



TECHNICAL BOARD

CEN/BT by correspondence

For vote	Issue date:	2016-04-06
Simultaneous circulation to CENELEC/BT <input type="checkbox"/>	Deadline:	2016-07-05

SUBJECT

Creation of a new CEN/TC 'Geothermal and water boreholes'

BACKGROUND

On 24 March 2016, AFNOR submitted a proposal to CCMC for the creation of a new Technical Committee entitled 'Geothermal and water boreholes', for which the details are provided in Annex 1 to BT N 10318.

The proposal to establish this new Technical Committee should be seen as a contribution to an overarching goal to reduce Greenhouse Gas emissions (GHG), to which numerous states and all EU Member states have committed. Water and geothermal borehole developments are seen as a contribution to this goal. Standardization work on the matter will help the sector deal with current issues, enhance performance and confidence in the sector, and widen acceptance of geothermic activities.

While the work is not identified as being in support of European legislation, geothermal energy is well identified in the Renewable Energy Directive (2009/28/EC). Moreover the work will bring benefits for SME's and environmental protection.

The Committee will concentrate primarily on developing standards to reach the following objectives:

- to guarantee that drilling and borehole development are planned, performed and operated based on good practices for the protection of groundwater in terms of both quality and quantity and the protection of the environment;
- to support a growing sector by developing specifications for all parties involved in the planning and operation along the whole value chain.

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

- A two-thirds majority of the votes cast (abstentions not counted) are in favour of the proposal (or more);
- At least 5 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,

- having considered the proposal for a new field of technical activity (Form A) submitted by AFNOR as included in Annex 1 to BT N 10318;
- considering that the following members have expressed commitment to participate:
 - <members>
- decides:
 - to create a new Technical Committee, CEN/TC xxx 'Geothermal and water boreholes' with the scope as provided in Annex1 to BT N 10318;
 - to allocate the Secretariat of CEN/TC xxx to AFNOR.

2016-03-31 – AB



PROPOSAL for a NEW FIELD OF TECHNICAL ACTIVITY or NEW PROJECT COMMITTEE	
Date of circulation	CEN/TC / SC N (where appropriate)
Secretariat AFNOR	CENELEC/TC / SC (Sec) (where appropriate)
Type of technical body proposed (TC / SC / PC / BTF)	TC

IMPORTANT NOTE: Incomplete proposals risk rejection or referral to originator.

The proposer has considered the guidance given in Annexes 1 and 2 during the preparation

Proposal (to be completed by the proposer)

<p>Title of the proposed new subject</p> <p>Geothermal and water boreholes</p>
<p>Scope statement of the proposed new subject</p> <p>Standardization in the field of design, construction, operation, monitoring, maintenance, rehabilitation and dismantling of the drilling site to extract groundwater. It covers all uses of groundwater: public or domestic, drinking water supply, agricultural, industrial and geothermal activities.</p> <p>Oil and gas drilling are excluded from the scope.</p>
<p>Purpose and justification for the proposal.</p> <p>Following conferences on Climate Change, for example COP 21 held in France in 2015, a great number of States, in particular all European Member States, have committed to reduce their level of greenhouse gas emissions. Water and geothermal borehole developments are seen as contribution to the overarching goal of GHG emissions reduction.</p> <p>However, geothermic activities do not always benefit from a wide acceptance. Several incidents in Europe occurred due to the lack of awareness of operators and contractors as regards operation and security methods. A set of standards on borehole construction and operation would be highly beneficial for helping the sector to enhance both performance and confidence. Among others, there is a need to foster the feasibility assessment prior to drilling and borehole operation. The design of a drilling structure starts with initial thoughts on the use and function attributed to this water point (operations, sampling for surveillance, piezometry, etc.). Whatever the use of the drilling to be performed, the client must state its needs, which determines the characteristics of the work.</p> <p>The objectives of this set of standards will be</p> <ul style="list-style-type: none"> - that drilling and borehole development are planned, performed and operated based on good practices for the protection of groundwater in terms of both quality and quantity and the protection of the environment ; - to support a growing sector by developing specifications for all parties involved in the planning and operation along the whole value chain.

Is the proposed new subject actively, or probably, in support of European legislation or established public policy?

Yes No

If Yes, indicate if the proposal is

- in relation to EC mandate(s):(which one(s))
- in relation to EC Directive(s)/Regulation(s):(which one(s))
- in relation to other legislation or established public policy:(give details)

Proposed initial programme of work

It is proposed to start with the development of a general standard on water wells and geothermal drilling.

NWI* 1: Water wells and geothermal drilling - Construction, monitoring and dismantling of catchment works and wells to tap into underground water

NWI 2: Water and geothermal drilling - Vertical geothermal probe

NWI 3: Water wells and geothermal drilling – Test method for geothermal grout

NWI 4: Well and geothermal energy drilling - Vertical geothermal probe (U-shaped vertical geothermal exchanger with closed circuit coolant) - Execution, implementation, maintenance, dismantling

(*New Work Item)

Whether needs are identified, the technical committee will address the proposals.

A statement from the proposer as to how the proposed work may relate to or impact on existing work, especially existing CEN, CENELEC, ISO and IEC deliverables.

At the moment no work has been started at European or International levels on water and geothermal drilling. A close cooperation will be needed with the technical committees mentioned below, some topics being in interaction. In particular, a special care will be drawn to cooperation with:

- CEN/TC 155 "*Plastic piping systems and ducting systems*" for all product characteristics regarding the vertical geothermal probe and ;
- CEN/TC 164 "*Water supply*" for the material in contact with drinking water (materials, products, tests methods and also the impacted regulatory aspects).

A listing of relevant existing documents at the international, regional and national levels.

In Europe:

BSI 6316:1992 *Practice for test pumping of water wells*

BSI 879:1985 *Specification for water well casing*

DIN 4994-5 *Geotechnical field investigations - Part 5: Borehole deformation tests*

DIN 4943 *Graphical layout and documentation of wells and ground water measuring points*

NF X10-999 *Water wells and geothermal drilling - Construction, monitoring and dismantling of catchworks and wells to tap into underground water*

NF X10-960-1 *Water and geothermal drilling - Vertical geothermal probe - Part 1 : general*

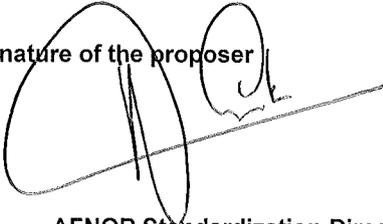
SIA 384/6/2010 *Vertical Geothermal probe*

UNI 11590:2015 *Water wells – Design*

Outside Europe:

ANSI/NGWA 01-14 *Water well construction standard*

ASTM D4719 *Standard Test Methods for Prebored Pressure meter Testing in Soils*

<p>Known patented items</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes", see CEN-CENELEC Guide 8 and provide full information in an annex</p>	
<p>A simple and concise statement identifying and describing relevant affected stakeholder categories (including small and medium sized enterprises) <u>in particular those who are immediately affected from the proposal</u> (see Annexes 1 and 2) and how they will each benefit from or be impacted by the proposed deliverable(s).</p> <p>The purpose of this proposal is to assist concerned parties like drillers, prime contractors, engineering firms and public authorities by providing them recognized European standards.</p> <p>This proposed standardization work will benefit industry and trade by enhancing the recognition of their performance and by giving a common framework. This is especially expected by small and medium enterprises (drillers, engineering offices and firms, etc.).</p> <p>Standards developed in this proposed TC will aim environment protection by paying a special attention to groundwater and rational use of resources. Taking into account the environment and having good practices for drilling and borehole development will promote health protection and acceptance by the public at large.</p>	
<p>Liaisons:</p> <p>A listing of relevant external European or international organizations or internal parties (other CEN, CENELEC, ETSI, ISO and/or IEC committees) to which a liaison should be established (in the case of ISO and IEC committees via the Vienna or Dresden Agreements).</p> <p>In addition to CEN/TC 164 <i>Water Supply</i> and CEN/TC 155 <i>Plastic piping systems and ducting systems</i>, liaison will be established with:</p> <ul style="list-style-type: none"> - CEN/TC 288 <i>Execution of special geotechnical works</i> - ISO/TC 67/SC 3 <i>Drilling and completion fluids, and well cements</i> - ISO/TC 67/SC 4 <i>Drilling and production equipment</i> - ISO/TC 113/SC 8 <i>Ground water</i> - ISO/TC 138 <i>Plastics pipes, fittings and valves</i> 	<p>Joint/parallel work:</p> <p>Possible joint/parallel work with:</p> <p><input type="checkbox"/> CEN (please specify committee ID)</p> <p><input type="checkbox"/> CENELEC (please specify committee ID)</p> <p><input type="checkbox"/> ISO (please specify committee ID)</p> <p><input type="checkbox"/> IEC (please specify committee ID)</p> <p><input type="checkbox"/> Other (please specify)</p>
<p>Name of the Proposer (include contact details)</p> <p>AFNOR</p> <p>Alain COSTES</p> <p>Project manager proposed to be in charge can be contacted at claire.chague@afnor.org</p> <p>An expression of commitment from the proposer to provide the committee secretariat if the proposal succeeds. AFNOR is willing to provide secretariat and chairmanship of this CEN/TC.</p> <div style="text-align: center; margin-top: 20px;"> <p>Signature of the proposer</p>  <p>AFNOR Standardization Director</p> </div>	

Annex(es) are included with this proposal (give details)

Informative Annex 1 "Principal categories of market needs"

- Consumer protection and welfare
- Environment
- Innovation
- Support to:
 - public policy
 - European legislation/regulation
- Market access/barriers to trade, i.e. enhancing the free movement of:
 - services
 - goods
 - people
- Interoperability
- Health/Safety
- Terminology

Informative Annex 2 "Principal categories of stakeholders"

- Industry and commerce,
 - where particularly appropriate, to be identified separately as
 - Large enterprises (those employing 250 staff or more)
 - Small and medium sized enterprises (SME), (those employing 250 staff or fewer)
- Government
- Consumers
 - including those organizations representing interests of specific societal groups, e.g. people with disabilities or those needing other particular consideration)
- Labour
- Academic and research bodies
- Non-governmental organisations (NGO),
 - including organizations representing broad or specific environmental interests
- Standards application business (e.g. testing laboratories, certification bodies)

Sometimes it is valuable also identify the immediate affected stakeholders from industry and commerce in terms of their position in a product value chain, as follows:

- Supplier
- Manufacturer
- Intermediary (e.g. warehousing, transport, sales)
- Service provider
- User of the product or service
- Maintenance / disposal

NOTE: 'Immediately affected stakeholders' are considered to be those who, within the context of the proposal, would be in a position to implement the provisions of the intended standard(s) into their products, services or management practices.