



ISO/TC145-IEC/SC3C JWG 11 N 114A

ISO
ORGANISATION INTERNATIONALE DE NORMALISATION
INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

IEC
COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE
INTERNATIONAL ELECTROTECHNICAL COMMISSION

Title:	Report of the 13th meeting of ISO/TC 145-IEC/SC 3C JWG 11 held from 2005-08-31 to 2005-09-02 at Österreichisches Normungsinstitut (ON), Heinestraße 38, Vienna, Austria
Source:	Convener/Secretary
Status:	Unconfirmed, for information
Date:	2005-09-16

1. OPENING OF THE MEETING

The convenor welcomed members and thanked ON for providing the meeting facilities. Ing. Kurt Lesigang welcomed members to Vienna on behalf of Dr. Peter Jonas, who was unable to be present.

2. APPROVAL OF THE AGENDA

The revised draft agenda, document N110, was accepted, noting that a report from JWG 11 Task Force would be made available during the meeting.

3. ROLL CALL OF ATTENDANCE

The list of those attending the meeting is given in Annex A. Apologies for absence had been received from Sue Callihan, Motoya Mohri, Josef Rymus, Katsuo Takada and Gerry Webber.

4. REPORTS OF RELEVANT ACTIVITIES SINCE THE 12th MEETING

4.1 Activity in ISO/TC 145

Bob Stratton reported that ISO 80416-4 "Basic principles for graphical symbols for use on equipment – Part 4: Guidelines for the adaptation of graphical symbols for use on screens and displays (icons)" had been published on 2005-08-01, in separate English and French language versions.

4.2 Activity in IEC/SC 3C

Hiroaki Ikeda, the convenor, reported that the IEC/TC 3 common database procedures had been finalized within TC 3, SC 3C and SC 3D (document 3/768/INF) and that consolidated procedures had subsequently been approved by the SMB (SMB/3070A/RV). These would replace Annex J of the IEC Supplement to the

ISO/IEC Directives and Annex K would be withdrawn. SC 3C would now be starting the development of supplementary guidelines in respect of IEC 60417.

The convenor reported that an IEC 1906 Award had been given to Mrs. Anette Schwuchow in recognition of her exceptional achievements related to IEC activities and her significant contribution towards advancing the work of the IEC. Members congratulated Anette on this award.

5. REPORT OF THE 2ND MEETING OF THE AD HOC TASK FORCE

Fred Brigham, task force leader, tabled document Draft JWG 11 N 113, pointing out that on page 5, "Annex 2" should read "Annex 1"; other minor corrections would be incorporated in a revised version of the report to be made available after the meeting. The report detailed action points for ISO/TC 145/SC 3 and IEC/TC 3/SC 3C, which were assumed to be recommendations to JWG 11.

Fred Brigham explained that the report recorded those matters that were either new or changed, otherwise the detail in document JWG 11 N105 was still current. The report represented the end of the work of the Task Force. Fred Brigham explained that he would be putting the guidance notes from N 105 and N 113 together into an informal document for reference by those undertaking the classification work.

JWG 11 discussed the recommendations for classifying arrows and agreed with the approach that all of the examples shown were straight arrows. JWG 11 also supported the procedure proposed for classifying depicting shapes.

The convenor questioned whether it was intended to merge "Symbols by Publication" and "Symbols by Application" in the search for symbols in the IEC-ISO database. Fred Brigham said that the intention was to leave this aspect unchanged.

Regarding Annex 1, the left hand column was now agreed but the order of the application areas was not yet certain; it was agreed that this should be alphabetical. The right hand column was as complete as possible for ISO publications but the IEC entries needed to be completed, possibly by SC 3C. The convenor said that this would involve much work, although he doubted its value as a separate document. It was felt that this work was essential for the ISO symbols but that for IEC symbols the necessary information was already in the database.

Regarding the trial application, the convenor felt that there would be a problem with some IEC symbols that contained letters but were not depicting shapes. Yuji Nakamura said that it would be easy to classify all symbols with letters also in the depicting shape category and this was agreed. The other examples given were felt to be satisfactory.

The convenor felt that the report was a good document as guidance to ISO/TC 145/SC 3 and IEC/SC 3C, not as rules. He said that SC 3C would be sent the classification guidance for approval. If they (and TC 145/SC 3) approved it, Alan Maislich would be asked to implement the classification scheme; he did not feel that SC 3C would take very long to do any necessary work. Fred Brigham stressed the importance of there being consistency between the ISO and IEC committees, e.g. in the interpretation of how to handle arrows. There had been relatively few changes since last meeting and he was confident that the necessary approvals from both committees would be obtained.

Fred Brigham agreed to introduce the necessary corrections to the report and to develop the comprehensive guidance document in time for use by the ISO/TC 145/SC 3 classification task force at their first meeting in December 2005 and for information for IEC/SC 3C at their meeting in October 2005.

The convenor expressed his appreciation to the Task Force members, particularly Fred Brigham, for completing such a difficult and important task in a relatively short time. JWG 11 disbanded its Task Force.

Yuji Nakamura described some possible improvements to the user feel of the joint database, e.g. improving colours, use of buttons, enlarging some of the information, etc. He asked how such proposals for improvement should be put forward. The convenor reported that Jack Sheldon had asked Alan Maislich whether it was now time to involve a professional web designer to introduce changes. Sue Hooker stressed that the immediate need was to get all of the information in the database first and then to consider presentation. This was agreed, however the convenor said that he would raise the improvements mentioned for discussion at the next SC 3C meeting.

6. MAINTENANCE OF IEC 80416-1

JWG 11 reviewed document JWG 11 N 112, which had been prepared by the convenor taking into account the changes agreed already by JWG 11. The intention of the current meeting was to develop a text suitable for circulation as a first CD.

Regarding 7.2, it was agreed that "should not go outside the 75 mm square" should read "shall not..."

John Perry questioned whether the term "graphical symbol for registration" had to be repeated throughout the document. There were many proposals for how best to deal with this and eventually the term "symbol original" was re-introduced, with other changes to the defined terms, as detailed in the updated draft.

Regarding the Bibliography, it was agreed to add ISO/IEC Guide 74.

Regarding 6.2, it was agreed that the listings were subjective and to change "shall" to "should".

Regarding 6.3, Richard Gast thought that it had been agreed to change "line thickness" to "line width". Some members felt that as the word "thickness" had been in use for so long that it should be retained, although following subsequent discussion it was agreed to use the term "line width". John Perry said that references to application symbols and Clause 8 should be deleted. Richard Gast said there needed to be an informative reference to IEC 80416-3, that had not existed when Part 1 was first written. It was agreed that such information would be included in notes to 6.3.

Regarding 6.4, Yuji Nakamura thought that as guideline, the minimum space between parallel lines should not be less than 3 mm and this was agreed.

Regarding 6.9, Yuji Nakamura thought that a single bar from top left to bottom right should be permitted. Sue Hooker suggested including a further example, although others were worried about making changes that may affect other committees that

were dealing with negation. It was eventually agreed to include two options for the purposes of the CD circulation

"[Option 1] The red circle with the red diagonal negation bar is defined in ISO 3864 for prohibition in safety applications. Therefore, the circle with diagonal bar, in any colour including black and white, shall not be used for negation of graphical symbols for use on equipment in order to avoid possible confusion.

[Option 2] The red circle with the red diagonal bar shall only be used for the purpose of prohibition in safety applications. See ISO 3864-1. Therefore, it shall not be used for graphical symbols for use on equipment."

Richard Gast pointed out that, except for packaging, there were 14 negated symbols in ISO 7000, three using a cross and four using a single bar from top right to left bottom. Only a cross was now used in IEC 60417. Yuji Nakamura pointed out that it would sometimes be difficult to use a cross, as a cross could obscure important parts of a symbol, and so there should be a possibility of using a single bar. John Perry said that the use of a cross should be encouraged rather than it being possible to use single bars in either direction. Fred Brigham pointed out that ISO TC 145/SC 1 used a single bar so should we do likewise in the interests of consistent public perception? Should we be deliberately different? Richard Gast said that he would personally be happy to be in line with ISO TC 145/SC 1 and after further discussion John Perry agreed to liaise with the Chairman of ISO TC 145/SC 1 to try to agree a common approach.

Regarding 7.1, it was agreed to include a note detailing where the basic pattern template can be downloaded from ISO and IEC web sites.

Regarding 7.2, Richard Gast said that when IEC 80416-1 was first published, the outside of the octagon became the absolute limit of the symbol whereas he now felt that the outside of the 75 mm square should be the absolute limit. It had to be recognized that for some symbols today and in the future it would not be possible for them to be contained within the octagon. This was agreed. The convenor felt that the definition of nominal size from IEC 80416-3 should be included and this was agreed.

It was agreed to re-word the introductory paragraph to 7.2 and with other agreed changes, 7.2 would now read as follows.

"7.2 Application of the basic pattern

The purpose of the basic pattern is to assist in achieving a visual impression of uniformity among graphical symbols. The visual impression of graphical symbols drawn using the basic pattern corresponds to the basic square of 50 mm nominal size.

A symbol original should fit into the basic pattern according to the following principles:

- a) for a symbol original consisting of a single geometrical form, such as a circle, a square or a rectangle, the corresponding geometrical forms of the basic pattern should be used;

- b) for other symbol originals, care should be taken to ensure that the symbol originals have the same visual impression and uniformity and are consistent with those in ISO 7000 and IEC 60417;
- c) the key element in the basic pattern, with regard to the nominal size, is the 50 mm basic square 2. The basic circle 3 and the rectangles 5 and 6 have the same surface area. Circles without external parts should therefore be drawn on the basic circle 3, and rectangles should be drawn on the rectangles 5 and 6, in order to achieve the same visual impression of size as the basic square 2 of 50 mm. Circles with external graphical symbol elements should be drawn on the circle 4;
- d) symbol originals should be created to the largest size possible, in line with the above principles, and should be drawn within the octagon 8 and shall not extend beyond the 75 mm square 1 of the basic pattern;
- e) insofar as it is practicable, the lines of the symbol original should be centred on the lines of the basic pattern. However the outer border of the lines shall not exceed the 75 mm square 1."

It was agreed that the title of Figure 6 should read "Example of a non-permitted line beyond the basic pattern."

It was also agreed that the examples given in Figure 7 would need to be reviewed and updated, where necessary, for example c) would be replaced by IEC 61417-5184.

Regarding 7.3, it was agreed that this should begin "A version for registration of a symbol original is a drawing of the graphical symbol, including the corner markings as shown in Figure 8. The corner markings correspond to the corners of the 75 mm square 1 in Figure 5 and are used to facilitate accurate positioning and scaling of the symbol original.

Each of the corner markings...."

JWG 11 discussed whether the application of symbols should be in the document at all. Fred Brigham felt that there should be some consideration of suitability in use when developing symbols for registration. Richard Gast felt that there had to be a clear demarcation in that it would not be possible to refuse to register a symbol that complied with the design rules but where it was felt that it would not be clear in use. Yuji Nakamura said that the advice on size in note 2 should be moved to 6.2. and split into 2 notes; this was agreed. In note 1, the first sentence was now redundant and was deleted and a reference to IEC 80416-3 was added to what was note 1.

Regarding Clause 8 (Application), Yuji Nakamura said that the creator of symbols should be aware of how to modify them when they were used on equipment and so some guidance on application would be helpful. It was agreed that application should become Clause 9 with mention of Part 3 and with the examples given in a note.

Gerhard Nentwich said that it would be useful to have information about grammar to be used for titles. Richard Gast said that it would be better to have that on the website, although Anette Schwuchow felt that users should not have to go to several places to get all information needed to be able to submit graphical symbol for registration. It was agreed to include this in an Annex (normative).

Regarding Clause 10 (Designation systems) Yuji Nakamura felt that case 3 could be included under case 1 or 2. He showed examples of case 1 (IEC 5276-1 through to -5) It was agreed to deal with designation in an Annex (informative).

The convenor agreed to prepare a revised text for review by members of JWG 11 in advance of it being made available to IEC/SC 3C and ISO/TC 145 as a CD for comment, with a target for issue of end September 2005.

7. DATE OF NEXT MEETING

The main business for the next meeting would be reviewing comments received on CD 80416-1 and work on terminology. It was agreed that the next meeting would be during the week before the IEC/TC 3 co-ordination meeting, likely to the end of March or the beginning of April 2006. The meeting would be in Vienna over 3 days. It was agreed that the following JWG 11 meeting would be in either the USA or Japan.

8. CLOSE OF MEETING

The convenor closed the meeting with thanks to all members for intensive and intelligent discussions, which had given a very positive result. He thanked Gerhard Nentwich for the meeting arrangements and hospitality and also thanked ON for providing the meeting facilities.

BOB STRATTON
Secretary to ISO/TC 145-IEC/SC 3C JWG 11
HIROAKI IKEDA
Convener for ISO/TC 145-IEC/SC 3C JWG 11

Annex A

Attendance list for the 12th meeting of JWG 11, 2005-08-31 to 2005-09-02

Convenor: Hiroaki Ikeda (Japan)

Secretary: Bob Stratton (UK)

Present

Fred Brigham	UK
Richard Gast	USA
Sue Hooker	USA
Yuji Nakamura	Japan
Gerhard Nentwich	Austria
John Perry	UK
Anette Schwuchow	Germany
John Wall	UK

Secretarial support

Kurt Lesigang	ON
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