

AEROSPACE RECOMMENDED PRACTICE

SAE ARP1178

REV. B

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Superseding ARP1178A

(R) Aircraft Evacuation Signal System

RATIONALE

This document is being revised to clarify some of the design and performance recommendations for aircraft evacuation signal systems and clarify the use of the words should and shall within the document.

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1. SCOPE

This Aerospace Recommended Practice recommends general criteria for the development and installation of an aircraft emergency signal system to permit any crew member (flight or cabin) to inform all other crew members that an emergency evacuation situation exists and that an evacuation has been or should be immediately started.

1.1 PURPOSE

The purpose of this document is to assure functionality, usability and performance of emergency evacuation signal systems installed on transport category aircraft.

NOTE: It is not the purpose of this document to specify the design method, mechanism, or equipment to be used in the accomplishment of the objective set forth herein.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

ARP577 Emergency Placarding - Internal and External

ARP583 Flight Attendant Stations

ARP4102/4 Flight Deck Alerting System (FAS)

2.2 Definitions

2.2.1 AIRCRAFT EVACUATION SIGNAL SYSTEM: An integrated system of audible and visible signals used by crew members to initiate transport aircraft emergency evacuations.

2.3 Mandating and Recommending Words

2.3.1 SHALL: Indicates a mandatory criterion.

2.3.2 SHOULD: Indicates a criterion for which an alternative, including non-compliance, may be applied if it is documented and justified.

3. DETAIL RECOMMENDATIONS

3.1 Evacuation signal system controls shall be located at each cabin crew member's station, near the door operating mechanism, and in the flight deck (see ARP583).

3.2 The system shall contain the following features:

3.2.1 Flashing signal light.

3.2.2 Audible signal.