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INTERNATIONAL CIVIL AVIATION ORGANIZATION

**TECHNICAL INSTRUCTIONS FOR THE SAFE TRANSPORT
OF DANGEROUS GOODS BY AIR**

2011-2012 EDITION

ADDENDUM NO. 1

The attached addendum should be incorporated into the 2011-2012 Edition of the Technical Instructions (Doc 9284).

(2 pages)

**TECHNICAL INSTRUCTIONS FOR THE SAFE TRANSPORT
OF DANGEROUS GOODS BY AIR**

The following amendments are approved and published by decision of the Council of ICAO and should be incorporated in the 2011-2012 Edition of the Technical Instructions (Doc 9284):

In Part 4, Chapter 7, page 4-7-9, Packing Instruction 565:

Second line, *amend* to read: "Cargo aircraft for UN 3356 only".

"COMBINATION PACKAGINGS" table, "Total quantity per package — cargo" column, *amend* value to read "25 kg".

ADDITIONAL PACKING REQUIREMENTS FOR COMBINATION PACKAGINGS, *replace* with the following:

ADDITIONAL PACKING REQUIREMENTS FOR COMBINATION PACKAGINGS

- a) The generator, without its packaging, must be capable of withstanding a 1.8 m drop test onto a rigid, non-resilient, flat and horizontal surface, in the position most likely to cause actuation, without loss of its contents and without actuation. For portable breathing equipment (PBE), which are in a vacuum-sealed bag as part of their containment system, this test may be conducted on the PBE in the vacuum-sealed bag.
- b) When a generator is equipped with an actuating device, it must have at least two positive means of preventing unintentional actuation as follows:
 - 1) mechanically actuated devices:
 - i) two pins, installed so that each is independently capable of preventing the actuator from striking the primer;
 - ii) one pin and one retaining ring, each installed so that each is independently capable of preventing the actuator from striking the primer; or
 - iii) a cover securely installed over the primer and a pin installed so as to prevent the actuator from striking the primer and cover.
 - 2) electrically actuated devices: The electrical leads must be mechanically shorted and the mechanical short must be shielded in metal foil;
 - 3) for PBE:
 - i) a pin so as to prevent the actuator from striking the primer; and
 - ii) placed in protective packaging such as a vacuum-sealed bag;
- c) The generator(s) must be transported in a package which will meet the following requirements when one generator in the package is actuated:
 - 1) other generators in the package will not be actuated;
 - 2) packaging material will not ignite; and
 - 3) the outside surface temperature of the completed package will not exceed 100°C.

Note.— To enable tests 1), 2) and 3) to be conducted on PBE, it is acceptable to break the vacuum-sealed bag to actuate the generator before placing it in the package.

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