

**Status report on the work of
ISO/TC 67/WG 7 Materials for use in H₂S
containing environments in oil and gas production
for ISO/TC 67 plenary meeting, 1-2 October 2009**

(Date: 2009-08-31)

1 Convener: Prof. Dr. rer. nat. Günter **SCHMITT**

For contact details see experts' roster in clause 6.

1a Secretary: Helmut **WOLFF**

For contact details see experts' roster in clause 6.

1b Project leaders for ISO 15156-1, ISO 15156-2 and ISO 15156-3:

Dr. Derek **MILLIAMS** and Robert (Bob) **TUTTLE**.

For contact details see experts roster in clause 6.

2 List of items

2.1 Published standards:

ISO 15156-1 Petroleum and natural gas industries – Materials for use in H₂S containing environments in oil and gas production – Part 1: General principles for selection of cracking-resistant materials
ISO 15156-1 published 2001-12

Technical Corrigendum 1 to

ISO 15156-1 Petroleum and natural gas industries – Materials for use in H₂S containing environments in oil and gas production – Part 1: General principles for selection of cracking-resistant materials
Technical Corrigendum 1 published 2005-09

Technical Circular 1 to

ISO 15156-1 Petroleum and natural gas industries – Materials for use in H₂S containing environments in oil and gas production – Part 1: General principles for selection of cracking-resistant materials
Technical Circular 1 published 2007-12

ISO 15156-2 Petroleum and natural gas industries – Materials for use in H₂S containing environments in oil and gas production – Part 2: Cracking resistant carbon and low alloy steels, and the use of cast irons
ISO 15156-2 published 2003-12

Technical Corrigendum 1 to

ISO 15156-2 Petroleum and natural gas industries – Materials for use in H₂S containing environments in oil and gas production – Part 2: Cracking resistant carbon and low alloy steels, and the use of cast irons
Technical Corrigendum 1 published 2005-09

Technical Circular 1 to

ISO 15156-2 Petroleum and natural gas industries – Materials for use in H₂S containing environments in oil and gas production – Part 2: Cracking resistant carbon and low alloy steels, and the use of cast irons
Technical Circular 1 published 2007-12

ISO 15156-3 Petroleum and natural gas industries – Materials for use in H₂S containing environments in oil and gas production –Part 3: Cracking resistant CRAs (corrosion-resistant alloys) and other alloys
ISO 15156-3 published 2003-12

Technical Corrigendum 1 to

ISO 15156-3 Petroleum and natural gas industries – Materials for use in H₂S containing environments in oil and gas production –Part 3: Cracking resistant CRAs (corrosion-resistant alloys) and other alloys
Technical Corrigendum 1 published 2005-02

Technical Corrigendum 2 to

ISO 15156-3 Petroleum and natural gas industries – Materials for use in H₂S containing environments in oil and gas production –Part 3: Cracking resistant CRAs (corrosion-resistant alloys) and other alloys
Technical Corrigendum 2 published 2005-09

Technical Circular 1 to

ISO 15156-3 Petroleum and natural gas industries – Materials for use in H₂S containing environments in oil and gas production –Part 3: Cracking resistant CRAs (corrosion-resistant alloys) and other alloys
Technical Circular 1 published 2007-12

Technical Circular 2 to

ISO 15156-3 Petroleum and natural gas industries – Materials for use in H₂S containing environments in oil and gas production –Part 3: Cracking resistant CRAs (corrosion-resistant alloys) and other alloys
Technical Circular 2 published 2008-11

New draft editions of ISO 15156-1, -2 and -3 have been produced in the form of Minor Revisions intended for FDIS review only. Although only Parts 2 and 3 were due for renewal in 2008, there is a feeling in the industry that all three documents should appear together. All changes that have already been approved by ISO 15156 MP, NACE TG 299 and ISO/TC 67/WG 7 and published as Technical Corrigenda or Technical Circulars have been incorporated. In addition, typographical errors have been corrected. The use of the term "pre-qualified materials" in Part 1 has also been discontinued.

FDIS vote on ISO 15156-1, -2 and -3 was initiated on 2009-05-28 and will be closed on 2009-08-28.

2.2 Projects

ISO 23936-1 Petroleum and natural gas industries — Non-metallic materials in contact with media related to oil and gas production — Part 1: Thermoplastics

ISO/TC 67/WG 7/TG "Non-metallics" with 27 nominated experts from 7 countries was working on part 1 of the ISO 23936 standards series.

The ISO/FDIS 23936-1 voting closed on 2009-02-11. ISO 23939-1 has been approved by 80% of the ISO/TC 67 P-members and ISO 23939-1 was published in April 2009.

The identical prEN ISO 23936-1 has also been approved by CEN/TC 12 as prEN ISO 23936-1 on European level (CEN) and will be published as EN ISO 23936-1.

Project leader: Prof. Dr. Günter **SCHMITT**; Germany

Agreed target dates:

Stage 20.20	(first WD)	2005-05
Stage 30.20	(circulation of CD)	2006-04 (rev. date acc. to resolution 7, taken at the 2006 plenary meeting of ISO/TC 67, VeraCruz)
Stage 40.20	(circulation of DIS ballot)	2007-04
Stage 50.20	(circulation of FDIS ballot)	2008-09
Stage 60.60	(publication)	2009-04

ISO/WD 23936-2 Petroleum and natural gas industries — Non-metallic materials in contact with media related to oil and gas production — Part 2: Elastomers

ISO/TC 67/WG 7/TG "Non-metallics" proceed the work on ISO/WD 23936-2 during the 11th meeting in Edinburgh (2008-09-05/06) and the 12th meeting in Atlanta (2009-03-20/21), based on the updated NORSOK M-710.

Target dates:

ISO/PWI 23936-2 was registered at ISO/CS as preliminary work item (PWI) in 2004.

Depending on the progress of the 13th meeting in Nice (2009-09-04/05) it is planned to apply for a New Work Item Proposal at the ISO/TC 67 plenary meeting, 1-2 October 2009 including the favoured fast-track procedure: Proposal stage, Enquire stage (DIS), Approval stage (FDIS) and Publication stage.

ISO/WD 23936-3 Petroleum and natural gas industries — Non-metallic materials in contact with media related to oil and gas production — Part 3: Thermosets

ISO/PWI 23936-3 is registered at ISO/CS as preliminary work item (PWI) with work to be initiated once Part 2 is mature.

ISO/WD 23936-4 Petroleum and natural gas industries — Non-metallic materials in contact with media related to oil and gas production — Part 4: Fibre reinforced composites

ISO/PWI 23936-4 is registered at ISO/CS as preliminary work item (PWI) with work to be initiated once Part 3 is mature.

ISO/WD 23936-5 Petroleum and natural gas industries — Non-metallic materials in contact with media related to oil and gas production — Part 5: Other nonmetallic materials

ISO/PWI 23936-5 is registered at ISO/CS as preliminary work item (PWI) with work to be initiated once Part 4 is mature.

3 Specific areas of concern and progress of work:

ISO 15156 series:

For interpretation and maintenance of parts 1, 2 and 3 of ISO 15156 a Maintenance Panel (MP) is operating to answer questions and to propose amendments for these parts based on new developments as well as on proposals coming from users of these standards.

WG 7 recognizes that the MP as well as the joint group of WG 7 plus ISO 15156 Oversight Committee organized by NACE TG299 are doing an excellent job with inputs from all over the world to improve and update the ISO 15156 standards series. The next meeting of the MP and the next meeting of the joint WG 7 & OSC experts will be held in San Antonio, TX/USA on 2010-03-14.

ISO/TMB have confirmed a Maintenance Agency (secretariat: DIN) as well as the operational procedure for this group by resolution TMB 66/2007.

Nomination of national experts for participation in the work of ISO/TC 67/WG 7

Regarding the combined meetings between ISO/TC 67/WG 7 and NACE TG 299 and the member structures that have evolved over time, ISO/TC 67/WG 7 members agreed on the current membership procedure during the 27th meeting in Atlanta.

New Experts, who want to participate in ISO/TC 67/WG 7 have to ask their national member body for official nomination. The user registration and role assignment for ISO/TC 67/WG 7 has to be carried out via the electronic platform: ISO Global Directory (ISO GD). Only the responsible national member body is allowed to nominate experts in ISO GD.

The ISO GD system transfers the contact details to the DIN database and is therefore the basis for the ISO/TC 67/WG 7 member lists and provides LiveLink access to the nominated experts. The DIN secretariat is not able to add experts manually.

ISO/TC 67/WG 7 will not restrict the maximum number of experts nominated by each national member body. Guests are welcome and as far as the decision is unanimous we will continue to proceed without a formal count of votes. If there are different opinions and consensus cannot be reached only the vote of WG7 voting members will be counted.

4 Meetings:

WG 7:

1 st :	1996-03-28	Denver, Colorado/USA
2 nd :	1996-09-27	Nice, France
3 rd :	1997-03-09	New Orleans, Louisiana/USA
4 th :	1997-09-26	Trondheim, Norway
5 th :	1998-03-22	San Diego, California/USA
6 th :	1998-10-02	Utrecht, The Netherlands
7 th :	1999-04-25	San Antonio, Texas/USA
8 th :	1999-10-20/21	Washington, DC/USA
9 th :	2000-03-25/26	Orlando, Florida/USA
10 th :	2000-09-09/10	London, United Kingdom
11 th :	2001-03-11	Houston, Texas/USA
12 th :	2001-09-30	Riva del Garda, Italy
13 th :	2002-04-07	Denver, Colorado/USA
14 th :	2002-09-21	Granada, Spain
15 th :	2003-03-18	San Diego, California/USA
16 th :	2003-09-28	Budapest, Hungary
17 th :	2004-03-28	New Orleans, Louisiana/USA
18 th :	2004-09-11	Nice, France
19 th :	2005-04-03	Houston, Texas
20 th :	2005-09-03	Lisbon, Portugal
21 st :	2006-03-12	San Diego, California/USA
22 nd :	2006-09-23	Maastricht, The Netherlands
23 rd :	2007-03-11	Nashville, Tennessee/USA
24 th :	2007-09-08	Freiburg, Germany

25 th :	2008-03-16	New Orleans, Louisiana/USA
26 th :	2008-09-06	Edinburgh, UK
27 th :	2009-03-22	Atlanta, Georgia/USA
28 th :	2009-09-05	Nice, France
29 th :	2010-03-14	San Antonio, TX/USA

TG Non-metallics

1 st :	2004-09-11	Nice, France
2 nd :	2004-09-22	Hanover, Germany
3 rd :	2005-04-02	Houston, Texas/USA
4 th :	2005-06-13	Frankfurt, Germany
5 th :	2005-09-02/03	Lisbon, Portugal
6 th :	2006-03-11/12	San Diego, California/USA
7 th :	2006-09-22/23	Maastricht, The Netherlands
8 th :	2007-03-11/12	Nashville, Tennessee/USA
9 th :	2007-09-08/09	Freiburg, Germany
10 th :	2008-03-15/16	New Orleans, Louisiana/USA
11 th :	2008-09-05/06	Edinburgh, UK
12 th :	2009-03-21/22	Atlanta, Georgia/USA
13 th :	2009-09-04/05	Nice, France
14 th :	2010-03-13/14	San Antonio, TX/USA

5 Liaisons

WG 7:

ISO/TC 156
CEN/TC 262
EFC
NACE

attn. Prof. Dr. Bernd Isecke, BAM, Germany
attn. Mr Phil Jackman, UK
attn. Mr Phil Jackman, UK
attn. Mr Juri Colts, Conoco, USA

TG Non-metallics:

ISO/TC 61/SC 6
ISO/TC 61/SC 6/WG 3

attn. Mr. Franz Berg, DIN, Germany
attn: Mr. Ignazy Jakubowicz, Sweden

6 Working group roster:

Membership list ISO/TC 67/WG 7 "Corrosion resistant materials"

(Revised : 2009-06-10)

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7 Document register

7.1 WG 7

N 1	Resolutions 1 to 7 taken at the 1st meeting of WG 7 in Denver 1996-03-28
N 2	Comments from Mrs. L. Smith on doc. WG 7 N 3
N 3	CEN proposal "Corrosion Protection - Carbon and Low Alloy Steels for use in H ₂ S containing Environments in Oil and Gas Production - Materials Requirements and Test Methods
N 4	Minutes from the 1st meeting of ISO/TC 67/WG 7 in Denver on 1996-03-28
N 5	Draft agenda for 2nd meeting of WG 7 in Nice on 1996-09-27
N 6	Proposal Dr. Milliams on WD 15156-1 Materials for use in H ₂ S containing environments in oil and gas production - Part 1: General principles
N 7	Proposal Task Group Mr Bruckhoff on definition and testing of SOHIC
N 8	Proposal Task Group Mr Tuttle on sour service definition
N 9	Proposal from Task Group Dr. Kermani on laboratory testing of carbon and low alloy steels for resistance to damage in aqueous environments containing H ₂ S
N 10	Minutes on the 2nd meeting of WG 7 in Nice on 1996-09-27
N 11	Proposal from Task Group "Hardness requirements in relation to welding"
N 12	Draft agenda for the 3rd meeting of W'G 7 in New Orleans on 1997-03-09
N 13	Draft ISO/DP 15156-1 Corrosion Protection - Materials for use in H ₂ S containing environments in oil and gas production - Part 1: General principles
N 14	Proposal from Task Group "Definition and testing of SOHIC"
N 15	Minutes on the 3rd meeting of WG 7 in New Orleans on 1997-03-09
N 16	Comments Mr Bhavsar on doc WG 7 N 11
N 17	Comments Mr Bhavsar on doc WG 7 N 13
N 18	Proposal Dr Fassina on hardness requirements in relation to welding
N 19	Proposal Dr Kermani on sour service
N 20	Proposal Mr McIntyre on sour service (comment on doc N 19)
N 21	Draft agenda for the 4th meeting of WG 7 in Trondheim/Norway on 1997-09-26
N 22	Revised proposal Dr. Milliams on ISO/DP 15156-1
N 23	Proposal Mr Bruckhoff on definition of type of failures
N 24	Clause 1.3.1.2 from NACE standard MR0175-97
N 25	Resolutions 1 and 2 from the 4th meeting of ISO/TC 67/WG 7 in Trondheim on 1997-09-26
N 26	Minutes on the 4th meeting of ISO/TC 67/WG 7 in Trondheim on 1997-09-26
N 27	Proposal Mr Crolet on differentiation between HIC, SWC, SSC and SOHIC
N 28	Revised target dates for WG 7 projects ISO 15156-1 to -4 as agreed by ISO/TC 67 at their 7 th meeting in Jakarta on 1997-10-16/17
N 29	Calling notice for the 5th meeting of WG 7 in San Diego on 1998-03-22
N 30	Draft agenda for the 5th meeting of WG 7 in San Diego on 1998-03-22
N 31	Proposal from TWI on definition of boundary conditions for mildly sour service
N 32	ISO/WD 15156-1 Materials for use in H ₂ S containing environments in oil and gas production - Part 1: General principles
N 33	Proposal Mr Bruckhoff on definition of sour service
N 34	Proposal (1998-03-22) Dr. Milliams on WD 15156-1 and concerning NP 15156-2
N 35	Comments Dr. Pöpperling on doc WG 7 N 18
N 36	Comments Dr. Pöpperling on doc WG 7 N 21
N 37	Minutes on 5th meeting of WG 7 held in San Diego on 1998-03-22
N 38	Proposal Mr Bruckhoff on N 19 concerning sour service definition
N 39	Circulation of N 38 to WG 7 for comments
N 40	Revised proposal Mr Bruckhoff concerning sour service definition
N 41	Comments Mr Chaudhuri on doc N 34
N 42	Comments Mr Rice on doc N 40 concerning sour service definition
N 43	Comments Dr Watkins on doc N 40 concerning sour service definition
N 44	ISO/CD 15156-1 (July 1998) Corrosion Protection - Materials for use in H ₂ S containing

	environments in oil and gas production - Part 1: General principles
N 45	Comments Mr Rice on doc N 38
N 46	Status report 1 July 1998 on the work of WG 7 (as submitted to ISO/TC 67 for their next plenary meeting in Xi'an, China on 1998-09-16/17)
N 47	Calling notice for the sixth meeting of WG 7 in Utrecht / The Netherlands on 1998-10-02
N 48	Draft agenda for the sixth meeting of WG 7 in Utrecht / The Netherlands on 1998-10-02
N 49	Proposal (June 98) from B. Badrak on Hardness Requirements
N 50	Comment Mr Youngberg (Halliburton) on doc N 49
N 51	Comment Mr Duncan (Halliburton) on doc N 49
N 52	Comments Mr Crolet on doc's N 38, N 40, N 41, N 42, N 43 and N 45
N 53	Nomination of Prof Schmitt as new convener WG 7
N 54	Comment Mr Bruckhoff on doc N 52
N 55	Circulation of doc N 54 to WG 7 members
N 56	Proposal from Dr B Kermani on qualification methods and acceptance criteria for carbon and low alloy steels
N 57	Comments from Mr Chaudhuri on doc N 52
N 58	ISO/TC 67 Resolution 7 from their 18th plenary meeting in Xi'an on 1998-09-16/17 concerning new convenership WG 7 and revised target dates for CD 15156-1 as well as freezing (ISO stage 00) for ISO/NP 15156-3 and -4
N 59	Circulation of doc's WG 7 N 56, N 57, N 58
N 60	Comments from Dr Asahi on doc N 52
N 61	Proposal from Mr Bruckhoff "Contribution for acceleration of progress of ISO 15156-2
N 62	Resolution 1 from the 6th meeting of WG 7 in Utrecht on 1998-10-02
N 63	Minutes on the 6th meeting of WG 7 in Utrecht on 1998-10-02
N 64	"What and when to test" (proposal from sub group <i>HIC, SWC, SSC, SOHIC</i>)
N 65	"Hardness requirements in relation to welding" (proposal from sub group <i>Hardness requirements</i>)
N 66	"Sour environments for carbon and low alloy steels" (proposal from sub group <i>Sour service</i>)
N 67	"Qualification methods and acceptance criteria for carbon and low alloy steels" (proposal from sub group <i>Acceptance criteria</i>)
N 68	Calling notice for the 7th meeting of WG 7 in San Antonio, Texas on 1999-04-25
N 69	Draft agenda for the 7th meeting of WG 7 in San Antonio, Texas on 1999-04-25
N 70	Final report from Dr Trevor Gooch on the effect of low H ₂ S concentration on welded steels
N 71	P&NGI - Materials for use in H ₂ S containing environments in oil and gas production - Part 2: Carbon and low alloy steels
N 72	Summary of comments on ISO/CD 15156-1 "P&NGI - Materials for use in H ₂ S containing environments in oil and gas production - Part 1: General principles"
N 72 rev1	Summary of comments on ISO/CD 15156-1 "P&NGI - Materials for use in H ₂ S containing environments in oil and gas production - Part 1: General principles" plus observations / recommendations on each comment
N 73	Minutes on the 7th meeting of WG 7 in San Antonio, Texas, on 1999-04-25
N 74	Comments from Mr R Bhavsar, CAMCO, on working draft Part 2 (doc N 71)
N 75	Minutes from Dr D Milliams on the meeting of the WG 7 drafting committee for ISO/WD 15156-2 held in London on 1999-06-21/22/23/24
N 76	Status report July 1999 for WG 7 work for presentation to ISO/TC 67 at their 19th plenary meeting held in Oslo / Norway on 1999-09-15/16
N 77	Postponement of the 8 th meeting of WG 7 from 1999-09-03 to a later date
N 78	Calling notice for the 8 th meeting of WG 7 in Washington, DC, on 1999-10-20
N 78 rev1	Revised calling notice for the 8 th meeting of WG 7 in Washington, DC, on 1999-10-20/21
N 79	Draft agenda for the 8 th meeting of WG 7 in Washington, DC, on 1999-10-20

N 79 rev1	Revised draft agenda for the 8 th meeting of WG 7 in Washington, DC, on 1999-10-20/21
N 80	(version 1999-09-02) ISO/WD 15156-2 P&NGI – Materials for use in H ₂ S containing environments in oil and gas production – Part 2: Carbon and low alloy steels
N 81	Circulation of N 80 to WG 7 experts
N 82	Resolutions 9 and 10 from the 19 th meeting of ISO/TC 67 in Oslo / Norway on 1999-09-15/16 with relevance to ISO/TC 67/WG 7
N 83	Annex A.3 for ISO/WD 15156-2 (N 80)
N 84	(version 1999-10-18) ISO/WD 15156-2 "P&NGI – Materials for use in H ₂ S containing environments in oil and gas production – Part 2: Carbon and low alloy steels" with comments on N 80 included
N 84 rev1	(version 1999-10-18) ISO/WD 15156-2 "P&NGI – Materials for use in H ₂ S containing environments in oil and gas production – Part 2: Carbon and low alloy steels" with latest comments on N 80 included
N 85	Minutes on the 8 th meeting of WG 7 in Washington, DC, on 1999-10-20/21
N 86	ISO/CD 15156-2 P&NGI - Materials for use in H ₂ S containing environments in oil and gas production - Part 2: Carbon and low alloy steels
N 87	Calling notice to the 9 th meeting of WG 7 in Orlando on 2000-03-26
N 88	Draft agenda for the 9 th meeting of WG 7 in Orlando on 2000-03-26
N 89	ISO/WD 15156-3 P&NGI - Materials for use in H ₂ S containing environments in oil and gas production – Part 3: Corrosion resistant alloys (main body of document, Annex A and Annex B)
N 90	Proposal from Dr Ueda for WD 15156-3 N 89
N 91	ISO/DIS 15156-1 : Report of voting and comments on DIS version
N 92	Information on the status of DIS 15156-1 and CD 15156-2
N 93	ISO/DIS 15156-1 : Revised annex 3
N 94	Minutes on the 9 th meeting of WG 7 in Orlando on 2000-03-26
N 95	ISO/CD 15156-2 : Voting results and comments
N 96	ISO/CD 15156-3 : Advanced copy for information
N 97	Calling notice for the 10 th meeting of WG 7 in London on 2000-09-09/10
N 98	Draft agenda for the 10 th meeting of WG 7 in London on 2000-09-09/10
N 99	FDIS 15156-1 ((version 2000-08-06)) Cracking resistant materials for use in H ₂ S containing environments in oil and gas production – Part 1: General principles
N 100	ISO/CD 15156-2 ((version 2000-08-06)) P&NGI – Cracking resistant materials for use in H ₂ S containing environments in oil and gas production - Part 2: Carbon and low alloy steels
N 101	Draft responses to "Comments list" (doc N 95) in reaction to the CD of ISO 15156-2
N 102	Circulation of N 99, N 100, N 101 and N 95rev1 to WG 7 in advance of the meeting in London on 2000-09-09/10
N 103	Statusreport 2000 ISO/TC 67/WG 7
N 104	Circulation of N 103 + Hotel booking form for London meeting 2000-09-09/10
N 105	Resolutions from the 10 th meeting of WG 7 in London 2000-09-09/10
N 106	Resolutions 14, 15, 16 taken at the 20 th meeting of ISO/TC 67 in Paris on 2000-09-20/21 with relevance to WG 7
N 107	Minutes on the 10 th meeting of WG 7 in London 2000-09-09/10
N 108	Ballot result on ISO/CD 15156-3 as information for the next WG 7 meeting
N 109	Calling notice for the 11 th meeting of WG 7 in Houston on 2001-03-11
N 110	Draft agenda for the 11 th meeting of WG 7 in Houston on 2001-03-11
N 111	Proposal from Mr P Jackman on CRA cladding material for ISO 15156-3
N 112	Proposal for NACE maintenance of ISO 15156
N 113	FDIS (Feb-01) 15156-1 P&NGI – Materials for use in H ₂ S containing environments in oil and

	gas production – Part 1: General principles for the selection of cracking resistant materials
N 114	DIS (Houston draft) 15156-2 P&NGI – Materials for use in H ₂ S containing environments in oil and gas production – Part 2: Cracking resistant carbon and low alloy steels
N 115	Draft business plan Feb-2001 for WG 7
N 116	Minutes on the 11 th meeting of WG 7 held in Houston, TX on 2001-03-11
N 117	Calling notice for the 12 th meeting of WG 7 in Riva del Garda, Italy, on 2001-09-30
N 118	Draft agenda for the 12 th meeting of WG 7 in Riva del Garda, Italy on 2001-09-30
N 119	Pre DIS ((<i>Riva del Garda draft</i>)) 15156-3 Petroleum and natural gas industries – Materials for use in H ₂ S containing environments in oil and gas production – Part 3: Cracking resistant CRAs (corrosion resistant alloys) and other alloys
N 120	Draft ISO/TC 67 Interpretation Process
N 121	Draft ISO/TC 67 Maintenance Process
N 122	Resolutions 18 & 19 from the 21 st meeting of ISO/TC 67 in Samara on 2001-09-10/11 with relevance to WG 7
N 123	On-going management and interpretation of ISO 15156
N 124	WG 7 comments on ISO/CD 15156-3
N 125	Minutes on the 12 th meeting of ISO/TC 67/WG 7 in Riva del Garda on 2001-09-30
N 126	Calling notice for the 13 th meeting of WG 7 in Denver, Colorado on 2002-04-07
N 127	Draft agenda for the 13 th meeting of WG 7 in Denver, Colorado on 2002-04-07
N 128	Summary of comments on ISO/DIS 15156-2
N 128 rev1	Revised summary of comments on ISO/DIS 15156-2
N 129	Explanation of Japanese comment on DIS 15156-2
N 130	Minutes on the 13 th meeting of ISO/TC 67/WG 7 in Denver on 2002-04-07
N 131	Calling notice for the 14 th meeting of ISO/TC 67/WG 7 in Granada on 2002-09-21
N 132	Draft agenda for the 14 th meeting of ISO/TC 67/WG 7 in Granada on 2002-09-21
N 132 rev1	Revised draft agenda for the 14 th meeting of ISO/TC 67/WG 7 in Granada on 2002-09-21
N 133	ISO/DIS 15156-2 Comments register and WG 7 responses
N 134	ISO/DIS 15156-2.2 (2 nd draft) P&NGI – Materials for use in H ₂ S containing environments in oil and gas production – Part 2: Cracking resistant carbon and low alloy steels (and the use of cast iron)
N 135	ISO/DIS 15156-3 : Result of voting of member bodies
N 136	ISO/DIS 15156-3 : Compilation of comments of ISO member bodies
N 136 rev1	ISO/DIS 15156-3 : Revised compilation of comments of ISO member bodies
N 137	prEN ISO 15156-3 : Compilation of comments of CEN member bodies
N 138	Resolutions 17, 18 and 19 from the 22 nd Meeting of ISO/TC 67 in Copenhagen concerning the work of ISO/TC 67/WG 7
N 139	Minutes on the 14 th meeting of ISO/TC 67/WG 7 in Granada on 2002-09-21
N 140	Calling notice for the 15 th meeting of WG 7 in San Diego, CA/USA on 2003-03-18
N 141	Draft agenda for the 15 th meeting of WG 7 in San Diego, CA/USA on 2003-03-18
N 142	ISO/FDIS 15156-3 : 2003-02-17 San Diego
N 143	ISO/FDIS 15156-3 : Comments register and responses 2003-02-17
N 144	ISO/DIS 15156-2.2 : Comments register and responses 2003-03-10
N 145	ISO/FDIS 15156-2 : 2003-03-10 Draft for San Diego
N 146	Minutes of 15 th meeting of ISO/TC 67/WG 7 in San Diego 2003-03-18
N 147	Interpret and Maintain ISO 15156
N 148	NACE Interpret and Maintain ISO 15156

N 149	Calling notice for the 16 th meeting of ISO/TC 67/WG 7 in Budapest on 2003-09-28
N 150	Draft agenda for the 16 th meeting of ISO/TC 67/WG 7 in Budapest on 2003-09-28
N 151	ISO/FDIS 15156-2:2003-09
N 152	ISO/FDIS 15156-3:2003-09
N 153	Minutes on the 16 th meeting of ISO/TC 67/WG 7 in Budapest on 2003-09-28
N 154	Result of voting on FDIS 15156-2
N 155	Result of voting on FDIS 15156-3
N 156	Draft agenda for the 17 th meeting of ISO/TC67/WG7, 2004-03-30, New Orleans
N 157	Calling notice for the 17 th meeting of ISO/TC67/WG7, 2004-03-30, New Orleans
N 158	Ballot items ISO 15156 Maintenance panel
N 159	OSC 2004 Ballot items
N 160	ISO 15156 Amendment proposals for OSC
N 161	Agenda Corrosion 2004
N 162	Minutes on the 17 th meeting of WG 7 (including OSC and MP) in New Orleans, 2004-03-28/29/30
N 163	Calling notice for the 18 th meeting of ISO/TC 67/WG 7 & NACE/OSC/TG 299 in Nice/France on 2004-09-11
N 164	Draft agenda for the 18 th meeting of ISO/TC 67/WG 7 & NACE/OSC/TG 299 in Nice/France on 2004-09-11
N 165	Calling notice for the 1 st meeting of ISO/TC 67/WG 7 – Non-metallics task group in Nice/France on 2004-09-11
N 166	Draft agenda for the 1 st meeting of ISO/TC 67/WG 7 – Non-metallics task group in Nice/France on 2004-09-11
N 167	Experts roster of TG "Non-metallics", 2004-08
N !68	Ballot items for WG 7, 2004-08
N !69	Proposals for amendments ISO 15156-1, 15156-2, 15156-3, 2004-08
N !70	Further proposals for amendments ISO 15156-1, 15156-2, 15156-3, 2004-08
N 171	Agenda for MP meeting 2004-09-11
N 172	Minutes of 18 th meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Nice
N 173	Calling notice for combinded 19 th meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Houston
N 174	Agenda for combinded 19 th meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Houston
N 175	ISO 15156-3 Corrigendum 1
N 176	Calling notice for the combinded 20 ^h meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Lisbon
N 177	Agenda for combinded 19 th meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Lisbon
N 178	Minutes of 19 th meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Houston
N 179	Minutes of 20 th meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Lisbon
N 180	Calling notice for the combinded 21 st meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, San Diego
N 181	Agenda for the combinded 21 st meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, San Diego
N 182	Calling notice for the combinded 22 nd meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Maastricht 2006-09-23
N 183	Agenda for the combinded 22 nd meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Maastricht 2006-09-23
N 184	Confirmation of ISO 15156-1 for further five years
N 185	Minutes of combinded 21 st meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, San

	Diego
N 186	Calling notice for the combined 23 rd meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Nashville
N 187	Agenda for the combined 23 rd meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Nashville
N 188	ISO 15156 maintenance process (vesion 3)
N 189	Minutes of combined 22 nd meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Maastricht 2006-09-23
N 190	Minutes of combined 23 rd meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Nashville
N 191	Calling notice for the combined 24 th meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Freiburg
N 192	Agenda for the combined 24 th meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Freiburg agenda
N 193	ISO/TMB approval of ther ISO 15156 Maintenance Agency
N 194	Revised agenda for the combined 24 th meeting ISO/TC 67/WG 7 & ISO 15156 OSC/NACE TG 299, Freiburg agenda
N 195	IMP Ballot History 2006-02; (Re-vote) 2007-08-08
N 196	ISO Ballot History 2007-01; 2007-07-13
N 197	ISO 15156 Ballot History 2007-01; 2007-07-13
N 198	IMP Ballot History 2007-03; 2007-08-08
N 199	Calling notice 25meeting New Orleans 2008-03-16
N 200	Combined Agenda 25 WG7+OSC Meeting New Orleans 2008-03-16
N 201	Calling notice 25meeting New Orleans 2008-03-16
N 202	Combined Agenda 25 WG7+OSC Meeting New Orleans 2008-03-16 (Update)
N 203	Minutes MOM TG 299 Freiburg 2007-09-08
N 204	Calling notice 26meeting Edinburgh 2008-09-06
N 205	Minutes WG7+OSC Meeting New Orleans 2008-03-16
N 206	Revised calling notice 26meeting Edinburgh 2008-09-06 (replace N 204)
N 207	Combined Agenda 26 WG7+OSC Meeting Edinburgh 2008-09-06
N 208	Presentation: pH prediction in oil and gas wells
N 209	Presentation: pH measurement and prediction in concentrated solution
N 210	LiveLink User Guide
N 211	LiveLink FAQs
N 212	Minutes 26 WG7+OSC Meeting Edinburgh 2008-03-16
N 213	Calling notice 27meeting Atlanta 2009-03-22
N 214	Combined Agenda 27 WG7+OSC Meeting Atlanta 2009-03-22
N 215	Minutes 27 WG7+OSC Meeting Atlanta 2009-03-22
N 216	Presentation from Atlanta: Coment on 316 ballot & welded materials
N 217	Information about currnet FDIS vote on ISO 15156

7.2 TG Non-metallics

N 1	Calling notice 1 st meeting, Nice, 2004-09-11
N 2	Agenda 1 st meeting, Nice, 2004-09-11
N 3	Request ISO/TC 67 for new work item proposal
N 4	Experts roster ISO/TC 67/WG 7 Task group "Non-metallics", 2004-08
N 4rev	Experts roster ISO/TC 67/WG 7 Task group "Non-metallics", 2004-09
N 5	Calling notice 2 nd meeting of the WG 7 Task group "Non-metallics", Hanover, 2004-09-22
N 6	Agenda 2 nd meeting of the WG 7 Task group "Non-metallics", Hanover, 2004-09-22
N 7	1 st draft proposal " Petroleum and natural gas industries — Non-metallic materials in contact with media related to oil and gas production — Part 1: Thermoplastics", 2004-09
N 8	Comments Mr. Melot on 1 st draft proposal N 7
N 9	Minutes 1 st meeting, Nice, 2004-09-11
N 10	Minutes 2 nd meeting of the WG 7 Task group "Non-metallics", Hanover, 2004-09-22
N 11	Revised 1 st draft proposal " Petroleum and natural gas industries — Non-metallic materials in contact with media related to oil and gas production — Part 1: Thermoplastics", 2004-12
N 12	Calling notice 3 rd meeting of the WG 7 Task group "Non-metallics", Houston, 2005-04-03
N 13	Agenda 3 rd meeting of the WG 7 Task group "Non-metallics", Houston, 2005-04-03
N 14	Experts roster ISO/TC 67/WG 7 Task group "Non-metallics", 2005-03
N 15	Positive result of voting of ISO/TC 67 on new work item proposal for the Task group "Non-metallics", 2005-03
N 16	Minutes on 3 rd meeting of the WG 7 Task group "Non-metallics", Houston, 2005-04-03
N 17	2 nd draft proposal " Petroleum and natural gas industries — Non-metallic materials in contact with media related to oil and gas production — Part 1: Thermoplastics", 2005-04 ("Houston draft")
N 18	Calling notice 4 th meeting of the WG 7 Task group "Non-metallics", Frankfurt, 2005-06-13
N 19	Agenda 4 th meeting of the WG 7 Task group "Non-metallics", Frankfurt, 2005-06-13
N 20	3 rd draft proposal " Petroleum and natural gas industries — Non-metallic materials in contact with media related to oil and gas production — Part 1: Thermoplastics", 2005-05
N 20rev	Revised 3 rd draft proposal " Petroleum and natural gas industries — Non-metallic materials in contact with media related to oil and gas production — Part 1: Thermoplastics", 2005-06
N 21	Proposals from Mr. Edwards for 3 rd draft proposal, 2005-06
N 22	Proposals from Mr. Goodson 3 rd draft proposal, 2005-06
N 23	4 th working draft ISO/WD 23936-1 " Petroleum and natural gas industries — Non-metallic materials in contact with media related to oil and gas production — Part 1: Thermoplastics", 2005-06 ("Frankfurt draft")
N 24	Minutes on 4 th meeting of the WG 7 Task group "Non-metallics", Frankfurt, 2005-06-13
N 25	Calling notice for 5 th meeting of the WG 7 Task group "Non-metallics", Lisbon, 2005-09-02&03
N 26	Agenda for 5 th meeting of the WG 7 Task group "Non-metallics", Lisbon, 2005-09-02&03
N 27	5 th working draft ISO 23936-1 Lisbon working draft 2005-09-02&03
N 27 rev	5 th working draft ISO 23936-1, revised Frankfurt 2006-02-01
N 28	Minutes on 5 th meeting of the WG 7 Task group "Non-metallics", Lisbon, 2005-09-02&03
N 29	Resolution #20 of plenary meeting ISO/TC 67, Pretoria 2005-09-20/21
N 30	Calling notice 6 th meeting of the WG 7 Task group "Non-metallics", San Diego, 2006-03-11/12
N 31	Agenda for 6 th meeting of the WG 7 Task group "Non-metallics", San Diego, 2006-03-11/12
N 32	Membership roster ISO/TC 67/WG 7/TG "Non-metallics", status 2006-02-10
N 33	6 th working draft ISO/WD 23936-1
N 34	Calling notice 7 th meeting of the WG 7 Task group "Non-metallics", Maastricht 2006-09-22/23
N 35	Agenda for 7 th meeting of the WG 7 Task group "Non-metallics", Maastricht 2006-09-22/23

N 36	Ballot result on ISO/CD 23936-1
N 37	Minutes on for 7 th meeting of the WG 7 Task group "Non-metallics", Maastricht 2006-09-22/23
N 38	Revised ballot result on ISO/CD 23936-1
N 39	Edited draft for ISO/DIS 23936-1
N 40	ISO 23936-1, ready for DIS 2007-01-15
N 41	Calling notice 8 th meeting of the WG 7 TG "Non-metallics", Nashville 2007-03-11/12
N 42	Agenda for 8 th meeting of the WG 7 Task group "Non-metallics", Nashville 2007-03-11/12
N 43	Expert roster TG "Non-metallics", revised 2007-02-02
N 44	1 st draft proposal ISO/WD 23936-2 on elastomers
N 45	Minutes on 8 th meeting of the WG 7 TG "Non-metallics", Nashville 2007-03-11/12
N 46	2 nd draft proposal ISO/WD 23936-2 (Nashville draft)
N 47	Expert roster TG "Non-metallics", revised 2007-03-15
N 48	Calling notice 9 th meeting of the WG 7 TG "Non-metallics", Freiburg, Germany
N 49	Agenda for 9 th meeting of the WG 7 TG "Non-metallics", Freiburg, Germany
N 50	Minutes meeting 9 Freiburg 2007-09-08&09
N 51	Membership list 2007-09
N 52	3rd draft proposal ISO 23936-2-Freiburg
N 53	Calling notice 10 Non-metallics 2008-03-15;16;17
N 54	Agenda 10 Non-metallics 2008-03-15;16;17
N 55	DIS 23936-1 ISO+CEN results
N 56	Compiled ISO+CEN comments DIS23936-1
N 57	Calling notice 10 Non-metallics 2008-03-15;16;17
N 58	Agenda 10 Non-metallics 2008-03-15;16;17 new
N 59	Minutes meeting 10 New Orleans 2008-03-15&16
N 60	Attendance list
N 61	DIS 23936-1 NEW ORLEANS VERSION 1.1
N 62	Comments list prEN ISO 23936-1 New Orleans
N 63	Action list for New Orleans comments to prEN ISO 23936-1
N 64	Calling notice 11 Non-metallics 2008-09-06
N 65	Agenda 11 Non-metallics 2008-09-06
N 66	Membership list 2008-07-09
N 67	Calling notice 11 Non-metallics meeting Edinburgh 2008-09-06, replace N 64
N 68	LiveLink User Guide
N 69	Live Link FAQs
N 70	Minutes 11 Non-metallics meeting Edinburgh 2008-09-05/06
N 71	Membership list Non-Metallics (2008-09-22) replaces N 66
N 72	ISO FDIS 23936-1 clean copy
N 73	4 th draft proposal ISO 23936-2 (Edinburgh version)
N 74	Presentation from Edinburgh: Updating NORSOK M 710
N 75	Calling notice 12 Non-metallics meeting Atlanta 2009-03-21/23
N 76	Agenda 12 Non-metallics meeting Atlanta 2009-03-21/23
N 77	NORSOK M 710 Rev draft
N 78	5 th draft proposal ISO 23936-2 (Pre-Atlanta version)
N 79	ISO/FDIS 23936-1 voting results
N 80	Agenda 12 Non-metallics meeting Atlanta 2009-03-21/22 replaces N 76
N 81	6 th draft proposal ISO 23936-2 (Atlanta version)
N 82	Comment table for 6 th draft proposal ISO 23936-2
N 83	Minutes 12 Non-metallics meeting Atlanta 2009-03-21/22
N 84	Membership list Non-metallics (2009-05)

signed: *Prof. Dr. Guenter Schmitt*
(convener ISO/TC 67/WG 7)