



GACA Circular No. R-13A-2015

05 March, 2015

TO: GACA CERTIFICATE HOLDERS AND OPERATORS OF SAUDI ARABIAN REGISTERED AIRCRAFT

SUBJECT: **Observance of Human Factors Principles in Maintenance Documents**

In accordance with the Civil Aviation Law of the Kingdom of Saudi Arabia (KSA) as approved by the Council of Ministers Resolution No. 185 dated 17/07/1426H and issued by the Royal Decree No. M/44 dated 18/07/1426H (23/08/2005G), and based on the authority granted in Article 179 of the Civil Aviation Law, the General Authority of Civil Aviation (GACA) of KSA has promulgated Civil Aviation Safety Regulations. The following Regulation is issued under the authority of the President of General Authority of Civil Aviation, as a duly delegated representative of the GACA Board of Directors, in accordance with Order No.T-41, dated 30/12/1429H (28/12/2008G).

The GACA requires that:

With effect from 1 April 2015

1. Human Factor principles shall be observed in the contents of Maintenance Control Manuals and Design & Application of Aircraft Maintenance Program for all GACA certificated air operators and maintenance organizations.
2. The operators shall provide, for the use and guidance of maintenance and operational personnel concerned, an approved maintenance program, containing, but not limited to, the following information:
 - a) Maintenance tasks and the intervals at which these are to be performed, taking into account the anticipated utilization of the aircraft;
 - b) When applicable, a continuing structural integrity program;
 - c) Procedures for changing or deviating from (a) and (b) above; and
 - d) When applicable, condition monitoring and reliability program descriptions for aircraft systems, components and engines.
 - e) Maintenance tasks and intervals that have been specified as mandatory in approval of the type design shall be identified as such.
 - f) The maintenance programme should be based on maintenance programme information made available by the State of Design or by the organization responsible for the type design, and any additional applicable experience.



3. The design and application of the operator's maintenance program shall observe Human Factors principles.
4. Copies of all amendments to the maintenance program shall be furnished promptly to all organizations or persons to whom the maintenance program has been issued.
5. The operator should consider if it is necessary to perform detailed "Human Factors checks" on the following publications:
 - a) The Maintenance Manual (i.e. the Type Certificate holder's recommendations on how to perform tasks);
 - b) Information issued as a Service Bulletin or Service Letter (i.e. what changes or special inspections to perform as a result of service experience); and
 - c) The Approved Maintenance Organization (AMO) maintenance control manual in respect of topics which define the procedures that control the application of the maintenance program.
6. When these Human Factors checks or internal company reporting systems (post-event) reveal a text that does not properly observe Human Factors principles, the operator should report this to the originator and consider the need to transcribe it so that it does observe Human Factors principles when it is applied by the AMO.
7. Application of the operator's program by the AMO is required to provide the following results:
 - a) Task instructions from the approved maintenance program that can be either easily and accurately understood directly by C or can be easily and accurately transcribed for them;
 - b) Hangar or workshop environment and facilities that observe Human Factors principles;
 - c) Procedures, instructions and practices that enable the program (and other AMO staff) to apply the maintenance program consistently and correctly and to release an aircraft or component that meets the type design and is in condition for safe operation; and
 - d) All maintenance personnel having Human Factors knowledge and skills appropriate to the assigned tasks and responsibilities.

NOTE: *Guidance material concerning human factors can be found in the ICAO Annex-6_Part-1_chapter 8 & 11, ICAO Human Factors Training Manual (Doc 9683), ICAO Doc 9824 as well as FAA AC No: 120-72.*

This Circular supersedes Circular R-13-2010 dated 15th April, 2010, and is published at GACA official website: <http://www.gaca.gov.sa>

Any inquiries or feedback concerning GACA Regulations shall be addressed to Assistant Vice President Safety & Air Transport, Fax No. +966-2-6855284.

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President of General Authority of Civil Aviation

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