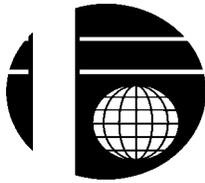


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Maintenance



FUNCTIONAL CHECK FLIGHTS

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements AFD 21-1, Technical Orders (TO) 1-1-300, 1H-60(U)A-6CF-1, and 1H-60(U)A-6CL-1 and will be used in conjunction with MCI 11-HH60G, Volume 3; AFRCI 21-101; and, TOs 00-20-5 and 1H-60(M)G-6. It establishes procedures for the performance of Functional Check Flights (FCF) to ensure airworthiness of aircraft after accomplishment of inspection or maintenance. It applies to 305 RQS operations and maintenance personnel.

SUMMARY OF REVISIONS

This revision updated references and office symbols and changed the scheduling process. A (I) indicates revisions from previous edition.

1. Purpose:

1.1. FCFs are performed to determine whether an aircraft is functioning according to predetermined specifications in flight. FCFs are conducted when it is not feasible to determine safe or required operation by means of ground or shop operational checks.

1.2. Conditions requiring an FCF are specified in TO 1H-60(M)G-6. FCFs may also be mandated by Time Compliance Technical Orders (TCTO). Additionally, the Commander and the Deputy Commander for Maintenance (LG) through the Maintenance Superintendent or Quality Assurance (LGQ), may direct an FCF be performed for conditions or maintenance actions not specified in the -6.

2. Procedures:

2.1. The 305 RQS Commander will designate in writing the flight crews authorized to perform FCFs. Only highly proficient crewmembers will be selected. The number of FCF crews will be held to the minimum required, consistent with mission requirements, in order to standardize FCFs. A copy of this memorandum will be filed in LGQ.

2.2. LGQ will research all FCF requirements as specified in TO 1H-60(M)G-6. LGQ will prepare TO 1H-60(U)A-6CF-1. Additional requirements may be specified by the LG. Weight and Balance will be reviewed and recertified as necessary.

2.3. Plans, Scheduling, and Documentation (LGLP) will notify Operations that an aircraft will require and FCF, as soon as the requirement is known. This notification is for information only. The Flight Line Expediter will notify LGQ when the aircraft is actually ready, and the Exceptional Release is signed.

2.4. The crew chief will present the aircraft forms to LGQ prior to the scheduled briefing. All AFTO Forms 781 pertinent to the FCF will remain in the aircraft forms binder until satisfactory completion of the FCF. LGQ will then contact Operations and schedule an FCF briefing.

2.5. The Deputy Commander for Operations (DO) or Supervisor of Flying (SOF) will schedule a qualified crew and ensure preparation of ACC Form 50, **Flight Order**.

2.6. The FCF crew will report to LGQ, building 1750, room 220, for the briefing. Any maintenance or support personnel who will fly on the FCF will also attend the briefing in LGQ. Maintenance personnel flying on an FCF will wear nomex flight clothing to perform their duties.

2.6.1. If time constraints could impede the performance of the FCF or hinder the mission, the flight engineer may be excused from the briefing to preflight the aircraft. Flight engineer will report to LGQ to review forms prior to preflight. This will be at the discretion of the aircraft commander on a case-by-case basis.

2.6.2. LGQ will brief the crew on the FCF requirements and other pertinent information. LGQ will complete the AF Form 2400, **Functional Check Flight Log**.

2.6.3. If the FCF includes an engine maximum-power-available check, an engine shop technician will attend the briefing and supply the crew with the appropriate forms and technical data and attend the debrief. All crewmembers will be in consensus with the calculations and the data must be entered on the appropriate forms before release of the FCF. Health Indicator Test (HIT) baselines will be computed both in-flight and on the ground whenever a maximum-power-available check is performed.

2.7. FCFs will be performed in the transition area or FCF area as detailed in MCI 11-HH60G, Volume 3, Chapter 8, *Local Operating Procedures*. The FCF checklist will be annotated as each item is performed.

2.8. On completion of the FCF, LGQ will debrief the crew in the flight line office, building 1750, room 109. The aircraft forms, FCF checklist, and the FCF log will be annotated and reviewed for accuracy. LGQ will deliver the completed FCF checklist and previous AFTO Forms 781A, **Maintenance Discrepancy and Work Document**, to LGLP.

3. Limitations. FCFs will not be used for accomplishing other mission or training requirements, i.e., standardization checks, pilot instructions, transition training, etc. However, it is permissible to continue on with another mission after debrief.

4. Documentation:

4.1. FCFs due will be documented on the AFTO Form 781A. To avoid duplication, the original FCF entry may contain multiple FCF requirements.

4.2. When the aircraft releases from the FCF for the original condition, the AFTO 781A entry is closed out by circling the "IS RELEASED" statement and entering the local time in the "CORRECTIVE ACTION" block. The releasing pilot will sign the "INSPECTED BY" block and initial over the symbol.

4.3. If an FCF releases for the original condition, but a grounding discrepancy is encountered which is unrelated to the FCF, the FCF will still be released and the AFTO 781A entry closed out.

4.4. When an FCF does *not* release for the original condition, the FCF entry may remain open until such time the aircraft satisfactorily completes the FCF.

4.5. Annotate all discrepancies encountered during the FCF in the AFTO 781A. If a discrepancy is encountered that generates an additional FCF, it must be annotated separately. Additional requirements will never be added to the original FCF entry while the FCF is in progress.

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Commander