe the significant work accomplished or milestones achieved, such as award contract agreement, receipt of planned deliverables, or termination of the investment. This data element shall be updated quarterly.

60. WORK-ACCOMPLISHED DATE. Enter the calendar year and month of the above work-accomplished report (CYMM).

61. SOURCE OF WORK-ACCOMPLISHED REPORT. Enter the last name, first name and organization of the individual reporting the latest work-accomplished report.

62. END-OF-CONTRACT BRIEFING DATE. Enter the calendar year and month of the planned end-of-contract briefing (if known) (CYMM).

63. END-OF-CONTRACT BRIEFING INFORMATION. Enter the name, address, and other instructions concerning the end-of-contract briefing (if known).

RECORD 6 - DELIVERABLE REPORTS

This record shall be replicated as many times as necessary. All of the data elements in this record shall be included in the data base. Although not required, DoD Components are encouraged to submit all data elements when they are known. However, when a report is available from the DTIC, the only mandatory data element is the DTIC AD Number. When a report is not available from the DTIC, all data elements except the DTIC AD Number shall be submitted. While the data elements are described in terms of "reports," they shall be used to include other means of documenting the results of MT projects (for example, books, handbooks, movies or videotapes).

MT PROJECT IDENTIFICATION

1. SERVICE CODE - See RECORD 1
2. COMMAND CODE - See RECORD 1
3. MT PROJECT NUMBER - See RECORD 1

38. FISCAL YEAR FUNDED. See RECORD 38.

64. DTIC AD NUMBER. Enter the DTIC AD number that identifies a report developed by this MT project.

65. SECURITY CLASSIFICATION. Enter the DoD security classification needed by anyone who wishes access to the report; the title may be unclassified but portions of the report may be classified. Valid entries are U, C, S, T, and R.

66. REPORT TITLE. Enter the unclassified title of the report.

67. REPORT ABSTRACT. Enter a brief description of significant aspects of a report.

68. PERIOD COVERED. Enter the time period (calendar year and month) of the report (CYMM-CYMM).

69. AUTHOR. Enter the name of the individual responsible for preparing the report (if known).

70. CONTROLLING OFFICE. Enter the name and address of the MT office responsible for the control and release of the report.

71. REPORT NUMBER. Enter any control number or identification code assigned to the report other than the DTIC AD number. Identify the organization that assigned the control number.

72. DISTRIBUTION RESTRICTIONS. Enter any restrictions on the release or use of information contained in the report, (for example, PATENT, LICENSED USE ONLY, or GOVERNMENT USE ONLY).

73. DOCUMENT RETRIEVAL. If the report is not available from the DiIC, enter enough information (such as name and phone number) to describe how to request a copy of the report.

RECORD 7 - DELIVERABLE PRODUCTS

The following record shall be replicated as many times as necessary for the MT project. It shall identify products (equipment or computer software) that were developed and paid for with MT funds. Not all data elements will be applicable to every deliverable.

MT PROJECT IDENTIFICATION

1. SERVICE CODE - See RECORD 1
2. COMMAND CODE - See RECORD 1
3. MT PROJECT NUMBER - See RECORD 1

38. FISCAL YEAR FUNDED. See RECORD 38.

74. PRODUCT NOMENCLATURE. Enter the name of the product developed by the MT project. Illustrative examples include: laser welder, robot arm, capacitance hole probe, ultrasonic fastener crack detector, breech block step threader, single base propellant drier, production control system, track shoe die design software, track shoe rubber remover, ship propeller dimensional inspection machine, ships beam bender, and pilot line for integrated circuits.

75. PRODUCT DESCRIPTION. Enter a description of the capabilities, utility, and special features of the product.

76. PRODUCT MODEL. Enter the model number or model name of the product.

77. PRODUCT DELIVERY DATE. Enter the calendar year and month when the product was delivered to the Department of Defense (CYMM).

78. PRODUCT LOCATION. Enter the name and address of the organization where the product is located.

79. OPERATIONAL STATUS. Enter a description of the current operational status of the product.

80. PLANNED UTILIZATION. Enter a description of any planned use of the product.

81. PRODUCT POINT OF CONTACT. Enter the name and phone number of an individual or organization that can provide additional information on the above data elements. Include the calendar year and month this record was completed (CYMM).

RECORD 8 - COMPLETED MT PROJECT

This record shall be completed when the state of an MT project changes from ACTIVE to COMPLETED or to CANCELED.

MT PROJECT IDENTIFICATION

1. SERVICE CODE - See RECORD 1
2. COMMAND CODE - See RECORD 1
3. MT PROJECT NUMBER - See RECORD 1

82. TOTAL COST. Enter the total amount of DoD funds spent or expected to be spent to effect the estimated total benefits. This shall include not only the MT project final total cost but any additional DoD costs (for example, the cost to implement the results) (\$ - thousands).

83. PROJECT FINAL COST. Enter the actual final total cost of the MT project; include all years of funding (\$ - thousands).

84. YEARS FUNDED. Enter the last two digits of the 1st and last fiscal years in which the project was funded (FYFY). If a project is funded in only 1 year, enter that year for both values.

85. ACTUAL COMPLETION DATE. Enter the calendar year and month the technical work was completed (CYMM).

86. SUMMARY OF RESULTS. Enter a succinct description of the MT project's results.

87. COMPLETED PROJECT IMPLEMENTATION PLAN. Enter a description of where, how, and when the technology produced by the MT project is expected to be implemented in a facility to produce DoD materiel.

88. EXPECTED BENEFITS CATEGORY. Enter the anticipated area of benefits. Examples are PRODUCTION, ENVIRONMENT, and SAFETY.

89. EXPECTED FINANCIAL BENEFITS. Enter the financial savings or cost avoidance expected from implementing the results of the completed MT project (\$ - thousands).

90. DATE OF EXPECTED FINANCIAL BENEFITS. Enter the last two digits of the fiscal year when the above savings are expected to begin to be realized and the last two digits of the fiscal year when the above total is expected to be realized (FYFY).

91. EXPECTED NONFINANCIAL BENEFITS. Enter a description of the nonfinancial benefits that are expected from implementing the results of the MT project.

92. DATE OF EXPECTED NONFINANCIAL BENEFITS. Enter the last two digits of the fiscal year when the above nonfinancial benefits are expected to begin (FY).

RECORD 9 - IMPLEMENTED INVESTMENTS

This record shall be replicated as many times as necessary for the MT project. It shall be completed for each known implementation of an MT project's results.

MT PROJECT IDENTIFICATION

1. SERVICE CODE - See RECORD 1
2. COMMAND CODE - See RECORD 1
3. MT PROJECT NUMBER - See RECORD 1

93. DATE IMPLEMENTED. Enter the calendar year and month when the results of the MT project were implemented (CYMM).
94. USER NAME. Enter the name of the facility where the results were implemented.
95. USER ADDRESS. Enter the address of the user.
96. USER CITY. Enter the city where the user is located.
97. USER STATE. Enter the two-letter standard abbreviation of the state in which the user is located.
98. USER ZIP CODE. Enter the five-digit ZIP code of the user.
99. ACTUAL BENEFITS CATEGORY. Enter the actual area of benefits. Examples are PRODUCTION, ENVIRONMENT, and SAFETY.
100. ACTUAL FINANCIAL BENEFITS. Enter the amount of the actual savings or cost avoidance realized from the implementation of the results (\$ - thousands).
101. DATE OF ACTUAL FINANCIAL BENEFITS. Enter the last two digits of the fiscal year when the financial benefits began and the last two digits of the fiscal year when the above total was realized (FYFY).
102. ACTUAL NONFINANCIAL BENEFITS. Enter a description of the nonfinancial benefits realized from implementing the results.
103. DATE OF ACTUAL NONFINANCIAL BENEFITS. Enter the last two digits of the 1st fiscal year when the above benefits began to be realized (FY).

Table 1 - ACTION COMMANDS

<u>CODE</u>	<u>ACRONYM</u>	<u>COMMAND NAME</u>
<u>ARMY</u>		
D	AMETA or AMC	Management Engineering Training Agency HQ Army Materiel Command
G	DESCOM	Depot Systems Command
H	ERADCOM	Electronics R&D Command
M	AMMRC	Materials and Mechanics Research Center
X	TMDC	Metrology Center
0	TECOM	Test and Evaluation Command
1	AVSCOM	Aviation Systems Command
2	CECOM	Communications and Electronics Command
3	MICOM	Missile Command
4	TACOM	Tank-Automotive Command
5	AMCCOM(Ammo)	Armament Munitions and Chemical Command
6	AMCCOM(Wpns)	Armament Munitions and Chemical Command
7	TROSCOM	Troop Support Command
<u>NAVY</u>		
A	NAVAIR	Naval Air System Command
X	NAVELEX	Naval Electronics Systems Command
M	NAVMAT	Naval Material Command
S	NAVSEA	Naval Sea Systems Command
T	NAVSUP	Naval Supply Systems Command
<u>AIR FORCE</u>		
A	AFSC/ASD	Air Force Systems Command - Aeronautical Systems Divison
<u>DEFENSE LOGISTICS AGENCY</u>		
S	DLA	Defense Logistics Agency

Table 2 - FUNDING SOURCES

<u>Funding Code</u>	<u>Appropriation</u>	<u>Treas. Code</u>	<u>Program Element</u>
<u>ARMY</u>			
A1	Aircraft Procurement, Army	1497 ¹	78011A
A2	Missile Procurement, Army	2597 ¹	78011A
A3	Army Procurement, Tracked Combat Vehicle	3197 ¹	78011A
A4	Army Procurement, Weapons and Other Combat Vehicles	3297 ¹	78011A
A5	Procurement of Ammunition, Army	4250 ¹	78011A
	Other Procurement, Army		
A6	Tactical & Support Vehicles	5197 ¹	78011A
A7	Communication and Electronics Equipment	5297 ¹	78011A
A8	Other Support Equipment	5397 ¹	78011A
<u>AIR FORCE</u>			
F1	Missile Procurement, Air Force	3020	78011F
F2	Other Procurement, Air Force	3080	78011F
F3	Aircraft Procurement, Air Force	3010	78011F
F4	O&M, Air Force	3400	
<u>NAVY</u>			
N1	Aircraft Procurement, Navy	1506	78011N
N2	Shipbuilding and Conversion Navy	1611	78011N
N3	Weapons Procurement, Navy	1507	78011N
N4	Other Procurement, Navy	1810	78011N
N5	O&M, Navy	1804	

¹These are standard study numbers (SSN) used by the Army to identify budget lines at a more detailed level than Treasury codes.

RECORD TYPE 1 - MT PROJECT IDENTIFICATION

<u>ELEMENT NUMBER</u>	<u>ELEMENT IDENTIFICATION</u>	<u>TYPE DATA</u> ¹	<u>NO. CHARS</u>	<u>RECORD POSITION</u>
	MT Project Identification			
1	Service Code	A	1	1
2	Command Code	AN	1	2
3	MT Project Number	N	4	3-6
4	Title	AN	70	7-76
5	Problem	AN	1900	77-1976
6	Solution	AN	1900	1977-3876
7	Work State	A	12	3877-3888
8	Date of State Change	N	4	3889-3892
9	Point of Contact Name	AN	30	3893-3922
10	Point of Contact Phone	AN	14	3923-3936
	Blank	AN	2	3937-3938

¹AN = Alphanumeric; N = Numeric; A = Alpha

RECORD TYPE 2 - MT PROJECT ATTRIBUTES

<u>ELEMENT NUMBER</u>	<u>ELEMENT IDENTIFICATION</u>	<u>TYPE DATA</u> ¹	<u>NO. CHARS</u>	<u>RECORD POSITION</u>
	MT Project Identification			
1	Service Code	A	1	1
2	Command Code	AN	1	2
3	MT Project Number	N	4	3-6
11	Materials	AN	100	7-106
12	Processes	AN	100	107-206
13	Equipment	AN	100	207-306
14	Components	AN	100	307-406
15	Materiel Supported	AN	100	407-506
16a	MTAG Subcommittee 1	A	15	507-521
16b	MTAG Subcommittee 2	A	15	522-536
16c	MTAG Subcommittee 3	A	15	537-551
	Blank	AN	1	552

¹AN = Alphanumeric; N = Numeric; A = Alpha

RECORD TYPE 3 - MT PROJECT FUNDING

<u>ELEMENT NUMBER</u>	<u>ELEMENT IDENTIFICATION</u>	<u>TYPE DATA</u> ¹	<u>NO. CHARS</u>	<u>RECORD POSITION</u>
	MT Project Identification			
1	Service Code	A	1	1
2	Command Code	AN	1	2
3	MT Project Number	N	4	3-6
17	Fiscal Year Funded	N	2	7-8
18	Appropriation	A	4	9-12
19	Program Element Number	AN	6	13-18
20	R&D Project Number	AN	4	19-22
21	Funding Code	N	2	23-24
22	Amount Planned	N	12	25-36
23	Amount Budgeted	N	12	37-48
24	Amount Authorized	N	12	49-60
25	Highest Approval	A	20	61-80
26	Amount Obligated	N	12	81-92
27	Amount Expended	N	12	93-104
	Blank	AN	4	105-108

¹AN = Alphanumeric; N = Numeric; A = Alpha

RECORD TYPE 4 - PLANNED MT PROJECT

<u>ELEMENT NUMBER</u>	<u>ELEMENT IDENTIFICATION</u>	<u>TYPE DATA</u> ¹	<u>NO. CHARS</u>	<u>RECORD POSITION</u>
	MT Project Identification			
1	Service Code	A	1	1
2	Command Code	AN	1	2
3	MT Project Number	N	4	3-6
28	Planned Total Cost	N	12	7-18
29	Planned Start Date	N	4	19-22
30	Technical Plan	AN	1900	23-1922
31	Planned Deliverables	AN	1900	1923-3822
32	Preinvestment Implementation Plan	AN	1900	3823-5722
33	Planned Financial Benefits	N	12	5723-5734
34	Date of Planned Financial Benefits	N	4	5735-5738
35	Planned Nonfinancial Benefits	AN	1500	5739-7238
36	Planned Date of Nonfinancial Benefits	N	2	7239-7240
37	Related Efforts	AN	1900	7241-9140
	Blank	AN	4	9141-9144

¹AN = Alphanumeric; N = Numeric; A = Alpha

RECORD TYPE 5 - ACTIVE MT PROJECT

<u>ELEMENT NUMBER</u>	<u>ELEMENT IDENTIFICATION</u>	<u>TYPE DATA</u> ¹	<u>NO. CHARS</u>	<u>RECORD POSITION</u>
	MT Project Identification			
1	Service Code	A	1	1
2	Command Code	AN	1	2
3	MT Project Number	N	4	3-6
38	Fiscal Year Funded	N	2	7-8
39	Monitoring Organization	AN	100	9-108
40	Performing Organization	AN	100	109-208
41	Address	AN	29	209-237
42	City	A	20	238-257
43	State	A	2	258-259
44	ZIP Code	N	5	260-264
45	Agreement Type	A	5	265-269
46	Agreement Date	N	4	270-273
47	Agreement Identification	AN	50	274-323
48	Scope Change	AN	1900	324-2223
49	Start Date	N	4	2224-2227
50	Planned Completion Date	N	4	2228-2231
51	Current Completion Date	N	4	2232-2235
52	Date of Current Completion Date	N	4	2236-2239
53	Deliverables	AN	500	2240-2739
54	Deliverable Revision Date	N	4	2740-2743
55	Contract Amount Obligated	N	12	2744-2755
56	Contract Amount Expended	N	12	2756-2767
57	In-House Amount Obligated	N	12	2768-2779
58	In-House Amount Expended	N	12	2780-2791
59	Work-Accomplished Report	AN	1900	2792-4691

60	Work-Accomplished Date	N	4	4692-4695
61	Source of Work-Accomplished Report	AN	100	4696-4795
62	End-of-Contract Briefing Date	N	4	4796-4799
63	End-of-Contract Briefing Information	AN	100	4800-4899
	Blank	AN	3	4900-4902

¹AN = Alphanumeric; N = Numeric; A = Alpha

RECORD TYPE 6 - DELIVERABLE REPORTS

<u>ELEMENT NUMBER</u>	<u>ELEMENT IDENTIFICATION</u>	<u>TYPE DATA</u> ¹	<u>NO. CHARS</u>	<u>RECORD POSITION</u>
	MT Project Identification			
1	Service Code	A	1	1
2	Command Code	AN	1	2
3	MT Project Number	N	4	3-6
38	Fiscal Year	N	2	7-8
64	DTIC AD Number	AN	9	9-17
65	Security Classification	A	1	18
66	Report Title	AN	60	19-78
67	Report Abstract	AN	500	79-578
68	Period Covered	AN	9	579-587
69	Author	AN	30	588-617
70	Controlling Office	AN	100	618-717
71	Report Number	AN	100	718-817
72	Distribution Restrictions	AN	150	818-967
73	Document Retrieval	AN	200	968-1167
	Blank	AN	3	1168-1170

¹AN = Alphanumeric; N = Numeric; A = Alpha

RECORD TYPE 7 - DELIVERABLE PRODUCTS

<u>ELEMENT NUMBER</u>	<u>ELEMENT IDENTIFICATION</u>	<u>TYPE DATA</u> ¹	<u>NO. CHARS</u>	<u>RECORD POSITION</u>
	MT Project Identification			
1	Service Code	A	1	1
2	Command Code	AN	1	2
3	MT Project Number	N	4	3-6
38	Fiscal Year Funded	N	2	7-8
74	Product Nomenclature	AN	100	9-108
75	Product Description	AN	500	109-608
76	Product Model	AN	100	609-708
77	Product Delivery Date	N	4	709-712
78	Product Location	AN	100	713-812
79	Operational Status	AN	500	813-1312
80	Planned Utilization	AN	1000	1313-2312
81	Product Point-of-Contact	AN	60	2313-2372
	Blank	AN	4	2373-2376

¹AN = Alphanumeric; N = Numeric; A = Alpha

RECORD TYPE 8 - COMPLETED MT PROJECT

<u>ELEMENT NUMBER</u>	<u>ELEMENT IDENTIFICATION</u>	<u>TYPE DATA</u> ¹	<u>NO. CHARS</u>	<u>RECORD POSITION</u>
	MT Project Identification			
1	Service Code	A	1	1
2	Command Code	AN	1	2
3	MT Project Number	N	4	3-6
82	Total Cost	N	12	7-18
83	Project Final Cost	N	12	19-30
84	Years Funded	N	4	31-34
85	Actual Completion Date	N	4	35-38
86	Summary of Results	AN	500	39-538
87	Completed Project Implementation Plan	AN	1000	539-1538
88	Expected Benefits Category	AN	50	1539-1588
89	Expected Financial Benefits	N	12	1589-1600
90	Date of Expected Financial Benefits	N	4	1601-1604
91	Expected Nonfinancial Benefits	AN	1500	1605-3104
92	Date of Expected Nonfinancial Benefits	N	2	3105-3106
	Blank	AN	2	3107-3108

¹AN = Alphanumeric; N = Numeric; A = Alpha

RECORD TYPE 9 - IMPLEMENTED INVESTMENTS

<u>ELEMENT NUMBER</u>	<u>ELEMENT IDENTIFICATION</u>	<u>TYPE DATA</u> ¹	<u>NO. CHARS</u>	<u>RECORD POSITION</u>
	MT Project Identification			
1	Service Code	A	1	1
2	Command Code	AN	1	2
3	MT Project Number	N	4	3-6
93	Date Implemented	N	4	7-10
94	User Name	AN	50	11-60
95	User Address	AN	50	61-110
96	User City	A	20	111-130
97	User State	A	2	131-132
98	User ZIP Code	N	5	133-137
99	Actual Benefits Category	AN	50	138-187
100	Actual Financial Benefits	N	12	188-199
101	Date of Actual Financial Benefits	N	4	200-203
102	Actual Nonfinancial Benefits	AN	1500	204-1703
103	Date of Actual Nonfinancial Benefits	N	2	1704-1705
	Blank	AN	5	1706-1710

¹AN = Alphanumeric; N = Numeric; A = Alpha