



« Nuclear energy, nuclear technologies, and radiological protection »

ISO/TC 85

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**Assistant:**  
Patricia RUIZ  
Direct line: + 33 (0)1 41 62 85 11  
patricia.ruiz@afnor.org

**Your contact:**  
Guilhem CUNY  
Direct line : + 33 (0)1 41 62 84 94  
guilhem.cuny@afnor.org

## ISO/TC 85 Nuclear Energy CAG – Draft decisions

**F**OLLOW UP

For information

**S**OURCE

ISO/TC 85 Secretary

**N**OTE

Please find enclosed the draft decisions of the Chairman's Advisory Group meeting held in Moscow, June 2014.

This document also includes :

- the Russian proposal on the creation of a new subcommittee within TC 85 about construction in nuclear industry (appendix 1),
- the TC 85 analysis of this proposal (appendix 2).



**ISO/TC 85 Nuclear Energy**  
**CAG – 9<sup>th</sup> Chairman’s Advisory Group**  
**Decisions**

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**Meeting date:** 2014-06-04 (Starting at 5:00 pm – Closing at 6:30 pm)

**Host:** GOST R (Russian Federation)

**Place:** World Trade Center  
Krasnopresnenskaya naberezhnaya, 12  
Moscow, Russie



## AGENDA

1. **Adoption of the scopes of ISO/TC 85, SCs and WGs and update of ISO/TC 85  
"Scope, structure and contacts"**
2. **Update of TC 85 Business Plan**
3. **Specific "post Fukushima event"**
4. **NSAG : first meeting in Moscow**
5. **Subsequent meetings (SCs : 2015 and TC : 2016)**
6. **Any other business**

Analysis of Russian Federation proposal

7. **Review of TC 85 Plenary Resolutions**

▪ **Decision 2014/1 Moscow Plenary Meeting**

**Subject: Adoption of the scopes of ISO/TC 85, SCs and WGs and update of ISO/TC 85 “Scope, structure and contacts”**

**CAG Members agreed** on modifications brought by SC 2, SC 5 and SC 6 and decided to submit this new version of scopes, structure and contacts (including the updates of WG convenors) to ISO/TC 85 Plenary Meeting on Thursday 5<sup>th</sup> for final approval.

Following more discussion within SC 6 WG 3, some terms need to be more elaborated. A proposal for amendments will come later.

Within SC2, 2 WGs have made some modifications (WG 13 & 14)

▪ **Decision 2014/2 Moscow Plenary Meeting**

**Subject: Business plan**

**CAG Members agreed** on modifications brought by SC 2, SC 5 and SC 6 and decided to submit the updated version of the Business Plan to ISO/TC 85 Plenary Meeting on Thursday 5<sup>th</sup> for final approval.

▪ **Decision 2014/3 Moscow Plenary Meeting**

**Subject: specific “ post Fukushima event “**

**CAG Members decided** that the needs to examined the proposal of a special post-fukushima event are to be examined again. TC 85 Secretariat will prepare a questionnaire with the support of SCs. The questionnaire will be sent to P members. If the proposals emerging from P members feedback can be managed within TC 85, no workshop or specific event will be needed.

▪ **Decision 2014/4 Moscow Plenary Meeting**

**Subject: NSAG**

**CAG Members approved** NSAG objectives and methods. They will be experimented until the next NSAG meeting in 2016. A procedure will be issued by the Secretariat (see NSAG report).

▪ **Decision 2014/5 Moscow Plenary Meeting**

**Subject: Subsequent meetings (SCs : 2015 and TC : 2016)**

**CAG Members noted** that :

- India proposed to host next ISO/TC 85 plenary and parallel meetings in 2016. (Subject to appropriate Ministry approvals in India).
- Sweden will host next SC 2 meeting in Boras, from June 15 to 18, 2015
- Argentina proposed to host next SC 5 meeting. Date and place to be confirmed.
- USA will host next SC 6 meeting in San Antonio, Texas, from June 5 to 6, 2015

▪ **Decision 2014/6 Moscow Plenary Meeting**

**Subject: Analysis of Russian Federation proposal**

**(see Appendix 1 & 2)**

**CAG Members examined** the proposal from the Russian Federation concerning the creation of a new subcommittee within TC 85 about the construction in the nuclear industry and decided to adopt a step by step process with the objective of building a consensus:

-TC 85 asks Russian Federation to provide a detailed work program of work showing proposed work items titles and content

-TC 85 asks TC 85 WG 4 (for organization standards) and SC6 WG 3 ( for technical standards) to examine the proposed work program and search consensus on a first batch of new projects

▪ **Decision 2014/7 Moscow Plenary Meeting**

**Subject: Review of TC 85 Plenary Resolutions**

**CAG Members agreed** on the draft resolutions and decided to submit them to ISO/TC 85 Plenary Meeting on Thursday 5th for final approval.



PROPOSAL FOR A NEW FIELD OF TECHNICAL ACTIVITY	
Date of proposal 2014-04-14	Reference number (to be given by Central Secretariat)
Proposer GOST P (the Federal Agency on Technical Regulating and Metrology)	ISO/TS/P

A proposal for a new field of technical activity shall be submitted to the Central Secretariat, which will assign it a reference number and process the proposal in accordance with the ISO/IEC Directives (part 1, subclause 1.5). The proposer may be a member body of ISO, a technical committee or subcommittee, the Technical Management Board or a General Assembly committee, the Secretary-General, a body responsible for managing a certification system operating under the auspices of ISO, or another international organization with national body membership. Guidelines for proposing and justifying a new field of technical activity are given in the ISO/IEC Directives (part 1, annex Q).

**The proposal** (to be completed by the proposer)

<p><b>Subject</b> (the subject shall be described unambiguously and as concisely as possible)</p> <p>New sub-Committee <i>Construction in the nuclear industry</i> in ISO/TC 85 <i>Nuclear energy, nuclear technologies, and radiological protection</i></p>
<p><b>Scope</b> (the scope shall define precisely the limits of the proposed new field of activity and shall begin with "Standardization of ..." or "Standardization in the field of ...")</p> <p>Standardization in the field of a construction of objects of use of atomic energy regarding engineering researches, design, construction, forecasting and extension of terms of operation, reconstruction and capital repairs of buildings and constructions of objects of use of atomic energy</p>
<p><b>Purpose and justification</b> (the justification shall endeavour to assess the economic and social advantages which would result from the adoption of International Standards in the proposed new field)</p> <p>Development of the international standards for establishment of uniform requirements to construction of buildings and nuclear power plant constructions.</p> <p>Development of the international standards on engineering researches, design, construction, inspection and extension of terms of operation in system of standardization of the countries of participants of ISO.</p>

**Programme of work** (list of principal questions which the proposer wishes to be included within the limits given in the proposed scope, indicating what aspects of the subject should be dealt with, e.g. terminology, test methods, dimensions and tolerances, performance requirements, technical specifications, etc.) It is also possible to attach a detailed programme of work showing proposed work item titles.

1. Carrying out meetings of subcommittee at least once a year.
2. Drawing up the preliminary Program of development of normative and technical documents ISO in the field of engineering researches, design and construction with inclusion of the following subjects on standardization:
  - 2.1 Organizational standards
    - 2.1.1. The standards directed on activity of general contractors at building of objects of use of atomic energy;
    - 2.1.2. The standards directed on activity of builders at building of objects of use of atomic energy;
    - 2.1.3. The standards directed on activity of the general designer at building of objects of use of atomic energy;
    - 2.1.4. Quality control of performance of work on a construction of objects of use of atomic energy;
    - 2.1.5. Requirements to the personnel performing works on objects of use of atomic energy;
    - 2.1.6. Standards on a control system of organization projects.
  - 2.2. Technical standards:
    - 2.2.1. Standards on installation and construction works on objects of use of atomic energy;
    - 2.2.2. Standards on installation of the power equipment and pipelines on objects of use of atomic energy;
    - 2.2.3. Standards on commissioning on objects of use of atomic energy;
    - 2.2.4. Standards on engineering researches on objects of use of atomic energy;
    - 2.2.5. Standards according to project works on objects of use of atomic energy.
3. Signing of agreements on interaction with the organizations which are engaged in standardization.

**Survey of similar work undertaken in other bodies** (relevant documents to be considered: national standards or other normative documents)

According to the presented program of work of future subcommittee there are documents on standardization of the main international organizations, the European countries, ASTM (The American society of test of materials), ACI (The American institute of concrete), and also standards of the Russian Federation.

**Liaison organizations** (list of organizations or external or internal bodies with which cooperation and liaison should be established)

ISO (International organization for standardization):

1. ISO/TC 71 Concrete, reinforced concrete and preintense reinforced concrete
2. ISO/TC 59 Construction of buildings
3. ISO/TC 74 Cement and lime
4. Product ISO/TC 77 from the cement reinforced by fibers
5. ISO/TC 85 Nuclear energy, nuclear technologies and radiation protection
6. ISO/TC 92 Fire safety
7. ISO/TC 98 of the Basis of calculation of construction designs
8. ISO/TC 135 Non-destructive tests
9. ISO/TC 160 Glass for construction
10. ISO/TC 167 Steel and aluminium designs
11. ISO/TC 176 Management and ensuring quality

DIN (The German institute on standardization)

1. H. A. 005 Construction Norms Committee (NABAU)
2. H. A. 022 German commission on electric equipment, electronic and information DIN and VDE technologies
3. H. A. 140 Electrical equipment Standards (SV)

AFNOR (The French association on standardization)

1. BNTEC/P18A Concrete designs
2. AFNOR/P18B Concrete
3. AFNOR/P18C Concrete and ferroconcrete components
4. BNTEC/P18E Construction of concrete designs
5. AFNOR / KS / PS of the Rule of construction in the seismic country
6. BNCM/CNC2M the Metal and mixed designs

CEN (European committee on standardization)

1. CEN/TC 51 Cements and construction lime
2. CEN/TC 104/SC 1 Concrete - Specification, action, production and compliance
3. CEN/TC 127 Fire safety of buildings
4. CEN/TC 135 Steel and aluminium designs
5. CEN/TC 154 Fillers
6. CEN/TC 229 Combined ferroconcrete designs
7. CEN/WS 063 Definition of a condition of designs for an integrated assessment of a residual resource of the enterprises, designs and components
8. ECISS/TC 104 Usual and strained reinforcing steel for ferroconcrete designs



**Other comments** (if any)

In case of creation of new technical committee, the Russian ISO member committee (State standard specification P) agrees to assume duties on maintaining the secretariat. As chairman of the new subcommittee proposed the candidature Opekunov Viktor Semenovich (President SRO «SOUZATONSTROY»). As secretary of the new subcommittee proposed the candidature Mishchenko Igor Olegovich (Quality Director JSC NPO «CNIITMASH»).

Signature of the proposer



A. Zazhigalkin

Vice-President of the Federal Agency on Technical Regulating  
and Metrology

**Comments of the Secretary-General** (to be completed by the Central Secretariat)

Signature

# Analysis of Russian Federation proposal

During Moscow CAG, HoD and SC6/WG3 meetings, TC 85 has examined the proposal from the Russian Federation concerning the creation of a new subcommittee dedicated to the construction in the nuclear industry.

- **TC 85 observed** that there is no consensus for an immediate modification of the structure of the committee, and considered that the perimeter of the proposal can efficiently be explored using the existing structure.
- **TC 85 appreciated** the fact that Russian Federation has the objective of becoming more active and to take more responsibility in the committee. The ways a P member can contribute are multiple:
  - support PWI and NWI and designate experts
  - propose PWI or NWI and propose project leaders
  - propose some active project leaders as co-convenors or convenors
  - contribute to NSAG, to SC2/AG and to SCs and TC plenaries

TC 85 chair and secretariat recommended a step by step approach for addressing the Russian Federation proposition and reach a consensus:

- The first step would be to identify an explicit work program and common priorities, and to prepare PWI and WI; this can be done in existing WGs
- the second step would be to create new WGs whenever the work program or the required field of expertise in a specific WG becomes too large or too wide
- the third step would be to review the existing structure of TC 85 and SCs and search a consensus for an improved structure aimed at a better response to P members needs and objectives

**TC 85 asked** the Russian Federation to provide a detailed program of work showing proposed work items titles and content; doing this, due consideration of ISO/IAEA MOU will be taken: ISO must avoid duplication and redundancy with existing or planned IAEA standards and guides.

The proposed work program will be then examined by TC 85:

- TC 85 WG 4 will examine organizational standards
- SC6 WG 3 will examine technical standards
- P members will be asked to express their priorities; doing this, they should consider market relevance and safety relevance of each proposed project; consensus will be searched on a first batch of projects to be launched as PWI or NWI.

**TC 85 chair and secretariat proposed the following draft resolution:**

TC 85 has examined the Russian Federation proposal of a new subcommittee and decided to adopt a step by step process with the objective of building a consensus:

-TC 85 asks Russian Federation to provide a detailed work program of work showing proposed work items titles and content

-TC 85 asks TC 85 WG 4 (for organization standards) and SC6 WG 3 ( for technical standards) to examine the proposed work program and search consensus on a first batch of new projects