

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

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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

Transmitted by the Dangerous Goods Advisory Council (DGAC)

1. Based on Subcommittee discussions, DGAC 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 in nonrefillable pressure receptacles not subject to the requirements of Chapter 6.2 may be transported under this entry provided:

- (a) The working pressure in each receptacle shall not exceed 50 bar at 20°C;
 - (b) The receptacle capacity shall not exceed 12 litres;
 - (c) Each receptacle 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 shall be manufactured from material which will not fragment upon rupture;
 - (e) Each detector shall be manufactured under a registered quality assurance programme;
- Note: ISO 9001:2008 may be used for this purpose.*
- (f) Detectors 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 packaged in a strong outer

packaging unless the detector(s) is afforded equivalent protection by the equipment in which it is contained; and

- (g) The transport document shall include the following statement “Transport in accordance with special provision ZZZ”.

Radiation detectors and radiation detection systems containing detectors constructed and packed in accordance with the above requirements with a capacity of 50 mL or less are not subject to any other requirements of these Regulations.
