



# Specific Technical Requirements STR-11

Date: 15. August 2001

## Generic Gaseous Therapeutic Oxygen System

### 1. Definition

The Generic Gaseous Therapeutic Oxygen System shall serve as a therapeutic oxygen system for e.g. asthmatic persons requiring oxygen supply on board of an aircraft.

### 2. Requirements and Acceptable Means of Compliance

The Generic Passenger Oxygen System shall meet the following requirements of JAR 25, Change 15:

Requirement	Title
<b>1.1 JAR 25.1301</b>	<b>Function and installation</b>
JAR 25.1301 (a)	Intended Function
JAR 25.1301 (b)	Labelling
JAR 25.1301 (c)	Installation limitations
JAR 25.1301 (d)	Proper function
<b>1.2 JAR 25.1309</b>	<b>Equipment, Systems and Installations</b>
JAR 25.1309 (a)	Intended Function
JAR 25.1309 (b)(1) to (b)(2)	Design of system
JAR 25.1309 (c)	Warning information
JAR 25.1309 (d)(1) to (d)(4)	Compliance demonstration for paragraph (b)
JAR 25.1309 (e)(1) to (e)(4)	Power supply for systems required for certification
JAR 25.1309 (f)	Reduction of power loads
JAR 25.1309 (g)	Compliance with critical environmental conditions including vibration and acceleration loads
<b>1.3 JAR 25.1441</b>	<b>Oxygen equipment and supply</b>
JAR 25.1441 (a)	Cross reference to JAR 25.1443 to 25.1453
JAR 25.1441 (b)	Free of hazards
JAR 25.1441 (c)	Means to determine quantity
JAR 25.1441 (d)	Flow rates above 40000 ft
<b>1.4 JAR 25.1445</b>	<b>Equipment standards for the oxygen distributing system</b>
JAR 25.1445 (a)	Design of oxygen distribution system for crew and passengers

<b>Requirement</b>	<b>Title</b>
JAR 25.1445 (a)(1)	Separate sources for flight crew and passengers as well as other crew members
JAR 25.1445 (a)(2)	Common source with reserve the minimum supply required by the flight crew on duty
JAR 25.1445 (a)(3)	Means to isolate the distribution system from the supply source
JAR 25.1445 (b)	Use of portable walk-around oxygen units to meet breathing requirements.
<b><u>1.5 JAR 25.1453</u></b>	<b>Protection of oxygen equipment from rupture</b>
JAR 25.1453 (a)	Sufficient Strength
JAR 25.1453 (b)	Requirements for sources and pipelines
JAR 25.1453 (b)(1) to (b)(2)	Protection from unsafe temperatures
<b><u>1.6 RTCA/DO 160 D</u></b>	<b>Environmental Conditions and Test Procedures for Airborne Equipment</b>

Acceptable means but not the only means of compliance are given in the applicable JAR 25 ACJ's.