

UN/SCETDG/22/INF.40

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

(Twenty-second session, 2-6 December 2002,
agenda item 2)

ADDITIONAL PROVISIONS FOR THE TRANSPORT OF GASES

NOTE ON THE WORK CARRIED OUT BY
THE TECHNICAL COMMITTEE ISO/TC 220 *Cryogenic vessels*

Transmitted by the International Organization for Standardization (ISO)

2002-11-28

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1. General

The technical committee ISO/TC 220 was established on 1999-10-14. The first meeting was held in Paris (France) on 2002-06-22 and 23. Subsequent meetings were held in Arlington (USA) on 2001-06-20 and in Montreal on 2202-06-26. This note provides information taking into account the results of these ISO/TC 220 meetings.

2. Title and scope

The following title and scope were adopted :

Title : *Cryogenic vessels*

Scope : *Standardization in the field of insulated vessels (vacuum or non-vacuum) for the storage and the transport of refrigerated liquefied gases of class 2 of "Recommendations on the Transport of Dangerous Goods - Model regulations of the United Nations", in particular concerning the design of the vessels and their safety accessories, gas/materials compatibility, insulation performance, the operational requirements of the equipment and accessories.*

The secretariat for this technical committee (ISO/TC 220) is assumed by the ISO Member Body for France (AFNOR). Mr. Eric Georges Fortuit, from Air Liquide, France was appointed as chairman of technical committee ISO/TC 220.

3. Membership

The Member Bodies from the following countries are recorded as participating (P) members of ISO/TC 220 :

- Australia, Austria, Canada, France, Germany, Iran (Republic of), Italy, Sweden, Switzerland, United Kingdom and USA.

The Member Bodies from the following countries are recorded as observer (O) members of ISO/TC 220 :

- Algeria, Argentina, Belgium, Bulgaria, Colombia, Croatia, Denmark, Egypt, Ireland, Japan, Lithuania, Netherlands, Saudi Arabia, Slovenia, Spain, Tunisia and Yugoslavia.

4. Liaisons

Liaisons with the following international organizations were established :

- Internal liaisons :

ISO/TC 11 *Boilers and pressure vessels*
 ISO/TC 121 *Anaesthetic and respiratory equipment*
 ISO/TC 197 *Hydrogen technologies*

- External liaisons :

UN/CETDG & GHS

5. Structure

The following working groups are established :

- ISO/TC 220/WG 1 *Design and construction*
(Convener : Mr. H. Bartélémy, France)
- ISO/TC 220/WG 2 *Operational requirements*
(Convener : Mr. Friedrich Kössl, Germany)
- ISO/TC 220/WG 3 *Supporting standards*
(Convener : Mr. Alex Varghese, USA)

6. Programme of work

6.1 Design and construction

6.1.1 Draft international standards

The following international standards are under enquiry :

- ISO/DIS 21010 *Cryogenic vessels -- Gas/materials compatibility*
(closing date of the enquiry 2003-02-12)
- ISO/DIS 21028-1 *Cryogenic vessels -- Toughness requirements for materials at cryogenic temperature -- Part 1 : Temperature below -80 degrees C*
(closing date of the enquiry : 2003-01-18)
- ISO/DIS 21028-2 *Cryogenic vessels -- Toughness requirements for materials at cryogenic temperature -- Part 2 : Temperature between -80 degrees C and -20 degrees C*
(closing date of the enquiry : 2003-01-18)

6.1.2 Committee drafts

The following committee drafts are under review :

- ISO/CD 20421-1 *Cryogenic vessels -- Large transportable vacuum insulated vessels -- Part 1 : Design, fabrication, inspection and tests*
- ISO/CD 21009-1 *Cryogenic vessels -- Static vacuum insulated vessels -- Part 1 : Design, fabrication, inspection and tests*
- ISO/CD 21029-1 *Cryogenic vessels -- Transportable vacuum insulated vessels of not more than 1000 litres volume -- Part 2 : Operational requirements*

6.2 Operational requirements

6.2.1 Draft international standards

The following draft international standards are under enquiry:

- ISO/DIS 20421-2 *Cryogenic vessels -- Large transportable vacuum insulated vessels -- Part 2 : Operational requirements*
(closing date of the enquiry : 2003-02-12)
- ISO/DIS 21009-2 *Cryogenic vessels -- Static vacuum insulated vessels -- Part 2 : Operational requirements*
(closing date of the enquiry : 2003-02-12)
- ISO/DIS 21029-2 *Cryogenic vessels -- Transportable vacuum insulated vessels of not more than 1000 litres volume -- Part 2 : Operational requirements*
(closing date of the enquiry : 2003-02-12)

6.2.2 Working drafts

The following working drafts are under study :

- ISO/WD 23208 *Cryogenic vessels -- Cleanliness for cryogenic service*
- ISO/WD 24490 *Cryogenic vessels -- Pumps for cryogenic service*

6.3 Supporting standards

The following working drafts are under study :

- ISO/WD 21011 *Cryogenic vessels -- Valves for cryogenic*
- ISO/WD 21012 *Cryogenic vessels -- Hoses*
- ISO/WD 21013-1 *Cryogenic vessels -- Safety accessories for cryogenic services -- Part 1 : Reclosable relief*
- ISO/WD 21013-2 *Cryogenic vessels -- Safety accessories for cryogenic services -- Part 2 : Non reclosable relief*
- ISO/WD 21013-3 *Cryogenic vessels -- Safety accessories for cryogenic services -- Part 3 : Sizing and capacity determination*
- ISO/WD 21014 *Cryogenic vessels -- Cryogenic insulation performance*

7. Meetings recently held and planned

- ISO/TC 220 2003-06-20 Rome (Italy)
- ISO/TC 220/WG 1 2002-11-21/22 St. Denis (France)
2003-06-18/19 Rome (Italy)
- ISO/TC 220/WG 2 2002-11-19/20 St. Denis (France)
2003-06-17 Rome (Italy)
- ISO/TC 220/WG 3 2003-06-16/17 Rome (Italy)