



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2012-08-04

Effective Date: 29 Oct. 2012

The following Brazilian Airworthiness Directive (AD), issued by the Agência Nacional de Aviação Civil (ANAC) in accordance with provisions of Chapter IV, Title III of Código Brasileiro de Aeronáutica – Law No. 7,565 dated 19 December 1986 – and Regulamento Brasileiro da Aviação Civil (RBAC) 39, applies to all aircraft registered in the Registro Aeronáutico Brasileiro. No person may operate an aircraft to which this AD applies, unless it has previously complied with the requirements established herein.

AD No. 2012-08-04 / 39-1361.

APPLICABILITY

This Airworthiness Directive (AD) applies to transport category airplanes, in passenger-carrying operations, as specified in paragraph (a) and (b) of this AD.

- (a) Airplanes that are in compliance with the requirements of AD 2011-02-02.
- (b) Airplanes equipped with any chemical oxygen generator installed in any lavatory and are operating under “Regulamento Brasileiro da Aviação Civil (RBAC) 121.

CANCELLATION / REVISION

This AD cancels and supersedes the AD 2011-02-02 / 39-1329, dated March 14th, 2011.

REASON

This AD was prompted by the determination that the current design of chemical oxygen generators in the lavatories presents a hazard that could jeopardize flight safety. This AD is being issued to eliminate this hazard and ensure that all lavatories have a supplemental oxygen supply, restoring the accomplishment with sections 25.1447, 121.329 and 121.333 of the RBAC 25 and 121.

REQUIRED ACTION

Reestablishment of the supplemental oxygen supply in the lavatories.

COMPLIANCE

Required as indicated below, unless already accomplished.

Restatement of requirements of AD 2011-02-02: Lavatory chemical oxygen generator activation/removal

(c) Within 21 days after March 14th 2011, the effective date of the AD 2011-02-02, and while no passengers are on board, do the actions specified in paragraphs (c)(1) and (c)(2) of this AD:

(1) Activate all chemical oxygen generators in the lavatories until the generator oxygen supply is expended. An operator may also remove the oxygen generator(s) in accordance with existing maintenance practice, in lieu of activating it; and

(2) For each expended (or removed) chemical oxygen generator, re-stow the oxygen masks and close the mask dispenser door after the generator is expended (or removed).

NOTE 1: Chemical oxygen generator is considered a hazardous material and subject to specific requirements for dangerous material transportation. Oxygen generators are forbidden in passenger air transportation as cargo. The generator must be expended prior to disposal and is considered a hazardous waste; therefore, disposal must be in accordance with all Federal, State and local regulations. Expended oxygen generators are forbidden in air transportation as cargo. For disposal, all federal, state and local regulations must be followed.

(d) After March 14th, 2011, the effective date of the AD 2011-02-02, and until accomplishment of the actions specified in paragraph (f) of this AD, no person may install a chemical oxygen generator in any lavatory on any affected airplane by this AD.

(e) Notwithstanding what is required by sections 25.1447, 121.329 and 121.333 of the RBAC 25 and 121, operators complying with the AD 2011-02-02 or paragraphs (c)(1) and (c)(2) of this AD, are authorized to operate affected airplanes until accomplishment of actions specified in paragraph (f) of this AD.

NOTE 2: In coordination with DA 2011-02-02, ANAC has issued the Regulamento Brasileiro de Aviação Civil Especial 111 – Sistemas de Oxigênio de Lavatórios (RBAC E-111). RBAC-E 111 allows delivering and operating airplanes which do not comply with provisions of sections 25.1447, 121.329 and 121.333 of RBAC 25 and 121. This RBAC-E is a temporary regulation and will be timely revoked after implementation of the measures provided by this AD on affected airplanes.

New Requirements of This AD: Restoration of lavatory supplemental oxygen system

(f) Within 37 months, after the effective date of this AD, install a supplemental oxygen system that meets all applicable sections of RBAC 25 and 121 in each affected lavatory, as specified in paragraph (f)(1) or (f)(2) of this AD, as applicable.

(1) If compliance with paragraph (f) of this AD is achieved using a chemical oxygen generator, the actions specified in paragraph (f) of this AD must be done in accordance with a method approved by the General Manager of the Aeronautical Product Certification Branch (Gerência-Geral de Certificação de Produtos Aeronáuticos (GGCP)). For a method to be approved, it must meet the certification basis of the airplane, and the approval must specifically refer to this AD.

(2) If compliance with paragraph (f) of this AD is achieved without a chemical oxygen generator, the specifications of paragraphs (f)(2)(i) and (f)(2)(ii) of this AD apply. Any repairs or alterations to a system installed and approved in accordance with this paragraph may be accomplished in accordance with RBAC 43, provided the operator's maintenance program contains an airworthiness limitation that prohibits the installation of chemical oxygen generators in lavatories.

(i) The modification must receive ANAC approval in accordance with RBAC 21 as a major design change.

(ii) Deviation from approved service instructions and subsequent modifications may be handled by normal operator procedures without requiring approval of an Alternative Method of Compliance (AMOC).

Alternative Method of Compliance (AMOC)

(g) A different method or a different compliance time, with requirements of this AD, may be used if approved by the General Manager of the Aeronautical Product Certification Branch (Gerência-Geral de Certificação de Produtos Aeronáuticos (GGCP)).

Record compliance with this AD in the applicable maintenance log book.

CONTACT:

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NOTE: Original in Portuguese language signed and available in the files of the Aeronautical Products Certification Branch (GGCP) of the National Civil Aviation Agency (ANAC).