Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals

Sub-Committee of Experts on the Transport of Dangerous Goods **25 June 2013**

Forty-third session
Geneva, 24–28 June 2013
Item 3 (c) of the provisional agenda
Listing, classification and packing: miscellaneous

Requirements for radiation detectors containing Division 2.2 gases under pressure – Revisions to Proposal in ST/SG/AC.10/C.3/2013/25, ~~and~~ INF. 50, INF.53

Transmitted by the Dangerous Goods Advisory Council (DGAC)

1. Based on Subcommittee discussions, DGAC makes the following proposal:~~proposes a revision to what was proposed in UN/SCETDG/43/INF.50 relating to ST/SG/AC.10/C.3/2013/25 as follows:~~

Add ZZZ in column 6 of the Dangerous Goods List against the following entries:

UN 1006 Argon, compressed

UN 1013 Carbon Dioxide

UN 1046 Helium, compressed

UN 1056 Krypton, compressed

UN 1066 Nitrogen, compressed

UN 1065 Neon, compressed

UN 2036 Xenon and

UN 1956 Compressed gas, n.o.s.

Add the following new special provision in Chapter 3.3:

ZZZ Radiation detectors containing this gas in non-refillable pressure receptacles not meeting~~subject to~~ the requirements of Chapter 6.2 and Packing Instruction P200 may be transported under this entry ~~-~~provided:

- (a) The working pressure in each receptacle does~~shall~~ not exceed 50 bar ~~at 20°C~~;
- (b) The receptacle capacity does~~shall~~ not exceed 12 litres;
- (c) Each receptacle has~~shall have~~ a minimum burst pressure of at least 3 times the working pressure when a relief device is fitted and at least 4 times the working pressure when no relief device is fitted;
- (d) Each receptacle is~~shall be~~ manufactured from material which will not fragment upon rupture;
- (e) Each detector is~~shall be~~ manufactured under a registered quality assurance programme;

Note: ISO 9001:2008 may be used for this purpose.

- (f) Detectors are~~shall be~~ transported in strong outer packagings capable of withstanding a 1.2 meter drop test without breakage of the detector or rupture of the outer packaging. Equipment that includes a detector~~(s)~~ shall be pack~~ag~~ed in a strong outer packaging unless the detector~~(s)~~ is afforded equivalent protection by the equipment in which it is contained; and

~~and~~

- (h~~g~~) The transport document ~~shall~~ include~~s~~ the following statement "Transport in accordance with special provision ZZZ".

Radiation detectors, including detectors in ~~and~~ radiation detection systems, ~~containing detectors constructed and packed~~ are not subject to any other requirements of these Regulations if the detectors meet~~in accordance with~~ the ~~above~~ requirements in (a) – (f) above and the capacity of detector~~with a~~ receptacles~~capacity~~ does not exceed~~of~~ 50 mL. ~~or less are not subject to any other requirements of these Regulations.~~

Definition in 1.2.1: "Radiation detection system is an apparatus that contains radiation detectors as components;".