



Technical Committee No.3: Documentation and Graphical symbols

Unconfirmed minutes of the meeting of TC3 in Makuhari 1994-05-25

Chairman: Mr. P.D.C. Reefman (Netherlands)

Secretary: Mr. P.-Å. Svensson (Sweden), Secretary SC3B

<i>National Committee</i>	<i>Delegate</i>	<i>Function with respect to TC3</i>
Denmark	Mr. Ch. Jensen	
	Mr. Ib G. Jørgensen	
Finland	Mr. T. Viitanen	
France	Mr. J. Bodin	
Germany	Mr. E. Abel	Chairman SC3A
	Mr. F. Reuter	Chairman SC3B
	Mr. W.-D. Kisselmann	
	Mrs. A. Schwuchow	
Japan	Mr. H. Ikeda	
	Mr. T. Araki	
	Mr. Y. Nakamura	Chairman SC3C
Netherlands	Mr. A. Gehner	
	Mr. F. Noesel van	Secretary SC3D
	Mr. F. Brigham	Secretary SC3C
Norway	Mr. J. Pettersen	
	Mr. E. Selvik	
Switzerland	Mr. A. Fornalski	Secretary SC3A
United Kingdom	Dr. D. Radley	Chairman SC3D
ISO/TC145	Mr. K. H. Bergner	Observer
IEC Central Office	Mr. R. Cordelier	Observer

[9 National Committees, 18 Delegates, 2 Observers]

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Item 1 Opening of the meeting

The Chairman, Mr. Reefman, opened the meeting and welcomed the delegates. He was very glad that the meeting could be held in Makuhari with its excellent facilities.

He welcomed especially Mr. Cordelier from the IEC Central Office and Mr. Bergner from ISO/TC145.

Item 2 Approval of the agenda, document 3(Central Office)562

The agenda, document 3(Central Office)562, was approved with the following additions:

Item 4.d Chairmanship of TC3

Item 19.a Use of e-mail

Item 3 Confirmation of the minutes, document RM3561/TC3

The minutes from the previous meeting in Rotterdam, document RM3561/TC3 were confirmed.

The following errors should be corrected:

Page 1: Correct the name of Mr. van Noesel

Page 3: Item 1: delete A in TC3A.

Page 4: Item 5: plural s missing

Page 4: Item 6: plural s too.

add a in " a Committee"

Change "for equipment" to "on equipment".

Page 5 Item 10: is going on , not "are going on".

Page 6 Item 13: needed

Item 14: Change "theses" to "these".

Page 7, Item 16 a: an ellipses, a range of values

Page 8, Item 16.e.2 : "document" instead of "documents"

Item 16.e.3: an official representative, add "an"

Page 9, Item 19: a next meeting

The Secretary presented his report, meeting document on actions taken with regard to the decisions in the Minutes, see Annex A.

Discussion:

Item VI Numbering system

Mr. Cordelier: The numbering system will be modified, as well as the project numbering.

Example of document number: 31J/26/CD.

Project numbers will identify the publications and parts and fragments of that.

Distribution problems covered by the DDAN, are intended to be improved with the start of the new numbering system.

There was quite a dissatisfaction expressed with the approved systems, especially since TC3 had commented on the proposal earlier, pointed out the disadvantages with it and explained what we need for the work in the committees. The comment from TC3 was distributed as a meeting document.

In industry one has learnt never to put two or more pieces of information into one piece of data, but treat them separately. From this follows that classifying information shall never be put into an identity number. The adopted system does not follow that rule, and will most likely soon be out-of-date.

Decision: The Secretary should contact other horizontal committees, write a letter expressing our concerns, to see if we can have it changed.

Item 4 Report from the Chairman

4a) Preparatory meeting

The Chairman reported that a preparatory meeting with Chairmen, Secretaries and WG convenors had been held in November in Eindhoven. At that meeting the plenary meetings in Makuhari were prepared.

4b) Task Force on Technical Documentation

The Secretary reported on the result of the Task Force on Technical Documentation that was set up by the Committee of Action at the General Meeting in Rotterdam. Its findings had been reported to the CA. The report had been approved by the CA, and the subject then referred to PACT (The Presidents Advisory Committee on future Technology). Nothing was known about what had happened after that, neither did anybody know who are the members of PACT.

(Reference documents: 02(TF "Technical Documentation/Convenor)2, 02(Group A)5, 02A(central Office)99, 01(Central Office)924).

Prof. Ikeda, who was a member of the Task Force, said that technical documentation including the mobilization of IT is deemed to be of great importance in Japan. We should have an initiative to mobilize IT not only for industry but also for end users.

Mr. Abel said that we are not happy with the existing situation and should work more actively on what is the task of the future. He presented meeting document 3(Makuhari)17 that roughly illustrates the different phases of the life cycle of a plant or product. He proposed to set up a Special Working Group to elaborate the model and to make an overview of the whole documentation area.

This proposal was favourably met by the Committee. The task of the SWG should be to have an overview of existing work in the documentation area, and to specify relevant needs, ongoing work, responsibilities, etc. The work should be done in co-operation with ISO/TC10.

For the work in this group we should find out what PACT is doing on this subject (if anything) and to inform the General Secretary.

Decision: A Special Working Group should be set up and report to the next meeting of TC3. An AC should be circulated about it.

Name: IEC/TC3-ISO/TC10 Task force on future standardization needs in the field of documentation

Task:

- to identify stages in the life-cycle of industrial products and plants, to serve as a framework for the identification of documentation standards.
- to identify existing international standards in relation to the framework
- to identify future needs for standardization in relation to the framework.

Possible members:

Mr. Kisselmann, Mr. Reuter, Germany.

Mr. Jensen, Denmark, interested.

Mr. Ikeda, Japan: Japan would like to participate, maybe he can do so himself.

Mr. Selvik, Norway: Appreciate the work, but needs confirmation.

Mr. Gehner, Netherlands: Netherlands is interested, but cannot nominate any person at the moment.

Mr. Abel: A member from Sweden is desired.

Mr. Bergner: Experts from TC10 will attend.

4c) Report from ACET Area 4

No official minutes or reports were available at the time, but a copy of the Report to the CA from ACET.

Mr. van Noesel had attended the meeting from TC3 and SC3D. He had objections to some of the statements in the report: Report from ACET 4 Task force that was not discussed.

There was a proposal from SC3D for commenting the report to the CA. (See the minutes from SC3D.)

Decision: Prepare an official document as comment to the CA.

4d) Chairmanship of TC3

The Chairman draw attention to the fact that he had to resign as Chairman of the TC3 in March next year. The Central Office had been informed and a letter was circulated informing the National Committees 94-04-15.

Item 5 Report from SC3A Graphical symbols for diagrams

The Chairman of SC3A, Mr. Abel, presented his report, see Annex B.

Discussion:

Format of the publication IEC 617

IEC 617 Edition 2 will be presented in landscape format in the same way as Edition 1. The symbols will be as similar as possible to those of Ed. 1.

Mr. Bodin asked: Should all proportions be maintained. Mr Reuter: The revised 3(Secretariat)460 deals with that. Scaling in both x and y direction is possible or just in one direction.

Reuter: The National Committee of Germany, that is preparing the publication, will probably offer electronic files. This will be either in PostScript or in native form. This has to be arranged between the German NC and the CO.

Item 6 Report from SC3B Documentation

The Chairman of SC3B, Mr Reuter, presented his report, see Annex C.

Discussion:

Coded character sets

Mr Radley: The coded character set is OK now, but we are missing the control characters. We need them. Can we do anything? Mr. Reuter: Control functions missing due to lack of resources in JTC1/SC2.

Decision: We will write a letter to the JTC1/SC2 with a request that the work should be done.

Note: ISO/IEC JTC1/SC2 has been informed about this item in June 1994 by e-mail.

Co-operation procedure

Mr Fornalski: 3B(Secretariat)129 could be applied in all SCs. Update and circulate it.

Mr. Abel: The procedures should be brought to the entire TC3. The Central Office should be asked to check that they are in line with the ISO/IEC directives.

Mr. Cordelier: Forward to the Maintenance Team when ready.

Decision: The procedure should be checked, circulated and then forwarded to the Maintenance Team.

ISO 9000

Mr. Radley: It has been noted that many organizations do not follow ISO 9000 including IEC and ISO.

Decision: See item 19d.

Item 7 Report from SC3C Graphical Symbols for Use on Equipment

The Chairman of SC3C, Mr. Nakamura, presented his report, see Annex D..

Discussion:

Presentation of safety signs

Mr. Bergner: The Directives of the European Union are based on ISO 3864. A new CEN/CENELEC document is in the pipeline. The existing symbol, from ISO 3864 is proposed to be overtaken. The symbol proposed by SC3C is not in line with ISO 3864, which means that CENELEC countries would not be allowed to vote positively.

Mr. Reefman: We should have the same qualifying symbols. When safety is incorporated we refer to the ISO symbol.

Mr. Abel: Is it not possible to change an existing symbol?

Mr. Bergner: Work is going on to revise ISO 3864.

Decision: Mr Bergner will provide the SC3C and its WG1 with necessary material.

Timer symbols

The subject was discussed, but the comments later withdrawn.

Item 8 Report from SC3D Data Sets fro Libraries of Electric Component Data

The Chairman of SC3D, Dr. Radley, presented his report, see Annex E. and added that he wanted to give a thank publicly to the Secretary.

He also noted that e-mail is now being used, which has speeded up the work considerably.

Discussion:

Validation and maintenance agency

Prof. Ikeda: What is the time schedule?

Dr. Radley: It is unclear at the moment. 3D(Secretariat)29 will be distributed to the NCs and commented. We also have to take account of the CA and their decision. The agencies will have to be set up: The maintenance agency, under contract to IEC and the validation agency under the control of IEC. If everything goes properly, we could have the proposed system working at the end of this year.

Mr. Reuter: The proposal should be forwarded so that the CA can decide in September.

Item 9 Report from CCI-IEC JWG on Symbols and Diagrams

The Chairman the JWG, Mr. Reefman, presented his report, see Annex F.

Discussion:

Because of the move of the standardization work from CCI to ITU-TS the preconditions for this group have changed. It was proposed to disband the JWG, keep the liaison living with a liaison officer and to establish new, project-oriented, JWGs when necessary.

Decision: Disband the CCI-IEC JWG. Inform ITU, Dr Irmer.

Mr. Abel agreed to act as liaison officer with ITU.

Item 10 Report from IEC/TC3-ISO/TC10 JWG Graphical Symbols for Use in Technical Documentation of Products, and Documentation, including Item designation

The report from the Chairman of the JWG, Mr. Åkerberg, had earlier been presented and discussed in SC3A. See Annex G.

Discussion:

Part 6 as an ISO part?

Prof. Ikeda: I have concerns about Part 6 and its title. Part 5 and part 6 belong together.

Mr. Viitanen: Finland is of the opinion that Part 6 should be published as a common ISO/IEC part.

Mr. Fornalski: I have received Part 6 from Mrs. Velander. Only the parts regarding the use of the symbols is specifically related to ISO. I can distribute it for information so that we can decide.

Mr. Bodin: These parts belong together.

Part 6 was later distributed at the meeting, but no decision was taken.

Layout of ISO/IEC - IEC - ISO 14617

Mr. Reuter: The layout of the 14617 publication should follow IEC 617 landscape layout.

Mr. Ikeda: I understand that the ISO/IEC JWG intend to publish it in portrait layout.

Mr. Bodin: We should take a decision that we should have a landscape layout also for 14617.

Mr. Fornalski: The CDVs for part 2-5 are in landscape format.

Prof. Ikeda: Part 1 should define the style of the publication.

Decision: The format of ISO/IEC 14617 should be landscape.

Title and scope of the JWG

Document 3(Secretariat)462 was introduced by the Secretary. It has been circulated also in ISO TC10 as ISO/TC10 N579.

Discussion:

Mr. Jensen: The supervision of the entire publication ought to be a more outspoken task.

Prof. Ikeda: The Task and Scope have been weaker.

Mr. Abel: We wanted to make clear that decisions had to be taken in the Committees not in the JWG.

Decision: Task accepted with slight rewording:

To identify subjects of common interest in the work programmes of IEC/TC3 and ISO/TC10, in the area of diagrams and graphical symbols for diagrams, and of other Technical Committees who may need to use and apply diagrams.

The monitoring for the entire ISO/IEC 14617 to be added to the list of tasks.

Annex F of the ISO/IEC Directives

A new proposal for Annex F was presented by Mr. Abel in a meeting document.

This should replace the existing Annex F in the ISO/IEC Directives part 2.

ISO/TC10 and ISO/TC145 have already agreed on it.

Decision: The proposal should be sent out for comments by the NCs as a CDC.

Item 11 Report from IEC/TC3-ISO/TC145 JWG General Principles for the Creation of Graphical Symbols for Use in Diagrams

Mr. Bergner presented his report, see Annex H.

Discussion:

Document 3(Secretariat)460 ISO/IEC 11 714 Design of graphical symbols in the documentation of technical products, Part 1: Basic rules

Prof. Ikeda: IEC/TC3 and ISO/TC10 and TC145 were asked to give a common vote. Germany gave a split vote, however.

M. Bergner: The problem is whether or not it is possible to withdraw ISO 3461-2.

Mr. Reuter: ISO 3461-2 could be withdrawn as soon as ISO/IEC 11714 is ready.

Some countries indicated that they were not satisfied with the present draft.

Proposals for modifications based on the existing comments were distributed as a meeting document. These might cause some countries to change their vote, however.

Mr. Selvik: More rules related to electrotechnical diagrams are presented in 3B(Secretariat)131. Norway positive to a DIS.

Mr. Abel: Mr. Reuter might take on the Convenorship for the JWG.

As the voting on 3(Secretariat)460 was not finished, no definitive decision could be taken. Some countries indicated that they might change their votes.

Decision: If the CDV is approved, then we should go for a DIS.

Item 12 Report from IEC/TC3-ISO/TC184/SC4 JWG9 Joint Working Group for Electrical Applications ISO10303 - Product Data Representation and Exchange

Mr. Reuter presented the report from the JWG, see Annex J.

The report had earlier been discussed in SC3B.

Discussion:

ISO/IEC logo for ISO10303

It was stated that a double-logo is desirable for the JWG results.

Item 13 Discussion of the Scope of TC3, document 3(Secretariat)461

Document 3(Secretariat)461 had been circulated in advance of the meeting.

Comments had only been received from Norway and Denmark.

The proposed scope had also been circulated in TC93 (as 93(Secretariat)12) but no results were available from that circulation. Comments from the Secretary of TC93 had been received, principally objecting to the use of the word "information" in the scope proposing it to be replaced by "documentation".

Discussion:

Dr. Radley, UK: We are positive to the proposed scope. We can not agree to the deletion of the word "information".

Mr. Selvik, Norway: We can not accept the TC93 comments.

Mr. Pettersen, Norway: We have proposed not to use the term "products" in the text, since we deal also with other things than products.

Decision: The proposed Scope was accepted, with the change that the term "product" should be omitted two times. It is to be included in the Report to the CA.

Item 14 Strategic Policy statement for TC3, document 02(TC3)29

Mr. Fornalski: One project should be deleted: 3A08.011 Shipping symbols.

Decision: The Secretary of SC3A should send it to the Italian NC and then, if it is still considered to be a valid proposal, include it in task II of SC3A/WG1.

Otherwise the SPS should just be updated based on decisions taken at the Makuhari meeting. A more complete update might take place at the next meeting as a result of the work in the SWG set up under item 4b.

Item 15 Liaisons with other bodies

15a) General

Following the earlier decisions in SC3B and SC3D it was decided to officially appoint liaison officers for the contacts with committees to which we have liaisons.

The other committees will be formally informed about this and the role of the liaison officer.

15b) IEC/TC16

The circulation of DIS(Central Office)75, closing date 94-05-15, IEC 1293 Requirements for marking electrical equipment with ratings related to electrical supply - Requirements for safety, based on 16(Sec)335, was noted. Regarding actions, please refer to the unconfirmed minutes of SC3B.

Liaison officer: Mr. Pettersen, Norway

15c) IEC/TC44

Nothing to report.

Liaison officer: Mr. Viitanen, Finland

15d) IEC/TC52

Nothing to report.

Liaison officer: Mr. van Noesel, Netherlands

15e) IEC/TC93

The conflicts with TC93 had been discussed earlier in SC3D and to some extent in SC3B.

Mr. van Noesel: The problem is that TC93 disturbs our work, by proposing new works etc. that covers the work that has already been decided on in TC3 and SCs, or that is going on or near completion. We must mention this in the report to the CA.

Although we have made objections, the comments have not been taken into account. The CA has given the same task to two committees.

Mr. Pettersen: It has to be a formal document.

Mr. Cordelier: No other way to solve the problem than to ask CA.

Radley: The same arguments as those given in the comments to the report from ACET applies.

Decision: Our concerns about the overlap in work programme with TC93 should be included in the Report to the CA.

Liaison officer: Mr. Reuter (preliminary)

15f) ISO/TC10

Covered earlier in the reports.

Liaison officer: Not needed now, since we have the IEC/TC3-ISO/TC10 JWG. Its first task covers the general liaison aspect.

15g) ISO/TC184/SC4

The work in IEC/TC3-ISO/TC184/SC4 JWG9 was covered by the report above.

15h) ISO/IEC JTC1/SC2

A liaison has been established due to the work on character sets.

Liaison officer: Mr. Reuter, Germany.

15j) ITU

Liaison officer: Mr. Abel, Germany.

Item 16 Review of organization of TC3 with SCs, document 3(Secretariat)463

Document 3(Secretariat)441 had not been updated to 3(Secretariat)463 as planned. This will be done after the meeting when the new status of the WGs, and their tasks, are known. Liaison officers will be included.

Item 17 Work on terminology, document 3(Secretariat)464

Document 3(Secretariat)464 had been circulated.

Comments had only been received from Denmark.

Discussion:

Mr. Bodin: Formulate a NWIP. Set up a WG together with TC1 for the joint work . The Secretary of TC1 will participate.

Mr. Reuter: The terms should be updated with regard to actual status. Our own definitions should be maintained. I doubt that we get members from industry.

Prof. Ikeda: The work of TC3 should be proposed to TC1. TC3 does not need to convene the group..

Mr. Bodin: In this case most of the work is done.

Decision: Update the document, then contact TC1 to set up a JWG (possibly containing only the Secretaries)

Item 18 Work programme, document 3(Secretariat)466

Update of the project data base (document 3(Secretariat)466) following the decisions from this meeting will be done.

Item 19 Any other business

19a) Use of e-mail, e-mail exploder

Prof. Ikeda: The Japanese National Committee offers to set up an e-mail exploder for use in the work of TC3 with SCs. (meeting document 3(Makuhari)18). The exploder will be in action directly after the meeting

This was gratefully accepted by the Committee. 11 -12 persons are presently able to access e-mail and the number is expected to increase rapidly.

The CO should be directed to promote e-mail, but we must run the normal procedure in parallel. Give a strong recommendation that members in this committee adopt e-mail.

Mr. van Noesel: We need to standardize abbreviations for file formats.

Prof. Ikeda: Let us follow the practice in NIST.

Decision: The setting up of the e-mail exploder and our recommendation to use e-mail should be mentioned in the Report to the CA.

19b) World Wide Web servers on Internet

It was noted that ISO/CS is presently building a World Wide Web (WWW) server on Internet (presently with restricted access).

The WWW server at Chiba University holds presently IEC information relevant to IEC/TC3, i.a. about the organization (URL: <http://www.hike.te.chiba-u.ac.jp/ikeda/IEC/home.html>) and a graphical data base for retrieval of symbols according to IEC 417 (URL: <http://www.hike.te.chiba-u.ac.jp/IEC417>).

19c) Double standardization

Mr Bergner: ISO committees are using IEC symbols with the reference to the IEC number. Why cannot you just refer to original ISO symbols .

Mr. Nakamura: Different conditions. The applications are missing. We do what we can to take it over as it is.

Mr. Brigham: This subject will be discussed in connection with revision of IEC 417.

19d) Project management; requirements emanating from ISO 9000

This problem had already been discussed in SC3B. Several companies are now undergoing audits to be certified in accordance with ISO 9000. At such audits also the work laid down for IEC has been looked at, and it has become obvious that the present ISO/IEC Directives are not in line with ISO 9000. It is especially the lacking possibilities for efficient project planning.

Decision: The lacking compliance with ISO 9000 of the some of the procedures in the ISO/IEC should be mentioned in the Report to the CA.

Item 20 Date of next meeting

The next meeting should be held in the period September to November 1995.

Dr. Radley informed that BSI is open for an invitation, to hold the meeting in London. Next year BSI will move to a new building with good meeting facilities.

It was stated that overlapping with the General Meeting must be avoided and also with the meeting of ISO/T184/SC4.

Item 21 Close of the meeting

The Chairman thanked the delegates for their contribution to the meeting. He also thanked the Japanese National Committee. The organization has worked in a splendid way, can not be improved. This includes meeting facilities, excursions, and dinner parties. A special thanks to the supporting people.

He also asked that a special thanks should be conveyed to the management of the Sharp Corporation, that has provided the localities.

Prof. Ikeda said that it was a great pleasure to host the meeting and hoped that the stay in Japan had been enjoyable. On behalf of the Japanese National Committee of TC3 he thanked all delegates.

Since this was to be the last meeting with Mr. Reefman as Chairman, presents from the delegates and from the Japanese National Committee were also handed over to him.

The meeting was then closed.

Annex A Report from the Secretary of TC3
Comments with regard to the Minutes of the last meeting, RM3561/TC3

*References to corresponding items of the agenda for the Makuhari meeting,
document 3(Central Office)562, are given in italics.*

Item VI Report from the Chairman of SC3B - Documentation

AC 220/1993 regarding Numbering of IEC documents and identification of projects, was circulated to Secretariats last year. A comprehensive answer was given to this document from TC3. This answer took i.a. account of the proposal raised under this item.

As a result of the questionnaire a new project numbering system will be introduced. Other actions with regard to numbering, and document kinds are presently unknown. *Agenda item 19.*

Item VII Report from the Chairman of SC3C - graphical symbols for use on equipment

Agenda item 11.

Item IX Review of document 3(Secretariat)441 - Organization of TC3 with Sub-committees and Working Groups

The updated document exist in an updated version. The circulation has been postponed, however, in expextence of the updating of some WGs.

Item X Report from CCI-IEC JWG

No result regarding ETSI so far. The standards work of CCI has been taken over of ITU. *Agenda item 9.*

Item XII Report from IEC/TC3-ISO/TC145 JWG

The CDV has been circulated. *Agenda item 11..*

Item XIV Discussion of NWIP ... on Electric/electronic application protocols

A plan with the completeness asked for in the decision has not been prepared. Which projects that are started are highly dependant on the possibilities to find people to projects and to get them financed. *Agenda item 12..*

Item XV Discussion of document 3(Secretariat)443 - Strategic Policy statement for TC3

A document proposing a revision of the Scope has been circulated. *Agenda item 13.*

Item 16.d Liaison with IEC/TC93

The comments were forwarded to the meeting of TC93, but there is still a very unclear border between IEC/TC93 and TC3 and also other committees. *Agenda item 15.*

Item 18.1 Terminology

Document 3(Secretariat)464 has been circulated *Agenda item 17.*

Annex B Report from Sub-Committee 3A
Graphical Symbols for Diagrams

To be pasted

**Annex C Report from Sub-Committee 3B
Documentation**

To be pasted

**Annex D Report from Sub-Committee 3C
Graphical Symbols for Use on Equipment**

To be pasted

Annex E Report from Sub-Committee 3D

Data Sets for Libraries of Electric Component Data

France and Norway changed their membership of SC3D from a P-membership into an O-membership.

Total number of members of SC3D: P-members: 20; O-members: 16.

1 Working Groups

Still six P-members: BE, DE, JP, NL, UK, US (by correspondence only) have nominated experts to both Working Groups.

The compilation of comments of the received comments on the CD's 3D(Secretariat) 19, 20 and 21, document 3D(Secretariat)23, were discussed and proposals for the SC3D meeting were prepared. The conclusions are given in the 'Disposition of comments', document 3D(Secretariat)24.

These activities resulted in a new version of a CD that was circulated for voting.

A proposal for a maintenance- and validation-agency for the maintenance of the set of standard data element types has been distributed as document 3D(Secretariat)29 for discussion in the Working Group 2 and SC3D.

Working group 1 will reconsider its scope and future tasks on short term.

2 Committee drafts

- 3D(Secretariat) 25: Principles and methods for defining standard data elements types with associated classification scheme for electric components. It Supersedes 3D(secretariat) 19.

The voting was 100% positive although some comments were issued. The comments are presented in the 'Result of Voting/Compilation of Comments', document 3D(Secretariat)28.

After some small adaptations the DIS-version will be issued.

- 3D(Secretariat)**: "Standard Data Element Types for Electric Components". The issue of a new CD was postponed until the voting results of 3D(Secretariat)25 were known. On short notice a new Committee Draft, based on previous document 3D(Secretariat)20 and 3D(Secretariat)21, will be circulated for Voting

3 Results SC3D meeting, May 23rd 1994

It has been decided that an IS shall be produced in three parts.

part 1: 3D(Secretariat)25 will be reissued as a DIS after modification as result of national comments and other changes resulting from the discussions with ISO/TC184/SC4/WG2.

The EXPRESS information model which is needed to complete the part will be omitted for the time being, but will be issued as a CDV towards the end of the year. After acceptance and a consistency check with which should be by then an IS, it will be issued as DIS for amendment of the standard.

part 2: Will be a Technical Report, based on 3D(Secretariat)29 defining the procedures to be followed by the Validation Agency and the Maintenance Agency. It will be issued as soon as possible as a CDC or CDV which ever procedure is more appropriate and leads to the earliest result,

It should be noted that the establishment of Validation- and Maintenance Agencies is a new departure for IEC and the Committee of Action need to be requested for its views before the procedures can be established.

part 3: Will be based on 3D(Secretariat)20 & 21, containing the Data Element Type definitions and its associated classification scheme of components.

It is envisaged that the first issue will be a hard copy, but that subsequent amendments which will include Data Element Types added by the Validation- and Maintenance Agencies will result

in such a large volume that the bulk of the information can only be supplied in a computer sensible form.

4 Informal relations

Established contacts were continued.

New contacts were established with ISO/TC184/SC4/WG2 'Part Libraries'. After recognizing the fact that the work of the both committees to a great extent were rather similar, a number of intensive and in depth discussions were organised.

A common conclusion was reached, known as the 'MUENCHEN RESOLUTION'.

After joint meetings of ISO/TC184/SC4/WG2 (Part Libraries) and IEC/SC3D (Data sets for libraries of electric component data) in Paris and Muenchen and co-ordinated work between members of these two committees, mandated representatives of both committees decided to accept ONE COMMON EXPRESS INFORMATION MODEL for both committees for their work.

This possibility is based on the similarity of the approaches followed by both committees to build their Data Element Type dictionaries.

SC3D aims for official liaisons with: IEC TC93, ISO/TC184/SC4, ISO/IEC JTC1/SC14 and CFI/CIR.

Annex F Report from CCI-IEC JWG
CCI-IEC Joint Working Group on Symbols and Diagrams

To be pasted

Annex G Report from IEC/TC3-ISO/TC10 JWG
Graphical Symbols for Use in Technical Documentation of Products, and
Documentation, including Item designation

To be pasted

Annex H Report from IEC/TC3-ISO/TC145 JWG
General Principles for the Creation of Graphical Symbols for Use in Diagrams

To be pasted

**Annex J Report from IEC/TC3-ISO/TC184/SC4 JWG9
Joint Working Group for Electrical Applications ISO 10303 -
Product Data Representation and Exchange**

To be pasted

Annex K List of meeting documents

<i>Document</i>	<i>Title</i>
3(Makuhari...)	
/Secretariat)1	List of Delegates
/Secretariat)2	List of Meeting Documents
/Secretariat)3	Report from the Secretary (<i>See Annex A.</i>)
/SC3A)4	Report from SC3A - Graphical Symbols for Diagrams (<i>See Annex B.</i>)
/SC3B)5	Report from SC3B - Documentation (<i>See Annex C.</i>)
/SC3C)6	Report from SC3C - Graphical Symbols for Use on Equipment (<i>See Annex D.</i>)
/SC3D)7	Report from SC3D - Data Sets fro Libraries of Electric Component Data (<i>See Annex E.</i>)
/CCI-IEC JWG)8	Report from CCI-IEC Joint Working Group on Symbols and Diagrams (<i>See Annex F.</i>)
/IEC/TC3-ISO/TC10 JWG)9	Report from IEC/TC3-ISO/TC10 JWG Graphical Symbols for Use in Documentation of Products, and Documentation, including Item designation (<i>See Annex G.</i>)
Technical	
/Secretariat)10	Not used.
/IEC/TC3-ISO/TC145 JWG)11	Report from IEC/TC3-ISO/TC145 JWG General Principles for the Creation of Graphical Symbols for Use in Diagrams (<i>See Annex H.</i>)
/IEC/TC3-ISO/TC184/SC4 JWG)12	Report from IEC/TC3-ISO/TC184/SC4 Joint Working Group for Electrical Applications ISO 10303 - Product Data Representation and Exchange (<i>See Annex J.</i>)
/Secretariat)13	Not used
/Secretariat)14	Not used
/Secretariat)15	Compilation of comments on document CDV IEC 3(Secretariat)460 / ... 11714 General principles for the creation of symbols for use in the technical products (<i>See 3(Secretariat)471.</i>)
ISO/IEC documentation of	
/Secretariat)16	Proposal for comments on the report from ACET to the CA
/Germany)17	Industrial plant- and product- (Hard- and Software) Engineering Process
/Japan)18	Proposal to incorporate e-mail lists for daily activities of TC and SCs
/Secretariat)19	List of participants to the meetings including complete addresses
/IEC/TC3-ISO/TC145 JWG (ad hoc))20	Proposal for the modifications to 3(Secretariat)460 based on comments received