INF. 25

COMMITTEE OF EXPERTS ON THE TRANSPORT OF DANGEROUS GOODS

Twentieth session Geneva, 7-16 December 1998 Agenda item 2(a)

PORTABLE TANK REQUIREMENTS

Comments on ST/SG/AC.10/1998/53

Transmitted by the expert from the United Kingdom

1. The UK is very supportive of the work undertaken by the expert from the USA in applying a rationalised approach to assigning portable tank requirements to substances. The revised proposals contained in ST/SG/AC.10/1998/53 represent the culmination of considerable work, and the UK is very anxious for this matter to be completed by the end of the current biennium. This INF paper provides a few comments.

2. On the whole the UK fully supports the proposals in ST/SG/AC.10/1998/53 However, the UK has reservations about the approach taken in allocating tank requirements to substances with possible inhalation toxicity characteristics. The fifteenth session of the Sub-Committee in July 1998 concluded, after a vote on the principles, not to include additional provisions relating to substances toxic by inhalation, and it was agreed that the need for such work in the next biennium would be considered by the Committee. Therefore, the UK does not agree with paragraph 6 of ST/SG/AC.10/1998/53 which proposes special portable tank provisions for toxic by inhalation substances, especially as these new requirements are significantly more stringent than the current requirements. The UK feels it inappropriate to include such additional requirements at this stage, but rather than hold up the adoption of rationalised approach to portable tank assignment considers that the general approach already agreed for substances for Class 6.1 should be sufficient and would retain existing safety standards.

3. The UK therefore proposes that, in paragraph 6.18 of Annex II to ST/SG/AC.10/1998/53, "(non-inhalation hazard)" be deleted, and the entire paragraph 6.19 either deleted, or placed in square brackets, depending upon the decision of the Committee whether toxic by inhalation substances should be in the work programme for the next biennium. The consequential changes to the allocation of T-codes are detailed in the attached Annex.

4. In addition, paragraph 6.9 of Annex II to ST/SG/AC.10/1998/53 is not consistent with previous discussions in the ad hoc working group for Division 4.3 PG II and III. The nearest T-code to that agreed in the ad hoc group is T7, not T11, and the UK proposes that the relevant editorial changes be made to paragraph 6.9. This only affects UN 3207, PG II and PG III, and their allocation should change from T11 to T7.

4. There also appears to be a few minor errors:-

(i) UN 1746 BROMINE TRIFLUORIDE - use of the rationalised approach suggests that T22, not T20.

(ii) UN 2015 HYDROGEN PEROXIDE STABILISED and UN 1873 PERCHLORIC ACID (both Class 5.1 PGI with subsidiary risk 8) - use of rationalised approach suggests T10, not T9. **ANNEX (see para 3).**

UN	Description	Propose	Consequences
number		d T-	
2605	Methovymethyl	Code	Now follows paragraph 6.6 rationalised approach for Class 3 PG I
2005	Isocyanate	114	subsidiary risk 6.1. More onerous requirements (6 bar rather than 4 bar)
			compared to UN 9th edition.
2483	Isopropyl	T14	Now follows paragraph 6.6 rationalised approach for Class 3 PG I,
	Isocyanate		subsidiary risk 6.1. More onerous requirements (6 bar rather than 4 bar)
0.401		T 14	compared to UN 9th edition.
2481	Ethyl Isocyanate	114	Now follows paragraph 6.6 of rationalised approach for Class 3 PG I, subsidiary rick 6.1. More operand requirements (6 her rether then 4 her)
			compared to UN 9th edition.
2486	Isobutyl Isocyanate	T7	Now follows paragraph 6.4 rationalise approach for Class 3 PG II,
			subsidiary risk 6.1. More onerous test pressure requirements than UN 9th
			edition, although 3 bottom openings now allowed.
1892	Ethyldichloroarsine	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I. same
1672	Dhanyl Carbylamina	T14	requirements as UN 9th edition.
1072	Filenyi Carbylanine	114	More operous requirements (6 har rather than 4 har) compared to UN 9th
			edition.
1670	Perchloromethyl	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
	mercaptan		More onerous requirements (6 bar rather than 4 bar) compared to UN
			Recommendations 9th edition.
1613	Hydrocyanic Acid	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
			edition
1605	Ethylene Dibromide	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
			slightly more onerous thickness requirements compared to UN 9th edition
			(6 mm regardless of diameter)
1580	Chloropicrin	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
			More onerous requirements (6 bar rather than 4 bar) compared to UN 9th
1560	Arsenic Trichloride	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I
1500	Auseine Inemonde	117	More onerous requirements (6 bar rather than 4 bar) compared to UN 9th
			edition
1553	Arsenic acid, liquid	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I. Less
			onerous requirements (6 mm rather than 8 mm) compared to UN 9th
1541	Acetone	т14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I
1341	Cyanohydrin	114	More onerous requirements (6 bar rather than 4 bar) compared to UN 9th
	5		edition
3006	Thiocarbamate	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I the
	pesticide, liquid,tox		assignment in Annex 1 to T20 probably a typing error.
2644	Methyl Iodide	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
			diameter) compared to UN 9th edition
2646	Hexachlorocyclo-	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
	pentadiene		More onerous (6 bar rather than 4 bar) compared to UN 9th edition
2232	2-Chloroethanal	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
			More onerous requirements (6 mm regardless of diameter) compared to
1008	Allylalaabol	T14	UN 9th edition
1070		114	More onerous requirements (6 bar rather than 4 bar. 6 mm regardless of
			diameter) compared to UN 9th edition
1092	Acrolein, inhibited	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
			More onerous requirements (6 bar rather than 4 bar) compared to UN
2202	Dimothylbydrazina	T14	New follows paragraph 6.18 rationalized approach for along 6.1 DC I
2302	symetrical	114	More onerous (6 bar rather than 4 bar) compared to UN 9th edition
1695	Chloroacetone	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I. Less
	stabilised		onerous (6 mm rather than 8 mm) compared to UN 9th edition
1722	Allyl Chloroformate	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
2334	Allylamine	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
		I	More onerous (6 bar rather than 4 bar) compared to UN 9th edition

UN	Description	Propose	Consequences
number		d T- Code	
1239	Methyl Chloremothed Ether	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
2488	Cyclohexyl	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
	isocyanate		More onerous (6 bar rather than 4 bar) compared to UN 9th edition
2438	Trimethylacetyl	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I. More operous (6 har rather than 4 har) compared to UN 9th edition
2521	Diketene	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
			More onerous requirements (6 bar rather than 4 bar, 6 mm regardless of
1251	Methyl Vinyl	T14	diameter) compared to UN 9th edition Now follows paragraph 6.18 rationalised approach for class 6.1 PG I
1231	Ketone	114	More onerous (6 bar rather than 4 bar) compared to UN 9th edition
3023	2-methyl-2- heptanethiol	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I. More onerous (6 bar rather than 4 bar) compared to UN 9th edition
2487	Phenyl Isocyanate	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
			More onerous (6 mm regardless of diameter, + frangible disc
2485	n-Butyl Isocyanate	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
	n Datyr 1500 junate		Slightly less onerous (5 mm rather than 6mm for smaller diameter tanks, +
3009	Conner based	T14	no frangible disc requirement) compared to UN 9th edition
3007	pesticide, liquid, toxic, flammable	114	More onerous requirements compared to UN 9th edition
3275	Nitriles,toxic,	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
1244	Methylhydrazine	T14	Nore onerous requirements compared to UN 9th edition
1211	Weary my drazme		More onerous requirements (6 bar rather than 4 bar) compared to UN
2.492		TT1 4	Recommendations 9th edition
2482	n-Propyl Isocyanate Methyl	T14 T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
21,7,7	Isothiocyanate	111	More onerous (6 bar rather than 4 bar) compared to UN 9th edition
2337	Pheyl Mercaptan	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
2606	Methyl	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I
	Orthosilicate		······································
2484	tert-Butyl Isocyanate	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I
1238	Methyl	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I. Less
	Chloroformate		onerous requirements (6 mm rather than 8 mm) compared to UN 9th edition
1143	Crotonaldehyde	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
			More onerous requirements (6 bar rather than 4 bar, 6 mm regardless of diameter) compared to LIN 0th addition
1135	Ethylene	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
	Chlorohydrin		More onerous requirements (6 mm regardless of diameter) compared to
1163	Dimethylhydrazine	T14	UN 9th edition Now follows paragraph 6.18 rationalised approach for class 6.1 PG I
1105	unsymmetrical		More onerous requirements (6 bar rather than 4 bar) compared to UN 9th
1182	Fthyl	T14	edition
1102	Chloroformate	114	onerous requirements (6 mm rather than 8 mm) compared to UN 9th
1977			edition
1752	Chloroacetyl Chloride	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I. More onerous (6 bar rather than 4 bar) compared to UN 9th edition
1595	Dimethyl Sulphate	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
1809	Phosphorus	T14	Now follows paragraph 6.18 rationalised approach for class 6.1 PG I.
	Trichloride		More onerous (6 bar rather than 4 bar) compared to UN 9th edition
3246	Methanesulphonyl Chloride	T14	Now tollows paragraph 6.18 rationalised approach for class 6.1 PG I.

UN	Description	Propose	Consequences
number		d T- Code	
1569	Bromoacetone	T7	Now follows paragraph 6.17 rationalised approach for class 6.1 PG II, with
			or without subsidiary risk. No longer requirement to have a frangible disc
2668	Chloroacatonitrila	T7	(presumably no polymerisation problem)
2008	Chloroacetointine	17	or without subsidiary risk.
1834	Sulphuryl Chloride	T10	Now follows paragraph 6.23 rationalised approach for Class 8 PG I, with
			or without subsidiary risk. Less onerous requirements (6 mm rather than 8 mm) compared to UN 9th edition
1828	Sulphur Chlorides	T10	Now follows paragraph 6.23 rationalised approach for Class 8 PG I, with
	-		or without subsidiary risk. Less onerous requirements (6 mm rather than 8
			mm) compared to UN 9th edition
1829	Sulphur Trioxide,	T10	Now follows paragraph 6.23 rationalised approach for Class 8 PG I, with
	minoned		mm) compared to UN 9th edition
2692	Boron Tribromide	T10	Now follows paragraph 6.23 rationalised approach for Class 8 PG I, with
			or without subsidiary risk. Less onerous requirements (6 mm rather than 8
1754	Chlana - lahania	T10	mm) compared to UN 9th edition
1754	acid	110	or without subsidiary risk Requirements more stringent than UN 9th
	uoru		edition, except 6 mm rather than 8 mm.
2032	Nitric acid, red	T10	Now follows paragraph 6.23 rationalised approach for Class 8 PG I, with
	fuming		or without subsidiary risk. Less onerous requirements (6 mm rather than 8
1744	Bromina or	T2299	mm) compared to UN 9th edition
1/44	Bromine solution	122::	application of paragraph 6.23 rationalised approach for Class 8 PG I, with
			or without subsidiary risk would suggest T10, which is satisfactory apart
			from a much lower thickness of 6 mm - T22 possibly appropriate instead,
1021	Sulmburio opid	T10	although not strictly following rationalised approach.
1651	fuming	110	or without subsidiary risk. Less operous requirements (6 mm rather than 8
	8		mm) compared to UN 9th edition
1838	titanium	T7	Now follows paragraph 6.22 rationalised approach for Class 8 PG II, with
	Tetrachloride		or without subsidiary risk. Different requirements (4 bar rather than 2.65
			UN 9th edition
1810	Phosphorus	T7	Now follows paragraph 6.22 rationalised approach for Class 8 PG II, with
	Oxychloride		or without subsidiary risk. Different requirements (4 bar rather than 2.65
			bar, no frangible disc required, and thickness reduction from 6mm to 5mm
2442	Trichloroscetyl	Т7	now allowed for small diameter tanks) compared to UN 9th ed. Now follows paragraph 6.22 rationalized approach for Class 8 PC II, with
2442	Chloride	1/	or without subsidiary risk. Minor thickness reductions now allowed for
			small diameter tanks.
2826	Ethyl Chlorothio-	T7	Now follows paragraph 6.22 rationalised approach for Class 8 PG II, with
	formate		or without subsidiary risk.