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## ISO/TC 28/SC 5 Measurement of light hydrocarbon fluids

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### **Report of ISO/TC 28/SC 5 to the 24<sup>th</sup> Plenary meeting of ISO/TC 28, to be held on April 26, 2006**

#### **1. Secretariat:** NKKK on behalf of JISC

Chairman : Mr. H.Kawahara

Secretary : Mr. Hisakazu Uraoka

#### **2. Members of ISO/TC 28/SC 5**

Numbers of participating countries : 18 P-members and 19 O-members

Change of member in this period : Italy changed status from (P) to (O) on November 23, 2005

#### **3. Status and work program**

See attached Work Programme

#### **4. International meeting**

SC5 Plenary meeting: None in this period

SC5 WG Meeting: Held WG2 meeting at Gothenburg, Sweden on January 26 and 27, 2006 for finalization of WD18132-2 (Gauges in refrigerated – type shore tanks).

#### **5. Proposal of modification of SC5's title and designation of the scope**

Secretariat requests modification of the title and designation of the scope. For details see Application form and Rationale for modification attached.

#### **Comments**

Any comments of the proposal will be accepted until 2006-04-10. **Secretariat regards you are in favor of the proposal if no comments received.**

Hisakazu URAOKA  

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Secretary to ISO/TC 28/SC 5

## ISO/TC 28/SC 5 WORK PROGRAMME (STATUS AS OF 10 FEBRUARY 2006)

### Petroleum products and lubricants — Measurement of light hydrocarbon fluids

IS = Published International Standard	NP = New Work Item Proposal	CS = Central Secretariat	AG = Advisory Group
Tech Corr = Technical Corrigendum	CD = Committee Draft	TC = Technical Committee	PL = Project Leader
(D)TR = (Draft) Technical Report	DIS = Draft International Standard	SC = Subcommittee	CEN = European Standards Organization
PWI = Preliminary Work Item	FDIS = Final Draft International Standard	WG = Working Group	

No.	ISO	Status	Related API Chapter	Title	ISO/TC 28/SC 5	Additional comments
1	6578	IS/91 (02)		Refrigerated hydrocarbon liquids – Static measurement – Calculation procedure	WG 2 Convenor: Mr. K Harada	Due for ISO systematic review in 2007.
2	8309	IS/91 (02)		Refrigerated light hydrocarbon fluids – Measurement of liquid levels in tanks containing liquefied gases – Electrical capacitance gauges	WG 2 Convenor: Mr. K Harada	To be withdrawn when ISO 18132-2 is published
3	8310	IS/91 (02)		Refrigerated light hydrocarbon fluids – Measurement of temperature in tanks containing liquefied gases – Resistance thermometers and thermocouples	WG 2 Convenor: Mr. K Harada	Due for ISO systematic review in 2007.
4*	8311	IS/89 (99)		Refrigerated light hydrocarbon fluids – Calibration of membrane tanks and independent prismatic tanks in ships – Physical measurement	WG 1 Convenor: Mr. K Harada	By the systematic review, the standard was confirmed on 2005-12-19.
5*	8943	IS/91 (96) DIS/05		Refrigerated light hydrocarbon fluids – Sampling of liquefied natural gas – Continuous method	WG 2 Convenor: Mr. K Harada	Under revision following systematic review in 2002. DIS ballot terminates on 2006-05-08.
6	9091-1	IS/91 (02)		Refrigerated light hydrocarbon fluids – Calibration of spherical tanks in ships – Part 1: Stereo-photogrammetry	WG 1 Convenor: Mr. K Harada	Due for ISO systematic review in 2007.
7	9091-2	IS/92 (02)		Refrigerated light hydrocarbon fluids – Calibration of spherical tanks in ships – Part 2: Triangulation measurement	WG 1 Convenor: Mr. K Harada	Due for ISO systematic review in 2007.
8	10574	IS/93 CD./00		Refrigerated light hydrocarbon fluids – Measurement of liquid levels in tanks containing liquefied gases – Float-type level gauges	WG 2 Convenor: Mr. K Harada	To be withdrawn when ISO 18132-2 is published
9	13398	IS/97 (02)		Refrigerated light hydrocarbon fluids – Liquefied natural gas – Procedure for custody transfer on board ship	WG 3 Convenor: Mr. K Harada	Due for ISO systematic review in 2007.

No.	ISO	Status	Related API Chapter	Title	ISO/TC 28/SC 5	Additional comments
10	13689	IS/01	3.5	Refrigerated light hydrocarbon fluids – Measurement of liquid levels in tanks containing liquefied gases – Microwave-type level gauges	WG 2 Convenor: Mr. K Harada	To be withdrawn when ISO 18132-2 is published
11*	18132-1	FDIS/05	17.10	Refrigerated light hydrocarbon fluids – General requirements for automatic levels gauges – Part 1: Gauges onboard ships carrying liquefied gases	WG 2 PL = Mr. K Harada	IS is published on 2006-1-15
12	18132-2	WD/05		Refrigerated light hydrocarbon fluids – General requirements for automatic levels gauges – Part 2: Gauges in refrigerated-type shore tanks	WG 2 PL = Mr. K Harada	1 <sup>st</sup> WD will be circulated on Feb. 2006



**MODIFICATION OF THE TITLE AND SCOPE  
OF AN ISO TECHNICAL(SUB) COMMITTEE  
MODIFICATION DES TITRE ET DOMAINE  
DES TRAVAUX D'UN COMITE TECHNIQUE**

**ISO/TC 28/SC5**

Please complete and return this form to the ISO Central Secretariat  
Veuillez compléter et renvoyer ce formulaire au Secrétariat central

Current title of the SC  
Titre actuel SC

Measurement of light hydrocarbon fluids

New title of the SC  
Nouveau titre du SC

Measurement of refrigerated light hydrocarbon fluids and non-petroleum based liquefied fuels

Current scope of the SC  
Domaine des travaux actuel du SC

Not defined

Proposed scope of the SC  
Domaine des travaux proposé du SC

Measurement, calibration of ship/shore tanks and gauging instruments, and sampling, quantification of refrigerated light hydrocarbon fluids and non-petroleum based liquefied fuels.

Rationale for the modification  
Justification de la modification

Refer to the attachments

Please attach an additional page if needed/ Veuillez joindre une page supplémentaire si nécessaire

**Note: Because proper form for use of SC was not found in the ISO Directives, the form for TC was used amending it appropriately.**

Name and signature/Nom et signature  
Secretary of/Secrétaire de l'ISO/SC

Hisakazu URAOKA

Secretary, ISO/TC28/SC5

Name and signature/Nom et signature  
Chairman of/Président de l'ISO/SC

Hiroo KAWAHARA

Chairman, ISO/TC28/SC5

Date 2006-02-07

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Copy to: TC28/SC5 P/O-members

Rationale for modification of title and designation of scope of work  
(TC28 /SC 5)

2006-02-07

Nowadays activities for environmental conservation are required on a global scale. Under such circumstances, various methods of environmental conservation have been studied and undertaken independently in many countries.

In this connection, technical development of the use of Di-methyl Ether (DME) as a new source of energy has been undertaken in several countries. DME generates neither nitrogen oxide nor carbon monoxide, both well known as the cause of environmental pollution at the time of combustion.

Another benefit of the use of DME as an alternative to petroleum energy is that it can be produced easily from natural gas, coal and biomass, with slight additional development of the existing techniques in the areas of production, transportation, storage and consumption.

In the international trade, like LNG/LPG, DME is transported and stored in liquefied form in cryogenic conditions, using ocean-going tankers. In addition, there is the benefit that costs can be saved by using the basic facilities for LPG for same purposes.

Generally speaking, the main causes of trouble that occurs on international transportation of consignments in bulk are problems of quality and quantity.

To prevent such trouble during transportation or storage, establishment of an international standard, which is agreeable to all concerned nations and parties, is required.

It is anticipated that large-scale international trade of DME will be initiated with a couple of years, so commencement of standardization work for DME transport, etc. is deemed to be timely now.

Anticipating import of DME to Japan in the very near future, parties concerned in Japan have studied aspect of production, storage, sea transportation and consumption of DME, establishing a national project team for the purpose. Consequently, abundant valuable know – how required for handling of DME has been developed in Japan.

Combining this valuable know – how with expertise accumulated through ISO/TC 28/SC 5 activities for example, measurement of liquefied light hydrocarbon fluids, SC5 is confident about handling standardization work of DME.

Unfortunately, the current title given to SC5 does not clearly identify whether or not the SC5 brief includes work related to chemical compounds such as DME. In addition, somehow the SC5 scope of work has not been defined.

Representing SC5, the secretary of SC5 strongly proposes modification of the SC5 title, and proper identification of the scope of work to enable SC5 standardization work for DME.

<u>Current title</u>	<u>New title proposed</u>
Measurement of light hydrocarbon fluids	Measurement of refrigerated light hydrocarbon fluids and non-petroleum based liquefied fuels

<u>Current scope of work</u>	<u>Scope of work proposed</u>
Not defined	Measurement, calibration of ship/shore tanks and gauging instruments, and sampling, quantification of refrigerated light hydrocarbon fluids and non-petroleum based liquefied fuels

Fortunately, there are no remarkable differences in the practical techniques needed in transportation and storage or in the general precautions for handling of DME and LNG/LPG, which SC5 is currently handling.

Hisakazu URAOKA  
Secretary to ISO/TC 28/SC 5