



ISO/TC 207 N667
Secretariat ISO/TC 207/SC5 Life
Cycle Assessment

ISO/TC 207/SC5 N 224

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Le comité membre français :

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Purpose

**Report of secretariat for the 14th meeting of ISO/TC207/SC5, Friday
3rd September 2004, Buenos aires**

Association

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Comments

The updating appears in grey.

Action

For your information

Association reconnue

d'utilité publique

Comité membre français

du CEN et de l'ISO

Siret 775 724 818 00015

Code NAF 751 E

ISO/TC 207/SC 5 Secretariat report, updated in May 2004 (updated appears in grey compared to last SC 5 meeting)

1. Background

ISO/TC 207 has been created as a result of the decision that international standards were required in the field of environmental management, in order to prepare such standards.

ISO/TC 207 held its first meeting on 2 and 3 June 1993 and created its subcommittee 5 to prepare standards for life cycle assessment:

Priority 1 item: development of a standard on general principles and framework for life cycle assessment.

Priority 2 item: development of standards related to specific aspects of inventory analysis, impact assessment and interpretation.

2. Title and scope

The first meeting of the subcommittee was held in Paris on 4 and 5 November 1993, and adopted the following:

Title: life cycle assessment

Scope: standardization in the field of life cycle assessment as a tool for environmental management of product and service systems. It encompasses the assessment of impacts on the environment from the extraction of raw materials to the final disposal of waste.

3. Working structure

WG1
(disbanded)

Life cycle assessment - General principles and procedures

Convener: *Mr Frank Consoli (USA)*

Priority items covered: **1 ISO 14040**

Scope Development of principles and guidelines to harmonize the practice for undertaking and reporting LCA studies in a responsible, transparent and consistent manner.

Task To prepare a draft standard for general principles and guidelines for LCA. This task will be accomplished through close cooperation with the other working groups. In areas under the scope of operation of the other working groups, WG1 will receive their input.

WG2
(disbanded)

Life cycle inventory analysis - general

Convener: *Mr Hans-Jürgen Klüppel (Germany)*

WG3
(disbanded)

Life cycle inventory analysis - Specific

Convener: *Dr Makoto Akai (Japan)*

The two WGs that were planned initially should keep in very close relationship and should even meet jointly at least in the short term.

Priority items covered: **1, 2 ISO 14041, ISO/TR 14049, ISO/TS 14048**

Scope Development of methodology to perform and report on Life Cycle Inventory

Task A) To develop a contribution for the general principles and procedures being prepared by WG1, including an outline for sections "goal definition and scoping" and "inventory analysis"

B) To develop expanded descriptions of subsections within "Goal definition and scoping" and "Inventory analysis" with an outline of practices and rules to serve as an initial document.

WG4
(disbanded)

Life cycle impact assessment

Convener: Mr Sven Olof Ryding (Sweden)

Priority items covered: 1, 2 ISO 14042, ISO/DTR 14047

Scope Development of generally agreed methodological principles for the assessment of the environmental impacts of product and service systems based on life cycle inventory data.

Task A) To submit a draft input for section "Impact assessment" to the overall standard for LCA.
B) To review the concepts and techniques for assessing the impacts on the environment associated with product systems.
C) To consider the feasibility of harmonization of methods in the areas of impact assessment.

WG5
(disbanded)

Life cycle assessment interpretation

Convener: Mr Henri Lecouls (France)

Priority items covered: 1, 2 ISO 14043

Scope To prepare a generic systematic procedure for interpreting information provided by inventory analysis and/or impact assessment of a system, in order to meet the requirements of the application as described in the goal and scope of the study.

Task To study different applications of LCA and the interaction with LCA methodology in order to identify different approaches to interpretation within the LCA study.

WG 6 established in October 2003	Revision of core standards of ACV : 14040, 14041, 14042, 14043 Convenors : M. Matthias Finkbeiner (Germany) M. Atsushi Inaba (Japan) M. Reginald Tan (Singapore) Secretary : Kim Christiansen (Denemark) Scope : Revision of the standards ISO 14040, 14041, 14042 and 14043 with the objective of improving readability, while leaving the requirements and technical content unaffected, except for errors and inconsistencies. It is the intention to : <ul style="list-style-type: none">• Gather all requirements ("shalls") in one new standard, keeping the structure of "goal and scope", "inventory", "impact assessment" and "interpretation" as separate chapters,• Maintain 14040 as a framework documents, but transferring all requirements ("shalls") to the new standard, adding to ISO 14040 a requirement ("shall") of compliance with the requirements ("shall") of the new standard.
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4. Project planning

4.1. Summary

Priority item # 1 is considered as achieved successfully : ISO 14040 has been approved by the ISO/TC 207/SC5 members and by the members of CEN voting in parallel. The document has been published in June 1997.

Priority item # 2 is considered as achieved in conformity with the initial planning. ISO 14041, ISO 14042 and ISO 14043 have been approved by the ISO/TC 207/SC5 members and by the members of CEN voting in parallel. The documents have been published respectively in October 1998, and March 2000. The TR 14049, supported ISO 14041 has been published in March 2000, and ISO/TS 14048 published on 1st April 2002.

The final document for ISO TR 14047 "life cycle impact assessment – Examples of application of ISO 14042" has been published in October 2003.

4.2. Business plan for ISO/TC 207/SC5

Document number		Registration date			Target dates							Work in progress
		30	40	50	CD enquiry		DIS enquiry		Study of comments	FDIS enquiry		Observations
					n°	end of enquiry	From	To		From	To	
ISO 14040	93-11	94-09	96-06	97-05	60	96-02	96-06-13	96-11-13	96-03 Brazil	97-03-13	97-05-13	Publication June 1997 Confirmed in 2002
ISO 14041	93-11	96-07	97-04	98-01	82	96-10	97-06-12	97-11-12	97-12 Madrid	98-06	98-08	Publication October 1998 Vote on systematic review is under process
ISO 14042	93-11	97-07	98-02	00-01	112	97-10	98-11-12	99-04-12	99-06 Seoul	99-11-25	00-01-25	Publication March 2000
ISO 14043	93-11	97-07	98-02	00-01	117	97-10	98-11-05	99-04-05	99-06 Seoul	99-11-25	00-01-25	Publication March 2000
ISO/TR 14047	98-10	00-06	-	01-12	157	01-06-15	-	-	-	-	-	Publication in October 2003
ISO/TS 14048	98-03	99-09	00-09	01-03	154	01-05-30	-	-	-	-	-	Publication April 2002
ISO 14049	97-11	-	-	spring 98	127	98-11-30	-	-	-	-	-	Publication March 2000
ISO 14040 Revision of ISO 14040, 14041, 14042, 14043	03-10	04-04			216 rev	04-07-15	05-09			06-06		First meeting held 1 st and 2 nd December 2003. CD submitted for comments from 15 th April 2004 to 25 th July 2004.
ISO 14044 Revision of 14040, 14041, 14042, 14043	03-10	04-04			217 rev	04-07-15	05-09			06-06		First meeting held 1 st and 2 nd December 2003. CD submitted for comments from 15 th April 2004 to 25 th July 2004.

Target dates : 30 Committee draft (CD) - 40 Draft Standards (DIS) - 50 Final Draft Standard (FDIS)

Standard	WG	Title	Stage	Target date Publication
ISO 14040	1	Environmental management - Life cycle assessment - Principles and framework	Published in June 1997	May 98
ISO 14041	2 & 3	Environmental management - Life cycle assessment - Goal and scope definition and inventory analysis	Published in October 1998	December 98
ISO 14042	4	Environmental management - Life cycle assessment - Life cycle impact assessment	Published in March 2000	March 2000
ISO 14043	5	Environmental management - Life cycle assessment - Life cycle Interpretation	Published in March 2000	March 2000
ISO/TR 14047	4	Environnemental management – Life cycle impact assessment – Examples of application of ISO 14042	Technical Report – Published in October 2003	December 2001
ISO/TS 14048	2&3	Environmental management – Life cycle assessment – LCA data documentation format	Published in April 2002	April 2002
ISO/TR 14049	3	Illustrative examples on how to apply ISO 14041 – Life cycle assessment – Goal and scope definition and inventory analysis	Published in March 2000	March 2000
New ISO 14040	6	Environmental management – Life cycle assessment – Principles and framework (revision of ISO 14040, 14041, 14042, 14043)	Registered as ISO/CD (stage 30) April 2004	30 September 2006
ISO 14044	6	Environmental management – Life cycle assessment – Requirements and guidelines (revision of ISO 14040, 14041, 14042, 14043)	Registered as ISO/CD (stage 30) April 2004	30 September 2006

4.3. Meetings

Group	#	Date	Location	Milestone
SC 5	1	93-11-4/5/td	Paris, France	-
WG 1	1	93-11-4/5	Paris, France	title and scope
WG 2	1	93-11-4/5	Paris, France	initial program
WG 3	1	93-11-4/5	Paris, France	and organization
WG 4	1	93-11-4/5	Paris, France	of work
WG 5	1	93-11-4/5	Paris, France	
WG 1	2	94-03-9/10	Philadelphia USA	discussion of framework doc.
WG 2&3 (PG 1)		94-03-10/11	Philadelphia USA	discussion of LCI framework
WG 1 and WG 2&3		94-03-10	Philadelphia USA	communication
WG 5	2	94-03-11	Philadelphia USA	conceptual discussion
WG 1	3	94-05-10/11	Brisbane Australia	first draft LCA framework
WG 4	2	94-05-11	Brisbane Australia	conceptual discussion
WG 1&4		94-05-10	Brisbane Australia	communication
WG 1	4	94-09-06/07	Nice, France	framework document polishing,
WG 2&3	2	94-09-05/06	Nice, France	detailed discussion, inventory
WG 4	3	94-09-05/06	Nice, France	analysis documents, impact
WG 5	3	94-09-05	Nice, France	assessment, improvement
SC 5	2	94-09-09	Nice, France	upgrading of WD 14 040 to CD
WG 2&3	3	94-10-20/21	Tokyo, Japan	initial drafting of WD 14 041
WG 1	5	95-02-20/21	Berlin, Germany	review comments on CD 14 040
WG 2&3	4	95-02-22/23	Berlin, Germany	drafting of ISO WD 14 041
WG 4	4	95-02-22/23	Berlin, Germany	initial drafting of WD 14 042
WG 5	4	95-02-21	Berlin, Germany	review of results of enquiries
SC 5	3	95-02-24	Berlin, Germany	ISO 14 040 to CD.2 for voting
WG 1	6	95-06-25 & 27	Oslo, Norway	Review of comments
WG 2&3	5	95-06-26/27	Oslo, Norway	drafting of ISO CD 14 041
WG 4	5	95-06-27/28	Oslo, Norway	drafting of ISO WD 14 042
WG 5	5	95-06-28	Oslo, Norway	initial drafting ISO WD 14 043
WG 1	7	95-11-6 & 8	Vancouver, Can.	Drafting ISO DIS 14040
WG 2&3	6	95-11-7 & 9	Vancouver, Can.	Review of comments
WG 4	6	95-11-8 & 9	Vancouver, Can.	Drafting of ISO/WD 14042
WG 5	6	95-11-7	Vancouver, Can.	Drafting of ISO/WD 14043
SC 5	4	95-11-10	Vancouver, Can.	ISO 14040 to final CD (.3)
SC 5	5	96-03-25 & 29	Rio, Brazil	CD 14 040 to enquiry (DIS)
WG 1	8	96-03-25	Rio, Brazil	editorial work on DIS 14 040
WG 2&3	7	96-03-26/28	Rio, Brazil	review comments on CD 14 041
WG 4	7	96-03-27/28	Rio, Brazil	discussion of WD 14 042
WG 5	7	96-03-25/26	Rio, Brazil	preparation of WD 14 043
WG 2&3	8	96-06-12/14	Frankfurt, Germ.	Review comments on CD 14 041
Alignment meeting		96-12-11	Miami, USA	align DIS 14 040 with 14 041
WG 2&3	9	96-12-09/12	Miami, USA	review comments CD 14 041.2
WG 3	1	96-12-13	Miami, USA	definition of work programme
WG 4	8	96-12-11/13	Miami, USA	preparation of CD 14 042
WG 5	8	96-12-09/11	Miami, USA	preparation of CD 14 043
SC 5	6	97-04-19/24	Kyoto, Japan	review new work items, long term structure and strategy
WG 3	2	97-04-22/23	Kyoto, Japan	drafting of illustrative document
WG 4	9	97-04-20/21	Kyoto, Japan	review comments on CD 14 042
WG5	9	97-04-22/23	Kyoto, Japan	review comments on CD 14 043
SC 5	7	97-11-17/21	Madrid, Spain	upgrading of CD 14 042 and 43 as enquiry drafts (DIS)
WG 2&3	10	97-11-10/12	Madrid, Spain	review votes on DIS 14 041
WG 3	3	97-11-11/13	Madrid, Spain	finalize draft illustrative doc.
WG 4	10	97-11-11/13	Madrid, Spain	review votes on CD 14 042.2
WG 5	10	97-11-12/13	Madrid, Spain	review votes on CD 14 043.2
WG 4	11	98-01-21/23	Stockholm	review votes on CD 14 042.2

SC 5	8	98-06-15/19	San Francisco	upgrading of CD 14042 and 43 as enquiry drafts (DIS)
WG 3	4	98-06-16/18	San Francisco	review votes on FDIS 14 041
WG 4	12	98-06-16/17	San Francisco	review comments on CD 14 042.3
WG 5	11	98-06-17pm/18/19am	San Francisco	review draft CD 14 043.Rev2
WG 4	13	98-09-11/12/13	London	review comments after the meeting in San Francisco on CD 14 042.3
WG2&3 TF	1	99-02/22/23/24	Stockholm	Drafting on ISO/WI 14048
SC 5	9	99-05-31am and 99-06-04pm	Seoul	Enquiry drafts ISO/DIS 14042 and 14043
WG2&3 TF	2	99-06-3pm/4am/5	Seoul	Drafting on ISO/WI 14048
WG 4	14	99-06-1/2	Seoul	Review comments on ISO/DIS 14042
WG 4 PG	1	99-06-3/4(am)/5	Seoul	Drafting on ISO/TR 14047
WG 5	12	99-06	Seoul	Review comments on ISO/DIS 14043
WG 2 TF	3	00-02-13/14	Paris	Drafting on ISO/WI 14048
WG 4 PG	2	00-01-17/18/19	Paris	ISO/TR 14047
SC 5	10	00-06-12am and 00-06-16	Stockholm	Drafts ISO 14047 and 14048
WG 4 PG	3	00-06-15 and 00-06-16am and 00-06-17am	Stockholm	ISO/TR 14047
WG2&WG 3TF	4	00-06-13/10	Stockholm	Review comments on ISO/CD 14048
WG2&WG3 TF	5	00-12-04/05	Toronto	Preparation of ISO/CD 14048.2
WG4 PG	4	01-03-27/29	London	Preparation of ISO/DTR 14047
SC5	11	01-07-02pm and 08pm	Kuala Lumpur	
WG2&WG3 TF	6	01-07-02/03/04am	Kuala Lumpur	Preparation of ISO/TS 14048.2
WG4 PG	5	01-07-04pm/05/06am	Kuala Lumpur	Preparation of ISO/TR 14047
SC5	12	02-06-13	Johannesburg	Future strategy of SC 5
SC 5 ad hoc group	1	03-02-04/05	Frankfurt	Revision of 14040's
SC 5	13	03-07-03	Bali	Revision of ISO 14040, 14041, 14042; 14043
WG 6	1	03-12-1/2	Geneva	Revision of ISO 14040, 14041, 14042; 14043
WG 6	2	29-31/03/04	Washington	Revision of ISO 14040, 14041, 14042; 14043
SC5	14	03-09-2004	Buenos Aires	Revision of ISO/TS 14048
SC5/WG6	3	30/08 – 2/09 2004	Buenos Aires	Revision of ISO 14040's

5. Last events

SC5 current work

For the last years, and following a study on the implementation of the ACV standard, SC5 has studied its future strategy and decides in 2002 to establish an ad hoc group to explore the possibility and the boundaries of a revision of ISO 14040 series.

This ad hoc group met once and reached a consensus on the need to start the revision of ISO 14040, 14041, 14042 and 14043, and prepared the corresponding draft new work item proposals.

ISO/TC 207/SC5 has approved the report of the ad hoc group on how the revision of ISO 14040's shall be conducted:

- The boundaries of the revision are to improve the readability of ISO 14040's, while leaving the requirements and technical content unaffected, except for errors and inconsistencies.
- The content of the revision is to:
 - o Gather all requirements in one new standard, keeping the structure of "goal and scope", "inventory", "impact assessment" and "interpretation" as separate chapters,
 - o Maintain 14040 as a framework document, but transferring all requirements to the new standard, adding to 14040 a general requirement of compliance with the new requirement standard.

Following the recommendations of the ad hoc group, SC 5 decided to submit the two NWIP for ballot to its P-members together with an invitation to nominate experts.

These NWIPs have been accepted on 15th October 2003 by 26 positive votes. According to resolution 7/2003, a new working group has been established to conduct the revision of ISO 14040, ISO 14041, ISO 14042, and ISO 14043. This WG 6 will be co-chaired by Mr. Finkbeiner, from Germany, Mr. Inaba from Japan, and Mr. Tan from Singapore. Denmark will provide a secretarial support. The first meeting of this new WG 6 has been held on 1st and 2nd of December 2003 in Geneva.

61 experts have been registered to participate to the new working group, representing 24 P-members (including 8 developing countries) and 1 O-member. 20 experts from 12 countries (including 3 developing countries) have participated to the first meeting, 15 experts from 9 countries (including 1 developing country).

WG 6 has prepared the ISO/CD 14040 and ISO/CD 14044 and these CD has been submitted to comments until July 15th, 2004.

During its 13th meeting, ISO/TC207/SC5 expresses the need to ensure consistency with LCA standard when life cycle approach is used in preparation of other standards. So, in addition to the existing liaison with ISO/TC 207/WG 5 "climate change", SC5 appoints 4 LCA experts to participate to the WG 5 work and to help in ensuring consistency with LCA standards. SC 5 experts have expressed comments on WD2 ISO 14064-1 and 14064-2.

Sweden has proposed to initiate the revision of ISO/TS 14048 Life cycle assessment – LCA data documentation format to published this document as International standard. Ballot on this NWIP is submitted to SC 5 members until July 28th 2004 and results will be discussed at the 14th meeting of SC5.

6. Membership

6.1. Participating members (42)

Argentina (IRAM)	Germany (DIN)	Poland (PKN)
Australia (SAI)	Hungary (MSZT)	Portuguese (IPQ)
Austria (ON)	Indonesia (BSN)	Serbia and Montenegro (ISSM)
Belgium (IBN)	Italy (UNI)	Singapore (SPRING SG)
Brazil (ABNT)	Japan (JISC)	South Africa (SABS)
Bulgaria (BDS)	Korea (Republic of) (KATS)	Spain (AENOR)
Canada (SCC)	Malaysia (DSM)	Sri Lanka (SLSI)
Chile (INN)	Malta (MSA)	Sweden (SIS)
Cuba (NC)	Mauritius (MBS)	Switzerland (SNV)
Czech Republic (CSNI)	Mexico (DGN)	Thailand (TISI)
Denmark (DS)	Netherlands (NEN)	United Kingdom (BSI)
Egypt (EOS)	New Zealand (SNZ)	United States of America (ANSI)
Finland (SFS)	Norway (NSF)	Uruguay (UNIT)
France (AFNOR)	Philippines (BPS)	Zimbabwe (SAZ)

6.2. Observer members (19)

Armenia (SARM)	Hong-Kong (ITCHK SAR)	Turkey (TSE)
Belarus (BELST)	Iceland (IST)	Uganda (UNBS)
China (SACS)	Ireland (NSAI)	Ukraine (DSTU)
Colombia (INCONTEC)	Israel (SII)	Venezuela (FONDONORMA)
Costa Rica (INTECO)	Mongolia (MNCMS)	Viet Nam (TCVN)
Croatia (DZNM)	Slovakia (SUTN)	
Ethiopia (QSAE)	Trinidad and Tobago (TTBS)	

Developing countries participating: 18 P-members, 13 O-members.

6.4 Liaisons

Internal (3):	ISO/TC 203 - Technical energy systems
	ISO/TC 207/WG 4 Environmental communication
	ISO/TC 207/WG 5 Climate change

External A (14²)

CEFIC	European Chemical Industry Council
CI	Consumers International
EC	European Commission
ECOS	European Environmental Citizens Organization for Standardisation
EURIMA	European Insulation Manufacturers Association of Mineral Wool
GEN	Global Ecolabelling Network
ICC	International Chamber of Commerce
ICT	International Council of Tanners
IISI	International Iron and Steel Institute
IJSG	International Jute Study Group
IAI - Aluminium	International Aluminium Institute
INEM	International Network Environmental Management
SETAC	Society of Environmental Toxicology and Chemistry
WSI	World Stewardship Institute

External B (2)

EURATEX	European Apparel and Textile Association
WTO	World Trade Organization/Organisation Mondiale du Commerce