

**ANSI/ASHRAE Addenda a and b to
ANSI/ASHRAE Standard 161-2007**



ASHRAE STANDARD

Air Quality within Commercial Aircraft

Approved by the ASHRAE Standards Committee on June 20, 2009; by the ASHRAE Board of Directors on June 24, 2009; and by the American National Standards Institute on June 25, 2009.

This standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the standard. The change submittal form, instructions, and deadlines may be obtained in electronic form from the ASHRAE Web site, <http://www.ashrae.org>, or in paper form from the Manager of Standards. The latest edition of an ASHRAE Standard may be purchased from ASHRAE Customer Service, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305. E-mail: orders@ashrae.org. Fax: 404-321-5478. Telephone: 404-636-8400 (worldwide), or toll free 1-800-527-4723 (for orders in US and Canada).

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ASHRAE obtains consensus through participation of its national and international members, associated societies, and public review.

ASHRAE Standards are prepared by a Project Committee appointed specifically for the purpose of writing the Standard. The Project Committee Chair and Vice-Chair must be members of ASHRAE; while other committee members may or may not be ASHRAE members, all must be technically qualified in the subject area of the Standard. Every effort is made to balance the concerned interests on all Project Committees.

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- a. interpretation of the contents of this Standard,
- b. participation in the next review of the Standard,
- c. offering constructive criticism for improving the Standard, or
- d. permission to reprint portions of the Standard.

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(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

This addendum adds a definition to clarify how the phrase “commercial aircraft” should be interpreted in this standard. It also adds the appropriate reference to the reference section of the standard.

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~strike through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum a to Standard 161-2007

[Add the following definition to Section 3, Definitions.]

aircraft, commercial: an aircraft engaged in common carriage according to FAA 8300:10.²

[Add the following reference to Section 10, References.]

2. FAA Airworthiness Inspector’s Handbook, Order 8300:10, Volume 2, Chapter 60, Section 5, US Federal Aviation Administration, Department of Transportation, US Government Printing Office, Washington, DC, October, 2006.

Note: Prior to this addendum, the definition of “commercial aircraft” and the reference being added by this addendum were located in the last sentence of the Foreword to Standard 161. This sentence will be deleted from the Foreword when the next edition of Standard 161 is published.

(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

This addendum removes the prefix “ortho” from the term “ortho-TCP” in all places (two) where it occurs. There are multiple isomers of Tricresyl phosphate, and it is the intention of the standard to cover all of them, not just the ortho-TCP isomer.

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~strike through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum b to Standard 161-2007

[Delete the prefix “ortho” from the term “ortho-TCP” in the Design Control Measures of Section 8.6-ii, as shown below.]

ii) Information on the content of individual isomers of TCPs in hydraulic fluids used in the airline industry shall be made available to crew members as required by 29 CFR Section 1910.1200.¹⁴ Products with reduced content of ~~ortho~~-TCPs that still provide the required performance characteristics for the specific application should be selected.

[Delete the prefix “ortho” from the term “ortho-TCP” in the Design Control Measures of Section 8.7-ii, as shown below.]

ii) Information on the content of individual isomers of TCPs in hydraulic fluids used in the airline industry shall be made available to crew members as required by 29 CFR Section 1910.1200.¹⁴ Products with reduced content of ~~ortho~~-TCPs that still provide the required performance characteristics for the specific application should be selected.

**POLICY STATEMENT DEFINING ASHRAE'S CONCERN
FOR THE ENVIRONMENTAL IMPACT OF ITS ACTIVITIES**

ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the standards and guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive technical committee structure, continue to generate up-to-date standards and guidelines where appropriate and adopt, recommend, and promote those new and revised standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date standards and design considerations as the material is systematically revised.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating standards and guidelines.

The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.