

NATIONAL AIRCRAFT STANDARDS COMMITTEE

AIRCRAFT INDUSTRIES ASSOCIATION OF AMERICA, INC., 610 SHOREHAM BUILDING, WASHINGTON 5, D.C.

HANDBOOKS, HELICOPTER INSPECTION REQUIREMENTS

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1. SCOPE

1.1 This specification covers the preparation of inspection requirements handbooks for helicopters.

2. APPLICABLE SPECIFICATIONS

2.1 The following specification, of the issue in effect on date of invitation for bids, shall form a part of this specification to the extent specified herein.

2.1.1 Specifications

Military

MIL-H-5474 Handbooks and Breakdowns:
General Preparation of

(Copies of this specification and copies of other publications referenced herein or required for Government procurement, and the Index of Military Aeronautical (AN or MIL) Standards, may be obtained upon application to the Commanding General, Air Materiel Command, Wright-Patterson Air Force Base, Dayton, Ohio; or the Commanding Officer, U. S. Naval Air Station, Johnsville, Pennsylvania).

3. REQUIREMENTS

3.1 General Manner of Preparation - The requirements of Specification MIL-H-5474 are applicable as general requirements of this specification, except as specified herein.

3.1.1 Right-hand margins need not be justified (lines flush at right).

3.1.2 Text shall not be divided into two vertical columns, except for the Introduction, which shall be so divided.

3.2 Form - Handbooks prepared in conformance with this specification shall be prepared in final reproducible form in accordance with the requirements of Specification MIL-H-5474, unless otherwise specified by the Procuring Service.

TITLE

HANDBOOKS, HELICOPTER INSPECTION REQUIREMENTS

CLASSIFICATION Specification

NAS 619
Sheet 1 of 13

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME PRODUCT, AND SHALL BECOME EFFECTIVE

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3.3 Arrangement - Handbooks shall be composed of the following parts arranged in the order indicated.

Title Page

"A" Page

Introduction and List of Technical Orders

Section I Preflight Inspection

Section II Postflight Inspection

Section III Periodic Inspection

Section IV Special Inspection Requirements

Section V Overhaul and Replacement Schedule

3.3.1 Introduction - The Introduction shall consist of a heading and the following text.

This handbook contains complete requirements for inspection and removal of components for overhaul and replacement of accessories and components applicable to the helicopter to which the handbook pertains. This handbook does not contain instructions for repair, adjustment, or other means of rectifying defective conditions; nor does it contain instructions for trouble-shooting to find causes of malfunctioning. The inspection requirements in the handbook are stated in such a manner as to establish what equipment is to be inspected and what conditions are to be sought. Applicable portions of the appropriate maintenance handbooks should be consulted to obtain maintenance instructions that are beyond the scope of this handbook.

The Erection and Maintenance Handbook, which contains a majority of the maintenance instructions required, will be referenced in this handbook. Other AN maintenance publications that require reference will be specifically listed in "The List of Technical Orders" as specified by the Procuring Department.

The inspections prescribed by this handbook will be accomplished at specified periods by Air Force organizational or Navy Class D maintenance activities, with assistance provided by Air Force field maintenance or Navy Class C activities when required. Compliance with the provisions of this handbook is required in order to assure that latent defects are discovered and corrected before malfunctioning or serious trouble results.

This handbook is divided into five sections. The first three sections contain basic requirements comprising Preflight, Postflight, and Periodic Inspections. Section IV contains inspection requirements that supplement the requirements of one of the three inspections at specific periods or upon occurrence of specific

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FOR VENDOR MANUFACTURERS NOT LATER THAN 6 MONTHS AFTER THE LATEST DATE OF APPROVAL SHOWN.

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conditions. Section V contains requirements for replacing at prescribed periods, specific accessories or components which have a service life established. In order to arrange inspection and replacement requirements as nearly as possible according to the manner in which work will be divided and assigned, the requirements in each section of the handbook are divided into groups under "system" headings. A system title indicates either a functional system or a group of related components.

Requirements shown in any one of the first three sections are only basic requirements of the inspection. It may be necessary to obtain additional requirements from Section IV or Section V to complete the inspection. For example, if the fourth periodic is to be accomplished any requirements that fall due at every second or fourth periodic are to be included with the basic requirements of this periodic inspection. Discrepancies appearing on Helicopter Flight Reports become a part of the requirements of appropriate Postflight, Periodic Inspection in order that the number of delayed discrepancies may be held to an absolute minimum.

No attempt is made to sequence the order of performance on inspection requirements. The inspection methods employed, the availability of specialists at specific times, and the facilities utilized are too variable to establish a standardized sequence. In the event sequencing the order of performance of inspection requirements is desired, it is recommended that it be established when work sheets are prepared.

The inspection period designated for accomplishment of the periodic inspection is the maximum, and is determined for primary use of the helicopter as indicated by its type designation. Due to local conditions (missions, geographical location, etc.) the maintenance officer may shorten the interval. The maximum inspection interval will be dependent on factual operating data, and will be revised as experience dictates.

The time in man-hours for accomplishment of inspection requirements reflect only the times required for inspection, plus normal maintenance and adjustment, and are to be utilized by maintenance officers for planning and scheduling. Those factors (personnel and equipment shortages, lack of parts, unpredictable maintenance, unscheduled replacements, adverse working conditions, and qualifications of personnel) which will directly affect the length of time (elapsed) a helicopter is in an "out-of-commission" status for an inspection, are not reflected, because they cannot be accurately predicted for any one inspection.

The contractor shall leave the man-hours required for each particular section blank until such a time as the operating activities have had an opportunity to record the man-hours based upon actual experience. These man-hour figures are to be forwarded to the contractor when available and to be included in the next applicable revision. The man-hours required to accomplish each section of inspection requirements, will precede the introductory text of Sections I, II and III.

This handbook pertains to all of a model or certain series of helicopters and may, therefore, contain inspection requirements applicable to specific equipment that is not installed on individual helicopters. When this situation is encountered, those requirements that are not applicable should be disregarded.

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HANDBOOKS, HELICOPTER INSTRUCTION REQUIREMENTS

CLASSIFICATION

Specification

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Additional information relative to recording of inspection and the use of this handbook may be obtained by consulting applicable technical directives listed in the introduction.

Revisions to this handbook will be published when necessary to add, delete, revise, or change of requirements. Such revisions will be based on factual data accumulated as a result of maintenance experienced with the helicopter concerned. Data will be gathered by field studies, from Unsatisfactory Reports or Reports on Unsatisfactory or Defective Material, and from any other means pertaining to the handbook and its requirements. Recommendations proposing changes to this handbook should be submitted to Headquarters, Air Materiel Command, or to the Bureau of Aeronautics.

3.3.3 Sections I, II, III - Each of these sections shall consist of introductory text followed by columnar listings of the requirements comprising the particular inspection. ①

3.3.2.1 Introductory Text - The introductory text for each of the sections shall consist of the applicable one of the following prefaces:

Preflight Inspection

1-1. This inspection will be accomplished prior to the first flight of the day. The inspection consists of checking the helicopter for flight preparedness by performing visual examination and operational tests to discover defects and maladjustments that, if not corrected, could cause accidents or aborted missions. Requirements preceded by an asterisk are applicable only when use of the equipment concerned is contemplated. Requirements preceded by a double asterisk will be accomplished prior to each flight when more than one flight is made in the same day. It will require ___ man-hours to accomplish this inspection.

Postflight Inspection

2-1. This inspection will be accomplished after the last flight of the day or if conditions necessitate prior to first flight of the following day or more frequently when warranted by local conditions, at least once every seven days on helicopters not being used for flight. Exceptions to these accomplishment times are as follows:

- a. When the helicopter is in temporary or extended helicopter or engine storage.
- b. When the helicopter is in the Maintenance Shops and is not being used for flight.

It will require ___ man-hours to accomplish this inspection.

Periodic Inspection

3-1. The periodic inspection is an over-all examination of the condition

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