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**Installation and Stowage Provisions for Emergency Equipment in
the Transport Aircraft Passenger Cabin**

RATIONALE

This technical report covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

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This document has been declared "Stabilized" by the SAE S-9 Cabin Safety Provisions Committee and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

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on this Technical Report, please visit
<http://www.sae.org/technical/standards/ARP997D>**

1. SCOPE

The recommendations cover stowage of all portable cabin emergency equipment, including:

- a. Oxygen bottles/units
- b. Oxygen masks
- c. Fire extinguishers
- d. Protective breathing equipment (PBE)
- e. First aid kits
- f. Emergency/expanded medical kits and pouches
- g. Megaphones
- h. Flashlights
- i. Life rafts
- j. Survival kits
- k. Life preservers
- l. Flotation seat cushions
- m. Emergency locator transmitters (ELT)
- n. Automatic external defibrillators (AED)
- o. Resuscitation/life support equipment

1.1 Purpose

The purpose of this SAE Aerospace Recommended Practice (ARP) is to establish criteria for the installation and stowage of emergency equipment in the cabin to ensure that the equipment is available and accessible. The goal is to promote expedient access to equipment by encouraging standardization and reducing reorientation of crewmembers to alternate stowage provisions when changing types, models, and/or series of transport aircraft within an operator's fleet.

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, supercedes 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

2.2 Other Applicable References

2.2.1 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.

ARP488 Exits and Their Operation - Air Transport Cabin Emergency

ARP503 Emergency Evacuation Illumination

ARP1282 Survival Kit - Life Rafts and Slide/Rafts

ARP1354 Individual Inflatable Life Preservers

ARP1384 Passenger Safety Information Briefing Cards/Video Briefings

ARP4712 Hand-Held Cabin Fire Extinguishers - Transport Aircraft

AS4950 Design and Performance Criteria - Transport Aircraft Portable Megaphones

2.2.2 FAA Publications

Available from Federal Aviation Administration, 800 Independence Avenue, SW, Washington, DC 20591, Tel: 866-835-5322, www.faa.gov.

Applicable Federal Aviation Regulations - 14 CFR Parts 25 and 121

FAA Office of Aerospace Medicine, Civil Aerospace Medical Institute, Report Number DOT/FAA/AM-03/9 - Human Factors Associated with the Certification of Airplane Passenger Seats: Life Preserver Removal

2.2.3 JAA Publications

Available from Printing and Publications Services Ltd., Greville House, 37 Gratton Road, Cheltenham GL 502BN England, www.jaa.nl.

Joint Aviation Requirements: JAR-OPS 1

2.2.4 EASA Publications

Available from the European Aviation Safety Agency, Postfach 10 12 53, D-50452 Koeln, Germany, Tel: +49 221 8999 000, www.easa.eu.int.

Certification Specifications for Large Aeroplanes: CS-25

2.2.5 U.S. NTSB Publications

Available from the National Transportation Safety Board, 490 L'Enfant Plaza SW, Washington, DC 20594, www.nts.gov.

Special Investigation: Flight Attendant Training and Performance During Emergency Situations, NTSB Report No. SIR-92-02, June 1992, pp. 26-27.

2.3 Definitions

2.3.1 Mandating and Recommending Words

2.3.1.1 SHALL - The word "shall" indicates a mandatory criterion.

2.3.1.2 SHOULD - The word "should" indicates a criterion for which an alternative, including noncompliance, may be applied if it is documented and justified.

2.3.2 The word "equipment", as used in this document, refers to all portable cabin emergency equipment.

3. GENERAL RECOMMENDATIONS

3.1 Stowage and Location

3.1.1 Each operator's equipment stowage and related placards shall be standardized among aircraft types. Placards shall be in accordance with ARP577 and any applicable regulatory requirements.

3.1.2 Equipment shall be stowed in a manner to enhance accessibility. Equipment for flight attendant stations shall be located in accordance with ARP583.

3.1.3 Equipment stowed behind a passenger seat shall be accessible with the seat in the most adverse position.

3.1.4 Equipment shall be stowed in a manner to minimize the effects of environmental factors such as fire, moisture, temperature, vibration, impact loading, abuse and tampering.

3.1.5 Sound ergonomic principles shall provide the basis for the selection of stowage locations.

3.1.6 Stowage locations should allow equipment to be readily accessible to persons, ranging in stature, from the 5th percentile female through the 95th percentile male.

3.1.7 Equipment shall be installed to minimize the probability of jamming access doors and release mechanisms during the ultimate inertial loading conditions specified in 14CFR25.561.