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

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| **Sub-Committee of Experts on the Transport of Dangerous Goods**  |
| **Fifty-third session** |
| Geneva, 25 June-4 July 2018Item 5 (b) of the provisional agenda **Transport of Gases: miscellaneous** |

 Shells for UN acetylene cylinders

 Transmitted by the experts from Canada[[1]](#footnote-2)

 Introduction

1. This document proposes to revise the shell requirements in 6.2.2.1.3 for UN acetylene cylinders to better align with the shell requirements in ISO 3807:2013. ISO 3807:2013 supersedes both ISO 3807-1:2000 and ISO 3807-2:2000 and at the forty-fourth session of the Sub-Committee, the International Organisation for Standardisation (ISO) submitted a formal document ([ST/SG/AC.10/C.3/2013/61](https://www.unece.org/fileadmin/DAM/trans/doc/2013/dgac10c3/ST-SG-AC.10-C.3-2013-61e.pdf)) and informal documents [INF.13](https://www.unece.org/fileadmin/DAM/trans/doc/2013/dgac10c3/UN-SCETDG-44-INF13e.pdf) and [INF.26](https://www.unece.org/fileadmin/DAM/trans/doc/2013/dgac10c3/UN-SCETDG-44-INF26e.pdf) (44th session) which proposed that ISO 3807-1:2000 and ISO 3807-2:2000 be replaced by ISO 3807:2013. ISO 3807:2013 includes new provisions for shells which were not addressed during its adoption.

 Proposal

2. Amend the text of 6.2.2.1.3 as shown. New text is underlined and deleted text is ~~struck out~~.

6.2.2.1.3 The following standards apply for the design, construction and initial inspection and test of UN acetylene cylinders, except that inspection requirements related to conformity assessment system and approval shall be in accordance with 6.2.2.5:

For the cylinder shell:

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| Reference | Title | Applicable for manufacture |
| ISO 9809-1:1999 | Gas cylinders -- Refillable seamless steel gas cylinders -- Design, construction and testing -- Part 1: Quenched and tempered steel cylinders with tensile strength less than 1 100 MPa***Note****: The note concerning the F factor in section 7.3 of this standard shall not be applied for UN cylinders.* | Until 31 December 2018 |
| ~~ISO 9809-1:2010~~ | ~~Gas cylinders — Refillable seamless steel gas cylinders — Design, construction and testing — Part 1: Quenched and tempered steel cylinders with tensile strength less than 1 100 MPa~~ | ~~Until further notice~~ |
| ISO 9809-3:2000 | Gas cylinders -- Refillable seamless steel gas cylinders -- Design, construction and testing -- Part 3: Normalized steel cylinders | Until 31 December 2018 |
| ~~ISO 9809-3:2010~~ | ~~Gas cylinders — Refillable seamless steel gas cylinders — Design, construction and testing — Part 3: Normalized steel cylinders~~ | ~~Until further notice~~ |
| ISO 3807:2013 | Gas cylinders -- Acetylene cylinders -- Basic requirements and type testing | Until further notice |

For the porous material in the cylinder

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| Reference | Title | Applicable for manufacture |
| ISO 3807-1:2000 | Cylinders for acetylene — Basic requirements — Part 1: Cylinders without fusible plugs | Until 31 December 2020 |
| ISO 3807-2:2000 | Cylinders for acetylene — Basic requirements — Part 2: Cylinders with fusible plugs | Until 31 December 2020 |
| ISO 3807:2013 | Gas cylinders -- Acetylene cylinders -- Basic requirements and type testing | Until further notice |

 Justification

3. Unlike ISO 3807-1:2000 and ISO 3807-2:2000, ISO 3807:2013 includes technical requirements for the cylinder shell. ISO 3807:2013 allows shells to be manufactured in accordance with ISO 9809-1, ISO 9809-3, ISO 4706, or ISO 7866, all of which are standards referenced for the design, construction and initial inspection and test of UN cylinders in 6.2.2.1.1. As written, 6.2.2.1.3 only authorises shells manufactured in accordance with ISO 9809-1 or ISO 9809-3. This change will also allow shells manufactured in accordance with ISO 4706 or ISO 7866, which was the intent of the technical experts who developed ISO 3807:2013.

1. In accordance with the programme of work of the Sub-Committee for 2017–2018 approved by the Committee at its eighth session (see ST/SG/AC.10/C.3/100, paragraph 98 and ST/SG/AC.10/44, para. 14). [↑](#footnote-ref-2)