

**EXPLANATORY REPORT  
RAPPORT EXPLICATIF****ISO/CD 17093****ISO/TC 156**Secretariat **SAC**

This form should be sent to the ISO Central Secretariat, together with the English and French versions of the committee draft, by the secretariat of the technical committee or subcommittee

Ce formulaire doit être envoyé au Secrétariat central de l'ISO en même temps que les versions anglaise et française du projet de comité, par le secrétariat du comité technique ou du sous-comité concerné.

The accompanying document is submitted for circulation to member body vote as a DIS, following consensus obtained from the P-members of the committee.

Le document ci-joint est soumis, pour diffusion comme DIS, au vote comité membre, suite au consensus des membres (P) du comité obtenu.

on **2012-04-05**☐ at the meeting of  
à la réunion dusee resolution No. in  
voir résolution n° dans le document☒ by postal initiated on  
par un vote par correspondance démarré le**2012-02-03**

	Number	Countries
P-members in favour: Membres (P) approuvant le projet:	<b>12</b>	<b>Australia, Belgium, Canada, China, Czech Republic, Japan, Kenya, Korea, Republic of, Poland, South Africa, Sweden, United Kingdom</b>
P-members voting against: Membres (P) désapprouvant:	<b>0</b>	
P-members abstaining: Membres (P) s'abstenant:	<b>7</b>	<b>France, Germany, Italy, Netherlands, Portugal, Spain, United States</b>
P-members who did not vote: Membres (P) n'ayant pas voté:	<b>1</b>	<b>Russian Federation</b>
Remarks/Remarques		

I hereby confirm that this draft meets the requirements of part 2 of the ISO/IEC Directives  
Je confirme que ce projet satisfait aux prescriptions de la partie 2 des Directives ISO/CEI

Date

Name and signature of the secretary  
Nom et signature du secrétaire**2013-06-18****Feng, Chao Mr**

## Template for comments and secretariat observations

Date: 2013-08-19	Document: ISO/CD 17093 ISO/TC156 N5684
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1	2	(3)	4	5	(6)	(7)
MB <sup>1</sup>	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment <sup>2</sup>	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
JP	All		ge	It is not clear which parts of this document should be obeyed to perform a method out of other electrochemical noise measurements. It seems to readers that things are mixed up. Elaborations by international experts are needed..	Stipulations shall be given in method by method basis.	revised by reflecting the comments from internationally renowned experts
JP	Bibliography		ed	The first reference may not be published yet.	Unpublished articles should not be included in the bibliography.	revised
SE	General		ed	All quantise shall be written in italics. Indices shall normally not be in italics.		corrected
SE	General		te	Sweden proposes that the standard shall be completed with an informative annex with examples showing the practical use of the method.		annex with examples have been added
CZ	2	8044	ed	ISO 8044 is not cited in this document.	Either delete this reference, or add the sentence "For the purposes of this document, the terms and definitions given in ISO 8044 and the following apply." as the introductory wording of Clause 3.	corrected
CZ	2	17475	ed	Both references (in Clause 6 and in 7.1) are undated.	Delete the year of publication.	corrected
SE	3		ed	All terms shall be written in bold types and the first letter shall be written with lower case letter except for the case the first word is a name.		corrected
CZ	4.2		ed	"Section 5" shall be replaced by "Clause 5".	Correct.	corrected
CZ	5.1.3, 5.1.4		ed	"Section 8" shall be replaced by "Clause 8".	Correct.	corrected

1 **MB** = Member body (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the ISO/CS editing unit are identified by \*\*)

2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

**NOTE** Columns 1, 2, 4, 5 are compulsory.

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<b>MB<sup>1</sup></b>	<b>Clause No./ Subclause No./ Annex (e.g. 3.1)</b>	<b>Paragraph/ Figure/Table/ Note (e.g. Table 1)</b>	<b>Type of com- ment<sup>2</sup></b>	<b>Comment (justification for change) by the MB</b>	<b>Proposed change by the MB</b>	<b>Secretariat observations on each comment submitted</b>
CN	7.1		te	This paragraph gives only the method on how to check the reference electrode, but not giving the requirement.	The requirement for the low noise of reference electrode should be given quantitatively.	revised by adding to 7.1 "The noise level of reference electrodes should give a PSD that is at least 10 times lower than the PSD of your system of interest at all frequencies."
CN	7.5		te	Considering the practical application of this guideline, more details should be given about the period of exposure at open circuit prior to noise measurement according to the different purpose of experiment.	Giving the needed time immersed in solution before EN measurement in some typical cases of corrosion testing.	revised by adding to 7.5 "The measurement can also be started immediately on exposure, but care has to be taken that analyses requiring a stationary system will not be valid initially."
JP	Annex		ge	Typical example data and instrumental sets up for method 3.1 electrochemical potential noise, 3.2 electrochemical current noise, 3.3 PSD(e), 3.4 PSD (i), 3.5 electrochemical noise impedance must be shown in Annex.		annex with examples have been added
CN	Annex		ge	It will be better to have some typical examples of EN measurement and analysis of metal corrosion.	For example, corrosion of aluminium alloy or stainless steel.	annex with examples have been added

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## Result of voting

### Ballot Information

<b>Ballot reference</b>	ISO/CD 17093
<b>Ballot type</b>	CD
<b>Ballot title</b>	Corrosion of Metals and Alloys -- Guidelines for corrosion test by electrochemical noise measurements
<b>Opening date</b>	2012-02-03
<b>Closing date</b>	2012-04-03
<b>Note</b>	

### Member responses:

<b>Votes cast (19)</b>	Australia (SA) Belgium (NBN) Canada (SCC) China (SAC) Czech Republic (UNMZ) France (AFNOR) Germany (DIN) Italy (UNI) Japan (JISC) Kenya (KEBS) Korea, Republic of (KATS) Netherlands (NEN) Poland (PKN) Portugal (IPQ) South Africa (SABS) Spain (AENOR) Sweden (SIS) United Kingdom (BSI) United States (ANSI)
<b>Comments submitted (1)</b>	Jamaica (BSJ)
<b>Votes not cast (1)</b>	Russian Federation (GOST R)

### Questions:

<b>Q.1</b>	"Do you agree to the circulation of the draft as a DIS?"
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Votes by members	Q.1
<b>Australia (SA)</b>	Yes
<b>Belgium (NBN)</b>	Yes
<b>Canada (SCC)</b>	Yes
<b>China (SAC)</b>	Yes with comments

<b>Czech Republic (UNMZ)</b>	Yes with comments
<b>France (AFNOR)</b>	We abstain
<b>Germany (DIN)</b>	We abstain
<b>Italy (UNI)</b>	We abstain
<b>Japan (JISC)</b>	Yes with comments
<b>Kenya (KEBS)</b>	Yes
<b>Korea, Republic of (KATS)</b>	Yes
<b>Netherlands (NEN)</b>	We abstain
<b>Poland (PKN)</b>	Yes
<b>Portugal (IPQ)</b>	We abstain
<b>South Africa (SABS)</b>	Yes
<b>Spain (AENOR)</b>	We abstain
<b>Sweden (SIS)</b>	Yes with comments
<b>United Kingdom (BSI)</b>	Yes
<b>United States (ANSI)</b>	We abstain

Answers to Q.1: "Do you agree to the circulation of the draft as a DIS?"		
<b>8 x</b>	<b>Yes</b>	Australia (SA) Belgium (NBN) Canada (SCC) Kenya (KEBS) Korea, Republic of (KATS) Poland (PKN) South Africa (SABS) United Kingdom (BSI)
<b>4 x</b>	<b>Yes with comments</b>	China (SAC) Czech Republic (UNMZ) Japan (JISC) Sweden (SIS)
<b>0 x</b>	<b>No</b>	
<b>7 x</b>	<b>We abstain</b>	France (AFNOR) Germany (DIN) Italy (UNI) Netherlands (NEN) Portugal (IPQ) Spain (AENOR) United States (ANSI)

Comments from Voters		
Member:	Comment:	Date:
<b>China (SAC)</b>	<b>Comment File</b>	2012-03-14 04:53:09

<b>Czech Republic</b> (UNMZ)	<b><i>Comment File</i></b>	2012-04-03 08:50:46
<b>Italy</b> (UNI)	<b><i>Comment File</i></b>	2012-03-20 14:57:44
<b>Japan</b> (JISC)	<b><i>Comment File</i></b>	2012-04-02 07:13:32
<b>Sweden</b> (SIS)	<b><i>Comment File</i></b>	2012-04-02 14:25:27

Comments from Commenters		
Member:	Comment:	Date:
<b>Jamaica (BSJ)</b>	<b><i>Comment</i></b>	2012-03-30 18:25:31
Jamaica agrees with the circulation of the draft as a DIS.		