



# ISO/TC145-IEC/SC3C JWG 11 N123

**ISO**  
ORGANISATION INTERNATIONALE DE NORMALISATION  
INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

**IEC**  
COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE  
INTERNATIONAL ELECTROTECHNICAL COMMISSION

<b>Title:</b>	<b>Report of the 14<sup>th</sup> meeting of ISO/TC 145-IEC/SC 3C JWG 11 held from 2006-03-27 to 2006-03-29 at Shonan Village Centre, Hayama, Japan</b>
<b>Source:</b>	<b>Convener/Secretary</b>
<b>Status:</b>	<b>Unconfirmed, for information</b>
<b>Date:</b>	<b>2006-04-05</b>

## 1. OPENING OF THE MEETING

The Convenor welcomed members and observers and thanked the Japanese National Committee for hosting the meeting. Motoya Mohri added his welcome on behalf of the organizing committee.

## 2. APPROVAL OF THE AGENDA

The revised draft agenda, document N117B, was accepted, following updating of document references. A request was made for all documents for discussion by JWG 11 to be circulated as JWG 11 N documents, as not all members were able to access documents on the IEC server.

## 3. ROLL CALL OF ATTENDANCE

The list of those attending the meeting is given in Annex A.

## 4. REPORTS OF RELEVANT ACTIVITIES SINCE THE 13<sup>th</sup> MEETING

### 4.1 Activity in ISO/TC 145

Bob Stratton reported that the first meeting of an ISO/TMB ad hoc group (AHG) on Standards as Databases had been held in Geneva in November 2005. He had attended representing the BSI TMB member, Sue Hooker had attended representing the ANSI TMB member and Barry Gray had attended as Chairman of ISO/TC 145. The resolutions of the AHG were given in document TC 145 N 487. The meeting had been an opportunity to find out how various committees were using and developing standards as databases and to consider what changes might be needed to ISO procedures to accommodate them. A Task Force had been established with the initial job of looking at developing a procedure for ISO akin to annex J in the IEC Supplement to the Directives and also aligning this to the current stage code system. Fred Brigham had been nominated to participate in the Task Force on behalf of

TC 145. Fred Brigham reported that the Secretary of ISO/TC 172 had developed a constructive document to take the issue further but that, so far, there had not been much activity.

Bob Stratton also reported that a new member to JWG 11, Mr Oleg V Litvinov, had been proposed by GOST, ISO member for the Russian Federation. Unfortunately, only an incorrect e-mail address had been provided; GOST had been approached to try to obtain correct contact details.

## **4.2 Activity in IEC/SC 3C**

The Convenor reported that the IEC SMB had discussed a proposal from TC 3 for a consolidation of procedures for standards in database format. This included flow charts detailing a "normal database procedure" and an "extended database procedure." The normal procedure involved the establishment of a validation team to cast votes on behalf of national committees, instead of national committees voting on CDV, FDIS etc. This would be a much shorter procedure, taking weeks rather than months. The proposal had been unanimously approved by those voting, for replacement of annexes J and K in the IEC Supplement by a new annex J.

Regarding document JWG 11 N 122, this was a summary of discussion by SC 3C of the classification scheme developed by the JWG 11 Task Force. IEC officers had felt that the proposed scheme was over complex. John Perry felt that their comments were negative, with no detail to back up their views and Fred Brigham pointed out that the complexity was necessary to assist those inputting data into database and was not applicable to the end users of the database.

## **5. COMMON STRUCTURE, CLASSIFICATION SCHEME AND TERMINOLOGY FOR THE JOINT ISO/IEC DATABASE**

### **5.1 Compiled response of SC 3C members on the classification scheme**

Fred Brigham drew attention to the summary of the proposed scheme in document JWG 11 N 116. This had been reviewed by SC 3C, comments being given in document 3C/1424/INF. There was also document ISO/TC 145/SC 3 N 127, which detailed the conclusions from the Moline meeting of the Classification Task Force, circulated for information only.

Fred Brigham explained that the improved classification had started to be applied to symbols from ISO 7000, in the process of which some further improvements had been noted. For the ISO 7000 symbols, there were no descriptions, the inclusion of which would be useful for some of the classification work. Work would be conducted by three groups, in UK, Japan and USA, when output on classification became available from TC 145/SC 3/WG 2. He anticipated that the function and use parts of the classification would be the most difficult without descriptions being available.

Fred Brigham went on to say that the group had wanted to keep as closely as possible to what JWG 11 had agreed, but the proposed enhancements helped, in particular, with the handling of depicting shape symbols. JWG 11 had proposed that when classifying by geometrical form, depicting shape was included. It was now proposed that depicting shape should be shapes other than triangles, squares, etc., with a column included to specify recognisable objects – persons, letters, punctuation, etc.. The "other" box had been expanded to include objects seen by ordinary users and objects used by technical users, which would help, for example, when classifying

symbols for machine tools. Small circles (dots) were also included as there were many symbols that contained many such shapes. Also, it was proposed to extend barrels and ovals to add sausage shape. After discussion, the proposals were accepted.

Regarding the application of the classification scheme to the database, there could be policy issues to be resolved with the IEC CO and for the encoding there would be software issues to consider. SC 3C and TC 145/SC 3 would need to press ISO CS and IEC CO to do what was needed. The scheme was now simpler to implement, with some elements and check boxes now removed. The Convenor said that it would be necessary to tell, via TC 145/SC 3 and SC 3C, ISO and IEC, respectively, that the scheme was now the final proposal from JWG 11 that had to be implemented.

The observation from Japan in document 3C/1424/INF was noted, to be taken into account by TC 145/SC 3 and SC 3C in due course. It was difficult for Japan to be certain about usefulness without experience and Yuji Nakamura stressed the need also to study the user interface. The Convenor said that results would be reported to TC 145/SC 3 and SC 3C, not being transmitted to ISO CS and IEC CO at the moment. Minor changes would be sent to IEC CO as soon as possible.

## **5.2 Current status and terminology used in the joint ISO/IEC database**

Document JWG 11 N 120 had been circulated for information. The Annex included terms and definitions used in the new annex J to the IEC Supplement. These could not be changed, although some of the terms included were used exclusively in our database, e.g. symbol ID, primary form, application, key words, etc.. The Convenor was concerned that the term "symbol ID" was also known as "registration number" and that "name" was used differently elsewhere than in IEC 60417. "Title" was used in some places, although "search term" was more relevant to IEC 60417. Fred Brigham pointed out that some of these differences were for historical reasons.

Regarding future work on terminology, TC 145/WG 3 activity was relevant as they were collecting all terms used in standards developed by TC 145 and its SCs. Fred Brigham commented that it would be good to harmonize terminology overall and to introduce more consistent use of terms such as name, title, etc. This was generally supported.

## **6. MAINTENANCE OF IEC 80416-1**

JWG 11 reviewed the combined comments from ISO and IEC members, given in document JWG 11 N 119, their resolution of the comments being documented in 3C/1410A/CC immediately published after the meeting. Some key points of the discussion during the resolution of comments are given below.

Whereas in document 3C/1132/INF (2004), Germany had supported the revision of IEC 80416-1, they were now saying that they would prefer to retain the original. This was noted.

Regarding subclause 6.2, John Perry felt that design should be in an Annex. Sue Callihan thought that the notes drew attention to all factors that needed to be taken into account by designers. Richard Gast said that it was important that symbols being developed should not be too complex. After discussion, it was considered that notes 2 and 3 were not helpful and it was agreed that they should be deleted.

Regarding line width, the proposal from Germany was rejected as no alternative proposal had been given. John Perry had carried out a review of what was done in practice and many major companies, e.g. Phillips and Siemens, drew symbols with a line width of 4 mm; none of them used 2 mm. He thought that it would be better to start at 4 mm and go down rather than expand up from 2 mm when applying symbols. Motoya Mohri pointed out that for a complex symbol with many elements, it would not be possible to draw it using a 4 mm line width; 2 mm gave more freedom of design. The Convenor pointed out that the standard was aimed at committees who wanted to register symbols, rather than industry practice, although Sue Hooker pointed out that we should register what industry designed. Richard Gast pointed out that, if we started with 4 mm, fewer symbols would need to be re-drawn when they were applied than if we started with 2 mm. There should be as little change as possible when applying those symbols that were registered. After discussion, it was agreed to amend the first two sentences of 6.2 to, read "The line width of a symbol original shall be 2 mm minimum. In general, a line width of 4 mm is recommended."

Regarding negation, John Perry pointed out that many products had safety signs on them that were black. For example, some medical symbols had safety implications. If we were to allow the approach suggested by the USA, we would have two sets of signs that were relevant to safety. Richard Gast said that it was essential to address "do not". He said that he would be happy using just the cross for "do not", even though some existing symbols would not comply. The Convenor said that someone had to develop a discussion document to try to get global agreement on this issue, although there was concern that this could significantly delay the revision of IEC 80416-1. It was proposed that UK comment 16 could be modified to add "(such as "do not")". This was agreed with 6.9 being re-drafted. This approach would solve the problem for TC 145/SC 3 in the interim while wider discussions take place. It was noted that there were nine "do not" symbols in ISO 7000, six of which used a cross or a single diagonal bar.

Regarding nominal size, Motoya Mohri felt that comment JP 1 was logical but as nominal size could not be seen easily in the database it was not easy to use. The Convenor pointed out that nominal size was mentioned in IEC 80416-1 for creation purposes, e.g. in figure 3, but that in actual drafting/evaluation work it was never used, nor was it mentioned in the database. Yuji Nakamura said that it was mentioned in several places in the draft, but no explanation was given as to how it was to be used. Fred Brigham felt that it only showed the logic behind the basic pattern, did not relate to the registration process and was confusing. Yuji Nakamura said that a manufacturer would scale down from the nominal size to the actual size used on equipment, which he could just as easily do based on the 75 mm dimension. Fred Brigham said that the important consideration was that the basic pattern was used to achieve uniform visual impression. Sue Callihan said that designing symbols based on nominal size would reduce the size of symbols down to 50 mm. After further discussion comment JP 1 was withdrawn.

Regarding clause 8, John Perry provided a re-drafted version, which mainly added information to take account of ethnic sensibilities. Sue Callihan felt that the clause was a fundamental part of the document. The re-written clause, after amendment, was agreed to become a new Clause 4.

Regarding the UK proposal to remove Clause 9, the Convenor said that it was useful for users of IEC 80416-1 who may not see IEC 80416-3. It was agreed to retain Clause 9 but to delete the note.

Regarding the proposal to delete annex B, the Convenor pointed out that the database would be used by a variety of users. The designation system was very technical and most users would not be interested in it or even in the source of the symbol in which they were interested. He pointed out that designation was not within the scope of IEC 80416-1, hence it was in an informative annex. The information could be in the introductory part of the database, but that it did no harm for it also to be in annex B. After discussion, it was agreed to retain the annex and there was also support for designation being included in the database.

It was agreed that a revised text would be prepared and circulated to those present at the meeting for review and confirmation before being made available to the entire membership of JWG 11 and being progressed to CDV/DIS parallel ballot in IEC/SC 3C and ISO/TC 145.

## **7. DATE OF NEXT MEETING**

The main business for the next meeting would be reviewing comments received on CDV/DIS 80416-1. It was agreed that the next meeting would probably need to be February or March 2007, depending on when the CDV/DIS was actually circulated, and it was agreed to accept the kind offer from Josef Rymus to meet in Prague. The subsequent JWG 11 meeting would be in the USA.

## **8. CLOSE OF MEETING**

Before the meeting closed, Mr Hirotsugu Ohguma, Secretary to the Japanese Mirror Committee for JWG 11 thanked all members for coming to Japan and hoped that they had had an opportunity to see some of the scenery and cherry blossom.

The convenor closed the meeting with thanks to all members for their input.

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

## **Annex A**

### **Attendance list for the 13<sup>th</sup> meeting of JWG 11, 2006-03-27 to 2006-03-29**

**Convenor: Hiroaki Ikeda (Japan)**

**Secretary: Bob Stratton (UK)**

#### **Members Present**

Sue Callihan	USA
Richard Gast	USA
Sue Hooker	USA
Motoya Mohri	Japan
Yuji Nakamura	Japan
Fred Brigham	UK
John Perry	UK
John Wall	UK

#### **Observers from Japan**

Hisaaki Kato  
Haruyoshi Morita  
Yoshinari Horimoto  
Takashi Matsubara  
Akishige Sai  
Katsayuki Fukutake  
Teruaki Takigawa  
Hirotosugu Ohguma