NOT MEASUREMENT SENSITIVE

MIL-STD-3001-7(AS) <u>15 May 2001</u> SUPERSEDING (See Section 6.)

DEPARTMENT OF DEFENSE STANDARD PRACTICE

DIGITAL TECHNICAL INFORMATION FOR MULTI-OUTPUT PRESENTATION OF TECHNICAL MANUALS

PERIODIC MAINTENANCE REQUIREMENTS (PART 7 OF 8 PARTS)



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FOREWORD

1. This eight-part standard establishes the requirements needed to prepare digital technical information for multi-output presentation of NAVAIR work package Technical Manuals (TMs). The technical content and mandatory style and format requirements contained in this eight-part standard can be used to develop and assemble complete TMs for aircraft weapon systems, aeronautical equipment, airborne weapons/ equipment, and support equipment work package technical manuals. The requirements are applicable for the output of paper technical manuals or for the display of page-oriented, scrollable, and frame-based technical manuals on an Electronic Display System (EDS).

2. MIL-STD-3001-7 is Part 7 of 8 Parts and is incomplete without Parts 1 through 6 and Part 8. Part 7 establishes the technical content requirements for the preparation of periodic maintenance inspection requirements for aircraft weapon systems, quick engine change assemblies, powered aerial targets (missiles), support equipment, automatic test equipment, airborne armament equipment or special stores, powered surface targets, and aviation life support systems. This data can be used to develop TMs in a variety of output forms, including interactive screen presentations and page-based, printed manuals.

3. MIL-STD-3001-1 contains general preparation requirements for the multi-output presentation of NAVAIR work package TMs. MIL-STD-3001-2 through MIL-STD-3001-8 contain specific functional technical content requirements for the preparation of all NAVAIR work package TMs and revisions. Parts 1 through 8 are identified below.

MIL-STD-3001-1	Preparation of Digital Technical Information for
	Multi-output Presentation of Technical Manuals.
MIL-STD-3001-2	Description, Principles of Operation, and Operation Data.
MIL-STD-3001-3	Testing and Troubleshooting Procedures.
MIL-STD-3001-4	Maintenance Information with IPB.
MIL-STD-3001-5	Aircraft Wiring Information.
MIL-STD-3001-6	Structural Repair Information.
MIL-STD-3001-7	Periodic Maintenance Requirements.
MIL-STD-3001-8	Separate Illustrated Parts Breakdown (IPB).

4. MIL-HDBK-3001, Guide to the General Style and Format of U.S. Navy Work Package Technical Manuals, complements this eight-part standard. MIL-HDBK-3001 provides Navy-preferred, nonmandatory style and format requirements for the preparation of page-oriented, scrollable, and frame-based work package technical manuals.

5. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Naval Air Warfare Center Aircraft Division, Code 414100B120-3, Highway 547, Lakehurst, NJ 08733-5100 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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1. **SCOPE**.

1.1 <u>Scope</u>. This part of the standard establishes the technical content requirements for the preparation of periodic maintenance inspection requirements for aircraft weapon systems, quick engine change assemblies, powered aerial targets (missiles), support equipment, automatic test equipment, airborne armament equipment or special stores, powered surface targets, and aviation life support systems. This data can be used to develop periodic maintenance requirements card sets in a variety of output forms, including interactive screen presentations and printed maintenance work cards.

2. APPLICABLE DOCUMENTS.

The applicable documents in section 2 of MIL-STD-3001-1 apply to this Part.

3. **DEFINITIONS**.

The definitions in section 3 of MIL-STD-3001-1 apply to this Part.

4. GENERAL REQUIREMENTS.

4.1 <u>General</u> Periodic maintenance requirements consist of a series of scheduled maintenance requirements that provide a basis for planning, scheduling, and execution of scheduled maintenance. The requirements shall be developed to provide general and specific instructions required to perform scheduled maintenance at the organizational and intermediate maintenance levels. Because these requirements are performed at specific intervals that are based upon calendar days, flight hours, operating hours, or other events that affect the equipment performance, the work package concept described in the other Parts of this standard does not apply. Periodic maintenance requirements shall be contained and subdivided into a series of periodic maintenance card sets.

4.2 <u>Selective application and tailoring</u>. This Part contains some requirements that may not be applicable to the preparation of all periodic maintenance cards sets. Selective application and tailoring of requirements contained in this Part shall be accomplished through the use of the Technical Manual Content Selection Matrixes contained in MIL-STD-3001-1, Appendix A. The applicability of some requirements is also designated by one of the following statements: unless specified otherwise by the requiring activity or as/when specified by the requiring activity.

4.3 <u>Technical content</u>. Technical content requirements contained in this Part are considered mandatory and are intended for compliance. The content structure for the technical data being developed shall conform to the associated modular Document Type Definition (DTD) for Periodic Maintenance Requirements.

4.3.1 <u>Use of the DTDs</u>. The modular DTDs referenced in this Part interpret the technical content and structure for the functional requirements contained in this Part and are mandatory for use.

4.4 <u>Preparation of digital data for electronic delivery</u>. Periodic maintenance requirements data prepared in maintenance task card format and delivered digitally in accordance with this standard shall be SGML-tagged and assembled using the Document Type Definition (DTD). Refer to MIL-STD-3001-1 for

information on obtaining or accessing this DTD. SGML tags used in the DTD are noted throughout the text of this Part in bracketed, bold characters (i.e., **<acset>**) as a convenience for the TM author and to denote the appropriate tag to be used for this specific information when developing a document instance.

4.5 <u>Style and format requirements</u>. Refer to MIL-STD-3001-1, Appendix B for the mandatory style and format requirements for the preparation of Periodic Maintenance Requirements maintenance card sets. MIL-HDBK-3001 provides Navy-preferred nonmandatory style and format requirements for the preparation of Periodic Maintenance Requirements maintenance card sets.

4.6 <u>Standard tables and lists</u>. Standard tables and lists are noted throughout the text of this standard in bold and in parentheses (i.e., (**standard table**), (**standard list**)). The table and list head titles and structure of these standard tables and lists shall have no deviations.

4.7 <u>Electrostatic discharge (ESD) sensitive equipment</u>. If the electronic equipment to be handled, inspected, repaired, or assembled is ESD sensitive, the ESD icon (the acronym ESD enclosed in a box) and the symbol (ESD) shall be incorporated into the applicable tasks and procedures of the technical publications to ensure that ESD sensitive parts are not degraded during handling or operation. The ESD icon shall precede the procedure title. The specific step(s) in the procedure addressing handling or operation which could damage ESD sensitive parts shall be labeled by placing the symbol (ESD) between the step number and the text.

4.8 <u>Nuclear hardness</u>. If the weapon system/equipment to be operated, maintained or overhauled has nuclear survivability requirements (for example, overpressure and burst, thermal radiation, electromagnetic pulse (EMP), or transient radiation effects on electronics (TREE)), applicable warnings and hardness critical processes (HCP) symbols shall be incorporated into the applicable tasks and procedures of the technical publications to ensure the hardness of the equipment is not degraded during handling or operation. Caution shall be taken not to include classified information in an unclassified publication. When entire paragraphs, including subparagraphs, are considered hardness critical, only major paragraphs shall be marked. The appropriate symbol (HCP), (HCI), (OCP), (OCI), (CSP), or (CSI) shall be placed between the paragraph number and title. When only certain processes/steps within a paragraph are hardness critical, only the applicable process/step shall be marked. The symbol (HCP), (HCI), (OCP), (OCI), (CSP), or (CSI) shall be placed between the step number and text. For definitions of the acronyms contained in this paragraph, refer to section 3 of MIL-STD-3001-1.

4.9 <u>Ozone depleting substances (ODS)</u>. The continued use of ODS has been prohibited by Executive Order 12856 of 3 August 1993. Describing the use of ODS materials in NAVAIR manuals is prohibited. A list of these substances may be obtained from the requiring activity.

4.10 <u>Special processes</u>. Information shall be included for any special process required under extreme environmental or operational conditions within the limits of the equipment.

5. DETAILED REQUIREMENTS.

5.1 <u>Preparation of periodic maintenance requirements **(pmrim)**</u>. Periodic maintenance inspection requirements shall be developed and contained in sets of periodic maintenance information cards **(pmrcset)** to provide a basis for planning, scheduling, and execution of scheduled maintenance. These cards shall be divided into the following specific card sets.

- a. Aircraft.
- b. Quick engine change assembly (QECA).
- c. Airborne armament equipment (AAE)/special stores (SS).
- d. Support equipment (SE)/automatic test equipment (ATE).
- e. Powered aerial target (PAT).
- f. Powered surface target (PST).
- g. Aviation life support systems (ALSS).
- h. Airborne mine countermeasure (AMCM) equipment.
- i. Unmanned aerial vehicle (UAV).

The Logistics Support Analysis (LSA) or the Logistics Management Information (LMI) is the overall systems engineering process for determining logistics support requirements for acquisition programs. An element of this process is maintenance planning and analysis (MPA) which develops, among other maintenance elements, preventive maintenance requirements. The contractor or preparing activity shall develop and document scheduled maintenance requirements from approved maintenance plans derived from the MPA process. Periodic maintenance requirements card sets for aircraft weapon systems, equipment, or support equipment not using the Reliability Centered Maintenance (RCM) concept shall be developed using existing data, such as 3-M data, safety center reports, engineering investigations, quality deficiency reports, etc.

Note: In order to preclude inconsistencies between airframe and engine periodic maintenance requirements, coordination between the preparing activities shall be maintained throughout the life cycle of the airframe/engine.

5.1.1 <u>Aircraft card set $\langle acset \rangle$ </u>. The aircraft card set shall be subdivided into the specific types of information card decks described in 5.1.1.1 through 5.1.1.7.

5.1.1.1 <u>Periodic maintenance information card decks **(pmidk)**. These periodic maintenance information card decks contain the introductory information relative to the aircraft's scheduled maintenance program. They include a schedule for items having an approved mandatory removal/replacement interval or special tracking requirements; a list, by system and card number, of the inspection requirements to be performed; a list, by system and card number, of those inspections which remain valid during Aircraft Battle Damage Repair (ABDR) reporting; and conditional inspection requirements to be accomplished after the occurrence of certain overlimit situations. The cards may also identify inspections necessary to avoid</u>

under inspection of critical systems during implementation of revised phased periodic maintenance requirements card decks.

5.1.1.2 <u>Turnaround checklist <turnchklst></u>. The cards for a turnaround checklist contain tasks consecutively numbered and sequentially arranged in a logical walkaround order. The requirements are those necessary to identify degradation that has occurred during flight. They consist of:

a. Inspections for obvious defects and integrity of the aircraft exterior and interior. Installed external airborne equipment and special stores shall be considered as part of the aircraft.

b. Checks to determine the need for service of fuels, oils, liquid oxygen, and the critical consumables expended during normal operation. Reference shall be made to the appropriate manual for servicing instructions. If servicing instructions are not available in another manual, they shall be included with the daily inspection cards and referenced. The title of the daily inspection cards shall be changed to read "Daily Inspection/Servicing Cards."

5.1.1.3 <u>Daily inspection card deck or daily inspection/servicing card deck <dayinspdk></u>. The daily card deck shall contain the minimum daily maintenance requirements necessary to ensure the aircraft is safe for flight. The daily inspection card deck shall provide inspection requirements for defects at a greater depth than the turnaround checklist cards. The inspection shall be accomplished in a logical walkaround sequence (clockwise). If servicing instructions are not available in another manual, they shall be included with the daily inspection card deck.

5.1.1.4 <u>Special inspection card deck (spinspdk)</u>. Requirements sensitive to the occurrence of a prescribed number of days, flight hours, operating hours, or cycles/events that are not compatible with phase inspection intervals shall appear on special inspection cards (for example, 7, 14, or 21 days; 10, 35, or 75 hours; or 100 arrested landings). When assembling special cards, every effort shall be made to limit to eight hours elapsed maintenance time (EMT) the time required to perform any special inspection or combination of special inspections which, because of their intervals, become due simultaneously. Only one inspection cycle may be indicated in block 4, figure 1. The following detailed requirements apply:

a. <u>Aviator's equipment/safety and survival systems</u>. Certain aviator's equipment/safety and survival systems that require ALSS card deck shall have only installation and removal requirements included in the special cards.

b. <u>Corrosion inspection requirements</u>. The corrosion inspection program for items that are predominantly calendar sensitive shall consist of special inspections based on a cumulative number of days. These requirements are to inspect corrosion-prone areas for degradation that may have occurred during the preceding inspection interval. Corrosion-prone area illustrations shall be provided where necessary for clarity. Corrosion inspection tasks shall be identified with the letter "C" in block 11, figure 1.

c. <u>Engine removal/installation requirements</u>. Engine removal/installation requirements (when required) shall be contained in the special cards by reference to the applicable maintenance manual, for example: "remove engine in accordance with NAVAIR 01-XXX-X." These cards shall list the total time required, consumable maintenance materials, and replacement parts needed to accomplish the removal or installation of the engine.

d. <u>Engine bay area requirements</u>. The inspection of equipment, components, and/or structures within the engine bay area that are practical only with the engine removed shall be programmed as special inspections at the same interval as the scheduled engine removal. The applicable cards shall contain the following: "NOTE: To be performed when the QECA is removed for scheduled inspection."

e. <u>Installed engine requirements</u>. All engine, propeller and QEC maintenance requirements which are performed on the installed engine/QEC that do not have intervals compatible with those established in the phases shall be included as special inspections. All engine requirements included as special inspections shall be annotated in block 9 (see figure 1) with the word "engine" or "propeller," as applicable.

f. <u>Aircraft service period adjustment (ASPA) requirements</u>. When applicable, special inspection requirements shall be provided for preparation of the aircraft for ASPA evaluations and for restoration of the aircraft to a flight-ready condition upon completion of the inspection (see figures 3 and 4).

5.1.1.5 <u>Preservation/depreservation card deck <presdk></u>. Preservation requirements shall be provided for the short term (six months maximum) preservation of aircraft. Preservation requirements for each aircraft system will be addressed individually and shall include initial preservation procedures, scheduled maintenance to be accomplished while each system is preserved. Depreservation procedures shall also be included (see 5.2.22.1).

5.1.1.6 <u>Conditional inspection card deck <conddk></u>. Conditional inspections are those unscheduled inspections required to be accomplished because of the occurrence of a measurable abnormal operational event which exceeds the design limits of structural components or equipment and may compromise aircraft safety of flight. The exceeding of design limits shall be determined at the time of occurrence by a predetermined measurement criteria (i.e., Gs, pressure, temperature, RPMs, weight, speed, or torque). The occurrence of defects to components or equipment while operating within designed operating parameters is not considered to be a candidate for conditional inspections. Precarrier/postcarrier inspection requirements are exceptions to these criteria and shall be listed as conditional inspections.

5.1.1.7 <u>Phased maintenance card deck <**phmaintdk**></u>. The phased maintenance card deck is formulated by dividing the total applicable scheduled inspection requirements into phases which are performed at specified intervals and have approximately the same work content and elapsed maintenance time (EMT). This includes all QEC, propeller and engine requirements which are performed on the installed QECA. All QEC, propeller and engine requirements shall be identified in block 9, figure 1 with the word "Engine" or "Propeller" followed by the interval of the inspection. The number of phases is established after the scope of the total workload has been identified by maintenance engineering analysis. Through application of this concept, a portion of the total recurring inspection requirements is accomplished at each phase and the cycle will be repeated after completion of the last phase.

5.1.1.7.1 <u>Flight-hour inspections</u>. If the majority of the scheduled maintenance requirements specified for a phase inspection cycle are flight-hour sensitive, the requirements shall be divided into phases based on flight hours.

5.1.1.7.2 <u>Phase or calendar inspections</u>. If the majority of the scheduled maintenance requirements specified for a phase inspection cycle are calendar sensitive, the requirements shall be divided into phases based on calendar time.

5.1.1.7.3 <u>Phase inspection interval</u>. Each phase will be accomplished at equal flight-hour or calendar intervals. Scheduled flight-hour and calendar requirements shall not be intermixed in the same phase set of cards. Requirements not compatible with the phase interval shall be accomplished as special inspections.

5.1.1.7.4 <u>Phase inspection structure</u>. The following guidelines shall be followed in structuring each phase:

a. The amount of work to be accomplished by an inspection team shall be limited to eight hours or less of elapsed maintenance time (EMT).

b. When practical, divide each phase into approximately equal workloads.

c. Limit repetition of preparation requirements by giving special attention to equipment removal, access openings, use of support equipment (SE), engine operation, and checkflight requirements.

d. Within time limitations, group requirements that are functionally related in the same phase.

e. Group requirements so that they are compatible with the environment in which they should be performed, i.e., tasks requiring the aircraft to be on jacks shall be put in the same phase.

f. When feasible, group requirements to be accomplished using external power sources.

g. Inspection requirements that are common to all phases shall be consolidated in one deck and will be titled "Master deck." Inspection requirements that are performed on a specific phase only will be titled "Supplemental deck." To perform the inspection, the master deck will be issued along with the supplemental deck required for the specific phase.

5.1.1.8 <u>Zonal inspections</u>. Zonal inspections shall be a requirement of the daily / special / preservation / conditional and phased periodic maintenance requirements card decks (refer to 5.1.1.3 through 5.1.1.7) when the criteria of reliability centered maintenance (RCM) is met.

5.1.2 <u>QECA card set <qecaset></u>. This card set shall contain all scheduled engine inspection requirements necessary to zero time the engine for inspection purposes. This includes requirements on the engine, Quick Engine Change Kit (QECK), Contractor Furnished Equipment (CFE), Government Furnished Equipment (GFE) and propellers, if applicable, for all aircraft models which utilize the particular engine mode. For multi-engine aircraft, the requirements applicable to a particular engine position are noted on the applicable card. Conditional inspections and zonal inspections shall not be a requirement of the QECA card set. As applied in this standard, the terms QEC, QECA, and QECK are defined as follows:

a. <u>QEC (quick engine change)</u>. Requirements peculiar to a specific airframe for QECK items, GFE and CFE accessories, and for propellers, when applicable.

b. <u>QECA (quick engine change assembly)</u>. A quick engine change kit completely assembled on a quick engine change stand with the engine and all GFE and CFE accessories installed, less the propeller.

c. <u>QECK (quick engine change kit)</u>. A kit containing all items required for a QECA less GFE and

CFE accessories, engine, and propeller.

5.1.3 <u>Airborne armament equipment (AAE) <aaeset>/special stores (SS) <sset> card set</u>. The airborne armament equipment/special stores card set shall be subdivided into the specific types of information card decks described in 5.1.3.1 and 5.1.3.2.

5.1.3.1 <u>Periodic maintenance information card deck <**pmidk**></u>. The periodic maintenance information card deck contains the introductory information relative to the airborne armament equipment and special stores scheduled maintenance program. It includes a schedule for items having an approved mandatory removal/replacement interval and a list, by system and card number, of the inspection requirements to be performed.

5.1.3.2 <u>Daily/special cards<dayinspdk></u>. This card deck shall contain all scheduled maintenance requirements for airborne equipment or special stores that are not normally separated from the aircraft during flight. Items such as gun pods, multiple ejector racks/triple ejector racks, in-flight refueling stores, and electronic counter-measure pods fall into this category. The scheduled maintenance requirements are arranged in a logical sequence to ensure a thorough inspection of the equipment. The card deck contains the following:

a. <u>Daily inspection</u>. The daily inspection will provide inspection requirements for uninstalled airborne armament equipment or special stores. The inspection shall be accomplished in a logical walk around sequence. Inspections performed on installed airborne armament equipment or special stores shall be addressed in the applicable aircraft manual.

b. <u>Special inspection</u>. Special inspection requirements are tasks on installed or uninstalled airborne armament equipment or special stores which do not fit in the turnaround or daily requirements.

c. <u>Operational checks</u>. Justified operational checks shall not be included in this card set but shall be included in the appropriate aircraft manual.

d. <u>Zonal inspection</u>. Zonal inspections shall be a requirement of the daily/special card decks when the criterion of reliability centered maintenance (RCM) is met.

5.1.4 <u>Support equipment (SE)/automatic test equipment (ATE) card set <sseset></u>. The support equipment/ automatic test equipment card set shall be subdivided into the specific types of information card decks described in 5.1.4.1 through 5.1.4.6.

5.1.4.1 <u>Preoperational checklist card deck (for SE only) <preopdk></u>. This card deck contains the inspection requirements necessary to identify defects that have occurred between or during SE use. They consist of examinations of the equipment exterior and interior surfaces, required servicing, and functional checks, as required. The cards and tasks are arranged in the most logical order for performing the required tasks. SE preoperational requirements shall be accomplished prior to each use. Preoperational checklists shall not be developed for automatic test equipment (ATE). ATE, as distinguished from SE, are those units which, being permanently situated at intermediate level maintenance activities, carry out predetermined programs of testing.

5.1.4.2 <u>Daily inspection cards or daily inspection/servicing cards <dayinspdk></u>. The daily card deck shall contain the minimum daily maintenance requirements necessary to ensure the support equipment is ready for use. The daily inspection card deck shall provide inspection requirements for defects at a greater depth than the preoperational checklist. The inspection shall be accomplished in a logical sequence. If servicing instructions are not available in another manual, they shall be included with the daily inspection card deck. The title of the daily inspection card deck shall be changed to read "Daily Inspection/Servicing Cards."</u>

5.1.4.3 <u>Special inspection card deck <spinspdk></u>. Requirements sensitive to the occurrence of a prescribed number of days, operating hours, or cycles that are not compatible with inspection intervals shall appear in the special inspection card deck (for example, 7, 14, or 21 days; 10, 35, or 75 hours). When assembling special cards, every effort shall be made to limit to eight hours elapsed maintenance time (EMT) the time required to perform any special inspection or combination of special inspections which, because of their intervals, become due simultaneously. Only one inspection cycle may be indicated in block 4, figure 1. The following detailed requirements apply:

a. <u>Corrosion inspection requirements</u>. The corrosion inspection program for items that are predominantly calendar sensitive shall consist of special inspections based on a cumulative number of days. These requirements are to inspect corrosion-prone areas for degradation that may have occurred during the preceding inspection interval. Corrosion-prone area illustrations shall be provided where necessary for clarity. Corrosion inspection tasks shall be identified by the letter "C" in block 11, figure 1.

b. <u>Installed engine requirements</u>. All engine and QEC maintenance requirements which are performed on the installed engine/QEC that do not have intervals compatible with those established in the phases shall be included as special inspections. All engine requirements included as special inspections shall be annotated in block 9, figure 1 with the word "engine."

5.1.4.4 <u>Preservation/depreservation requirements card deck <presdk></u>. Preservation requirements shall be provided for short term (six months maximum) preservation. Preservation requirements shall include initial preservation procedures, scheduled maintenance to be accomplished while the SE or ATE is preserved. Depreservation procedures shall also be included (refer to 5.2.22.1).

5.1.4.5 <u>Conditional inspections card deck <conddk></u>. Conditional inspections are those unscheduled inspections required to be accomplished because of the occurrence of a measurable abnormal operational event which exceeds the design limits of structural components or equipment and may compromise safety. The exceeding of design limits shall be determined at the time of occurrence by a predetermined measurement criteria (i.e., pressure, temperature, RPMs, weight, speed, or torque). The occurrence of defects to components or equipment while operating within designed operating parameters is not considered to be a candidate for conditional inspections. Precarrier inspection requirements are exceptions to these criteria and shall be listed as conditional inspections.

5.1.4.6 <u>Calendar <calendardk> or start <startdk> maintenance requirements card decks</u>. These card decks contain the scheduled maintenance requirements necessary to maintain the support equipment. This includes checking, lubrication, servicing and inspection for degradation/corrosion. These cards shall contain requirements to ensure a thorough and searching examination of the equipment in both the static and functional states. They shall clearly establish inspection procedures that will detect material degradation that may have occurred during the preceding inspection interval. Clearances, pressures,

tolerances, illustrations, support equipment required, and manual references are to be presented where pertinent. Periodicity shall be established to the occurrence of a prescribed number of days, starts, or cycles, as applicable. When functional checks of the equipment are required, only the applicable maintenance manual(s) shall be referenced. Each inspection will be accomplished at equal hour or calendar day intervals. Requirements not compatible with the established interval shall be accomplished as special inspections. The following guidelines shall be used to determine if an inspection is a calendar or start inspection.

a. <u>Calendar inspections</u>. If the majority of the scheduled maintenance requirements specified for an inspection cycle are calendar sensitive, the requirements shall be based on calendar time (converted to days).

b. <u>Start inspections</u>. If the majority of the scheduled maintenance requirements specified for an inspection cycle are start sensitive, the requirements shall be based on starts.

5.1.5 <u>Powered aerial target (PAT) card set **at set** . The powered aerial target card set shall be subdivided into the specific types of information card decks described in 5.1.5.1 through 5.1.5.3.</u>

5.1.5.1 <u>Acceptance/initial buildup card deck <a cptbldupdk></u>. This card deck contains the acceptance inspections, buildup procedures, and testing and servicing requirements for newly issued targets. The cards are arranged in groups according to the rating or MOS required to perform the tasks.

5.1.5.2 <u>Prelaunch card deck <prelnchdk></u>. This card deck contains the prelaunch requirements to inspect the target for defects, to verify servicing, and to ready it for launch. The cards and tasks are arranged in the most logical order for performing the required tasks. Prelaunch requirements shall be accomplished immediately prior to each use of the target.

5.1.5.3 <u>Postlaunch/servicing card deck <**postlnchdk**></u>. This card deck contains the postlaunch maintenance and servicing requirements for the target. These requirements include procedures for decontamination, disassembly and buildup, inspection for degradation, and system servicing.

5.1.6 <u>Powered surface target (PST) card set **<pstset>**</u>. The powered surface target card set shall be subdivided into the specific types of information card decks described in 5.1.6.1 and 5.1.6.2.

5.1.6.1 <u>Preoperational checklist deck **(preopdk)**</u>. This checklist contains the inspection requirements arranged in the most logical order for performing the required tasks. Preoperational requirements shall be accomplished prior to each use of the target.

5.1.6.2 <u>Periodic maintenance requirements card deck <**pmrdk**></u>. This card deck contains the scheduled maintenance requirements necessary to maintain powered surface targets. This includes lubrication and servicing and inspection for degradation.

5.1.7 Aviation life support systems (ALSS) card set <alsset>.

5.1.7.1 <u>Periodic maintenance requirements card deck <**pmrdk>**</u>. This card deck contains the requirements necessary to inspect ALSS for degradation that has occurred since the previous inspection. The cards shall address specific equipment within the scope of a given category of equipment. For

example, the cards for the EMERGENCY PERSONAL PARACHUTES AND DROGUE SYSTEMS shall address the NES-12, A/P-28S-24, etc. The cards for the SEAT SURVIVAL KITS shall address the SKU-2/A, SKU-3/A, etc.

5.1.8 <u>Airborne mine countermeasure (AMCM) equipment card set **<amcmset>**. The AMCM equipment card set shall be subdivided into the specific types of information card decks described in 5.1.8.1 through 5.1.8.7.</u>

5.1.8.1 <u>Periodic maintenance information card deck **(pmidk)**</u>. This card deck contains the introductory information relative to the AMCM scheduled maintenance program. It includes a schedule for items having an approved mandatory removal/replacement interval or special tracking requirements; a list, by system and card number, of the inspection requirements to be performed; and conditional inspection requirements to be accomplished after the occurrence of certain over-limit situations.

5.1.8.2 <u>Turnaround checklist <turnchklst></u>. The cards for the turnaround checklist contain tasks consecutively numbered and sequentially arranged in logical walkaround order. The requirements are those necessary to identify degradation that has occurred during flight. They consist of:

a. Inspections for obvious defects and integrity of the equipment exterior and interior.

b. Checks to determine the need for servicing fuel, oil, hydraulic fluid, and other critical consumables expended during normal operation.

5.1.8.3 <u>Daily card deck <dayinspdk></u>. The daily card deck shall contain the minimum daily maintenance requirements and shall be arranged in a logical sequence of events. This includes lubrication and inspections for degradation/corrosion. These requirements are to be in a greater depth than those contained in the turnaround checklist. If servicing instructions are not available in another manual, they shall be included with the daily inspection card deck. The title of the daily inspection card deck shall be changed to read "Daily Inspection/Servicing Cards."

5.1.8.4 <u>Special inspection card deck <**spinspdk**></u>. Requirements sensitive to the occurrence of a prescribed number of days, operating hours, or cycles that are not compatible with inspection intervals shall appear in the special inspection card deck, for example 7, 14, or 21 days; 10, 35, or 75 hours. When assembling special cards, every effort shall be made to limit to eight hours elapsed maintenance time (EMT) the time required to perform any special inspection or combination of special inspections which, because of their intervals, become due simultaneously. Only one inspection cycle may be indicated in block 4, figure 1. The following detailed requirements apply:

a. <u>Corrosion inspection requirements</u>. The corrosion inspection program for items that are predominantly calendar sensitive shall consist of special inspections based on a cumulative number of days. These requirements are to inspect corrosion-prone areas for degradation that may have occurred during the preceding inspection interval. Corrosion-prone area illustrations shall be provided where necessary for clarity. Corrosion inspection tasks shall be identified by the letter "C" in block 11, figure 1.

b. <u>Engine removal/installation requirements</u>. Engine removal/installation requirements (when required) shall be contained in the special cards by reference to the applicable maintenance manual, for example: "remove engine in accordance with NAVAIR 01-XXX-X." These cards shall list the total time

required, consumable maintenance materials, and replacement parts needed to accomplish the removal or installation of the engine.

c. <u>Engine bay area requirements</u>. The inspection of equipment, components, and/or structures within the engine bay area that are practical only with the engine removed shall be programmed as specials at the same interval as the scheduled engine removal. The applicable cards shall contain the following: "NOTE: To be performed when the QECA is removed for scheduled inspection."

d. <u>Installed engine requirements</u>. All engine, propeller and QEC maintenance requirements which are performed on the installed engine/QEC that do not have intervals compatible with those established in the phases shall be included as specials. All engine requirements included as special inspections shall be annotated in block 9, figure 1 with the word "engine" or "propeller," as applicable.

5.1.8.5 <u>Preservation/Depreservation requirements card deck **<presdk>**</u>. Preservation requirements shall be provided for short term (six months maximum) preservation. Preservation requirements shall include initial preservation procedures, scheduled maintenance to be accomplished while the AMCM is preserved. Depreservation procedures shall also be included (refer to 5.2.22.1).

5.1.8.6 <u>Conditional inspections card deck <conddk></u>. Conditional inspections are those unscheduled inspections required to be accomplished because of the occurrence of a measurable abnormal operational event which exceeds the design limits of structural components or equipment and may compromise safety. The exceeding of design limits shall be determined at the time of occurrence by a predetermined measurement criteria (i.e., pressure, temperature, RPMs, weight, speed, or torque). The occurrence of defects to components or equipment while operating within designed operating parameters is not considered to be a candidate for conditional inspections.

5.1.8.7 <u>Calendar <calendardk></u>, hour <hourdk>, or start <startdk> maintenance requirements card decks. These card decks contain the scheduled maintenance requirements necessary to maintain the equipment. This includes checking, lubrication, servicing and inspection for degradation/corrosion. These cards shall contain requirements to ensure a thorough and searching examination of the equipment in both the static and functional states. Coverage shall clearly establish inspection procedures that will detect material degradation that may have occurred during the preceding inspection interval. Clearances, pressures, tolerances, illustrations, support equipment required, and manual references are presented where pertinent. Periodicity shall be established to the occurrence of a prescribed number of days, starts, or cycles, as applicable. When functional checks of the equipment are required, only the applicable maintenance manual(s) shall be referenced. Each inspection will be accomplished at equal hour or calendar day intervals. Requirements not compatible with the established interval shall be accomplished as special inspections. The following guidelines shall be used to determine if an inspection is a calendar, hour, or start inspection.

a. <u>Calendar inspections</u>. If the majority of the scheduled maintenance requirements specified for an inspection cycle are calendar sensitive, the requirements shall be based on calendar time (converted to days).

b. <u>Hour inspection</u>. If the majority of the scheduled maintenance requirements specified for an inspection cycle are hour sensitive, the requirements shall be based on hours.

c. <u>Start inspections</u>. If the majority of the scheduled maintenance requirements specified for an inspection cycle are start sensitive, the requirements shall be based on starts.

5.1.9 <u>Unmanned aerial vehicle (UAV) card set **<uavset>**</u>. The unmanned aerial vehicle (UAV) card set shall be subdivided into the specific types of information card decks described in 5.1.9.1 through 5.1.9.7.

5.1.9.1 <u>Periodic maintenance information card deck **(pmidk)**</u>. This card deck contains the introductory information relative to the UAV scheduled maintenance program. It includes a schedule for items having an approved mandatory removal/replacement interval or special tracking requirements; a list, by system and card number, of the inspection requirements to be performed; and conditional inspection requirements to be accomplished after the occurrence of certain over limit situations.

5.1.9.2 <u>Turnaround checklist <turnchlst></u>. The cards for the turnaround checklist contain tasks consecutively numbered and sequentially arranged in logical walkaround order. The requirements are those necessary to identify degradation that has occurred during flight. They consist of:

a. Inspections for obvious defects and integrity of the equipment exterior and interior.

b. Checks to determine the need for servicing fuel, oil, hydraulic fluid, and other critical consumables expended during normal operation.

5.1.9.3 Daily inspection card deck or daily inspection/servicing card deck **<dayinspdk>**. The daily card deck shall contain the minimum daily maintenance requirements necessary to ensure the equipment is ready for use. This includes lubrication and inspections for degradation/corrosion. The daily card deck shall be arranged in a logical sequence of events. These requirements are to be in a greater depth than those contained in the turnaround checklist. If servicing instructions are not available in another manual, they shall be included with the daily inspection card deck. The title of the daily inspection card deck shall be changed to read "Daily Inspection/Servicing Cards."

5.1.9.4 <u>Special inspection card deck (spinspdk)</u>. Requirements sensitive to the occurrence of a prescribed number of days, operating hours, or cycles that are not compatible with inspection intervals shall appear in the special inspection card deck, for example 7, 14, or 21 days; 10, 35, or 75 hours. When assembling special cards, every effort should be made to limit to eight hours elapsed maintenance time (EMT) the time required to perform any special inspection or combination of special inspections which, because of their intervals, become due simultaneously. Only one inspection cycle may be indicated in block 4, figure 1. The following detailed requirements apply:

a. <u>Corrosion inspection requirements</u>. The corrosion inspection program for items that are predominantly calendar sensitive shall consist of special inspections based on a cumulative number of days. These requirements are to inspect corrosion-prone areas for degradation that may have occurred during the preceding inspection interval. Corrosion-prone area illustrations shall be provided where necessary for clarity. Corrosion inspection tasks shall be identified by the letter "C" in block 11, figure 1.

b. <u>Engine removal/installation requirements</u>. Engine removal/installation requirements (when required) shall be contained in the special cards by reference to the applicable maintenance manual, for example: "remove engine in accordance with NAVAIR 01-XXX-X." These cards shall list the total time required, consumable maintenance materials, and replacement parts needed to accomplish the removal or

installation of the engine.

c. <u>Engine bay area requirements</u>. The inspection of equipment, components, and/or structures within the engine bay area that are practical only with the engine removed shall be programmed as specials at the same interval as the scheduled engine removal. The applicable cards shall contain the following: "NOTE: To be performed when the QECA is removed for scheduled inspection."

d. <u>Installed engine requirements</u>. All engine, propeller and QEC maintenance requirements which are performed on the installed engine/QEC that do not have intervals compatible with those established in the phases shall be included as specials. All engine requirements included as special inspections shall be annotated in block 9, figure 1 with the word "engine" or "propeller," as applicable.

5.1.9.5 <u>Preservation/Depreservation requirements card deck **<presdk>**</u>. Preservation requirements shall be provided for short term (six months maximum) preservation. Preservation requirements shall include initial preservation procedures, scheduled maintenance to be accomplished while the UAV is preserved. Depreservation procedures shall also be included (refer to 5.2.22.1).

5.1.9.6 <u>Conditional inspections card deck <conddk></u>. Conditional inspections are those unscheduled inspections required to be accomplished because of the occurrence of a measurable abnormal operational event which exceeds the design limits of structural components or equipment and may compromise safety. The exceeding of design limits shall be determined at the time of occurrence by a predetermined measurement criteria (i.e., pressure, temperature, RPMs, weight, speed, or torque). The occurrence of defects to components or equipment while operating within designed operating parameters is not considered to be a candidate for conditional inspections. Pre-shipboard inspection requirements are exceptions to these criteria and shall be listed as conditional inspections.

5.1.9.7 <u>Calendar **<calendardk**>, hour **<hourdk**>, or start **<startdk**> maintenance requirements card decks</u>. These card decks contain the scheduled maintenance requirements necessary to maintain the equipment. This includes checking, lubrication, servicing and inspection for degradation/corrosion. These decks shall contain requirements to ensure a thorough and searching examination of the equipment in both the static and functional states. Coverage shall clearly establish inspection procedures that will detect material degradation that may have occurred during the preceding inspection interval. Clearances, pressures, tolerances, illustrations, support equipment required, and manual references are presented where pertinent. Periodicity shall be established to the occurrence of a prescribed number of days, starts, or cycles, as applicable. When functional checks of the equipment are required, only the applicable maintenance manual(s) shall be referenced. Each inspection will be accomplished at equal hour or calendar day intervals. Requirements not compatible with the established interval shall be accomplished as special inspections. The following guidelines shall be used to determine if an inspection is a calendar, hour, or start inspection.

a. <u>Calendar inspections</u>. If the majority of the scheduled maintenance requirements specified for an inspection cycle are calendar sensitive, the requirements shall be based on calendar time (converted to days).

b. <u>Hour inspection</u>. If the majority of the scheduled maintenance requirements specified for an inspection cycle are hour sensitive, the requirements shall be based on hours.

c. <u>Start inspections</u>. If the majority of the scheduled maintenance requirements specified for an inspection cycle are start sensitive, the requirements shall be based on starts.

5.2 <u>Card types and arrangement</u>. The card sets described in 5.1.1 through 5.1.9 shall be made up of the specific types of cards arranged in the following order.

- a. Front matter cards (see 5.2.1).
- b. Introduction card (see 5.2.2).
- c. Introduction and application statements card (see 5.2.3).
- d. Definitions card (see 5.2.4).
- e. Removal/replacement schedule and special tracking requirements card (see 5.2.5).
- f. Inspection requirements index cards (see 5.2.6).
- g. Conditional inspection listing cards (see 5.2.7).
- h. Phase change implementation card (see 5.2.8).
- i. Abbreviations and index cards (see 5.2.9).
- j. Abbreviations, index, and checkflight requirements card (see 5.2.10).
- k. Special tools/support equipment list cards (see 5.2.11).
- 1. Consumable maintenance material list cards (see 5.2.12).
- m. Replacement parts list cards (see 5.2.13).
- n. Work area cards or zone cards (see 5.2.14).
- o. Zone title and description cards (see 5.2.15).
- p. Zonal inspection criteria card (see 5.2.16).
- q. Access panel cards (see 5.2.17).
- r. Antenna location cards (see 5.2.18).
- s. Checklist task cards (see 5.2.19).
- t. Phase sequence control cards (see 5.2.20).
- u. QECA sequence control card(s) (see 5.2.21).

- v. Task cards (see 5.2.22).
- w. Illustration cards (see 5.2.23).
- x. QA cards (see 5.2.24).
- y. Phase packages (Aircraft phased maintenance card deck only).
 - (1) Phase cover card (see 5.2.1).
 - (2) Sequence control cards (Master deck only) (see 5.2.20).
 - (3) Task cards (see 5.2.22).
 - (4) Illustration cards (see 5.2.23).
 - (5) QA cards (see 5.2.24).

5.2.1 <u>Front matter cards **(fmcd)**</u>. Card deck front matter cards shall consist of a title card, cover cards (if applicable), list of effective cards ("A" card), List of Technical Publications Deficiency Reports Incorporated card (TPDR card), and a warnings applicable to hazardous materials card (HMWS card). For detailed requirements and content of the front matter cards, refer to MIL-STD-3001-1, Appendix B.

5.2.2 <u>Introduction card <introcd</u>>. The introduction statement contains the purpose, scope, and arrangement of the periodic maintenance information card (PMIC) deck. The introduction shall also reference the comprehensive introduction contained in the maintenance manual for equipment.

5.2.2.1 <u>Introduction card for periodic maintenance information card (PMIC) deck</u>. The introduction statement shall be presented as follows:

"INTRODUCTION

This card deck contains introductory information necessary to ensure proper maintenance of the weapon system. It includes all items having an approved mandatory removal/ replacement interval and those items requiring Scheduled Removal Component (SRC) cards as required by OPNAVINST 4790.2; the Inspection Requirements index which lists, by system and card number, those requirements to be performed; and the Conditional Inspection Listing for those requirements that shall be accomplished after the occurrence of an over-limit situation.

The Conditional Inspection requirements include a brief description of what is to be performed and a reference to the manual or directive containing detailed requirements.

The Phase Change Implementation card, if included, identifies additional inspection requirements made necessary by card deck update.

In instances where conflict exists between the requirements contained in this card deck

and other maintenance directives bearing prior dates, this card deck shall take precedence.

A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

5.2.2.2 <u>Introduction card for AMCM or UAV PMIC decks</u>. The introduction statement shall be presented as follows:

"INTRODUCTION

This card deck contains introductory information necessary to ensure proper maintenance of the weapons system. It includes all items having an approved mandatory removal/replacement interval and those items requiring scheduled removal component (SRC) cards, assembly service record (ASR) cards, equipment history record (EHR) cards, and module service record (MSR) cards as required by OPNAVINST 4790.2; the inspection requirements index which lists, by system and card number, those requirements to be performed; and the conditional inspection listing for those requirements that shall be accomplished after occurrences of an over-limit situation.

The conditional inspection requirements include a brief description of what is to be performed and a reference to the manual or directive containing detailed requirements.

In instances where conflict exists between the requirements contained in this card deck and other maintenance directives bearing prior dates, this card deck shall take precedence.

A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

5.2.3 <u>Introduction and application statements card **<introaplcd>**</u>. Each of the following card deck types shall have an introduction and application statement. The introduction statement contains the purpose, scope, and arrangement of the deck. The introduction shall also reference the comprehensive introduction contained in the maintenance manual for equipment. The application statement contains inspection interval applicability information.

When hazardous materials are referenced, the statement contained in the warnings applicable to hazardous materials card (HMWS card) shall be included. Refer to 5.2.1.

5.2.3.1 <u>Turnaround checklist deck</u>. The introduction and application statements may be presented as expressed below.

"INTRODUCTION

This checklist contains abbreviated inspection requirements necessary to ensure the integrity of the (aircraft, equipment or vehicle) for (flight or use) and to determine the need for servicing. Time required to perform these tasks is approximately (insert number)

hours EMT. A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

Turnaround maintenance requirements shall be accomplished between flights and are valid for the period established in OPNAVINST 4790.2. The accomplishment of the Daily Inspection prior to flight does not satisfy the requirements of the Turnaround Inspection."

5.2.3.2 <u>Preoperational checklist decks</u>. The statements may be presented as expressed below. When hazardous materials are referenced in the manual, the following statement shall be added after the introduction.

"Warnings in this manual alert personnel to hazards associated with the use of hazardous materials. Additional information related to hazardous materials is provided in OPNAVINST 5100.23, Navy Occupational Safety and Health (NAVOSH) program manual; NAVSUPINST 5100.27, Navy Hazardous Material Control Program; and the DoD 6050.5, Hazardous Materials Information System (HMIS) series publications. For each hazardous material used within the Navy, a Material Safety Data Sheet (MSDS) must be provided and be available for review by users. Consult your local safety and health staff concerning any questions regarding hazardous materials, MSDS, personal protective equipment requirements, appropriate handling and emergency procedures, and disposal guidance."

"INTRODUCTION

This checklist contains inspection requirements necessary to ensure the integrity of the equipment for operation and to determine the need for servicing. Time required to perform these tasks is approximately (insert number) hours EMT. A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

Preoperational checklist maintenance requirements shall be accomplished prior to each use."

5.2.3.3 <u>Aircraft daily card deck and special, preservation, and conditional card decks</u>. The introduction and application statements shall be presented as follows.

Daily Card Deck

"INTRODUCTION

This card deck contains the minimum Daily requirements necessary to ensure the aircraft is safe for flight. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. Daily requirements

include inspections for defects and system degradation at a greater depth than the Turnaround Checklist.

A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

Daily requirements are valid for the period established by OPNAVINST 4790.2. The accomplishment of these requirements prior to flight shall not satisfy the requirements of a Turnaround inspection."

Special, Preservation, and Conditional Card Decks

"INTRODUCTION

This card deck contains the minimum Special/Preservation/Conditional and ASPA requirements necessary to ensure the aircraft is safe for flight. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. These requirements are grouped in the following order:

Special requirements are developed from tasks which do not fit in the phased package due to conflicting interval requirements. Inspections performed during Turnaround or Daily inspections shall not be duplicated by Special Inspections.

Preservation requirements provide short term preservation procedures, maintenance while preserved and depreservation procedures.

Conditional requirements are presented in this card deck when detailed requirements do not exist in an appropriate technical manual.

ASPA requirements provide special inspection requirements for preparation of the aircraft for ASPA evaluation and for restoration to a flight ready condition.

A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

Special, Preservation, Conditional and ASPA requirements shall be accomplished at the interval or condition specified on the card.

Level I Short Term Preservation shall be applied when the aircraft has been idle/nonflyable in excess of () days and is valid for up to 93 days."

5.2.3.4 <u>Calendar or phased maintenance requirements card deck</u>. The introduction and application statements shall be presented as follows.

"INTRODUCTION

This card deck contains the minimum calendar maintenance requirements to inspect the aircraft for degradation and to perform essential preventive maintenance. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. The cards are arranged in groups according to the rating/MOS required to perform the tasks. A sequence control card(s) shall be used to program the accomplishment of the requirements in the proper sequence. These requirements provide (insert number) balanced inspection intervals which constitute a (insert number) day calendar inspection cycle. A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

The maintenance requirements of each calendar inspection shall be accomplished at the expiration of (insert number) days following the completion of the prior calendar inspection. The calendar inspection cycle is repetitive for the service life of the aircraft."

or

"INTRODUCTION

This card deck contains the minimum phased maintenance requirements to inspect the aircraft for degradation and to perform essential preventive maintenance. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. The cards are arranged in groups according to the rating/MOS required to perform the tasks. A sequence control card(s) shall be used to program the accomplishment of the requirements in the proper sequence. These requirements provide (insert number) balanced inspection intervals which constitute a (insert number) flight hour phased maintenance cycle. A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

The maintenance requirements of each phase interval inspection shall be accomplished at the expiration of (insert number) flight hours following the completion of the prior phase interval inspection. The phased maintenance cycle is repetitive for the service life of the aircraft."

5.2.3.5 <u>QECA maintenance requirements card deck</u>. The introduction statement, and the appropriate application statement shall be presented as follows.

"INTRODUCTION

This card deck contains the minimum scheduled maintenance requirements to inspect the QECA for degradation and to perform essential preventive maintenance. Clearances,

pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. It includes all aircraft applications of the particular engine model. The cards are arranged in groups beginning with the engine requirements followed by separate QECA sections for each aircraft application. A sequence control card(s) shall be used to program the accomplishment of the requirements in the proper sequence. A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

The QECA maintenance requirements shall be accomplished at the interval of (insert number) hours for the (insert applicable engine type/model). These requirements shall also be accomplished as required by OPNAVINST 4790.2 when an engine is inducted into the Intermediate Maintenance Activity for repair."

or

"APPLICATION

The QECA maintenance requirements shall be accomplished as required by OPNAVINST 4790.2 whenever an engine is inducted into the Intermediate Maintenance Activity for repair."

5.2.3.6 <u>Airborne armament equipment or special stores daily/special card deck</u>. The introduction and application statement shall be presented as follows.

"INTRODUCTION

This card contains the minimum scheduled maintenance requirements for airborne armament equipment or special stores. The periodic maintenance requirements consist of daily and special inspections. The daily requirements include inspection for degradation that has occurred since the previous inspections. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. Tasks presented thereon are sequentially arranged and consecutively numbered in the most logical order to perform the required tasks. Special requirements are scheduled to be performed as dictated by a cumulative number of days, hours, or events as applicable. A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

The scheduled maintenance requirements set forth herein shall be accomplished at the intervals established on the abbreviation and index cards with the exception of the daily requirement. Daily requirements shall be accomplished upon initial installation of the equipment or special store(s) and when usage of the equipment or special store(s) is contemplated."

5.2.3.7 <u>SE/ATE calendar or start/special/preservation/conditional card decks</u>. The introduction and application statements shall be presented as follows.

"INTRODUCTION

This card deck contains the minimum Calendar or start/Special/Preservation/ Conditional (if applicable) requirements necessary to ensure the SE or ATE is safe for operational use. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. These requirements are grouped in the following order:

Calendar or start requirements - include inspections for defects and material degradation at a greater depth than the preoperational checklist.

Special requirements - are scheduled to be performed on a particular day, or after a cumulative number of operating hours or starts.

Preservation requirements - provide short term preservation procedures, maintenance while preserved and depreservation procedures.

Conditional requirements - are presented in this card deck when detailed requirements do not exist in an appropriate technical manual.

A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

The maintenance requirements set forth herein shall be accomplished at the intervals listed on the abbreviation and index card. Level I Short Term Preservation shall be applied when the SE has been idle in excess of () days and is valid for up to 93 days."

5.2.3.8 <u>Aircraft peculiar support equipment (PSE) maintenance requirements card deck</u>. The introduction and application statement shall be presented as follows.

"INTRODUCTION

This card deck contains the minimum scheduled maintenance requirements necessary to inspect for equipment degradation and to perform essential preventive maintenance. Clearances, pressures, tolerances, illustrations, support equipment required, and manual references are presented where pertinent. It includes all PSE applicable to this model/type aircraft. The cards in this deck are arranged in the sequence listed on the Abbreviation and index card. QA requirements are provided at the end of each piece/group of equipment covered within. A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

The maintenance requirements set forth herein shall be accomplished at the intervals listed on the Abbreviation and index cards. Level I Short Term preservation shall be applied when the PSE has been idle in excess of () days and is valid for up to 93 days."

5.2.3.9 <u>Powered aerial target (PAT) acceptance/initial buildup card deck</u>. The introduction and application statements shall be presented as follows.

"INTRODUCTION

This card deck contains the acceptance inspections, buildup procedures, and testing and servicing requirements for the newly issued target. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. The cards in this deck are arranged in groups according to the rating/MOS required to perform the tasks. A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

Acceptance/initial buildup requirements shall be accomplished upon issue and uncrating of the new target to prepare it for mission operation."

5.2.3.10 <u>Powered aerial target (PAT) prelaunch card deck</u>. The introduction and application statements shall be presented as follows.

"INTRODUCTION

This card deck contains the prelaunch maintenance requirements to inspect the target for defects, to verify servicing, and to ready it for launch. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. The cards and tasks thereon are sequentially arranged and consecutively numbered in a logical order for performing the required tasks."

"APPLICATION

Prelaunch requirements shall be accomplished prior to each use of the target."

5.2.3.11 <u>Powered aerial target (PAT) postlaunch card deck</u>. The introduction and application statements shall be presented as follows.

"INTRODUCTION

This card deck contains the postlaunch maintenance requirements to decontaminate the target, inspect it for degradation, and to perform all maintenance and testing necessary to return it to an operationally ready condition. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. The cards in this deck are arranged in groups according to the rating/MOS required to perform the tasks. The cards and tasks are arranged in the most logical order for performing the

required tasks. A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

Postlaunch requirements shall be accomplished after each recovery or retrieval of the target."

5.2.3.12 <u>Powered surface target (PST) periodic card deck</u>. The introduction and application statements shall be presented as follows.

"INTRODUCTION

This card deck contains the minimum scheduled maintenance requirements to inspect for degradation that has occurred since the preceding inspection interval and to perform essential preventive maintenance. A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

The maintenance requirements set forth herein shall be accomplished at the intervals listed on the abbreviation index card."

5.2.3.13 <u>AMCM or UAV daily card deck</u>. The introduction and application statements shall be presented as follows.

"INTRODUCTION

This card deck contains the minimum daily maintenance requirements. Daily requirements include inspections for defects at a greater depth than the turnaround checklist and inspection for system degradation. These inspections are designed to ensure the equipment is safe for operation. The daily card deck and tasks are sequentially arranged and consecutively numbered in the most logical order to perform the required tasks. A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

Daily requirements are valid for the period established by OPNAVINST 4790.2. The accomplishment of these requirements prior to flight shall not satisfy the requirements of a turnaround inspection."

5.2.3.14 <u>AMCM or UAV calendar or start/special/preservation/conditional card decks</u>. The introduction and application statements shall be presented as follows.

"INTRODUCTION

This card deck contains the minimum calendar or start/special/preservation/conditional requirements necessary to ensure the equipment is safe for operation. Special requirements are scheduled to be performed on a particular day or after a cumulative number of operating hours or cycles/events. Preservation requirements provide short term preservation procedures, maintenance while preserved and depreservation procedures. Conditional requirements are contained in this deck if no detailed requirements exist in an appropriate technical manual for references in the PMIC. The cards have been arranged in groups in this deck in the following order: Calendar or start/special/preservation/ conditional. Each card defines the group to which the card belongs. Clearances, pressures, tolerances, illustrations, support equipment required, and manual references are presented where pertinent. A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

Calendar or start/special/preservation/conditional (if applicable) requirements shall be accomplished at the interval or condition specified on the card. Level I short term preservation shall be applied when the equipment has been idle/nonoperational in excess of () days and is valid for up to 93 days."

Note: It is the cognizant field activities' responsibility to determine the maximum time the equipment may remain idle before short term (level I) preservation is required.

5.2.3.15 <u>ALSS maintenance requirements card deck</u>. The introduction and application statements shall be presented as follows.

"INTRODUCTION

This card deck contains the scheduled maintenance requirements to inspect for degradation and to perform essential preventive maintenance of the ALSS equipment identified in the Applicable Equipment List. Clearances, pressures, tolerances, illustrations, support equipment required and manual references are presented where pertinent. The cards in this deck are arranged in the sequence listed on the Abbreviation and index card. QA requirements are provided at the end of each section. A comprehensive introduction for this equipment is contained in (publication number of the manual containing the complete introduction for the end item)."

"APPLICATION

The maintenance requirements set forth herein shall be accomplished at the intervals listed on the Abbreviation and index card."

5.2.3.15.1 <u>ALSS maintenance requirements card applicable equipment list</u>. The applicable equipment list shall identify, by nomenclature and part number, each unit of equipment requiring inspection within the specified category of ALSS specified by the card deck.

5.2.4 <u>Definitions card <defcd></u>. Definition cards (see figure 5) shall be developed for all card decks with the exception of the preoperational and turnaround checklists and the periodic maintenance information card decks.

5.2.5 <u>Removal/replacement schedule and special tracking requirements card **<rrschtrkcd>** (for periodic maintenance information card decks only). With the exception of ALSS periodic maintenance information card decks, a removal/replacement schedule and special tracking requirements card (see figure 6) shall be developed. The prefacing statement contains the established criteria for removal and replacement of approved scheduled removal components (SRCs).</u>

a. All items having an approved mandatory removal/replacement interval and those items requiring SRC cards, Assembly Service Record (ASR) cards, Equipment History Record (EHR) and Modular Service Record (MSR) cards required by OPNAVINST 4790.2 shall be listed. Information shall be included for each aircraft and its critical components indicating their assigned structural life limits as required by NAVAIRINST 13120.1 or NAVAIRINST 13130.1, as applicable. Items requiring a scheduled removal component card shall be preceded by an asterisk (*). All other requirements shall be identified by reference to notes which shall be provided within each system, e.g., airframe, power plant, electrical power system, landing gear, etc. The information shall be presented and arranged in the sequence appearing in the work unit code manual index.

b. SRC items will be grouped together within the applicable section of the PMIC, clearly indicating the tracking vehicle, all time/cycle requirements, and respective Cognizant Field Activity (CFA), if different from the aircraft, weapon system, or support equipment CFA. A note must be added under the "Remarks" entry identifying all depot life limited items and stating these items do not require visual verification of component or assembly serial number during O and I level maintenance.

c. All ASR items will be grouped together within the applicable section of the PMIC, clearly indicating the tracking vehicle. All internal ASR time/cycle sensitive items will be listed under the respective ASR with their time/cycle requirements. A note must be added under the "Remarks" entry identifying all depot life limited items and stating these items do not require visual verification of component or assembly serial number during O and I level maintenance.

d. MSR items will be grouped together within the applicable section of the PMIC, clearly indicating the tracking vehicle. If time/cycle requirements are not applicable, it will so state. A note must be added under the "Remarks" entry identifying all depot life limited items and stating these items do not require visual verification of component or assembly serial number during O and I level maintenance.

e. EHR items will be grouped together within the applicable section of the PMIC, clearly indicating the tracking vehicle and the respective CFA. If time/cycle requirements are not applicable, it will so state.

(1) <u>Nomenclature</u> - the item nomenclature shall be in consonance with applicable source data and existing technical manuals. When conflict exists, the noun nomenclature presented in the illustrated parts breakdown (IPB) shall take precedence.

(2) <u>Part/model number</u> - the part number as shown in the IPB shall be listed. If the part number is not available, the approved model number shall be used.

(3) Disposition - action to be taken with the removed item shall be stated as either "turn in,"

"scrap," or "retire."

(4) <u>Removal interval</u> - the removal interval in calendar time, hours, cycles, or events shall be expressed.

(5) <u>Remarks</u> - provides notification of additional requirements or information concerning a particular component.

5.2.6 <u>Inspection requirements index cards *(for periodic maintenance information card decks only)*</u>. With the exception of the ALSS periodic maintenance information card deck, an inspection requirements index card (see figure 7) shall be developed. The card (s) shall be developed as follows.

a. The first card shall contain the following:

(1) The identification code of each type of inspection applicable to the aircraft under consideration, i.e., "D" for "daily," "S" for "special," etc.

(2) The index by systems, listed in the sequence provided by the WUC manual index, and the identity of the PMIC card(s) which list the task cards for each system.

b. The second and succeeding cards of the index shall contain the following:

(1) A list (**standard list**) of the systems having inspection requirements arranged in the order appearing in the WUC manual index.

(2) A list, adjacent to each system, identifying all applicable prime task cards.

5.2.7 <u>Conditional inspection listing cards <condinspcd> (for aircraft, AMCM and UAV periodic</u> <u>maintenance information card decks only</u>). These cards (see figure 8) contain the following information.

a. A list (**standard list**), by system, of conditional inspections required to be accomplished because of the occurrence of a measurable abnormal event which exceeds the design limits of the structural components or equipment and may compromise aircraft safety of flight.

b. A list of the task requirements including a brief description of what is to be performed and a reference to the publications containing the detailed inspection requirements.

5.2.8 <u>Phase change implementation card <phchgcd> (for aircraft periodic maintenance information card decks only)</u>.

a. This card (see figure 9) is required only if during a revision of the phased maintenance card deck, specific inspection or maintenance requirements are resequenced among the phases causing an unacceptable inspection of critical systems or components upon implementation of the revised card deck.

b. This card may convey special instructions applicable to implementation of the revised card deck.

5.2.9 <u>Abbreviations and index cards **<abindxcd>**</u>. Abbreviations and index cards (see figures 10 and 11) shall be developed for all card types with the exception of the preoperational and turnaround checklists, phased maintenance card decks, and the periodic maintenance information card decks.

a. The abbreviation list identifies each abbreviation and acronym used in the cards. The list is arranged in alphabetical order.

b. The index cards provide a list of the inspections contained in the cards and an inclusive listing of the cards applicable to each. The index for PSE provides a list, by part number and nomenclature, of the inspections contained in the cards and an inclusive listing of the cards applicable to each (see figure 11).

5.2.10 <u>Abbreviations, index, and checkflight requirements card **<abindxcd> (for phased maintenance card decks only)**.</u>

a. The abbreviation list (see figure 12) identifies each abbreviation and acronym used in the cards. The list is arranged in alphabetical order.

b. The phased maintenance card index (see figure 12) provides:

(1) An inclusive listing of the cards applicable to each phase inspection.

(2) A checkflight requirement list (see figure 12) which identifies the cards applicable to checkflight requirements. Checkflight requirements shall be determined utilizing the conditions set forth in OPNAVINST 4790.2.

5.2.11 <u>Special tools/support equipment list cards <secd></u>. Special tools/support equipment list cards (see figures 13 and 14) shall be developed for all card deck types with the exception of preoperational and turnaround checklists. These cards are also not required for periodic maintenance information card decks with the exception of ALSS deck. The special tools/support equipment list cards shall contain the following information.

a. A list of special tools and support equipment required to accomplish the maintenance task requirements (**standard list**). The cards shall also reference the comprehensive listing contained in the maintenance manual for the equipment.

b. Special tools and support equipment are listed alphabetically by noun nomenclature. The list includes the part number and type or model number. For tasks requiring the simultaneous use of two or more identical items, the quantity is also included.

c. Special adapters, jacks, slings, preoilers, hydraulic test stands, torque wrenches, spring scales, electrical power units, and bomb hoists are examples of items to be included in this list.

d. The list shall not include common hand tools such as screwdrivers, pliers, etc., which are normally found in the mechanic's tool box.

e. Special tools with several alternate part numbers and easily identified by noun nomenclature shall not be identified by part number, i.e., oil cans, grease guns, push/pull scales, torque wrenches, etc.

5.2.12 <u>Consumable maintenance material list cards <consumcd></u>. Consumable maintenance material list cards (see figures 15, 16, and 17) shall be developed for all card deck types with the exception of PAT prelaunch cards and preoperational and turnaround checklists. Also, these cards are not required for periodic maintenance information card decks with the exception of ALSS deck. The consumable maintenance material list cards shall contain the following information.

a. An alphabetically itemized list (**standard table**), by noun nomenclature, of all consumable maintenance materials necessary to accomplish the tasks. Consumable maintenance materials are those supplies that are consumed through use or for which a definite fixed quantity cannot be specified for each task, such as oil, hydraulic fluid, paint, cleaning solvents, thread, leak detection compounds, dry film lubricant, preservation materials, and lockwire. The cards should also reference the comprehensive listing contained in the introduction of the maintenance manual for equipment.

b. HMWS index number, when applicable, shall be listed following the nomenclature for all hazardous materials used.

c. Materials shall be listed by government specification unless alternate identification is approved by the requiring activity. Manufacturer brand names are prohibited except where no manufacturer's part number, military specification, or federal specification is assigned to the desired material and the requiring activity has specifically authorized their use or application.

5.2.13 <u>Replacement parts list cards **<rplcd>**</u>. Replacement parts list cards (see figures 18 and 19) shall be developed for all card deck types with the exception of PAT prelaunch card deck and preoperational and turnaround checklists. These cards are also not required for periodic maintenance information card decks with the exception of ALSS deck. The replacement parts list cards shall contain the following information.

a. An alphabetically itemized list (**standard table**), by noun nomenclature, of all mandatory replacement parts necessary to accomplish the tasks. Mandatory replacement parts are those items that are not intended for reuse, such as O-rings, gaskets, packing, inspection seals, and cotter pins.

b. The part number and quantity required for each part listed.

5.2.14 <u>Work area <**wrkareacd**> cards or zone cards <**zonecd**></u>. Work area or zone cards (see figures 20 and 21) shall be developed for all card deck types with the exception of periodic maintenance information card decks and preoperational and turnaround checklists. The work area and zone cards shall contain the following information.

a. Illustrations that clearly identify the location of the work areas or zones as identified in the applicable aircraft structural repair manual.

b. Numerically sequenced lists of the work area or zone titles as identified by the illustrations.

5.2.15 <u>Zone title and description cards <zonetltcd> (for aircraft special/preservation/conditional and</u> **phased maintenance card decks only**). The cards (see figure 22) shall provide a description of that portion of each work area or zone requiring a zonal inspection. The boundaries of the zonal inspection

required are numbered, titled, and may be defined in detail. These cards are required only if a zonal inspection is necessary. The "zones" definition may be presented as expressed below.

"ZONES

A work area or zone is a general area, such as "RH Outer Wing" or "Pilot Compartment." Each work area or zone is assigned a prime number in accordance with the aircraft structural manual. Work areas and zones are divided into smaller areas to facilitate accomplishment of zonal inspections. These smaller areas are zones within the prime numbered work area or zone and are assigned a decimal suffix of the prime number."

5.2.16 <u>Zonal inspection criteria card <zoneinspcd> (for aircraft special/preservation/conditional and</u> phased maintenance card decks only). These cards (see figure 23) are only required if a zonal inspection is necessary. They shall include zonal inspection criteria. The zonal inspection definition may be presented as expressed below:

"ZONAL INSPECTION

A zonal inspection is a general inspection of a specific area of the aircraft or support equipment where an existing scheduled inspection is being accomplished. These inspections are for obvious defects, such as leaks, frayed cables, cracks, corrosion or physical damage and do not require disassembly, special tools or test equipment. Zonal inspections are performed in conjunction with other scheduled maintenance tasks by the rating assigned. For example, an AQ assigned to perform an inspection on a radar antenna might also be assigned a zonal inspection of the entire compartment for obvious defects."

5.2.17 <u>Access panel cards <accpnlcd></u>. Access panel cards (see figures 24 and 25) shall be developed for all card deck types with the exception of the preoperational and turnaround checklists and periodic maintenance information, QEC, and AAE decks. The access panel cards shall contain the following information.

a. Illustrations depicting the views of the aircraft showing the locations of all access panels required to be opened, removed, or inspected.

b. Access panel nomenclature, numbering, and location shall be the same as that used in related technical manuals.

c. For phase maintenance requirements cards, provide a consolidated numerical list of all access panels required to be opened or removed in order to accomplish the maintenance task requirements listed. Applicable phase cycle to be annotated accordingly (see figure 25).

5.2.18 <u>Antenna location cards <antcd></u>. Antenna location cards (see figure 26) shall be developed for all special, preservation, conditional, and phased card decks. Antenna location cards shall also be developed for daily SE/ATE card decks and periodic maintenance information card decks for PST. The antenna location cards shall contain the following information.

a. Illustrations depicting the views of the aircraft showing the locations of all antennas to be inspected.

b. Antenna nomenclature and location shall be the same as that used in related technical manuals.

5.2.19 <u>Checklist task cards <chklstcd></u>. Checklist task cards (see figure 27) shall be developed for aircraft, airborne mine countermeasures, and unmanned aerial vehicle turnaround checklists, and support equipment, automatic test equipment, and powered surface target preoperational checklists. The checklist task cards shall contain the inspection requirements necessary to inspect for integrity and to perform servicing checks prior to flight or operation. Tasks shall be consecutively numbered and sequentially arranged in logical walkaround order.

5.2.20 Phase sequence control cards **<phsccd>** (for aircraft phased maintenance card decks only). A sequence control card(s) (see figure 28) shall be provided for each phase in the phase card deck, which sequences the inspection requirements task cards to be performed. The sequence control card(s) shall be plotted from left to right, starting with the personnel rating and number entry, the prephase entry, and continuing horizontally into the inspection. The graph coordinate for time shall be divided into equal vertical increments of one hour each. Each hourly increment shall be subdivided into five equal parts. EMT shall be presented in multiples of not less than one-tenth hour. The electrical power, hydraulic power, and conditioned air requirements shall indicate ON when required to complete the applicable tasks; OFF when application of power or air would be dangerous to personnel or damaging to the equipment. The NA notation shall not be used on the sequence control card(s). Power or air ON or OFF requirements shall be sequenced and grouped whenever possible to avoid frequent changes.

5.2.21 <u>QECA sequence control card(s) <**qecacd**></u>. A sequence control card(s) (see figure 29) shall be provided in the QECA deck, which sequences the QECA inspection requirements for all airframe applications. The upper portion of the first card only shall display the engine work areas/zones and engine illustration. The lower portion shall be divided into horizontal and vertical time graphs (as shown in the figure 29) to program the personnel requirements and the accomplishment of the QECA inspection requirements. The graph coordinate for time shall be divided into equal vertical increments of one hour each. Each hourly increment shall be subdivided into five equal parts. EMT shall be presented in multiples of not less than one-tenth hour.

5.2.22 <u>Task cards <tskcd></u>. Tasks cards (see figure 30) shall be developed for all card decks with the exception of aircraft, airborne armament equipment, and unmanned aerial equipment periodic maintenance information decks and support equipment and power surface target preoperational checklists. The task cards shall contain the maintenance requirements for each type of inspection. The task cards shall be prepared as follows:

a. When a task requires the use of one or more skilled assistants whose responsibilities are well defined, the prime card shall indic ate which assistants are required and identify the assistant's card number(s). For example, "assisted by AMS No. 3, card 19." When a task requires the use of one or more skilled assistants whose responsibilities are not well defined, the prime card shall include the rating of the assistants and the amount of assist time required. For example, "Assisted by AMS No. 2 (0.3 hrs)." When a task requires the use of multiple assistants whose responsibilities are of an unskilled nature and not well defined, the prime card shall state, "assistance as required."

b. A list identifying the noun nomenclature and part, type, or specification number of special tools and support equipment required to accomplish all tasks shall precede the consumable/replacement parts list or in the absence of the consumable/replacement parts list, shall precede the first task of the prime card. However, special tools with several alternate part numbers which are easily identified by noun nomenclature do not require further identification by part number, i.e., oil cans, grease guns, torque wrenches, etc. Common hand tools are not included in this list. If only one special tool or item of support equipment of a particular type is listed, then only its noun nomenclature shall appear in the task or step requiring it. An exception to this requirement is allowed in the QECA cards when due to the close similarity of certain items, such as spanner wrenches and bearing pullers, there is a distinct possibility that the wrong tool could be selected. When more than one special tool or item of support equipment with the same noun nomenclature is listed, each item shall be identified by part, type, or specification number in the tasks or steps to which they apply.

c. A list of consumables and replacement parts necessary to accomplish the task shall precede the first task of the prime card. When more than one consumable or replacement part with the same noun nomenclature is listed, the part, type, or specification number shall be specified in each applicable task or step. If, however, only one consumable or replacement part of a particular nomenclature is listed, then only the nomenclature shall be identified in the applicable task or step. An exception to this requirement is allowed in the QECA cards when, due to the close similarity of certain consumables and replacement parts, there is a distinct possibility that the wrong item could be selected and installed if not fully identified.

d. Inspection requirements, adjustments, checks, tests, and preventive maintenance that are to be performed on aircraft by an intermediate level of maintenance activity shall be sequenced in the appropriate location on the maintenance task and quality assurance cards.

e. Each task and its related steps shall be arranged in a logical sequence to provide a means of performing the requirements in the most accurate and efficient manner. Task cards may be grouped alphabetically by rating or numerically by MOS when more than one rating or MOS is applicable.

f. When two or more assemblies have identical task requirements, only the first assembly's task need be fully identified. Subsequent assemblies requirements shall state "repeat task (number) through task (number)."

g. Requirements appearing on each primary card and its associated decimal card(s) shall be limited to a single system, subsystem, assembly, or component. If, however, the requirements to be listed are not extensive enough to warrant individual primary cards, they may be grouped by rating or MOS group; one rating or MOS group per primary card.

h. Except for illustration cards, the requirements for electrical power, hydraulic power and conditioned air shall be consistent throughout all maintenance requirements decimal cards as indicated on the prime card.

i. Group requirements by one work area or zone or, when necessary, to a limited number of work areas or zones.

j. Limit the elapsed maintenance time (EMT) to two hours on the primary card and its associated decimal card(s) when possible.

k. Functions which require a QA inspector to observe the actual accomplishment of the maintenance task, i.e., torquing, assembly, etc., shall have the following note placed immediately preceding the task to be observed:

"NOTE: QA (card number) shall witness (task/step number)."

l. Functions which require a QA inspection after accomplishment of the maintenance task shall have the following note placed immediately preceding it:

"NOTE: QA (card number) required after accomplishment of (task/step number)."

m. If the task is continued on additional card faces, the lower right-hand corner of each card face shall have the word "Continued" (see figures 28 and 30).

n. If the task is completed on one card face, the words "End of card" shall appear in the lower righthand corner of the card face (see figures 29 and 31).

o. When a blank card face appears, the blank card face shall be assigned a number which shall appear on the preceding card face only; for example, if card 9.1 is blank, card 9 shall have the notation "(card 9.1 Blank)" in the lower right-hand corner below the "End of card" notation (see figures 31 and 34).

5.2.22.1 Preservation task card <prestskcd> requirements.

a. On preservation task cards, a note shall be added on each prime task card to identify the preservation card sequence.

b. The following note shall be added to the prime task card in the preservation deck listing all special inspection MRCs which must be complied with in conjunction with preservation MRCs.

"NOTE: The following special cards remain valid during short term preservation: (list applicable cards)."

c. For each special inspection card which remains valid during preservation, the following note should be added:

"NOTE: The requirements of this card remain valid when the aircraft is in a level I short term preservation status."

5.2.22.2 <u>Assist cards <asstskcd></u>. To supplement the task card requirements described in 5.2.22, assist cards (see figure 31) shall be developed and contain the following information.

a. Step-by-step tasks for supporting the requirements of primary cards when assist responsibilities are well defined and close coordination is required.

b. The rating/MOS and card number of the related primary task shall be designated, for example, "Assist AD No. 1, card A-16."

c. Separate assist cards shall not be prepared when a task requires the use of an assistant whose responsibilities are of an unskilled nature or are not well defined. The prime card shall include the rating of the assistant and time required in this case.

d. It is not necessary to provide an assist card for one or more assistants of the same RTG/MOS conducting the same task of the prime card.

5.2.22.3 <u>Lubrication task cards **(ubtskcd)**</u>. The following information entries shall be included. A lubrication illustration card (see figure 32) shall be used to clarify the lubrication task described on this card.

a. <u>Item</u> - designates the lubrication points as identified on the lubrication illustration card. Numbers are assigned in a clockwise fashion.

b. <u>Nomenclature</u> - identifies the item being lubricated. The item nomenclature shall be in consonance with applicable source data and existing technical manuals. When conflict exists, the noun nomenclature presented in the IPB shall take precedence.

- c. <u>No. of points</u> lists the number of lubrication points of each item.
- d. <u>Specification</u> identifies the type of lubrication to be applied to each point.

5.2.23 <u>Illustration cards <illustcd></u>. Illustration cards (see figure 33) shall be developed as necessary to clarify the maintenance or lubrication task. With the exception of ALSS, illustration cards are not required for periodic maintenance information cards or for turnaround and preoperational checklists. Illustrations, whenever possible, shall be on the same or adjacent card to the text to which they apply. They shall depict the affected area as it appears to the maintenance personnel conducting the associated maintenance task.

5.2.23.1 Lubrication illustration cards <illustcd>.

a. Lubrication illustrations (see figures 34 and 35) shall include all scheduled lubrication requirements identified on the lubrication task card (see 5.2.22.3). Items shall be numerically sequenced in a clockwise fashion around the major assembly to which the lubrication task applies.

b. The lubrication application symbols, abbreviation lubrication specification numbers, and item numbers shall be depicted. The item number may designate more than one point of servicing. Dashed leader lines shall be utilized to designate lubrication points on the opposite side of the assembly.

c. The number of lubrication points listed on the task card shall be the same number as those shown on the illustration card.

d. When two or more assemblies have similar lubrication requirements, a note stating which assembly is shown and which assemblies are similar shall be required for the illustration card, i.e., "left side shown, right side similar."

e. A point of servicing which has been designated by a lubrication symbol in one view shall not be

redesignated in another view.

f. Authorized lubrication symbols are illustrated in figure 35.

g. Special notes may appear when necessary to explain special circumstances not otherwise provided by the standard symbols.

5.2.24 <u>QA cards (qacd)</u>. QA cards (see figure 36) shall contain the following information. With the exception of ALSS and QECA, QA cards are not required for periodic maintenance information cards or for turnaround and preoperational checklists.

a. Requirements to inspect systems and components whose integrity has been disturbed during scheduled maintenance and where maintenance, if improperly performed, could cause equipment failure or jeopardize the safety of personnel. QA inspections are performed as necessary either during or after task performance.

b. When a task is referenced to another TM and a QA task is included, there is no requirement for a QA task card when a QA task is called for in the TM.

c. The following note shall be used to refer the QA inspector to the task requiring the inspection:

"NOTE: Refer to task card (card number/step number)."

d. Requirements on QA cards shall be limited to a single system, subsystem, assembly, or component.

e. Card sequencing shall be as follows:

(1) QA cards for the aircraft daily/special/preservation cards shall be sequenced immediately following the task card set for the respective inspection interval. For example, all QA cards required for the 28-day special inspection shall be sequenced behind the last 28-day special task card.

(2) QA cards for each aircraft phase inspection shall be sequenced in back of each phase card set.

(3) QA cards in the QECA cards shall follow their respective card sets, i.e., QA cards pertaining to the engine shall follow the engine task cards; QA cards pertaining to a particular QEC shall follow that QEC's task cards.

(4) QA cards for the airborne armament or special stores daily/special cards shall be sequenced immediately following the card set for the respective inspection interval. For example, all QA cards required for the 28-day special inspection shall be placed behind the last 28-day special task card.

(5) QA cards should be sequenced in the back of the following cards:

(a) Support equipment periodic maintenance cards.

- (b) Powered aerial target acceptance/initial buildup cards.
- (c) Powered aerial target prelaunch cards.
- (d) Powered aerial target postlaunch/servicing cards.
- (e) Powered surface targets periodic maintenance cards.

(6) QA cards for the aviation life support systems periodic maintenance cards shall be sequenced in back of the task cards of each type of equipment covered by the cards.

(7) QA cards for the Peculiar Support Equipment (PSE) periodic maintenance cards shall be sequenced in back of the task cards of each piece/group of equipment covered by the cards.

5.2.25 <u>Aircraft service period adjustment (ASPA) card <a space (Aircraft special inspection card deck only)</u>. When applicable, special inspection requirements shall be provided for preparation of the aircraft for ASPA evaluations and for restoration of the aircraft to a flight-ready condition upon completion of the inspection (see figures 3 and 4).

5.3 <u>Card forms and card field details</u>. Figures 1 and 2 illustrate the card fields for the two card forms authorized for periodic maintenance requirements card deck use. See figure 1 for prime and decimal cards and figure 2 for preface and illustration cards. Detailed requirements for each field are described below.

a. <u>Card</u>. Enter the assigned card number. Refer to 5.4 for details concerning card numbering (see block 1, figures 1 and 2).

b. <u>Pub and date</u>. This block shall identify the publication number assigned by the procuring activity. It shall also identify the basic issue or revision date of the cards directly under the publication number (see block 2, figures 1 and 2).

c. <u>Change No</u>. This block shall indicate the number of the most recent revision. The block is left blank on basic issue or revision cards (see block 3, figures 1 and 2).

d. <u>Inspection type/interval</u>. This block shall be used to designate the inspection type or interval such as special 7-day, daily, postlaunch, phase, engine (see block 4, figure 1).

e. <u>Elec pwr, hyd pwr, and cond air</u>. These blocks shall indicate the requirements for electrical power, hydraulic power, and conditioned air. Requirements shall indicate ON when required to complete the tasks; OFF when application would be dangerous to personnel or damaging to the equipment; and NA (not applicable) when power is not required and its application would not be dangerous to personnel or damaging to the equipment. The status of electrical power, hydraulic power and conditioned air on decimal cards shall be consistent with the requirements indicated on the prime card (see block 5, figure 1).

f. <u>Time</u>. This block shall be used to indicate the total elapsed maintenance time (EMT) necessary to accomplish the requirements of the prime card and decimal card(s). Time to perform referenced requirements shall be included. EMT is expressed in hours and tenths of hours on the prime card only.

The time required to obtain tools, equipment, parts or consumables, and time lost due to adverse working conditions or corrections of discrepancies shall not be included. If an assistant is required, his total time required shall be indicated in hours and tenths of hours in parenthesis in the upper right-hand corner following the assistant's rating as shown in figures 3 and 4 (also see figure 1, block 6).

g. <u>RTG and NO (rating and number)</u>. This block shall be used to assign the Navy rating which is responsible for the task in accordance with NAVPERS 18068. When a plane captain, flight engineer, or quality assurance inspector is required, they shall be identified as PC, FE, or QA in accordance with OPNAVINST 4790.2. In addition to the rate, a number shall be assigned to identify individuals within each of the rates required to complete the inspection.

Note: The number assigned identifying individuals required to accomplish specific tasks does not relate to skill levels. These numbers are used for task sequencing and workload control purposes. For inspection utilizing sequence control cards(s), the rate and number assigned to the task card(s) shall correspond with those listed on the sequence control card(s) (see figures 28 and 29). The block shall remain blank if the task does not apply to Navy equipment (see block 7, figure 1).

h. <u>MOS and NO (Military Occupational Specialty and Number)</u>. Marine Corps MOS numbers shall be assigned in this block in accordance with MCO P1200.7 to identify the general technical specialty responsible for accomplishing the task. When a plane captain, flight engineer, or quality assurance inspector is required, they shall be identified as PC, FE, or QA in accordance with OPNAVINST 4790.2. In addition to the MOS, a number shall be assigned to identify individuals within each of the occupational specialties required to complete the inspection. These numbers are used for task sequencing and workload control purposes. For inspections utilizing sequence control cards(s), the MOS and number assigned on the task card(s) shall correspond with those listed on the sequence control card(s) (see figures 28 and 29). The block shall remain blank if the task does not apply to Marine Corps equipment (see block 8, figure 1).

i. <u>Task</u>. This block shall contain the descriptive title identifying the task(s) on the card. This block shall be left blank on daily cards (see block 9, figure 1).

j. <u>Work area/zone field</u>. This field shall identify the work area or zone assigned from the work area or zone illustration. When an inspection requirement affects more than one work area or zone, all work areas or zones so affected shall be identified (see block 10, figure 1).

k. <u>Corrosion inspection field</u>. Entries shall be provided in this field in all cards (except checklists and PMIC) to identify corrosion inspection requirements. These requirements shall be identified by the symbol "C" in this column (see block 11, figure 1).

l. <u>Inspection requirements</u>. This area shall provide the task description. Each task and its related steps shall be arranged in a logical sequence to ensure accurate and efficient accomplishment of the inspection requirement (refer to 5.2.22) (see block 12, figure 1).

m. <u>Card title</u>. This block shall provide the descriptive title of the preface, illustration, and PMIC cards (see block 13, figure 2).

n. <u>Inspection information</u>. This area shall provide preliminary maintenance information, illustrations, and PMIC information (see block 14, figure 2).

5.4 Card numbering.

5.4.1 PMIC card decks.

a. The title card shall not be numbered.

b. "A" cards shall be sequenced alphabetically using capitalized letters. Card A shall be printed on the back of the title card.

c. List of Technical Publications Deficiency Reports Incorporated card (TPDR card) shall follow the "A" cards and be numbered TPDR-1, TPDR-2, etc.

d. The preface card (introduction card) shall be numbered using the lower case Roman numeral i.

e. When hazardous materials are addressed in the card, the cards shall be numbered using the prefix "AHMWS" followed by consecutive numbers (e.g., "AHMWS-1", "AHMWS-2", etc.). Refer to MIL-STD-3001-1, Appendix B.

f. All cards, except the title, "A" card, TPDR card and preface cards, shall be assigned consecutive Arabic numerals.

g. The addition of new cards to an existing manual shall be accomplished in accordance with 5.4.8.

5.4.2 Turnaround and preoperational checklists.

a. The title/introduction/application page shall not be numbered.

b. Task pages shall be assigned consecutive Arabic numerals as illustrated in figure 27.

5.4.3 <u>Daily, special, preservation, and conditional card decks</u>. These card decks shall be numbered as follows:

a. The title card shall not be numbered.

b. "A" cards shall be sequenced alphabetically using capitalized letters. Card A shall be printed on the back of the title card.

c. List of Technical Publication Deficiency Reports Incorporated card (TPDR card) shall follow the "A" cards and be numbered TPDR-1, TPDR-2, etc.

d. When hazardous materials are addressed in the manual, the cards shall be numbered using the prefix "AHMWS" followed by consecutive numbers (e.g., "AHMWS-1," "AHMWS-2," etc.). Refer to MIL-STD-3001-1, Appendix B.

e. Preface cards (does not include title card, "A" cards or TPDR cards) shall be consecutively numbered using lower case Roman numerals.

f. Task cards shall be assigned consecutive Arabic numerals. Prime cards shall be sequenced using integers, i.e., 1, 2, 3, 4, etc. Decimal cards, when required, shall use decimal suffixes, i.e., 1.1, 1.2, or 2.1, 2.2, 2.3, etc. The word "Continued" shall be printed in the lower right corner of the card to indicate that the task continues to a successive decimal card. The words "End of card" shall be located in the lower right corner of the card to indicate that the task requirements have been completed and that no decimal card follows. A prime card shall not be printed on the reverse side of a decimal card but shall be established on a new card. Blank card faces generated by this restriction shall not be numbered. The words "(card number) Blank)" shall be printed in the lower right corner of a card to indicate that the succeeding card face is blank. See figure 30 for example of task card numbering.

5.4.4 Phased maintenance requirements card deck. This deck shall be numbered as follows:

a. The title card and phase cover cards shall not be numbered.

b. "A" cards shall be sequenced alphabetically using capitalized letters. Card A shall be printed on the back of the title card.

c. List of Technical Publications Deficiency Reports Incorporated card (TPDR card) shall follow the "A" cards and be numbered TPDR-1, TPDR-2, etc.

d. When hazardous materials are addressed in the manual, the cards shall be numbered using the prefix "AHMWS" followed by consecutive numbers (e.g., "AHMWS-1," "AHMWS-2," etc.). Refer to MIL-STD-3001-1, Appendix B.

e. Preface cards (does not include title card, "A" cards or TPDR card) shall be consecutively numbered using lower case Roman numerals.

f. Task cards within each phase shall be grouped alphabetically by rating or numerically by MOS. They shall be assigned consecutive Arabic numerals preceded by the appropriate phase designator, i.e., A-1, A-2 or B-1, B-1.1, B-1.2, etc. Prime cards shall be sequenced using integers, i.e., A-1, A-2, A-3, etc. Decimal cards, where required, shall use decimal suffixes, i.e., A-1.1, A-1.2 or B-2.1, B-2.2, B-2.3, etc. The word "Continued" shall be printed in the lower right corner of the card to indicate that the task continues to a successive decimal card. The words "End of card" shall be printed in the lower right corner of the card to indicate that the task requirements have been completed and that no decimal card follows. A prime card shall not be printed on the reverse side of a decimal card but shall be established on a new card. Blank card faces generated by this restriction shall not be numbered. The words "(card (card number) Blank)" shall be printed in the lower right corner of a card to indicate that the succeeding card face is blank. Refer to figure 30 for an example of phase task card numbering.

5.4.5 <u>QECA deck</u>. Engine cards shall be numbered as outlined in 5.4.3. Consecutive hundred series cards shall be assigned to each QEC required. If the engine cards are numbered 1 through 69, for example, the QEC cards applicable to the first airframe would be numbered starting with 101, the QEC cards applicable to the second airframe would be numbered starting with 201, etc.

5.4.6 <u>ALSS deck</u>. Cards shall be numbered as outlined in 5.4.3 with the following exception. Each type of equipment being inspected shall be assigned consecutive hundred series cards. For example, the LR-1 life raft would be assigned task card numbers 101-199; the LRU-12/A (MK-4) life raft would be assigned task card numbers 201-299, etc.

5.4.7 <u>Aircraft PSE deck</u>. Cards shall be numbered as outlined in 5.4.3 with the following exception. Each piece or group of peculiar support equipment being inspected shall be assigned consecutive hundred series cards. For example, the AV 57-213, AV 57-214, and AV 57-217 wedges are a group of PSE and would be assigned task card numbers 101-199.

5.4.8 <u>Added cards</u>. When a new card is added to an existing PMRM, the new card shall be identified by using the appropriate existing card number plus an alphabetical suffix. For example, new cards inserted between task cards 12.1 and 12.2 would be identified as 12.1A, 12.1B, 12.1C, etc. Similarly, a new primary card added between cards 15 and 16 would be identified as card 15A. When cards are added to preface cards (introduction), the added preface card(s) shall be identified by using the appropriate Roman numeral plus an alphabetical suffix.

5.4.9 <u>Deleted cards</u>. When card number continuity is broken by deletion of a card, a statement indicating the deletion shall be placed in the bottom margin of the preceding card; for example, "all data on card (card number), including figure number (figure number) deleted." This also applies when two back-to-back cards are deleted.

5.4.10 <u>Renumbering</u>. During a revision, all preface, task, and illustration cards shall be renumbered, as necessary, to eliminate card number alphabetic suffixes and to reestablish the correct card sequence.

5.5 <u>Changes and revisions</u>. PMR card sets covered herein shall be changed or revised to reflect all approved changes. Checklists shall always be revised, not changed.

5.5.1 <u>Changes</u>. A change is any alteration of the cards already in existence. It is accomplished by replacement, addition, or deletion of cards, including backup cards, but not sufficient in number to require a complete revision of the cards. Vertical change bars or the letter "R" shall be used to highlight changes. Change bars or symbols shall not be depicted on a complete revision.

5.5.2 <u>Revisions</u>. A PMR card deck shall be revised when the percentage of an anticipated change plus all previously incorporated changes affect a total of sixty percent of the card faces in the PMRM. The following criteria shall be used to determine the need for a revision:

a. A change is defined as any information that has been incorporated, deleted, or resequenced in a PMR card deck since the last revision.

b. Any change to a card face except for correction of typographical errors shall be counted as one card face.

c. Each card face affected shall be counted as one card change.

d. Arabic numbered cards only shall be counted for change purposes.

e. Percentage of change shall be computed utilizing the following formula:

<u>Number of Arabic numbered card face changes</u> x 100 = percent of change Number of Arabic numbered cards

Example: number of Arabic numbered card face changes (200) divided by the total number of Arabic numbered cards in the manual (300) multiplied by 100 equals 66.66 percent change.

f. Each card added or deleted shall count as one card face change. For example, if 100 new cards are added while 100 cards are deleted, the total number of cards changed shall equal 200 cards.

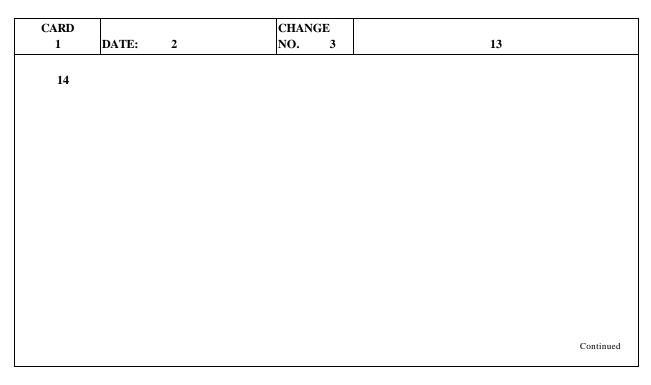
g. Change symbols will not be required for revised card decks.

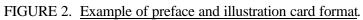
6. NOTES.

The notes in section 6 of MIL-STD-3001-1 apply to this Part.

CARD	1953				CHAN			ELEC PWR 5
1 WORK	D/ C	TE:	2 RTG	MOS	NO.	3	4	HYD PWR 5
AREA/ZONE	CRSN	6	NO. 7	NO.	8		9	COND AIR 5
10	11	12						
								Continu

FIGURE 1. Example of prime and decimal card format.





CARD 191		AVAIR 01-F ATE: 1 Oct	F14AAA-6-3 tober 1989		CHAN NO.	GE 2	ASPA	ELEC PWR	
				S MOS	MOS 6042			HYD PWR	ON
AREA/ZONE	S N	4.9	NO. 1	NO.	1	AIRCRAFT	F PREPARATION	COND AIR	ON
			39	66	22	As	sisted by AMH No. 1 (1.4	Hr) AD No. 1 (4	4.9 Hr)
							PC No. 1 (3.6		
							PC No. 2 (4.1		
							PC No. 3 (4.1		
								AT No. 2 (1	.3 Hr)
				SPE	CIAL TO	OLS/SUPPORT E	QUIPMENT		
			Cart. Air Co	onditionin	g		NR5C		
			Lock, Speed	1 Brake			A51S61800-3		
			Power Sour				NC8A		
			Power Sour	ce, Hydra	ulic		AHT-64		
				CON	SUMAB	LES/REPLACEM	ENT PARTS		
			Tape, Press	ure Sensit	ive		MIL-T-22085 Typ	e II	
		NOTE: 1	lo be performed	l on all air	craft unde	rgoing evaluation	for service period adjustm	ent.	
		г	reporting custod	lian's oper	ating site.		ntended to be performed a reassembly, and conseque		
ALL			t service period e aircraft safe f		· · · · · · · · · · · · · · · · · · ·		AAA-2-1, WP 020 00 AN	D WP 021 00.	
								Co	ntinued

FIGURE 3. Example of an aircraft service period adjustment (ASPA) requirements card for aircraft preparation.

CARD 194		VAIR 01-F TE: 1 Oct	714AAA-6-3 tober 1989		CHAN NO.	GE 2	ASPA	ELEC PWR	
WORK AREA/ZONE	C R S N	TIME 4.7	RTG AMS NO. 1	MOS NO.	6042 1	AIR	CRAFT RESTORATION	HYD PWR COND AIR	ON N/A
							Assisted by AMH No. 1 (2.5 Hr, AT No. 1 (2.1 Hr) AD No. 2 (4.5 Hr	AD No. 1 (2.1 Hr) 4.5 Hr)
				SPE	CIAL TO	OLS/SUI	PPORT EQUIPMENT		
			Power Source	, Electro	onic		NC8A		
			Power Source	e, Hydrau	ulic		AHT-64		
				CON	SUMAR	LES/REF	PLACEMENT PARTS		
			Cleaner, Lubr	icant/Pr	eservativ	8	MIL-L-63460		
			Compound, C	orrosion	n Prevent	ative	MIL-C-16173 Grade	4	
			Oil, Lubricati	ng			VV-L-800		
ALL		1. Comple	tion of ASPA:						
			e nose radome.						
		b. Install left forward fixed cowl 5212-1.							
		NOTE: Step 1.c. required for second and subsequent ASPA.							
		 c. Install engine IAW NAVAIR 01-F14AAA-2-4-6A, WP 006 00 and (card d. Remove tape from spoilers. e. Remove locks from speed brakes. 					A, WP 006 00 and (cards 172B through	h 172G).	
		e. Rem	ove locks from s	peeu bra	a.cs.			ିତ	ontinue

FIGURE 4. Example of an aircraft service period adjustment (ASPA) requirement card for aircraft restoration.

CARD iv								
	DEFINITIONS							
CAUTION -	CAUTION - Indicates danger to the system. The caution precedes the item to which it refers.							
DAMAGE -	A harmful condition caused by an ab	onormal force or object	t.					
WARNING -	- Indicates danger to personnel. The	warning precedes the	item to which it refers.					
EVIDENCE leak.	- An indication of an existing conditi	on, such as hydraulic	fluid dripping from the lower wing surface is evidence of a					
NOTE - An	information item. The note precede	s or follows the item	to which it refers.					
OBVIOUS - I	Easily seen or understood, clear to th	e eye or mind, not to	be doubted.					
SECURITY	SECURITY - An item firmly, positively, and safely attached in the approved manner.							
SPECIFIED	SPECIFIED - Refers to a definite amount, operation, or limitation.							
	VISIBLE or EXPOSED - The term applied when inspection requires no further disassembly or movement of equipment and no removal of doors or panels other than that specifically detailed.							

FIGURE 5. Example of definitions card.

CARD	A1-C3AAA-MRC-000	CHANGE	REMOVAL/REPLACEMENT SCHEDULE AND SPECIAL
1	DATE: 1 January 1982	NO.	TRACKING REOUIREMENTS

REMOVAL/REPLACEMENT SCHEDULE AND SPECIAL TRACKING REQUIREMENTS

Items that have an approved mandatory removal/replacement interval shall be removed and replaced with serviceable items at the specified interval. Any deviation to removal schedules should be in accordance with OPNAVINST 4790.2. Replacement items are indicated in unit operating hours, calendar time, cycles or events, and arranged by aircraft/engine/system.

Items preceded by an asterisk (*) require a Scheduled Removal Component (SRC) Card (OPNAV Form 4790/28A). Assembly Service Record (ASR) items tracked by ASR Cards (OPNAV Form 4790/106A), Modular Service Record (MSR) items (items modular by design) tracked by MSR Cards (OPNAV Form 4790/135), Equipment History Record (EHR) items tracked by EHR cards (OPNAV Form 4790/113) and structural life limited items designated for depot replacement, requiring preparation of OPNAV Form 4790/142, are identified by notes in the remarks column. NOTE: Items tracked by OPNAV Form 4790/28A SRC Cards and OPNAV Form 4790/106A ASR Cards do not require documentation on OPNAV Form 4790/142, Structural Life Limits. Components will have EHR cards prepared to track history and performance data for specially tracked other than forced removal items. Refer to OPNAVINST 4790.2 for additional information on history record tracking data.

FIGURE 6. Example of a removal/replacement schedule and special tracking requirements card.

CARD 45	A1-F18AC-MR DATE: 15 July		CHANGE NO.	REMOVAL	REPLACEMENT SCH TRACKING REOUI	HEDULE AND SPECIAL REMENTS
		PART/MODEL		•	REMOVAL	
NOMENCLA	TURE	<u>NUMBER</u>	DISPOS	<u>SITION</u>	INTERVAL	<u>REMARKS</u>
			FLIGHT CONT	ROLS		
Aileron		74A170004	NA		NA	(Note 1)
Speedbrake		74A360001	NA		NA	(Note 2)
Servocylinder	r,	3014000-4	NA		NA	(Note 3)
Hyd, Horizor Stabilizer	ntal					
	-month service life Sep 1991.	e began upon receipt	of SLB-002, but	under no circ	umstances will the servi	ce life extend beyond
NOTE 2: Eq	uipment History R	ecord (EHR) item; re	quires OPNAV F	orm 4790/11	3. CFA NAVAVNDEP	OT North Island.
NOTE 2. Ea	ninmant Histom D	acound (EIID) items and	ODNAV I	ama 4700/11	2 CEA NAVAUNDED	OT Isslessmuille

FIGURE 6.	Example of removal/replacement schedule and special
	tracking requirements card - continued.

CARD	A1-C3AAA-MRC-000	CHANGE	INSPECTION	N REQUIREMENTS I	NDEX
8	DATE: 1 January 1982	NO.			
	DICE				
	INSF	PECTION REQUIRE	MENTS INDEX		
	listed by system code as arran	ged in the aircraft work un	it code manual. The inc	lex identifies each insp	pection
requirement	1				
card (coded be	elow) as it applies to each syst	tem.			
	D	Daily	Q	OECA	
	S	Special	х РН	Phased	
	Т	Turnaround Checklist	PSVTN	Preservation	
	COND	Conditional			
		Index			
System Codes	<u>System</u>	PMIC Card	System Codes	System	PMIC Card
11, 12, 13	Airframe	9 - 10	49	Utilities	20, 21
14	Flight controls	11 - 12	51	Instruments	21, 23
21, 29, 32	Power plants	12 - 16	52	Auto-pilot	23
41	Air Cond/Prsrz	16, 17	61 - 72	Avionics	23, 24
42, 44	Electrical	18, 19	91	Emerg Equip	24
45	Hyd/Pneumatic	19	97	Explosives	24

FIGURE 7.	Exam	ple of	an	ins	pection	req	uirement	card.
						_		

CARD 9	A1-C3AAA-MRC-000 DATE: 1 January 1982	CHANGE NO.	INSPECTION REQUIREMENTS INDEX
9	DATE. I January 1982	NO.	
	Ι	nspection Requirement	nts by System
AIRFRAME	(System 11)		Task Card
1. access ope	ening and closing	Р	D-4, D-5, PH-A-37, PH-A-38, PH-B-35, PH-B-37, PH-C-32, H-C-34, PH-D-34, PH-D-36, PH-D-41, PH-D-42, PH-E-23, H-E-30, PH-F-30, PH-F-40
2. aircraft wa	ash	S	-13, PSVTN-70
3. cowling			[°] -4, T-5, T-6, T-7, D-4, PH-A-4, PH-B-4, PH-C-4, PH-D-4, H-E-4, PH-F-4
4. fuselage			[•] -2, T-4, T-8, D-4, PH-A-34, PH-B-40, PH-C-31, PH-D-31, H-E-34, PH-F-40
5. empennag	e	Т	² -3, T-8, D-4, PH-D-44
FUSELAGE	COMPARTMENTS (System 12)		Task Card
 pilot's con forward path 	mpartment assenger compartment		2-2, D-1 -2, D-1

FIGURE 7. Example of an inspection requirement index card - continued.

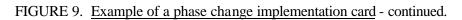
CARD	A1-C3AAA-MRC-000	CHANGE	CONDITIONAL INSPECTION LISTING
24	DATE: 1 January 1982	NO.	
	COI	NDITIONAL INSPI	ECTION LISTING
	Condition		Task Requirement
1. Hard land	ling.		Remove engines. Inspect engine mounts, fuel cell hangers and airframe in accordance with NAVAIR 01-123-3, Sect. 1, Handbook of Structural Repair.
2. Double w	vire engagement.		Remove arresting gear assembly. Inspect arresting hook lift cylinders in accordance with NAVAIR 01-85SAB-2-2 and Card 62.
3. Subjected	l to excessive loads.		Remove arresting gear assembly. Inspect arresting hook lift cylinders in accordance with NAVAIR 01-85SAB-2-2 and Card 62.
	carrier deployment after shore estments have been made.		Inspect arresting gear hook point in accordance with NAVAIR 01-85SAB-2-2 and Card 60.
			Continued

FIGURE 8. Example of a conditional inspection listing card.

CARD	A1-C3AAA-MRC-000	CHANGE	PHASE CHANGE IMPLEMENTATION
25.1	DATE: 1 Januarv 1982	NO.	
	PHAS	SE CHANGE IMPLEME	NTATION CARD
To prevent the table below	1 2	ns during implementation	of this publication, perform the additional tasks as listed in
	le for one phase interval for each	aircraft.	
This card s	hall be removed from the manual a	nd discarded after all airc	raft have completed at least one phase inspection interval.
NOTE: Th	is card implements the engine and	QEC requirements into t	he phase inspection manual.

FIGURE 9. Example of a phase change implementation card.

CARD 26	A1-C3AAA-MRC DATE: 1 January		CHANGE NO.	PHA	SE CHANGE I	MPLEMENTAT	ION
-	A B-10, B-23, B-24, B-25, B-26, B-27, B-57, C-18, C-19, C-22, C-32, C-45, C-56, C-57, C-67, D-12, D-23, D-52, E-11, E-12, E-13,	B A-11, A-15, A- 18, A-41, A-48, A- 49, C-18, C-19, C- 22.			E A-11, A-15, A-18, A-41, A-48, A-49, B-10, B-23, B-24, B-25, B-26, B-27, B-57, C-18,	F A-11, A-41, B-10, B-11, B-15, B-23, B-24, B-25, B-26, B-27, B-57, C-18, C-19, C-22, C-32, C-36, C-37, C-38,	
		D-13, D-52, E- 11, E-12, E-13, E-49			D-23, D-52	D-23, D-52, E-11, E-12, E-13, E-49	
							End of C



CARD	NAVAIR 13-600-3-6-3	CHANGE	ABB	REVIATIONS AND INDEX
v	DATE: 1 January 1982	NO.		
		ABBREVIA	TIONS	
HELO	Helicopter Back Pack		PR	Aircrew Survival Equipment Man
HSSP	High Speed Soft Pack		PSIG	Pounds Per Square Inch Gage
NIIN	National Item Identification Num	ıber	QA	Quality Assurance Inspection
		INDEX	X	
Inspection T	<u>Ype</u> <u>Card Numbers</u>		Inspection Type	Card Numbers
Special (see	NOTE)		Special 225 Day (con	nt)
LR-1	101 - 115.1		LRU-13/A	401 - 420.1
Special 225 I	Day		LRU-14/A	501 - 516
LRU-7/P	201 - 207		LRU-15/A	601 - 609.2
LRU-12/	A 301 - 313.3			
NOTE: Mai	ntenance interval dependent on mainte	enance interval o	of Seat Survival Kit in	which the LR-1 is installed. The
following	1			
Seat Survival	Kits are applicable:			
SKU-2/A				
CVIT 2/A				

FIGURE 10.	Example of an abbreviations and index card
	for aircrew life support systems card deck.

CARD	AG-500QA-		E ABE	REVIATION AND INDEX
vi	DATE: 1 D	ecember 1992 NO.		
		ABBRE	VIATIONS	
ECU	Environme	ental Control Unit	MRB	Main Rotor Blade
MAD	Magnetic .	Anomaly Detection	NDI	Nondestructive Inspection
MGB	Main Gear	Box		
		IN	DEX	
Part No./Mo	del No.	Nomenclature	Inspection Type	Card Numbers
AV 57-213, AV 57-2	AV 57-214, 217	Wedges, 20, 30, and 10	364 Day	101 - 102
DMC 420, E	DMC 420A	Tool Kit, Connector Repair	364 Day	501 - 502
D7301		Plug, Drain Hose	364 Day	901 - 902
H538A-3		Drain Attachment	364 Day	201 - 202
RH-L15-551	l	Bleedline, Hyd.	364 Day	701 - 702
1106841-1		Tool, Installer	364 Day	601 - 602
1106769-4		Tool, Withdrawal	364 Day	301 - 302
	1	Cover, Engine Inlet	364 Day	401 - 402

FIGURE 11. Example of an abbreviations and index card for PSE card deck.

CARD iii	A1-C3AAA-MRC-400 DATE: 1 January 1982	CHANGE NO.		ABBREVIATIONS/INDEX/ CKFLIGHT REOUIREMENTS
		ABBREVIATIC	DNS	
CRSN CSD	Corrosion Constant Speed Drive		NLG MLG	Nose Landing Gear Main Landing Gear
		PHASED MANUAL	INDEX	
	Inspection	Application Cards		Checkflight Requirement Cards
	PHASE A	A-1 through A-50		A-20
	PHASE B	B-1 through B-58		B-7
	PHASE C	C-1 through C-68		C-12
	PHASE D	D-1 through D-53		D-4, D-9
	PHASE E	E-1 through E-50		
	PHASE F	F-1 through F-55		

FIGURE 12. Example of an abbreviations, index, and checkflight requirement card for phased maintenance checklist.

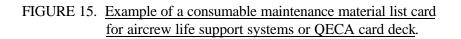
vii DATE: 1 Januarv 1982 NO. SPECIAL TOOLS/SUPPORT EQUII	
SPECIAL TOOLS/SUPPORT EQUII	
The following special tools and support equipment are necessary to accomplish	the requirements contained in this manual
	i ule requirements contained in this manual.
OTE: Equipment configuration is identified under the Quantity Required colu	ımn as follows:
A LRU-1 C LRU-12/A	E LRU-14/A
B LRU-7/P D LRU-13/A	
Part No, Type	Quantity Required
Nomenclature or Model No	<u>A B C D E</u>
Air Source, Low Pressure Dry	$1 \ 1 \ 1 \ 1 \ 1$
Gage, Depth GGG-C-105 Type III	1 1 1
Glass, Magnifying GG-M-95	$1 \ 1 \ 1 \ 1 \ 1$
Kit, Contamination Analysis 57L414	1 1 2 2 3
Kit, Inflator, Assembly MOO-8348/1-1	1 1
Light, High Intensity	

FIGURE 13. Example of a special tools/support equipment card (or replacement parts card) for aircrew life support systems or QECA card deck.

CARD	AG-320AO-MRC-020	CHANGE	SPECIAL TOOLS/SUPPORT EQUIPMENT LIST
vii	DATE: 1 Januarv 1983	NO.	
	SDEC	CIAL TOOLS/SUPPOR	TEOUIDMENT
	SIEC	TAL TOOLS/SUITOR	I EQUII MENT
The followir	ag special tools and support equipm	ent are necessary to acc	complish the requirements contained in this manual.
The followin	ig special tools and support equiph	ione are necessary to acc	somprish the requirements contained in this manual.
		Part No, Typ	e Quantity
Nomenc	lature	or Model No	Required
Adapter,	Lubrication	123GT10056	1
Caps, Hy	draulic Line	AN929-4	2
Caps, Hy	draulic Line	AN929-6	3
	re (0-100 PSI)	237621841	1
Stands, J	Jack (10 Ton)	Regent 993	4
			End of Cond

FIGURE 14. Example of a special tools/support equipment card for support equipment card deck.

CARD viii	NAVAIR 13-600-3-6-3 DATE: 1 January 1982	CHANGE NO.	CONSUMABLE MAINTENANCE MATERIAL	LIST
	CONSU	ABLE MAINTENANC	E MATERIAL LIST	
The fo	ollowing consumable maintenance	e materials are necessary	to accomplish the requirements contained in this ma	nual
NOTE: Equ	ipment configuration is identified	under the Material Requi	red column as follows:	
•		-		
	LRU-1	C LRU-12/A		
B	LRU-7/P	D LRU-13/A		
		Part No, Typ	e or Material Required	
Nomencl	lature	Specification	No <u>A B C D E</u>	
Adhesive	e, Polychloroprene	MIL-A-5540	X X X X X	
Cord, Ny	ylon, Type I	MIL-C-5040	XXXXX	
Ink, Drav	wing, Waterproof, Yellow	TT-I-531	XXXXX	
Ink, Lau	ndry, Black	TT-I-542	X X	
Soap Sol	ution		XXXXX	
		HMWS Index N	0.	



CARD		CHANGE	CONSUMABLE	MAINTENANCE MATERIAL L
ix	DATE: 1 January 1982	NO.		
	CONSUMABLE	MAINTENAN	CE MATERIAL LIST	
The fol	lowing consumable maintenance materi	als are necessar	y to accomplish the re	equirements contained in this man
		Part No, T	pe or	Required by Phase(s)
Nomenclat	ture	Specificatio	n No	ABCDEF
Barrier Ma	terial, Greaseproofed, Waterproofed	MIL-B-121		X
Cloth, Disp	posable			XXXXXX
Compound	l, Corrosion Preventive	MIL-C-161	73 Grade 1	XXXXXX
Compound	l, Corrosion Preventive	MIL-C-161	73 Grade 4	XXXXXX
Compound	l, Corrosion Preventive, Engine	MIL-C-652	9 Type III	X X X
Compound	, Sealing	MIL-S-8802	2 Class B	XXXXXX
Fluid, Hyd	raulic	MIL-H-832	82	X X X
Grease, Ge	eneral Purpose, Wide Temperature Range	e MIL-G-813	22	XXXXXX
Lockwire		MS20995C	20	X
Lockwire		MS20995C	32	XXXXXX
		HMWS Index		

FIGURE 16. Example of a consumable maintenance material list card for aircraft phased maintenance requirements checklist.

CARD	AG-320AO-MRC-020	CHANGE	CONSUMABLE MAINTENANCE MATERIAL LIST
viii	DATE: 1 January 1983	NO.	
	CONSUM	IABLE MAINTENAN	CE MATERIAL LIST
The followin	g consumable maintenance materia	als are necessary to ac	complish the requirements contained in this manual.
			Part No, Type or
Nomencl	ature		Specification No
Fluid, Bra	ake		SAE 7 or 3
Fluid, Hy	draulic		MIL-H-83282
Grease, A	Automotive		MIL-G-10944
Grease, G	eneral Purpose		MIL-G-81322
Oil, Lubr	icating		MIL-L-7870
Water, D	istilled, Battery		
		HMWS Index	No
		THAT WAS THUCK	110.

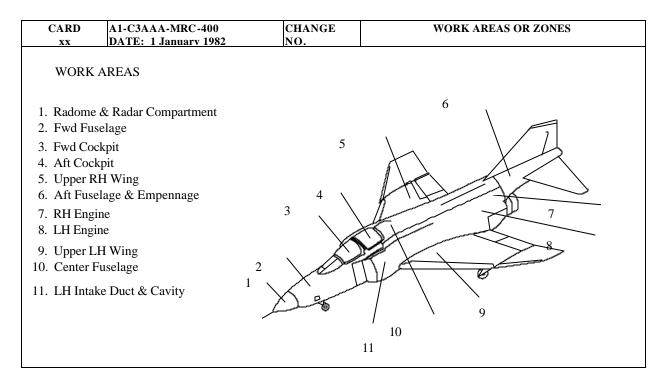
FIGURE 17. Example of a consumable maintenance material list card for support equipment card deck.

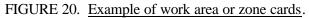
CARD xv	A1-C3AAA-MRC-400CHANGEDATE: 1 January 1982NO.		REPLACEMENT PARTS LIST
	F	REPLACEMENT PARTS	S LIST
The fol	lowing replacement parts are neces	sary to accomplish the re	equirements contained in this manual.
		Part No, Type o	or Quantity Required
Nomencla	ture	Specification No	<u>ABCDEH</u>
Element, F	Filter (Emergency Handpump)	AN6235-1A	2 2 2
Element, F	Filter (Main Hydraulic)	AN6235-4	4A 2 2 2
Element, F	Filter (Res Vent)	AN6237-1	1 1 1
Gasket, Fr	ont Sump Strainer	23D63	2 2 2 2 2 2 2
Gasket, Oi	1 Strainer	149108	2 2 2 2 2 2 2
Gasket, Re	ar Sump Strainer	23D51	2 2 2 2 2 2 2
	ocker Box Strainer	23D52	2 2 2 2 2 2 2
Nuts, Caste	ellated, Self-locking	MS17825-5	4 4 4 4 4 4
Packing, "	O" Ring	AN6227B19	2 2 2
Packing, "	O" Ring	AN6227B20	2 2 2 2
Packing, "	-	MS28775-015	2 2 2
Packing, "	-	MS29513-018	2 2 2 2

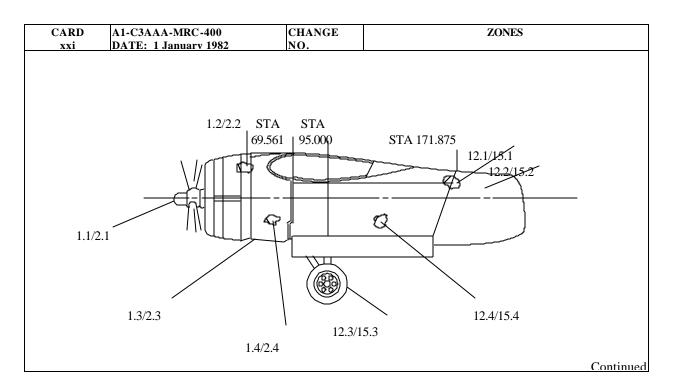
FIGURE 18. Example of a replacement parts list card for phased maintenance checklist.

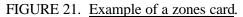
CARD ix	AG-320AO-MRC-020 DATE: 1 Januarv 1983	CHANGE NO.	REPLACEMENT PARTS LIST
		REPLACEMENT PARTS LIST	
The fol	llowing replacement parts are nec	essary to accomplish the requirem	nents contained in this manual.
		Part No, Type or	Quantity
Nomencla	<u>iture</u>	Specification No	Required
Bearing, C	Cone	25577	2
Bearing, C	Cup	25520	2
Element, I	Filter (Emergency)	AN-6235-1A	1
Element, I	Filter (Main)	AN-6235-4A	1
Gasket, Fi	ilter (Main)	25565	1

FIGURE 19. Example of a replacement parts list card for support equipment card decks.









CARD xxii	A1-C3AAA-M DATE: 1 Jan		CHANGE NO.	ZONES TITLE AND DESCRIPTION
			ZONES	
prime number in acc accomplishm	cordance with th	e aircraft structural pections. These sma	manual. Work areas a	lot Compartment." Each work area or zone is assigned a and zones are divided into smaller areas to facilitate the ithin the prime number work area or zone and are assigned a
		ZO	NE TITLE AND DES	SCRIPTION
1. LEFT-HA	ND POWER PL	ANT AND FORWA	ARD NACELLE	
1.1 Prope	eller (External)	Comprises the exte	ernal surface of the pro-	opeller, hub and aft to brush pad bracket.
1.2 QEC	CA (Internal)	Comprises the basi firewall at station	0	iated accessories making up the QECK located forward of the
1.3 Forwa (Exte	ard Nacelle rnal)	Comprises the exte and accessory secti		d of firewall at station 69.561 and includes all power section

FIGURE 22. Example of a zone title and description card.

CARD	A1-C3AAA-MRC-400	CHANGE	ZONAL INSPECTION CRITERIA
XXXV	DATE: 1 January 1982	NO.	
	ZONAL	. INSPECTION I	DEFINITION
	tion is a general inspection of a specifi	c area of the airc	raft or support equipment where an existing scheduled
inspection			
U	1 I		as leaks, frayed cables, cracks, corrosion or physical damage inspections are performed in conjunction with other
scheduled			
			ed to perform an inspection on a radar antenna might also be ects. One person, regardless of rate, will perform this
inspection.			
	ZONA	L INSPECTION	CRITERIA
	Cracks, corrosion, deterioration, defor bonding.	mation, interfere	nce, overheating, leaks, broken or missing parts, improper
STRUCTURE	- Loose or missing fasteners, deterior	ated seals or seal	ant, fiberglass delamination.
WINDSHIELD	S AND WINDOWS - Cracks, crazing	g, scratches, delar	nination.
CONTROL CA	ABLES AND FLEXIBLE SHAFTS - W	Vorn, frayed, cha	fed, improper alignment.

FIGURE 23. Example of a zonal inspection criteria card.

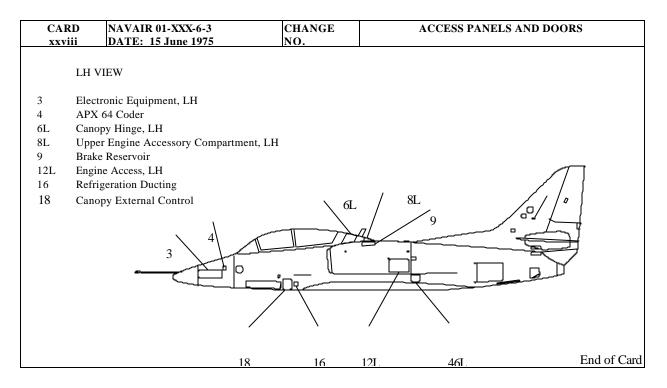
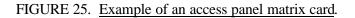


FIGURE 24. Example of an access panel illustration card.

-						AD-6-4	CHANG	E					ACC	ESS PANELS AND) D(00	RS			
xii	DAT	E :	31	Oct	obe	r 1993	NO.													
						ACCESS	PANELS AND I	000	ORS	PH	[AS	E S	CHED	ULE						
The following a	cces	s pa	nels	and	doo	ors must b	e opened in order	to a	acco	mpl	ish	the 1	require	ements contained in	the j	phas	e cy	cle	s as	
listed																				
(all access pane	ls an	d do	oors	are	liste	d numeri	cally):													
Access Number	А	В	С	D	Е	F	Access Number	А	В	С	D	Е	F	Access Number	А	В	С	D	Е	F
1122-2				-			2122-1				Х			2222-3					Х	
1122-3				Х			2122-3				-			3022-5					-	
1122-4	-	Х	-	Х	-	Х	2122-4	Х	-	Х	-	Х	-	3023-4	Х	-	-	Х	-	-
1132-1	Х	Х	-	-	Х	Х	2132-1	Х	-	Х	-	Х	-	3123-1	Х	-	-	-	-	-
1132-1-1	Х	Х	Х	-	Х	Х	2132-1-1	Х	Х	Х	Х	Х	Х	3213-3	Х	-	-	Х	-	-
1132-2	Х	-	Х	-	Х	-	2132-2	-	-	-	Х	-	-	4123-1	-	-	Х	-	-	Х
1132-3	-	Х	-	Х	-	Х	2132-3	-	Х	-	Х	-	Х	4213-3	Х	Х	Х	Х	Х	Х
1132-4	Х	Х	Х	Х	Х	Х	2132-4	Х	-	-	Х	-	-	5112-12	Х	Х	Х	Х	Х	Х
1132-5	-	-	-	-	Х	-	2132-5	-	Х	-	-	Х	-	5113-2	Х	Х	-	Х	Х	-
1132-7	х	Х	х	х	х	Х	2132-7	х	х	х	х	х	Х	5121-1	Х	Х	х	х	Х	Х
1132-8				-			2132-8				X			5121-2					-	
1132-9				х			2132-10				-			5121-4					х	
1132-2				X			2132-10				-			5122-1					X	
1133-41	-			-			2133-41				_			5123-1					X	
1232-31	v			x			2222-1				x			5123-1					X	
1232-31	Λ	-	-	Λ	-	-	2222-1	Λ	Λ	Λ	Λ	Λ	Λ	5155-1	Λ	-	Λ	-	Λ	-



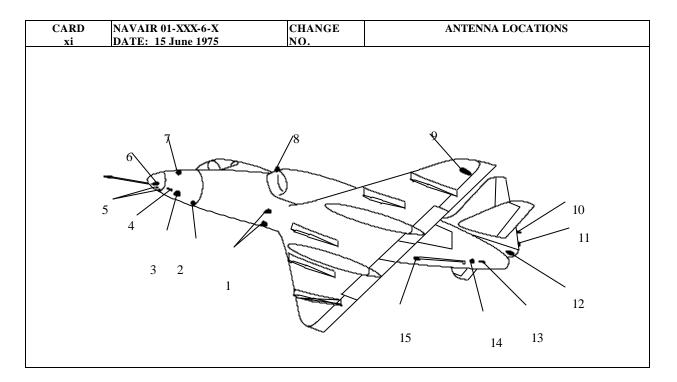


FIGURE 26. Example of an antenna location illustration card.

0	CARD	NAVAIR 01-XXX-6-X	CHANGE	ANTENNA LOCATIONS
	xii	DATE: 15 June 1975	NO.	
			ANTENNA LOCATION	NS
1.	AN/ALQ	2-51/-100 (Fwd DECM)		
2.	AN/ARN	V-52 (Fwd Tacan)		
3.	AN/ARN	J-48 (UHF/ADF)		
4.	AN/APN	J-153 (Doppler)		
5.	AN/APR	R-25 (Fwd ECM)		
6.	AN/ALQ	2-51 (Fwd DECM)		
7.	AN/APX	K-64 (Fwd IFF)		
8.	AN/ARC	C-51A (UHF Comm)		
9.	AN/APN	V-141A (Radar Altimeter Fairing)		
10.	AN/ALQ	2-51/-100 (Aft DECM)		
11.	AN/ARN	V-52 (Aft Tacan)		
12.	AN/APR	R-25 (Aft ECM - 2 ea.)		
13.	AN/ALQ	2-51/-100 (Aft DECM)		
14.	AN/APX	K-64 (Aft IFF)		
15.	AN/ALQ	2-51/-100 (Aft DECM)		
1				

FIGURE 26. Example of an antenna location illustration card - continued.

	NAVAIR 19-600-277-6-1
	STATIC INSPECTION
1. Ship's power	Disconnect/ Properly Stowed
2. Wheels/Tires	Inflation (75 PSI) Dam age/Security/ Corrosion (Sponge out Water accumula-
	in wheel rim if present)
1 WARNING: 1	When using Grease (MIL-G-10924), avoid any skin contact with grease/lubricant material. Wash hands thoroughly prior to eating, drinking, or smoking. Do not apply to hot surfaces; toxic gases may be released.
3. Axles/Drive Shafts, Motor	Damage/ rs Security/ Corrosion
1 <u>WARNING:</u> 1	When using Grease (MIL-G-10924), avoid any skin contact with grease/lubricant material (See 1 WARNING 1 on Card 1).
	1

FIGURE 27. Example of a checklist task page.

CARD A-i	A1-T45AB	-MRC - 300 January 1992			CHAN	IGE				рна	SE S	EOU	ENC	E CO	NTI	201		
RTG/MOS	NO.	PREPHASE	но	URS						2		100		3				
AD	1	Perform Prephase Cards 1,2,3,4,5							(2	22)			(1	1) (15) (20)) (2	1 -
AD	2								(2	22)				(1	3	-
AE	1								(10))	(18)	(14)		
AME	1															(12)		
AME	2															(19)		
АМН	1		(25)										
АМН	2		(25)										
АМН	3		(25)										
AMS	1		(9)										(6)			(8-
AMS	2		(2	3)								(7)			
AMS	3		(2	3)												
AO																		
QA	1		(2	28)														
ELECT PWR			(ON) (OFF		-
HYD PWR			(ON)((OF	F				-
COND AIR			(N/A								-
																	C	Continue

FIGURE 28. Example of a phase sequence control card.

)2B-XXX-6-3 5 June 1975		CH N(HANGE).		S	WO EOUEN	RK AR				RD		
 Inlet/Compressor Diffuser/Combustion Turbine/Exhaust Afterburner Accessory 														
TYPE ENGINE/APPLICATION	RTG/MOS	NO.H	OURS	1			2			3				
J52-P6A, 6B TA-4F/J	AD	1(1)	(•	2)(3	-
	AD	2(7)(101)	(8)(3	-
	AD	3(10)(102)	(11)(12	-
	AD	4(17)(18)(19)(20)(21)(22)	(10	4))		
	QA	1												
J52-P8A, 8B A-4E/A-4F, TA-4F	AD	1 (1)	(2	L I.	ł)(3	-
	AD	2(7)(201) (2	202 (8)(3	-
	AD	3(10)(203)(11)(12	-
	AD	4(17)(18)(19)(20)(21)(22)(20)4)		
	QA	1		(20)									
				·		• •						I	End of	Car

FIGURE 29. Example of a quick engine change assembly (QECA) sequence control card.

CARD	A1-C3AAA-N			CHANGE	DUACE A	ELEC PWR	OFF
A-16.1 WORK	DATE: 1 Jan S TIME	RTG AD	MOS	NO.	PHASE A	HYD PWR	OFF
AREA/ZONE		NO. 1	NO.	1	MAIN FUEL STRAINER	COND AIR	OFF
1.4 1.4	f. Cle NOTE: 2. Screer a. Blo b. Cra c. Da	Use mirror and n and housing as ock wire mesh. acks and corrosi maged threads.	l light to p ssembly: ion.	ærform followi	1 with low pressure air. Ing inspection.		
						c	ontinued

FIGURE 30. Example of a task card.

CARD 53			XX-XX-6-2 nuary 1977		CHANGE NO.	POSTLAUNCH	ELEC PWR	
WORK AREA/ZONE	C R	TIME 0.6	RTG AD NO. 2	MOS NO.		MBINED SYSTEMS TEST	HYD PWR COND AIR	N/A N/A
AKEA/ZONE	S N	0.0	NO. 2	INO.		MBINED SYSTEMS TEST	Assist AD No. 1,	
7 2, 3, 9		 a. Com b. Com comr 2. When d 3. During signals t a. Ailer b. Eleva 	mand remote co mand remote co nand until AD I irected by AD I	ntrol cha ntrol cha No. 1 ind No. 1, ren checks, n LH and R up and do	nnel 7; AD No. 1 icates actuator has nove safety lanyar nonitor control sur H.	should acknowledge increase reaction should acknowledge decrease reaction	on. Continue	
							End o (Card 53	f Card 1 Blank

FIGURE 31.	Example of	f an	assist o	card.

CARD 27.1		-C3AAA-M TE: 1 Jan		CHANC NO.	SE SPECIAI	14 DAY	ELEC PWR	2.020.202
WORK	CR	TIME	RTG AMH		MAIN LANDIN		HYD PWR	OFF
AREA/ZONE	R S N	TIME	NO. 1	NO. 1	LUBRICA	and the state was at	COND AIR	OFF
3		1. Lubrica	te main landing g	ear as follows:				
		Item	Nomenc	lature	No. of Points	Specification		
		1.	Shock St	trut	2	MIL-G-81322		
		2.	Drag Bra	ice Lower End	1	MIL-G-81322		
		NOTE: L	R grease fitting o	over removal requ	ired for access.			
		3.	Drag Bra	ice Upper End	2	MIL-G-81322		
		4.	Collar		2	MIL-G-81322		
		5.	Upper Te	orque Arm	1	MIL-G-81322		
		6.		k Attach Points	2	MIL-G-81322		
		7.	Lower T	orque Arm	4	MIL-G-81322		
		8.	Bar		1	MIL-G-81322		
		9.	Collar		2	MIL-G-81322		
		10.	Tie Dow	n Fittings	2 2	VV-L-800		
		11.	Main La	nding Gear Trunni	on			
				Attach Points	2	MIL-G-81322		

FIGURE 32. Example of a lubrication task card.

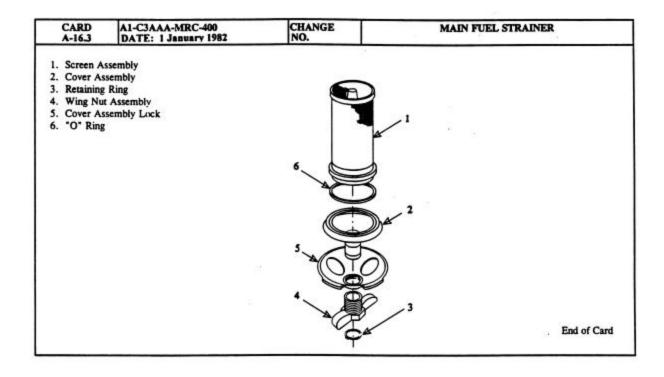


FIGURE 33. Example of a task card illustration.

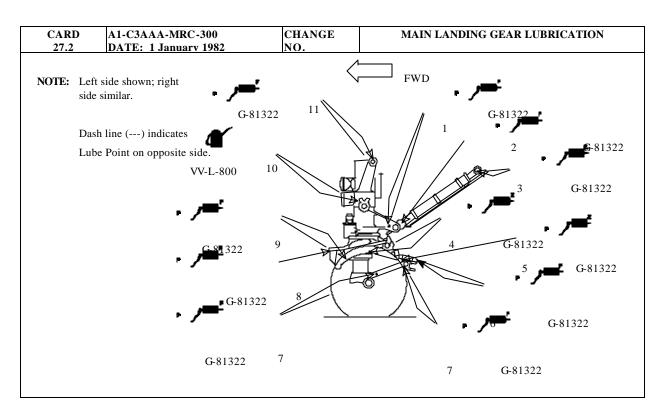


FIGURE 34. Example of a lubrication illustration card.

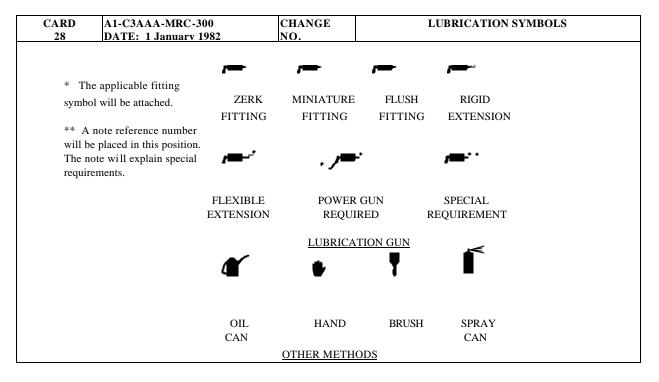


FIGURE 35. Example of a lubrication symbols card.

CARD B-60		C3AAA-M FE: 1 Jan			CHANGE NO.	PHASE B	ELEC PWR	
WORK AREA/ZONE	CRSN	TIME 0.1		A MOS NO.		ER TRIMMER LUBRICATION	HYD PWR COND AIR	N/A N/A
10.3			udder trimm		d B-33.1, Step 1 nism for lubrica	No. 3. tion, hydraulic leaks and componen	it installation.	
Final O	-11181							
Final Q CARD 31	NAV	VAIR 01-X FE: 1 Jan	XX-6-3		CHANGE NO.	ASPA	ELEC PWR	
CARD	NAV	VAIR 01-X	XX-6-3 uary 1982	A MOS NO.	NO.	ASPA FIRE EXTINGUISHERS	ELEC PWR HYD PWR COND AIR	OFF N/A N/A

FIGURE 36. Example of final and in-process quality assurance cards.

CONCLUDING MATERIAL

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