

IDENTIFIED STANDARDS BY AFD – ARE ISO/TC 197 APPLICABLE IN EUROPE

CEN MEETING - BRUSSELS

Hervé Barthélémy – October 25, 2013



Information classification

■ Diffusion list

XXX YYY ZZZ

■ Scope and Purpose

Date	25.01.13
Contents	XXX
Limits	XXX
Version	XXX
Comments	XXX
XXX	
1)	XXX
2)	YYY

Prepared by	Reviewed by	Approved by
Hervé Barthélémy Function1 Signature1 when required	Name2 Function2 Signature2 when required	Name3 Function3 Signature3 when required

■ Information Owner: Hervé Barthélémy

■ Information Classification:



Classification:

Sensitivity	Definition	IM examples of documents
●INTERNAL (default level)	Information intended for wide-spread diffusion within Air Liquide; protected by internal standard common rules of Air Liquide. Unauthorized disclosure would have a "Low" impact ¹ on the company.	<ul style="list-style-type: none"> ▪ WIKIM content ▪ Operating Model Handbooks ▪ Intranets

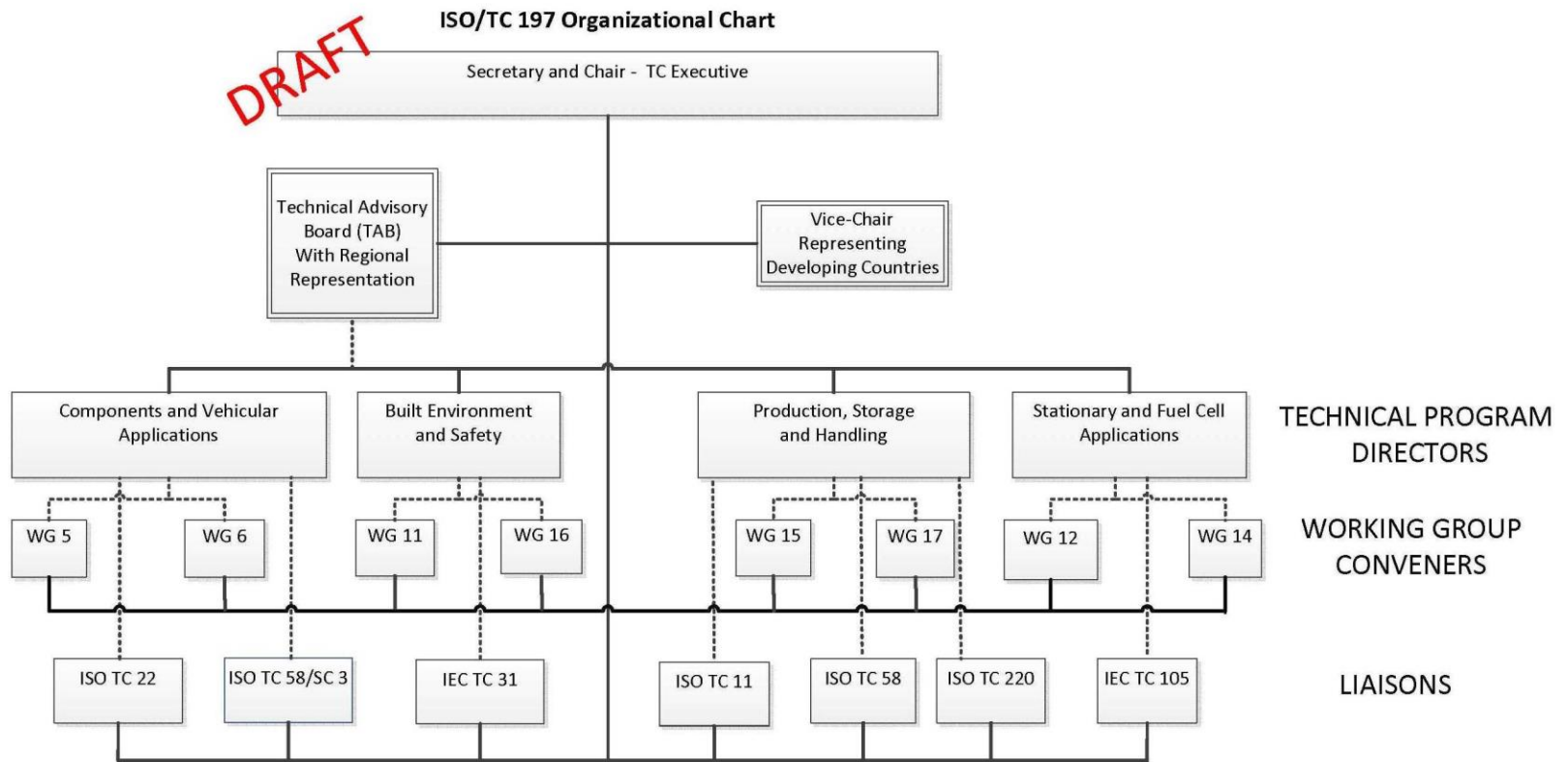
Source: IM-WBL Sensitive Information Procedure v1b

Handling Rules

	●INTERNAL (default level)
Labelling	<p>“●INTERNAL” should be labelled on all electronic and physical documents.</p> <p>The document header should include the name of the business owner.</p>
Electronic Storage Location	All except external public storage (such as public file-sharing or web servers).
Electronic Storage Protection	Password authentication.
Physical Storage Protection	Take reasonable precautions to restrict access.
Granting of Access	<p>READ: Air Liquide employees.</p> <p>UPDATE: Information owner designates by role.</p>
Electronic Transmission	Use of corporate network and email.
Faxing	Take reasonable precautions to restrict access and confirm delivery to recipient.
Mailing	No restrictions.
Copying	<p>In-house copying preferred; shred or place spoils and overruns in proprietary waste</p> <p>If outside copying is used, original should be returned to the company and spoils should be destroyed by the supplier</p>
Destruction Method	Shred or place in proprietary waste.

Source: IM-WBL Sensitive Information Procedure v1b

ISO/TC 197 ORGANIZATIONAL CHART



Legend:

- Solid line — Administrative reporting
- Dash line - - - - - Technical input, coordination and collaboration

2013-01-15

ISO/TC 197 TECHNICAL ADVISORY BOARD (TAB)



Andrei Tchouvelev
Chair



Jim Ferrero
Secretary

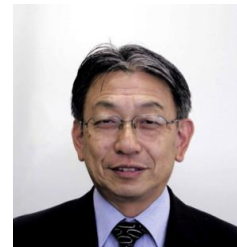
Vacant,
Vice-Chair for
Developing
Countries
Secretary



Hervé Barthélémy
TPD of Production
Storage and
Handling



Jay Keller
TPD of Built
Environment
and Safety



Kazuo Koseki
TPD of Stationary
and FC
Applications



Craig Webster
TPD of
Components and
Vehicular
Applications

ISO/TC 197- WORKING GROUPS

Working Group	Title
TAB 01	Technical Advisory Bord
WG 5	Gaseous hydrogen land vehicle refuelling connection devices
WG 8	Hydrogen generators using water electrolysis process
WG 9	Hydrogen generators using fuel processing technologies
WG 10	Transportable gas storage devices - Hydrogen absorbed in reversible metal hydride
WG 12	Hydrogen Fuel - Product Specification - PEM fuel cell applications for road vehicles
WG 13	Hydrogen detection apparatus - Stationary applications
WG 14	Hydrogen fuel - Product Specification - Proton exchange membrane (PEM) fuel cell applications for stationary appliances
WG 15	Gaseous hydrogen - Cylinders and tubes for stationary storage
WG 16	Basic considerations for the safety of hydrogen systems
WG 17	Pressure swing adsorption system for hydrogen separation and purification

ISO/TC 197 - STANDARDS IN PROGRESS

Reference	Document title
ISO 14687-3	Hydrogen Fuel — Product Specification — Part 3: Proton exchange membrane (PEM) fuel cell applications for stationary appliances
ISO/15916	Basic considerations for the safety of hydrogen systems
ISO/DIS 15399	Gaseous Hydrogen — Cylinders and tubes for stationary storage
ISO/NP 17971	Pressure swing adsorption system for hydrogen separation and purification

ISO/TC 197 – NWIPs and NEW WGs

- Land vehicle fuel tanks
- Land vehicle fuel tanks - TPRDs
- Fueling stations - Dispensers
- Fueling stations - Valves
- Fueling stations - Compressors
- Fueling stations - Hoses
- Fueling stations - Fittings
- Fueling stations

ISO/TC 197 – PUBLISHED STANDARDS

Reference	Document title
ISO 13984:1999	Liquid hydrogen — Land vehicle fuelling system interface
ISO 14687-1:1999	Hydrogen fuel - Product specification - Part 1: All applications except proton exchange membrane (PEM) fuel cell for road vehicles
ISO 13985:2006	Liquid hydrogen — Land vehicle fuel tanks
ISO 16110-1:2007	Hydrogen generators using fuel processing technologies — Part 1: Safety
ISO 16111:2008	Transportable gas storage devices — Hydrogen absorbed in reversible metal hydrides
ISO 22734-1:2008	Hydrogen generators using water electrolysis process — Part 1: Industrial and commercial applications
ISO 16110-2:2010	Hydrogen generators using fuel processing technologies — Part 2: Test methods for performance

ISO/TC 197 – PUBLISHED STANDARDS

Reference	Document title
ISO 26142:2010	Hydrogen detection apparatus — Stationary applications
ISO 22734-2:2011	Hydrogen generators using water electrolysis process — Part 2: Residential applications
ISO 17268:2012	Gaseous hydrogen land vehicle refuelling connection devices
ISO 14687-2:2012	Hydrogen Fuel — Product Specification — Part 2: Proton exchange membrane (PEM) fuel cell applications for road vehicles
ISO/PAS 15594:2004	Airport hydrogen fuelling facility operations
ISO/TR 15916:2004	Basic considerations for the safety of hydrogen systems
ISO/TS 20100:2008	Gaseous hydrogen – Fuelling stations
ISO/TS 15869:2009	Gaseous hydrogen and hydrogen blends — Land vehicle fuel tanks