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RM 2817/TC 3
October 1985

INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE NO 3: GRAPHICAL SYMBOLS

Unconfirmed Minutes of the meeting
held in Helsinki
on the 18th March 1985

Present: Chairman: Mr M. Ducommun, Switzerland
Secretary: Mr E. Ruosch, Switzerland

<u>Country</u>	<u>Delegates</u>	<u>Country</u>	<u>Delegates</u>
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BELGIUM	G.N. Marechal (SC 3B/WG 2)	NETHERLANDS	P.D.C. Reefman J. Vlietstra (SC 3B/WG 2)
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CANADA	J.S.K. Kwan	SWEDEN	B. Kiessling C. Svensson P-Å. Svensson B. Åkerberg
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FRANCE	J. Bodin J. Dubray J. Giraud R. Mauduech A-M. Schwab (Miss)	CENTRAL OFFICE	M. Sabev (Mrs.)
GERMANY	E. Abel F. Fuchs H-P. Grode (ISO/TC 145) H. Höpp F. Licht R. Seeling		
INDONESIA	S. Sastrosewojo		

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1. OPENING OF THE MEETING

The chairman, Mr Ducommun, opened the meeting and welcomed the delegates. He thanked the Finnish National Committee for the kind hospitality and meeting arrangements.

Mr T. Ilomäki, Executive Secretary of the Finnish Standard Organisation, welcomed the delegates in Helsinki and wished a successful meeting.

2. APPROVAL OF THE DRAFT AGENDA 3(CENTRAL OFFICE)556

The draft agenda was accepted by changing the order of item 4a to 3a.

3. CONFIRMATION OF THE MINUTES OF THE MEETING HELD IN MILAN ON 16TH MAY 1983 - RM 2605/TC3

The minutes were approved with little amendments.

Page 11, first line: WG SC3B/WG1
Page 13, SC3C: See Doc. RM 2626/SC3C
Page 15, item 6.1: Both documents mentioned may be obtained by the Central Office.

4. REPORT OF THE CHAIRMAN OF THE CCI/IEC JOINT WORKING GROUP: GRAPHICAL SYMBOLS FOR TELECOMMUNICATIONS

The chairman, Mr Reefman, read his report:

The last meeting of the CCI/IEC Joint Working Group has been held in Paris from the 2nd to the 4th May 1984 on the kind invitation of the French National Committee.

The following items were discussed:

- symbols for audio-visual systems
- symbols for Telecommunications equipment (CEPT proposal)
- symbol for position switch with positive opening operation
- symbols for busbar trunking systems (busways)
- a symbol for a trip-free mechanical switching device
- symbols for semi-conductor contacts and switches
- preparation of control system function charts
- CAD developments and DNI-language
- symbols for alarm systems
- membership list of JWG

The next meeting will be held in Darmstadt (Germany) from the 10th to the 21st June 1985 on the kind invitation of the Ministry of Posts and Telecommunications.

5. REPORTS FROM SUB-COMMITTEES AND THEIR WORKING GROUPS

5.1 SUB-COMMITTEE 3A: GRAPHICAL SYMBOL FOR DIAGRAMS

Mr Reefman read this report:

The last meeting of IEC Sub-Committee 3A has been held in Milan from the 16th to the 18th of May 1983.

During this meeting the following items were discussed:

Document 3A (Central Office) 142: Draft-publication 617-2-Section 3: Symbol for automatic control.

Document 3A (Central Office) 145: Draft-publication 617-7-Chapter 8: Miscellaneous aircraft symbols.

Document 3A (Central Office) 146: Draft-publication 617-6-Part 6 - Production and conversion of electrical energy-Symbol for linear motor.

Document 3A (Secretariat) 102: Draft-Graphical symbols for diagrams - Controlled ideal sources.

Document 3A (Secretariat) 103: Draft-Graphical symbols for diagrams - Sensors.

Further there were several recommendations from IEC SC 3B/WG 2, dealing with the impact of CAD/CAM on graphical symbols, which had to be discussed.

After the SC 3A meeting, there were several contacts with the Central Office regarding the preparation of Publication 617.

As you have seen all the 13 Parts of Publication 617 are available now, except Part 1: General Information, General Index. Cross-reference tables.

This part is still under preparation because the Central Office had some difficulties with the index, but it can appear any moment.

The only task with respect to Publication 617 that remains is that Part 13: Analogue Elements, has to be supplemented in the proper way so that it is in line with the other Parts of the Publication.

5.1.1 WORKING GROUP 2: GRAPHICAL SYMBOLS INFORMATION PROCESSING

Mr Reefman read this report:

Report on recent activities of SC 3A WG2 (Graphical symbols for information processing)

Since the last meeting of SC 3A in Milan (May 1983), WG2 has met:

- in Edinburgh from 3rd to 7th October 1983;
- in The Hague from 26th to 30th May 1984;
- In Paris from 24th to 28th September 1984.

The fruit of many years of work by WG2, for some time together with WG4, Publication 617-12, appeared in July 1984. But even before 617-12 was published, WG2 prepared proposals for supplements. In these supplements, new material will be introduced without amendments to the existing publication. Only additions to texts and a number of new illustrations, symbols and examples are proposed. The following documents have been circulated as a result of the work by WG2:

Supp.	Title	3A(Secretariat)nr.	
A	Complex-function elements	114	(*)
B	FIFOs	111	(*)
C	Transmission dependency, bidirectional multiplexer/demultiplexer	107	(*)
D	Simplification of address indication	108	(*)
E	Output with special amplification, addition to Note 2 with symbols 12-09-27 and 12-09-30	109	(*)
F	Ripple counters	112	(*)
G	Descriptions for inputs and outputs of arithmetic elements	110	(*)
H	Array-structured elements	126	
I	Display elements	113	(*)
K	replacement of X by indications other than designations of the input code	116	(*)
L	Use of the bidirectional signal flow indication	127	
M	Replacement of Y by indications other than designations of the output code	117	(*)

(*) on the agenda of SC 3A (March 1985)

During its meeting in Paris, the WG decided - taking into account the available comments - to propose to SC 3A the following procedure for the various documents:

- 107 to be circulated as an improved Secretariat document, with accelerated procedure
- 108 to be dropped
- 109 to be circulated as Central Office document
- 110 to be circulated as Central Office document
- 111 to be circulated as an improved Secretariat document, with accelerated procedure
- 112 to be circulated as Central Office document
- 113 new Secretariat document to be circulated
- 114 to be circulated as an improved Secretariat document, with accelerated procedure
- 116 to be circulated as an improved Central Office document, with some editorial changes
- 117 to be circulated as Central Office document, with some editorial changes

As a result of the discussions during its last meeting, the WG has plans for five more proposals for supplements to 617-12:

- Extension of the bit grouping; introduction of a "label distribution grouping" symbol
- Addition of an illustration on page 22
- Clarification of Clause 6.1.2
- New Clause 6.4
- Clarification of Note with symbol 12-09-11

Furthermore, the WG is drafting a proposal for a supplement to Publication 617-13.

The next meeting of WG2 is scheduled to be held in Boston from 6th to 10th May 1985.

5.2. SUB-COMMITTEE 3B: PREPARATION OF DIAGRAMS, CHARTS AND TABLES, ITEM DESIGNATIONS

Mr Hay, chairman of SC3B, read his report 3(Helsinki/SC3B)4, see ANNEX 1.

5.2.1 WORKING GROUP 1: CONTROL SYSTEM FUNCTION CHARTS

Mr Reefman, chairman of SC 3B/WG1, read this report:

During its meeting in Milan, 18/19 May 1983, SC 3B considered Documents 3B (Secretariat) 33/34 and the comments received from National Committees or tabled during the session.

As there is a firm intention to produce the Draft for the final IEC Publication: "Preparation of control system function charts" in 1985, SC 3B/WG 1 has met in Berlin West from Tuesday 7th June 1983 to Thursday 9th June. During this meeting:

- a. All comments received were considered in detail.
- b. The technical contents for a single document dealing with sequential and combinational function charts was made up.

SC 3B/WG 1 has also met in The Hague, week 38 (19-23 september 1983) to achieve the preparation of the new draft, that has been distributed now as 3B (Secretariat) 40 and will be considered during this meeting.

5.2.2 WORKING GROUP 2: COMPUTER AIDED DESIGN: ASPECTS ON THE PREPARATION AND USE OF DIAGRAMS, CHARTS AND TABLES

The chairman of 3B/WG 2, Mr T.R. Smith, summarized his report: Overview of the work of IEC/SC3B WG 2 (See document 3B(Secretariat)43.

5.3. SUB-COMMITTEE 3C: GRAPHICAL SYMBOLS FOR USE ON EQUIPMENT

Mr H. Höpp, chairman of SC3C, gave a survey of the work of SC3C.

TC3 agrees with the use of symbols of SC3A as symbols on material or equipment. It is a normal way to derive SC3C-symbols from SC3A-symbols. No formalities for the approval are necessary, even to redraw the symbols.

6. DISCUSSION OF DOC 3(SECRETARIAT)419 - NEW SCOPE OF TC3

After a longer discussion, the new title and scope of TC3 was amended to read:

Proposal

New title of TC3

Documentation and graphical symbols

New scope of TC3

For the electrotechnical and related fields, in liaison with the associated committees and international organizations, to prepare international standards regarding:

- graphical symbols for use in documentation and for use on equipment
- general rules for preparing technical documentation of a device, equipment, system or plant, including diagrams, charts, tables, descriptions, etc.

This includes definition and coordination of the information required to plan, develop, describe, install, maintain and operate a device, equipment, system, or plant, taking into account all facilities of information processing systems, their data handling and system-independent data exchange formats.

Nouveau titre du CE 3 :

"Documentation et symboles graphiques"

Nouveau domaine d'activité du CE 3 :

"Pour les domaines de l'électrotechnique et les secteurs connexes, en liaison avec les Comités et organisations internationales apparentés, établir des normes internationales sur :

- les symboles graphiques à utiliser dans la documentation et sur le matériel ;
- les règles générales pour l'établissement de la documentation technique d'un dispositif, d'un matériel, d'un système ou d'une installation, y compris les schémas, diagrammes, tableaux, descriptifs, etc.

Cela comprend la définition et la coordination des renseignements requis pour planifier, mettre au point, décrire, installer, entretenir et exploiter un dispositif, un matériel, un système ou une installation, compte tenu de toutes les caractéristiques des systèmes de traitement de l'information, de leurs modes de saisie, de traitement et d'échange de données indépendantes des systèmes."

7. CHAIRMAN'S MATTERS

a) DISCUSSION OF 3(SECRETARIAT)421 - DRAFT-PROCEDURES FOR STANDARDIZING GRAPHICAL SYMBOLS

The document was discussed and accepted in principle. The sub-committees will discuss the part they are concerned with and submit their comment to the chairman of TC3.

b) COOPERATION WITH IEC TC65 AND ISO TC 10

Mr Åkerberg, Delegate of TC3 in this Committee, explains his report 3(Helsinki/Åkerberg)5.

The coordination - situation could be much better and it is proposed to work out together graphical symbols by ISO and IEC, especially in view of the symbol data bank.

c) LIAISON WITH ISO TC184 SC5

In the letter of 7th March 1985 the General Secretary of IEC, Mr C.J. Stanford, transmits the wish of ISO TC184 SC5 for a formal liaison to be established with our committee. TC3 is in favour of such a liaison and the US-delegation accepts to look for a representation in this Committee.

At the level of the National Committees it shall be tried to find a satisfactory coordination between the different involved committees as well of IEC as of ISO-side.

8. FUTURE WORK

None

9. ANY OTHER BUSINESS

None

10. DATE OF NEXT MEETING

Probably in autumn 1986

11. CLOSE OF THE MEETING

The Chairman thanked the delegates for the kind collaboration and closed the meeting.

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