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3A/482/RM

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE NO. 3:
DOCUMENTATION AND GRAPHICAL SYMBOLS

SUB-COMMITTEE 3A: GRAPHICAL SYMBOLS FOR DIAGRAMS

**Unconfirmed Minutes of the meeting of SC 3A held
on 22nd and 23rd October 1997 in New Delhi, India**

Present:

Chairman: Mr. E. Abel (Germany)

Secretary: Mr. A. Fornalski (Switzerland)

Central Office: Mr. R. Cordelier

<u>Country</u>	<u>Delegates</u>	<u>Country</u>	<u>Delegates</u>
CHINA	Mrs. Y.H. Liu Mrs. Y. Lu Mrs. G. Ting	JAPAN	Mr. H. Ikeda
DENMARK	Mr. I.G. Joergensen Mr. K.A. Thorn	MALAYSIA	Mr. T.P. Goh
FINLAND	Mr. T. Viitanen	NORWAY	Mr. J. Pettersen
FRANCE	Mr. J. Bodin Mr. J. Dubray	SINGAPORE	Mr. B.C. Tan
GERMANY	Mr. H. Brückner Mr. R. Scholz	SWEDEN	Mr. B.I. Sjögren
INDIA	Mr. D. Goswami Mr. V.K. Khandelwal Mr. P. Kumar	UNITED KINGDOM	Mr. G.B. Nicholson
ITALY	Mr. G. Chiarella		

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1. Opening of the meeting

The Chairman welcomed the delegates and opened the meeting. He addressed a special welcome to the representative of the Central Office and to the delegates from the host National Committee of India.

Mr. Khandelwal addressed his welcome to the delegates on behalf of the Indian National Committee wishing them a successful meeting.

2. Approval of the agenda

The agenda was approved with the remark that the forthcoming work in SC 3A should be carefully discussed during the meeting.

3. To confirm the Minutes of the meeting held on 28 and 29 October 1996 in Helsinki 3A/465/RM

The minutes were approved without comments and with thanks to the Secretary for preparation.

Mr. Cordelier has explained that according to the new rules the minutes shall be approved in future on the correspondence way in two months after dispatching and not be included in the agenda of the next meeting.

4. Progress report of the Secretary of SC 3A since Helsinki 3A/480/INF

The report 3A/480/INF was introduced by the Secretary. The document register included in it was found very useful.

5. Reports from the Working Groups

5.1. SC 3A/WG 1: Revision of IEC 60617-2 through 617-11

There was no presentation of report from WG 1 since this Working Group has no Convenor and is not active at the time.

For the decision on reactivating WG 1 see item 13.

5.2. SC 3A/WG 2: Graphical symbols for information processing 3A/476/INF

The report from the Convenor as in document 3A/476/INF was notified. SC 3A is concerned about the limited resources of the Working Group.

6. Information from the Central Office

Mr. Cordelier has introduced a new approach for New Work Item Proposals which was decided by the Committee of Action in New Delhi. There are different procedures and acceptance criteria for a completely new work and for maintenance (revision) of existing standards. Details may be found in the Minutes of the Committee of Action from New Delhi.

The Central Office has decided to provide an infrastructure for installing a data base for graphical symbols with access via Internet. Reference is made in this respect to the resolution 22/97 of Group A of the Committee of Action from New Delhi.

7. ISO 14617-1 to -5: Common parts to ISO and IEC

7.1. To note the actual status in ISO

Since the voting results on the first common parts ISO DIS 14617-1 to -5 were negative (DIS in ISO corresponds to CDV in IEC), it was decided to prepare a second DIS for vote.

SC 3A is concerned about the lack of transparency on what is prepared in JWG 10 on this subject. It seems that despite the decisions made by the IEC/CA and the ISO/TMB to prepare a Technical Report in a first step, ISO intends to prepare Standards for parts -1 to -5 which are common to IEC and ISO. A suitable complaint should be made by TC 3 to the Committee of Action.

A discussion of the Chairman and the Secretary with the Officers of the Central Office, Mr. J.-P. Brotons-Dias and Mr. R. Cordelier, has taken place prior to the meeting of SC 3A in New Delhi. A proposal was agreed that if ISO will not follow the decision made by the CA and TMB to publish ISO 14617-1 to -5 as a Technical Report, all symbols for electrical applications originated from IEC 60617 shall be excluded from the ISO-Standard. SC 3A could only agree with Part 1 as ISO Standard containing a general concept for the future development of a common IEC-ISO Standard for graphical symbols for diagrams.

Decision 1

In order to concentrate available resources, to speed up the work on Task II of WG 1 and to make IEC 60617 available on a data base as soon as possible, the parallel work with ISO shall be stopped. It means that in the near future SC 3A will not undertake activities connected with the preparation of the common ISO-IEC 14617 series. TC 3 should recommend to the Committee of Action to take all measures to stop publication of ISO 14617-1 to -5 as an International Standard in order to avoid conflicting standards with the IEC 60617 series.

7.2. Information distributed within SC 3A

3A/464/INF

Document 3A/464/INF, containing ISO DIS 14617-1 to -5, was distributed in SC 3A in order to give information to the National Committees what is going on in ISO. There was no intention to discuss this document in SC 3A and it was notified during the meeting.

7.3. To discuss the comments received

3A/473/INF

There was no discussion of the comments received due to the informative character of the document. It was notified that most comments of the National Committees are related to discrepancies with IEC 60617 and to the status the document i.e. that the document shall be published by ISO as a Technical Report and not as an International Standard.

7.4. Further action in SC 3A

This subject was discussed under 7.1

8. To note the current documents and their further development

8.1. Draft TR - Mnemonics for integrated circuits Report of voting

3A/460/CDV
3A/472+A/RVC

SC 3A agreed with the publication of the Technical Rapport in a next step, taking into account the comments received and the observation of the Convenor of the WG 2 as in document 3A/472A/RVC.

Decision 2

The Secretary will arrange with WG 2 the preparation by June 1998 of a Camera Ready Copy for printing TR.

8.2. Proposal of SC 3A/WG 2: Amendment to IEC 60617-12 (ed. 3, 1997, to be published in December 1997) Report of voting

3A/461/NP
3A/469/RVN

Decision 3

WG 2 is requested to prepare a follow-up document by the end of December 1998. It is left to WG 2 whether it shall be CD or CDV.

8.3 Graphical representation of analogue and digital functions

3A/466/INF

Document 3A/466/INF was notified. The content of this document is included in the IEC TC Newsletter No. 2 - October 1997, under the heading „Horizontal work deserves more support.“

9. To discuss the documents

9.1. Draft - New symbols for devices used in building installations Compilation of comments

3A/458/CD
3A/468/CC

The following conclusions were agreed regarding comments collated in document 3A/468/CC:

BE 1: The orientation of the symbol depends on its use on the diagram.

BE 2: Editorial, accepted

BE 3: To be considered on the next step. The German NC will prepare a proposal for an example of an installation diagram. This example should be forwarded to SC 3B in order to be included in IEC 61082.

DK: Accepted

FR 1: Editorial, accepted

FR 2: It does not belong to the headline

FR 3: It should be explained with examples

DE c: Accepted

DE d: Accepted

DE f: The change of the arrow is not accepted, the change of the description is accepted.

The symbols g, h and i shall be examples.

Decision 4

The German NC is requested to prepare a second CD by 1998-02 taking into account the above conclusions and also the Swedish proposal as it is included in 3A/468/CC.

- 9.2. *Draft - New symbols for gas zone diagrams* 3A/467/CD
Compilation of comments 3A/478/CC

The symbols shall have short names. The majority of the delegates were of the opinion to prepare a CDV as a next step.

The title should read: „Symbols for gas zone“.

The French delegate agrees to provide the French translation.

Decision 5

The GB National Committee is requested to prepare CDV by 1998-02 taking into account a shortening of the names.

- 9.3. *Proposal of the German NC on 617 data base* 3A/470/INF
Collation of comments 3A/479/INF

Because of common interest for this item the representatives from SC 3D were invited for the beamer presentation on this subject. The presentation of the preliminary concept of the data base was made by the German delegate, Mr. R. Scholz.

It was explained that the data base contains only the graphical symbols, indexes and descriptions as they are standardized in IEC 617. In the actual form it cannot create graphical symbols. There are no possibilities to change the graphical symbols, which are in separate files connected to the data base (by OLE). There is also no possibility to use the symbols directly in CAD-systems.

The discussion shows that there is a great demand for such a data base, as it is a powerful tool for maintenance and future editions of IEC 60617 making easier preparation of drafts in Working Groups.

Special thanks were addressed to Mr. Topp from the German National Committee who has prepared this data base. It is also hoped that in the future he will be supported by the German NC, due to importance and necessity for a quick realization of the data base.

The data base shown in the presentation (at the moment limited to IEC 60617-3) is available on request in an electronic format.

Decision 6

SC 3A recommends TC 3 to set up a special Task Force for further development of a data base. This Task Force shall be allocated to TC 3, as the data base is also of interest to the other SCs which should have a chance to contribute to this work. DE, DK and NO delegates have declared to take part in this Task Force. The other National Committees are also invited to participate in this work.

3A/477/INF

9.4. *Preliminary draft on revision IEC 60617-1: General provisions and indexes*

The Japanese comments were tabled at the meeting and the following conclusions were agreed:

comment 1a, accepted

comment 1b, accepted

The indexes should be delivered on a diskette together with IEC 60617-1. The Internet access will be examined by the Central Office.

The specific Japanese comments were accepted.

Decision 7

After consulting Mr. Cordelier it was confirmed that there is no need to start with NP, since this subject belongs to the 2nd edition of IEC 60617 which has already been published in 1996. The Secretary is requested to prepare CDV by 1998-03.

10. Follow-up decisions from Helsinki

3A/465/RM

This item was discussed together with item 13.

11. To consider the documents being of interest to SC 3A

11.1. *Amendment to IEC 60617-7. Tulip symbol for universal modular fuse*

3A/475/NP

This draft originating from SC 32C was parallelly distributed in SC 3A and SC 3C. The opinion was expressed that this symbol belongs only to SC 3C and the National Committees should vote accordingly. To determine the further procedure, the result of voting must be awaited. The limit date for vote is 1997-12-15.

SC 3A will take care not to reject proposals coming from product committees without careful consideration and constructive contributions to solve a given problem.

Decision 8

To await the result of voting on the subject document.

11.2. *Electronic handling of graphical symbols*

3/506/INF

Document 3/506/INF was noted. It shall be taken into account by the Task Force on the database (see 9.3).

11.3. *Consolidation of the structure of TC 3*

3/519/INF

Document 3/519/INF was notified.

12. To note the Report to the Committee of Action and Strategic Policy Statement of TC 3 and Subcommittees

02/1002/RCA

The French delegate expressed his opinion that it shall be clearly stated that experts in Working Groups may represent interests of their company and not necessarily those of the National Committee. This should attract the companies involved and encourage them to delegate experts to Working Groups.

Decision 9

The text of the document 02/1002/RCA pertaining to SC 3A will be revised by the Secretary taking into account the results of this meeting.

13. To up-date the Programme of work of SC 3A

3A/474/PW

The work status report on the programme of SC 3A, based on document 3A/474/PW, was tabled at the meeting and introduced by the Secretary. It shall be adopted to the results of this meeting.

Concern was expressed by the Central Office on shifting limit dates for specific projects of SC 3A. According to the Directives, such projects will be automatically put into PWI stage.

Decisions 10

- a) WG 1 shall be reactivated with the goal to develop Task II in time. For this purpose it is important to find a new Convenor. The Japanese National Committee was asked to consider the possibility to overtake the convenorship of WG 1, and the German National Committee to provide support to the convenor, taking into account the results of work of the Task Force on the data-base. No Administrative Circular will be distributed on this matter. Instead, informal arrangements by the Chairman and Secretary should be done, if necessary with the support of officers of TC 3. An attempt should also be made for obtaining an additional support to the Secretary enabling him to be more involved in the work on Task II.
- b) Task II of WG 1 shall be developed with first priority.
- c) It was decided to delete all PWI projects from the Programme of work of SC 3A, as they are not active for years.
- d) The Secretary will prepare a revised programme and send it asap to the Central Office in order to update the IEC database. All WGs, National Committees or other contractors, which are responsible for the preparation of particular projects, are requested to finish their task within limit dates as stated in the revised Programme of work of SC 3A (see ANNEX B). Possible requests for changing limit dates for projects pending since Helsinki meeting shall be forwarded to the Secretary as soon as possible.

14. Term of office of the Chairman of SC 3A

The delegates have supported the extension of the term of office of the Chairman of SC 3A for the next period.

Decision 11

TC 3 is requested to approve an extension of the term of office of the Chairman of SC 3A for the next period of 3 years.

15. Any other business

Concern was expressed about resources, which in most cases are not sufficient for the proper development of projects.

A closer co-operation with SC 3B was requested in order to assure the right use of graphical symbols on diagrams.

16. Date and place of the next meeting

This item will be decided in TC 3. An invitation from the Danish National Committee is being negotiated.

Note: The meetings of TC 3 and SCs are confirmed to be held in the period from 5th to 13th November 1998 in Charlottelund, Denmark.

17. Close of the meeting

The Chairman thanked the delegates for their contributions during the meeting and the host delegates from the Indian NC for its kind invitation and for providing all facilities. Then he declared the meeting closed.

Item	Doc No	Subject & Decision	Action by
7.1	3A/464/INF	<p>ISO 14617-1 to -5: Common parts to ISO and IEC</p> <p><i>Decision 1.</i> In order to concentrate available resources, to speed up the work on Task II of WG 1 and to make IEC 60617 available on a data base as soon as possible, the parallel work with ISO shall be stopped. It means that in the near future SC 3A will not undertake activities connected with the preparation of the common ISO-IEC 14617 series. TC 3 should recommend to the Committee of Action to take all measures to stop publication of ISO 14617-1 to -5 as an International Standard in order to avoid conflicting standards with the IEC 60617 series</p>	TC 3
8.1	3A/460/CDV	<p>Draft TR - Mnemonics for integrated circuits</p> <p><i>Decision 2.</i> The Secretary will arrange with WG 2 the preparation by June 1998 of a Camera Ready Copy for printing TR.</p>	WG 2
8.2	3A/461/NP	<p>Amdt to IEC 60617-12, ed. 3(199x)</p> <p><i>Decision 3.</i> WG 2 is requested to prepare a follow-up document by the end of December 1998. It is left to WG 2 whether it shall be CD or CDV</p>	WG 2
9.1	3A/458/CD	<p>New symbols used in building installations</p> <p><i>Decision 4.</i> The German NC is requested to prepare a second CD by 1998-02 taking into account the above conclusions and also the Swedish proposal as it is included in 3A/468/CC</p>	Germany
9.2	3A/467/CD	<p>New symbols for gas zone diagrams</p> <p><i>Decision 5.</i> The GB National Committee is requested to prepare CDV by 1998-02 taking into account a shortening of the names</p>	United Kingdom
9.3	3A/470/INF	<p>German proposal on 60617 database</p> <p><i>Decision 6.</i> SC 3A recommends TC 3 to set up a special Task Force for further development of a data base. This Task Force shall be allocated to TC 3, as the data base is also of interest to the other SCs which should have a chance to contribute to this work. DE, DK and NO delegates have declared to take part in this Task Force. The other National Committees are also invited to participate in this work.</p>	TC 3 National Committees
9.4	3A/477/INF	<p>Revision of IEC 60617-1: General provisions and indexes</p> <p><i>Decision 7.</i> After consulting Mr. Cordelier it was confirmed that there is no need to start with NP, since this subject belongs to the 2nd edition of IEC 60617 which has already been published in 1996. The Secretary is requested to prepare CDV by 1998-03</p>	Secretary
11.1	3A/475/NP	<p>Tulip symbol for universal modular fuse</p> <p><i>Decision 8.</i> To await the result of voting on the subject document</p>	

12	02/1002/RCA	<p>Report to the Committee of Action an SPS</p> <p><u>Decision 9.</u> The text of the document 02/1002/RCA pertaining to SC 3A will be revised by the Secretary taking into account the results of this meeting</p>	Secretary
13	3A/474/PW	<p>To up-date the Programme of work of SC 3A</p> <p><u>Decision 10a.</u> WG 1 shall be reactivated with the goal to develop Task II in time. For this purpose it is important to find a new Convenor. The Japanese National Committee was asked to consider the possibility to overtake the convenorship of WG 1, and the German National Committee to provide support to the convenor, taking into account the results of work of the Task Force on the data-base. No Administrative Circular will be distributed on this matter. Instead, informal arrangements by the Chairman and Secretary should be done, if necessary with the support of officers of TC 3. An attempt should also be made for obtaining an additional support to the Secretary enabling him to be more involved in the work on Task II</p> <p><u>Decision 10b.</u> The Task II of WG 1 shall be developed with first priority</p> <p><u>Decision 10c.</u> It was decided to delete all PWI projects from the Programme of work of SC 3A, as they are not active for years</p> <p><u>Decision 10d.</u> The Secretary will prepare a revised programme and send it asap to the Central Office in order to update the IEC database. All WGs, National Committees or other contractors, which are responsible for the preparation of particular projects, are requested to finish their tasks within limit dates as stated in the revised Programme of work of SC 3A (see ANNEX B). Possible requests for changing limit dates for projects pending since Helsinki meeting shall be forwarded to the Secretary asap</p>	<p>Germany, Japan, Chairman & Secretary</p> <p>WG 1</p> <p>Central Office</p> <p>Secretary, WG 1, WG 2 and National Committees involved</p>
14		<p>Term of office of the Chairman of SC 3A</p> <p><u>Decision 11.</u> TC 3 is requested to approve an extension of the term of office of the Chairman of SC 3A for the next period of 3 years</p>	TC 3

Project No	Stage 1)	Reference document	Key words	WG NC others	Agenda Helsinki 2)	Agenda New Delhi	Limit date	Decision No (D.x), Comments
IEC 60617-02 A1 Ed.2	ANW	3A/432/NP	Amdt IEC 60617-2, 2nd edition(1996),Task II	01		13	98-10	D.10b
IEC 60617-03 A1 Ed.2	ANW	3A/433/NP	Amdt IEC 60617-3, 2nd edition(1996),Task II	01		13	98-10	D.10b
IEC 60617-04 A1 Ed.2	ANW	3A/434/NP	Amdt IEC 60617-4, 2nd edition(1996),Task II	01		13	98-10	D.10b
IEC 60617-05 A1 Ed.2	ANW	3A/435/NP	Amdt IEC 60617-5, 2nd edition(1996),Task II	01		13	98-10	D.10b
IEC 60617-06 A1 Ed.2	ANW	3A/436/NP	Amdt IEC 60617-6, 2nd edition(1996),Task II	01		13	98-10	D.10b
IEC 60617-07 A1 Ed.2	ANW	3A/437/NP	Amdt IEC 60617-7, 2nd edition(1996),Task II	01		13	98-10	D.10b
IEC 60617-08 A1 Ed.2	ANW	3A/438/NP	Amdt IEC 60617-8, 2nd edition(1996),Task II	01		13	98-10	D.10b
IEC 60617-09 A1 Ed.2	ANW	3A/439/NP	Amdt IEC 60617-9, 2nd edition(1996),Task II	01		13	98-10	D.10b
IEC 60617-10 A1 Ed.2	ANW	3A/440/NP	Amdt IEC 60617-10, 2nd edition(1996),Task II	01		13	98-10	D.10b
IEC 60617-11 A1 f3 Ed.2	ANW	3A/441/NP	Amdt IEC 60617-11, 2nd edition(1996),Task II	01		13	98-10	D.10b
IEC 60617-12 A2 f4 Ed.3	ANW	3A(Germany)148/NP/410/INF	Restructuring IEC 60617-12 and -13	02	10.6		98-03/2	WG 2 to check limit date
IEC 60617-12 A1 f2 Ed.3	ACDV	3A(Netherlands)124/NP	Amdt IEC 60617-12, Subsidiary connection	02	13		97-12/2	WG 2 to check limit date
IEC 60617-12 A2 f2 Ed.3	ANW	3A(Netherlands)125/NP	Amdt IEC 60617-12, Polarity indication	02	13		97-12/2	WG 2 to check limit date
IEC 60617-12 A2 f3 Ed.3	ACDV	3A(Netherlands)127/NP	Amdt IEC 60617-12, Variable qualifying symbol	02	10.1		97-12/2	WG 2 to check limit date
IEC 60617-12 A2 f1 Ed.3	ANW	3A(U.K.)109/NP	Amdt IEC 60617-12, Signal flow	02	13		97-12/2	WG 2 to check limit date
IEC 60617-12 A2 f5 Ed.3	ANW	3A/370/NP	Amdt IEC 60617-12, Address dependency	02	10.2		97-12/2	WG 2 to check limit date
IEC 61352 TR3 Ed.1-	APUB	3A/460/CDV	TR Mnemonics for integrated circuits	02		8.1	98-06	D.2
IEC 60617-12 A2 f6 Ed.3	ACDV	3A/461/NP	Amdt IEC 60617-12, 3rd edition (1997)	02		8.2	98-12	D.3
IEC 61785 TR2 Ed.1	ACDV	3A(Sec.)340/CDV	IEC 61785 TR2, Wiring systems	IT	13		97-09/2	IT to check limit date
IEC 60617-02 A2 Ed.2	A2CD	3A/378/CD	Amdt IEC 60617-2/3, Concentric PEN conductor	SE	10.4		97-09	SE to check limit date
IEC 60617-03 A1 Ed.2	A2CD	3A/378/CD	Amdt IEC 60617-2/3, Concentric PEN conductor	SE	10.4		97-09	SE to check limit date
IEC 60617-11 A2 f1 Ed.2	1CD	3A/458/CD	New symbols for (bus) building installations	DE		9.1	98-02	D.4
IEC 60617-03-05 Ed.1	1CD	3A/467/CD	Gas zone diagrams (preceding doc. 3A/390/NP)	GB		9.2	98-02	D.5
IEC 60617-10 A1 Ed.2	A2CD	3A(Sec.)226/CD	Amdt IEC 60617-10, Pulse coded modulation	Sec	13		98-05	new limit date 3)
IEC 60617-11 A1 f1 Ed.2	ACDV	3A(Sec.)225/CD	Amdt IEC 60617-11, Generating stations	Sec	13		98-03	new limit date 3)
		3A/470/INF	Proposal German NC for 60617-database	DE		9.3		D.6
IEC 60617-1 Ed 2	ACDV	3A/477/INF	Preliminary draft revision IEC 60617-1	Sec		9.4	98-03	D.7

Legend

- 1) All PWI projects are already deleted from the programme as decided under item 13, Decision 10c. For abbreviations see doc. 3A/474/PW
- 2) These references are given for pending projects being considered last time in Helsinki. The corresponding limit dates are subject for checking by the responsible WG or National Committee. **Requests for changing these limit dates shall be forwarded to the Secretary asap (see also item 13, Decision 10d)**
- 3) Set by the Secretary
- WG,NC,etc Responsible Working Group, National Committees, e.g. DE, GB, IT etc or others e.g. Secretary (Sec)