



TECHNICAL BOARD

CEN/BT by correspondence

For vote	Issue date:	2012-10-17
Simultaneous circulation to CENELEC/BT <input type="checkbox"/>	Deadline:	2013-01-22

SUBJECT

Risk-Based Inspection Framework – Creation of a Project Committee

BACKGROUND

In September 2012, NEN submitted a Form A (see Annex 1 to BT N 9043) to CEN proposing the creation of a new CEN Project Committee in order to develop European Standards on Risk Based Inspection Procedures.

In accordance with the Form A, this work would cover the following aspects:

- Inspection and its link to maintenance, asset and life management for plants, systems and components;
- Pressure-containing equipment and, when applicable, other types of equipment (e.g. rotating or electrical instruments and safety devices);
- Technical and managerial aspects of inspection-planning and their application to overall production and operation.

The work developed in this CEN Project Committee would take inspiration from the following document: CWA 15740:2008 *Risk-Based Inspection and Maintenance Procedures (RIMAP)*.

It is possible that some aspects of the proposed work have already been addressed partly by (some of) the following Technical Committees:

- CEN/TC 23 'Transportable gas cylinders'
- CEN/TC 54 'Unfired pressure vessels'
- CEN/TC 110 'Heat exchangers'
- CEN/TC 114 'Safety of machinery'
- CEN/TC 121/SC 5 'Welding - Non- destructive examination'
- CEN/TC 138 'Non-destructive testing'
- CEN/TC 186 'Industrial thermo-processing – Safety'
- CEN/TC 197/SC 1 'Pumps - Safety'
- CEN/TC 256 'Railway applications'
- CEN/TC 267 'Industrial piping'
- CEN/TC 269 'Shell and water-tube boilers'
- CEN/TC 296 'Transport of dangerous goods'

- ECISS/TC 107/SC 1 ‘Steel for pressure purposes - Tubes for pressure purposes’
- ECISS/TC 107/SC 10 ‘Steel for pressure purposes - Non-destructive testing’

However, the topic does not fall within the scopes of these Technical Committees and it is therefore proposed to create a Project Committee in order to develop European Standards on Risk Based Inspection Procedures.

By Resolution BT C75/2009, BT approved that both of following criteria are to be met for acceptance of such proposal for new work (in new area):

- A two-thirds majority of the votes cast (abstentions not counted) are in favour of the proposal;
- 5 (or more) Members express commitment to participate.

As a consequence, BT Members are requested to state explicitly, by means of the commenting field provided in the BT-balloting tool, whether or not they are committed to participate in the work.

PROPOSAL(S)

BT,

- considering

- the proposal for new work (Form A) submitted by NEN as included in BT N 9403;
- that the following members have expressed commitment to participate:
 - *members;*

- decides

- to create a new Project Committee, CEN/TC xxx "Project Committee – Risk Based Inspection Procedures" in order to work on European Standards covering the following aspects:
 - Inspection and its link to maintenance, asset and life management for plants, systems and components;
 - Pressure containing equipment and when applicable other types of equipment (e.g. rotating or electrical instruments and safety devices);
 - Technical and managerial aspects of inspection planning and their application onto overall production and operation.
- to ask the new CEN/TC xxx to submit its programme of work for BT approval by <6 months after approval of this decision>;
- to allocate the Secretariat and Convenorship to NEN.

This decision is applicable as from: <result release date>

2012-10-09 – TL

FORM A



Proposal for a new project

Title of project (shortened):

CEN/TC:.....

Project Committee

Other:

"Risk-Based Inspection Framework"

(if applicable)

Name and address of the proposing organization:

NEN, P.O. Box 5059, 2600 GB Delft

Telephone No. : +31 (0)15 2690390

Date : 28 September 2012

Information to be supplied by the proposer of the new project

1 Title (in full)

Risk-Based Inspection Framework (RBIF-EN)

.....
The title should be unambiguous and as concise as possible. Where the proposal is for a new work item, the title should specify the subject to be covered and type of standard, e.g. terminology, method of test, performance requirements, etc.

2 Scope

The purpose of RBIF-EN is to ensure that defined and accepted levels of risk related to safety, health environment and business/production/operation are achieved using resource-efficient methods of risk-based (risk-informed) methods of inspection. Standardization of Risk-Based Inspection Procedures concern the following aspects:

- Inspection and its link to maintenance, asset and life management for plants, systems and components;
- Pressure containing equipment and when applicable other types of equipment such as e.g. rotating, electrical, instruments and safety devices;
- Technical and managerial aspects of inspection planning and their application onto overall production and operation;

The RBIF-EN framework is primarily, but not exclusively, applicable to oil&gas, petrochemical, chemical, power, and steel industry, but it is, however limited to non-nuclear applications. The RBIF-EN framework only applies to systems and equipment in the in-service phase of the operation. If RBIF-EN standards are used, it shall be ensured that all measures are in compliance with local and national legislation.

The scope should define precisely the field of application. Where the new project relates to a new activity or a range of standards, the scope should begin with 'Standardization of...' or 'Standardization in the field of ...'

3 Justification and purpose

While with the PED there is already a harmonized directive regarding the design, manufacture, testing and conformity assessment of pressure equipment there is nothing comparable when it comes to in-service inspection and maintenance activities, which are still not harmonized throughout the EU. Therefore plants face different regulatory requirements, resulting in different economical boundary conditions. This basically is due to different base-line intervals for internal inspection (e.g. Germany 5 years – Austria 6 years – UK even longer on the basis of a written scheme of examination) and the requirement for in-service strength tests (normally hydrotests), which are generally required in some member states (e.g. Germany) while not in others (e.g. UK).'

Also with respect to risk-based inspection (RBI) approaches some countries (e.g. UK, NL) have to some

extend already adopted RBI methodologies into their legislation for in-service inspections, while others use it case-by-case basis to optimize in-service inspection measures (e.g. Germany, Austria). Last but not least others do not use it at all. The availability of a European standard on RBI may be a valuable contribution to the acceptance of RBI as a method to ensure the upholding of accepted levels of safety, health, environment in an efficient way.

Therefore the purpose of the RBIF-EN standard shall be at least to setup minimum requirements for doing risk-based inspection and promote a common European understanding of RBI. This needs to be done in order to achieve a possibly harmonized level of safety related to the operation of pressurized equipment in industry. In the development of the standard it shall be ensured that requirements are not in conflict with national legislation.

Why is standardization needed? Explain the economic, commercial/industrial, safety, consumer protection or other benefits of the proposal. If necessary, continue on a separate sheet.

.....

4 Is the standard required as a reference document for use in an EU Directive?

YES NO

(This question should only be answered when the European Commission is responsible for the proposal)

4.1 What Directorate General is responsible? Give details.

DG ENTER.

.....

4.2 If so, what is (are) the specific aim(s) of the Directive e.g.?

	YES	NO		YES	NO
Abolition of barriers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Health	<input checked="" type="checkbox"/>	<input type="checkbox"/>
What barriers to trade can be identified ?			Safety	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Do they hamper :			Environment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Commerce	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Other aims	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Production	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(please specify)		
Exchange of services	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Free circulation of goods	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

5 Is the proposed standard likely to be suitable for certification purposes?

YES NO

6 Priority category

Please indicate to which, if any, of the following categories the project belongs :

Category A : Subject of mandates from the Commission of the EU and/or EFTA for tasks requested by these two organizations for rapid completion

Category B : Drafts relating to the harmonized application of ISO standards

Category C : Existing or new subjects for which CEN offers an acceptance procedure for drafts established by European professional standardizing bodies having safeguard of constitution and effectiveness comparable with that of a CEN technical committee and where no ISO work already exists

An explanation should be provided by the originator of any proposal for a new project which does not fall within the priorities defined here.

7 Programme of work

7.1 What are the objectives of the project?

	YES	NO		YES	NO
Safety, health, protection of the environment, energy conservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Variety control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Interface, interchangeability	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Others (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Performance, function, quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Performance enhancement.....		

7.2 Which of the following aspects are to be standardized?

	YES	NO		YES	NO
1) Terminology	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3) Marketing, labelling, packaging, transport	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Symbols/Signs Designation	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
2) Characteristics :			4) Sampling	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dimensions	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Mechanical	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5) Methods of test	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chemical	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Acoustical	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6) Performance requirements	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Thermal	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Electrical*	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7) Others	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other physical	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Please specify)		
Non-physical, i.e. logical	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Scope, frequency, extent and qualifications for in-service inspection and maintenance activities		

* Necessary contact with CENELEC

7.3 What is your estimation of the time needed for the technical project up to the completion of the draft EN for the CEN enquiry? 1,0 YEARS.....

7.4 What is the proposed deadline for submission of the draft EN to the CEN formal vote? Jan. 2015.....

7.5 What is the latest date by which the standard should be published? Jul. 2015.

8 Standards or other documents on which it is intended to base the European Standard

8.1 List of standards or other documents (please give titles, reference and date)

CWA 15740:2008 Risk-Based Inspection and Maintenance Procedures (RIMAP)

8.2 Is there an existing International Standard? YES NO

If 'YES',

a) give details : API 580 Risk-Based Inspection, API Recommended Practice (API 581)

b) is it suitable for harmonization? YES NO

If 'NO', give reasons :

To convince Europe we need an European Standard. The basis for that would be CWA 15740 (see 8.1) which already considered API 580.....

8.3 Is any aspect detailed in 7.2 already referred to in existing :

- | | YES | NO | | YES | NO |
|---|-------------------------------------|--------------------------|--|--------------------------|--------------------------|
| 1) International Standards*
API 580, API 581 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3) Other specifications or requirements*
(e.g. ISO 61511 for SIS equipment) | <input type="checkbox"/> | <input type="checkbox"/> |
| 2) National Standards* | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4) Not known | <input type="checkbox"/> | <input type="checkbox"/> |

* If 'YES', please identify on a separate sheet.

8.4 Is any requirement included in the documents, and detailed in 7.2 considered to be of outstanding importance by the originator? YES NO

If 'YES', give detailsPerformance requirements.....

9 Are there any documents in the same field whose requirements must be taken into account during the technical work? YES NO Not Known

If 'YES', give brief details :

All national and local legislation related to in-service inspection and maintenance activities.....

10 Will liaison with outside bodies be necessary? YES NO

If 'YES', please give brief details :

e.g.

API: American Petroleum Institute (is setting the USA RBI standards)

JSPS 180th Committee on Risk-Based Equipment management (is setting the Japanese RBI standards.

11 Is there any existing national legislation which may be relevant to CEN Work in this area?

YES NO Not Known

Please specify such legislation and give details :

All national and local legislation related to in-service inspection and maintenance activities, e.g. in Germany Betriebssicherheitsverordnung..

12 Is any aspect governed by the requirements of inspection bodies?

YES NO Not Known

Please give brief details :

All inspection bodies related to in-service inspections, e.g. in Germany ZÜS, in Austria

Kesselprüfstelle...--- see also <http://ec.europa.eu/enterprise/newapproach/hando/>

13 Would any aspect conflict with known patented items?

YES NO

(ISO Directives, Part 2 and CEN/CENELEC Guide n°8 refers)

If 'YES', please provide full information on a separate sheet.

14 Participation in work

- | | YES | NO |
|---|-------------------------------------|--------------------------|
| 14.1 Is the proposer prepared to participate diligently in the work? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 14.2 Is the proposer, if a CEN member, prepared to undertake the Secretariat duties if a new CEN/TC is necessary? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 14.3 Is the proposer prepared to undertake the preparatory work required for a new work item? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

15 Documentation

All documentation previously referred to should accompany this proposal and be listed below.
Are any of the attached documents to be circulated to CEN members with the proposal?

YES NO

Please send an electronic copy of these document(s) together with the proposal to CCMC.

Signed :

Date : . 18 September 2012.....

Name : Mr. Pim Bijl.....

Position : BT-member for NEN.....