

AMEU Technical Committee Report (as of June 2005)

There was extensive discussions regarding the impact and the introduction of green power onto the grid. Various metros and munics that were running so called pilots gave feed back on the status of same. Although the Committee supported in principle that green power should be looked up favourably given government's drive to promote it there was a realization that with the prevailing legislation, etc it would be a challenge to introduce green power sales in a municipal environment and in so doing to meet the needs of all stakeholders.

The Green Power sub committee was requested to go into the intricacies, challenges and complexities of introducing green power and to report back.

A request was to be made to Cape Town for details pertaining to their benchmarking exercise relating to maintenance and CAPEX .

A policy on streetlighting was now available to all members on the website

Mr Howard Whitehead was nominated to represent the AMEU on the PIESA Board while Mr Vally Padayachee as previously agreed to represent the AMEU on the ECSA Board and the ECSA President Forum.

There was extensive discussions around system maintenance and the availability of funding for same.

AMEU Tariff Committee Report (as of June 2005)

Eskom has still not gone live w.r.t. the implementation of WEPS albeit with selected customers. In respect of FBE the NER has not yet proposed a national tariff for free basic electricity in spite of the work done by various stakeholders especially by Eskom.

The NER has appointed a Consultant to assist it in developing a framework for cross subsidy.

No formal notification was received from Eskom in respect of any envisaged price increase for the 2005/6 financial year. It was noted that in terms of the MFMA municipalities must receive notice of proposed tariff increase from suppliers by 15 March of each year, for application in that year.

Deon Louw from EDIH did a presentation on the latest w.r.t. the EDI restructuring but focused on RED 1.

There was also a need to look at a longer planning period for tariff implementation (e.g. 3 years). It was noted that the NER in conjunction with Eskom was looking at this "move".

APPENDIX 1

SANEA Annual Technical Report - 2004

The year 2004 was a busy one for SANEA in terms of activities. Much of the focus was on the local youth programme, on the WEC Africa Regional Programme and on the Sydney World Energy Congress.

It is appropriate to group activities under local and international headings.

Local activities

Local activities included direct interaction with members, the annual schools programme and the Youth programme which has significant international connections.

The following meetings and visits were organized during the year under review:

- Dr Surridge of the DME gave a presentation on the Integrated Energy Plan
- A technical visit to Mondi, Durban, was undertaken
- Dr C Engelbrecht of the Physics Department at RAU gave a lecture on the new PV process developed by Prof V Alberts
- A technical visit to Lethabo Power Station

The schools programme consisted of two main events. The first was an Energy Project Day. This was held at the Delta Park Environmental Centre. It proved to be a fascinating day with energy projects presented by 14 schools. The winning school was taken to Lethabo to see energy and electricity in action.

The second event was the annual essay competition. The topic this year was energy and the environment. Almost one hundred learners from schools in Gauteng and KwaZulu-Natal entered the competition. A decision was taken to award a full suite of prizes in both provinces.

For the Youth programme three youth were sponsored to attend the World Youth Energy Symposium in Sydney, held in conjunction with the 19th WEC Congress. Our delegates acquitted themselves well. As part of their preparation a visit to Dhuba Power station was organized, and some informal discussions with

the delegates on the SA energy industry held, in order to prepare them for the Symposium.

International activities

SANEA international activities are divided into activities related to the African Region of WEC, and the broader WEC global activities.

SANEA was actively involved with the African Regional programme. Regional meetings were held in Cairo during March 2004 and in Sydney prior to the Executive Assembly. Regarding the programme SANEA members participated actively in the rural energy study, commented extensively on the Integration study, and provided technical assistance for the African Energy Information System project. The former report was written by Mrs Laing of Eskom and Dr Cooper, while the latter included ongoing interaction with AFREC and the IEA.

Participation in the global WEC activities continues as in the past. WEC management has expressed their appreciation for SANEA's valued participation. The main activities with interaction with WEC included:

- The SANEA past Chairman served on the WEC Finance committee, and was Vice-Chair for Africa until his appointment as the new Chairman of Transnet, and his subsequent resignation from the SANEA Board.
- Attendance by members of the Board at the 2004 Executive Assembly
- Attendance by a number of SANEA members at the 19th World Energy Congress in Sydney
- Participation by three youth in the Youth Energy Symposium in Sydney as previously noted
- Active participation by Board and Executive Committee members in McKinsey study on WEC strategy
- Limited involvement in the Market reform study
- High level involvement in the new Scenarios study. In this instance the SANEA Secretary-General has been appointed as Chair of the Study.
- The SANEA Secretary-General is a co-opted member of the WEC Studies Committee that considers the broader work of the WEC.

Future activities

It is expected that this high level of activity will continue, and indeed increase, into the future. An initiative is underway to hold evening lectures on diverse topics of interest on a monthly basis, and to organize a Scenarios Workshop during October 2005. The latter will be an important opportunity to formulate

inputs into the WEC Scenarios Study, which will focus on Regional issues during 2006, and to help facilitate debate about policy implications for the country and region. These activities should increase participation by members. SANEA will hold a Schools Energy Day as this proved very successful during 2004. An initiative to form interest groups under the SANEA umbrella is being considered by the Executive Committee.

Activities in the Africa Region of WEC will include corresponding participation in the Financing of Renewable Projects study, in redefining the rural energy study, possibly in providing inputs to a hydropower study, and in the AEIS project linked to renewed activity by AFREC in this field.

SANEA global activities will be primarily the continued participation by Mr Statham as Chair of the Scenarios Study, and participation in the Executive Assembly meeting to be held in Colombo, Sri Lanka in September 2005.

Dr CJ Cooper
Director: Technical Programmes
17 March 2005

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***The Association of Municipal Electricity Undertakings (Southern Africa)
Die Vereniging van Munisipale Elektrisiteitsondernemings (Suidelike Afrika)***

12 July 2005.

PROGRESS REPORT ON STANSA RELATED COMMITTEES.

Report Covering the Period January 2005 up to June 2005.

Report for the AMEU Executive Council Meeting in Polokwane and AMEU Website, and for AMEU Members who request the report.

As there are no items that require a separate summary report to be prepared, no summary report is therefore submitted to the AMEU Executive Council meeting on 29 September 2005.

Note: The paragraphs/sections considered important, are in bold italic type.

❖ Report on the progress of STANSA and NRS Technical Committees:

The AMEU serves on thirty-two STANSA Technical Committees and eleven NRS Working Groups.

The Technical Committees and Working Groups are the following:

TC 62 Electrical Measurements

TC 64 Lighting and Optics
SC 64A Lamps and Auxiliaries
SC 64C Luminaires

TC 66 Electric Cables

TC 67 Electrical Distribution Systems and Components
SC 67A HV Switchgear
SC 67B LV Switchgear
SC 67C Electrical Accessories
SC 67D Insulators
SC 67E Electricity Distribution
SC 67F Electrical Installations (Approval Committee for SANS 10142 Parts 1 and 2)
SANS 10142: Part 1. (Under SC 67F) (Working Group for Low Voltage)
SANS 10142: Part 2. (Under SC 67F) (Working Group for Medium Voltage)

TC 69 Power Electronics

TC 73 Electromagnetic Compatibility

STANSA – IEC TC 20: Electric Cables and Accessories

TC 80 Working Group: ICASA/STANSA TC 80: Telecommunication and Broadcasting Standards in South Africa. (STANSA 1234 TE – 001)

Code of Practice – NRS 048: Quality of Supply Working Group: (Including the Revision of NRS 048 and NER Power Quality Advisory Forum).

Working Group for SANS 10198: Selection, Handling and Installation of Cables up to 33 kV.

STANSA SC 71E: Geographic Information Systems: (General GIS not only Transmission/Distribution)

NRS Working Group 009: Electricity Sales Systems. **NRS 009-8, Code of Practice for the Management of Secure Modules –a draft was submitted for working group vote end June 2005.**

NRS 009-6-10 Interface Standard for Network Vending a trial use version was developed for the working group and used in pilot projects. The formal first edition is now being compiled incorporating feedback from the pilot projects, together with compliance test software, for approval later in 2005.

NRS Working Group 055: Code of Practice for Revenue Protection. **(An amendment is required as a result of the work of NRS 080 Non-technical losses. Working Group met on 7 July 2005 and recommended the amendments. Document being prepared for working group comment).**

NRS Working Group 056: Low Voltage Ground-Mounted Service Distribution Boxes. **(In draft stage).**

NRS Working Group 064: Guidelines for the Exchange of Spatial Information. (Covering Electricity). **(Title changed from Geographic Information Systems). Published.**

NRS Working Group 071: Remote Metering Systems. **(At approval stage).**

NRS Working Group 076: Substation Earthing. **(Published).**

NRS Working Group 077: HV Cables. Circulated for Working Group vote. **(In draft stage).**

NRS Working Group 079: Insulating Oils. Part 1 published. Part 2 (Guidelines). **(In draft stage).**

NRS Working Group 080: Measurement and Management of Non-Technical Losses. **(Published).**

NRS Working Group 083: Electromagnetic Compatibility. On hold. A technical writer was contracted in July 2005.

NRS Working Group 084: ESI Electronic Information Exchange Specifications. On hold. A technical writer should be contracted in July 2005.

NRS Working Group 085-1: Insulating Oils – Guidelines to prepare a phase out plan. (Certain issues previously overlooked are being revisited).

NRS Working Group 085-2: Insulating Oils – Disposal. (Draft 2 to be considered)

The following scheduled Committee Meetings were held during this period.

27 January 2005	TC 80	Meeting was postponed indefinitely.
10 February 2005	TC 67	Report by William Dykman
16 March 2005	SC 67B	Report by William Dykman
20 April 2005	SC 67C	Report by William Dykman – (Michael Swanepoel)
21 April 2005	TC 66	Report by Morgan Ryan
04 May 2005	TC 62	Report by Hennie van Wyk
18 May 2005	SC 64C	Report by Fred Grashoff
19 May 2005	TC 80	Report by Teddy Naidoo
25 May 2005	SC 67F	Report by William Dykman
1 June 2005	TC 69	Report by Louis de Wet

The following Committees and Working Groups are not ordinarily pre-scheduled and operate on an as and when required basis. Unfortunately progress reports are rarely received, in spite of repeated calls for progress reports. It must however be mentioned that on this occasion a number of NRS reports from three different NRS WGs were received. This is heartening to see!

SANS 10142: Part 1 – Dawid Jansen van Rensburg.	No report.
SANS 10142: Part 2 – William Dykman.	No report.
STANSA – IEC TC 20 – Japie de Villiers.	No report.
Code of Practice – NRS 048 - Tony Dold.	Report received.
Working Group for SANS 10198 – Japie de Villiers.	No report.
STANSA SC 71E – GIS – Coert Scherman.	Report received.
NRS 009 Working Group – Kobus van den Berg.	No report.
NRS 055 Working Group – Kobus van den Berg.	No report.
NRS 056 Working Group – Fred Grashoff.	No report.
NRS 064 Working Group – Coert Scherman.	Report received.
NRS 071 Working Group – Kobus van den Berg.	No report.
NRS 076 Working Group – Louis de Wet.	No report.
NRS 077 Working Group – Arthur Smith.	No report.
NRS 079 Working Group – Deon Steyn.	No report.
NRS 080 Working Group – Kobus van den Berg.	No report.
NRS 083 Working Group – Japie de Villiers.	No report.
NRS 084 Working Group – Coert Scherman.	Report received.

Summarised versions of reports received are submitted :-

- **27 January 2005: TC 80 Meeting: Teddy Naidoo.**

This Committee deals with Telecommunication Regulatory Standards.

This meeting was postponed and not rescheduled.

- **10 February 2005: StansSA TC 67 Meeting: William Dykman.**

This Committee deals with Electrical Distribution Systems and Components.

The meeting was held on Thursday, 10 February, 2005 in Committee Room M140, SABS, Groenkloof, Pretoria.

The following items of interest was decided:

1. The Energy Intensive Users Group of South Africa (EIUG) representing the big users of electricity would be a member of TC 67, as it was approved by the Standards Approval Committee (SAC).
2. It was AGREED that the Chamber of Mines would be an O-member of TC 67 and SC 67E and that they would be a P-member of SC 67F.
3. The Chairman REPORTED that TC 66 didn't agree with the idea of becoming a subcommittee of TC 67 as it was proposed. It was NOTED that the Electrical Cable Manufacturer's Association would be an O-member of SC 67C, SC 67E and SC 67F but would continue to participate actively in WG 10142-1.
4. It was NOTED that the TC 67 could invite individual companies to be represented as O-member on subcommittees where there was a lack of expertise.

- **16 March 2005: STANSA SC 67B: William Dykman.**

This Sub-Committee deals with Low Voltage Switchgear.

Last meeting held 16 March 2005.

This committee appointed the representatives from EMASA and ESASA to form an ad hoc group to find consensus on circuit breakers and earth leakage units and agreement was reached for circuit breakers. The new SANS 556-1, which was published in December 2004, would be running in parallel with SANS 60947. It was AGREED that SANS 156 would be withdrawn at the end of 2009. During the previous meeting the Working Group requested an extension for earth leakage units. They promised to produce the draft standard before this annual meeting of SC 67B.

Published standards

It was AGREED that SANS 62208: *Empty enclosures for low-voltages switchgear and controlgear assemblies – General requirements*, would be a voluntary standard and not a mandatory standard.

It was NOTED that VC 8036: *Circuit-breakers*, should be amended to align with the current standards for circuit breakers. The Regulatory department would be responsible for amending the standard.

It was AGREED that StanSA would write a letter to the Regulatory department to inform them of the urgency of the amendment of the compulsory specification.

Emerging needs.

Earth leakage units would remain on the list of emerging needs until consensus was reached on a draft standard.

It was AGREED that the following standards be circulated as DSS's for adoption:

- IEC 60890, *A method of temperature-rise assessment by extrapolation for partially type-tested assemblies (PTTA) of low-voltage switchgear and controlgear*;
- IEC 60865-1, *Short-circuit currents – calculation of effects: Part 1 Definitions and calculation methods*;
- IEC 61117, *A method for assessing the short-circuit withstand strength of partially type-tested assemblies (PTTA)*.

Revision of SANS 767-2, when SANS 767-1 had been finalized.

- **20 April 2005: STANSA SC 67C Meeting: William Dykman – (Michael Swanepoel).**

This Sub-Committee deals with Electrical Accessories. (Electricity Distribution Systems and Components).

Last meeting held 20 April 2005.

Mr M Swanepoel of Ekurhuleni indicated that he can no longer be the representative for the AMEU. His contribution is recognised with appreciation. Mr Dawid J Van Rensburg is the new Representative.

PUBLISHED STANDARDS.

SANS 164-2, *Plugs and sockets consolidated* edition 2.1 was published.

SANS 950, *Conduit and fittings for electrical installations* would be SANSified and be reaffirmed for a period of 5 years.

SANS 1085, *Wall outlet boxes* was published and amendment 3 was incorporated in the document.

SANS 337, *Stove connectors* was published as a national standard.

SANS 60669-2-4, *Particular requirements for isolating switches*, was published as a national standard.

SANS 60670-21, *Boxes and enclosures with provision for suspension means* was published in February 2005.

SANS 61058-2-4, *Independently mounted switches*, consolidated edition 1.1 was published.

PROGRAMME OF WORK.

Mr Claasen REPORTED that he had circulated to the committee four parts of the new proposed series for plugs and sockets. The Working Group submitted the technical contents for SANS 164, but the layout was his idea. He further INFORMED the committee on the following: -

SANS 164-0 was a proposed new road map standard that referred to the safety and dimension standards. This part would possibly replace the existing compulsory standard. This part of SANS 164 covered the general and safety requirements for plugs, fixed or portable socket-outlets and socket-outlet adaptors, with or without earthing contact, with a rated voltage not exceeding 440V and rated current not exceeding 32A, intended for household and similar purposes either indoors or outdoors.

SANS164-1 covered dimensions for the conventional 16A 250V a.c. plug and socket outlet and adopters. No change to existing requirements.

SANS 164-3 covered dimensions of the conventional 6A system (no change except that it was separated from the 16A system). Some of the drawings in these two parts would still have to be separated.

SANS 164-4 was a proposed new standard with dimensions for the dedicated system with the D-shape earth pin.

SANS 164-2 was not revised but would still cover the dimensions of the IEC system. It would need some editing to fit into the new series.

There were still some outstanding decisions on the reference in **SANS 164-0** to an EN and a DIN standard.

SANS 60320-2-3, *Appliance coupler with a degree of protection higher than IPX0* would be circulated as a DSS for possible adoption.

SANS 61386-24, *Conduit systems buried underground* was circulated as DSS for adoption and would be published soon.

New parts in the **SANS 60670 series**, *boxes and enclosures for electrical accessories*, would be circulated as soon as available for possible adoption.

WORKING GROUPS.

WG SANS 164-1, Mr E Krause was deleted from the list.

WG VC8029: Mr F Nkosi was appointed as the convener of the working group.

It was NOTED that the convener of the VC8029 should update the list of members and inform the secretariat accordingly.

A new WG was established to look at standards for house automation equipment: **A van der Elst (convener)**, V Roney, C Chick, C Lancaster, VAH McDonald, IP Kruger, F Nkosi and G Campetti.

WG 337: C Lancaster, G Campetti, C Koen, D Smith, VAH McDonald, F Nkosi and Mr **P Rogers as the convener**, was established to evaluate additional stove couplers that could be included in the standard.

EMERGING NEEDS.

It was AGREED that **SANS 950** be reaffirmed - the working for conduit with Mr G Campetti as convener

should continue with the comparison of the conduit standards.

Mr Koen REPORTED that the WG for IEC 60998 was not active during the past year. It was AGREED that the **IEC 60998 series** of documents would be circulated for possible adoption.

WG VC8029: *Separate cord set and cord extension set standards*- the working group would convene after SANS 164-1 was published, to compile these standards.

It was proposed that Energy Saving Accessories be listed under emerging needs.

- **21 April 2005: STANSA TC 66 Meeting: Morgan Ryan.**

This Committee deals with Electric Cables.

The meeting started with the usual introduction of new members, acceptance, attendance and apologies. It was agreed upon that committee members have 30 days in which to comment on minutes of the previous meeting. The Chairman noted that the next IEC meeting is due to be held in Cape Town in October this year, and enquired if any TC 66 member will be present at the IEC TC 7 Workgroup as an observer from South Africa.

As Chairman of WG 20 and WG 18, Mr Falconer presented to the committee a brief executive summary of their WG meeting held in Berlin from 23-26 November 2004.

The Chairman continued by stating that SANS 60502-4 and SANS 604840 have been adopted, and that IEC 61034 part 1 + 2 (smoke density test) has been published in April.

The next WG 16 – High Voltage Cables, will be held in May – Paris.

Mr Hardie put a question to the committee, stating that although fire performance cables are made, nobody enforces the use of fire performance cables. The committee was in agreement that SANS 1574 will be split into 5 parts and that SANS 529 will be withdrawn only after the approval of SANS 1574. The committee reviewed the comments by Morgan Ryan with regards to SANS 1339 and have accepted to use copper wire instead of tape, but the other issue raised by Mr. Ryan was the comment “as agreed by the user” would have to be revised as the word “user” should only be used when a “special” is requested, but not recommended for an “off the shelf item”.

NRS 013 will be accepted as the norm before any amendment is made to SANS 97. SANS 97 will be reaffirmed in three years’ time.

Mr P. O’Halloran will continue with SANS 10198 (Parts 9-14) together with his WG.

- **03 May 2005: STANSA IEC TC 20 Meeting: Morgan Ryan.**

This Committee deals with Electric Cables and Accessories.

The meeting began with the introduction of everyone and welcome of new members. In the preceding quarter, four documents had been acted on, as follows (all four were approved for publication):

IEC 61442 Ed. 2.0: MV cable accessories tests
IEC 60502-2 Ed. 2.0: MV extruded cables – Part 2: 6 kV to 30 kV
IEC 61034-1 Ed. 3.0: Smoke density measurement: Apparatus
IEC 61034-2 Ed. 3.0: Smoke density measurement: Procedure and requirements

It was noted that very few comments and no votes had been received. The IEC has noted a reluctance to provide manpower for the document processes.

In this quarter, three documents require action, as per the table below (extracted from the National Committee Report). It was confirmed that all committee members’ comments and/or votes should be forwarded to the Chairman of TC 20 and not directly to the SABS in order to avoid any duplication.

IEC Document	Action	IEC Date	Details
20/758/CDV	Comments / Vote	08/07/05	IEC 62230 Ed.1.0: Spark testing in accordance with CENELEC.
20/759/CD	Comments	13/05/05	IEC 61138 Ed. 3.0: Portable earthing and short circuit cables.
20/761/NP	Vote	27/05/05	Guide to the use of cables not exceeding 450/750 V.

Document 20/761/NP was discussed but the general consensus was that it was not intended for action by the SA Committee as several provisions contravene SANS 10142-1 and the voltages are not in line with South African norms.

For the benefit of the new members, the IEC numbering system was explained, as was the document development and revision process.

Brief feedback was given on the recent activities of WG 16 (High voltage cables) and WG 18 (Burning characteristics of electric cables). Both WG are meeting in Paris in May 2005.

The reorganisation of IEC 60811: Materials tests (see IEC 20/744/DC) and the consequences for SANS documents were discussed. The current structure of the document was given but comments are requested for a new reorganisation.

It was resolved that the Committee would meet again at 11h30 on 10 August 2005 at the same venue, and the meeting was closed.

- **04 May 2005: STANSA TC 62 Meeting: Hennie van Wyk.**

This Committee deals with Electrical Measurements.

1. The meeting took place on Wednesday, 4 May 2005 at the SABS, Groenkloof, Pretoria.
2. The meeting was not well attended as a total of 19 members of the Committee were not present.
3. The meeting was chaired by Mr K Segatlhe of Standards South Africa.
4. No new Sub-Committees were formed.
5. It was proposed to delete "Rotating Engineering" from the membership list due to none attendance
6. A report was compiled by V Rengecas on the progress and publications of IEC TC13.
7. The Committee take note of the following WG's progress;
 - WG 11 - Electricity metering Equipment
 - WG 13 - Dependability of electricity measuring equipment
 - WG 14 - Data Exchange
 - WG 15 - Electricity Metering
8. The Sub-committee Project Team lead by Paul Johnson is still busy translating the STS/PAS into an IEC Standard.
9. Paul Johnson also submit a report on the progress of STSA (Standard Transfer Specification Association) namely:

NRS 009-2-1 NRS 009-4
NRS 009-2-2 NRS 009-8
NRS 009-6-3 NRS009-6-10
NRS 009-6-4 NRS 071
NRS 057

10. SANS 154-3 - Electricity Payment System Part 3: Mounting and terminal requirements.

This is a long overdue and outstanding issue as the patent rights have never been resolved. The Committee agreed to start developing a standard without violating the patent rights and also approach Conlog in this regard.

11. Mr A J Claasen reported that the SABS was busy with restructuring to form business groups to enhance commercial activities and be more customer friendly. Must be completed by August 2005.

- **18 May 2005: STANSA SC 64C Meeting: Fred Grashoff.**

This Sub-Committee deals with Luminaires.

Report-back on 14th meeting proceedings:

Strategic Policy Statement:

84.1 to 84.5: nothing to report

84.6 Programme of work: Standards SANS 1277, SANS 1278, SANS 1279 and SANS 1119.

The two Working Groups for interior lighting and street lighting had contradictory proposals regarding the revision and or withdrawal of these standards.

Since the documents influenced one another there would be no base document to refer to if SANS 1277 was withdrawn.

A Performance Specification is preferred by the end users.

One proposal was to withdraw the existing standards and replace them with a single standard for all types of luminaires that would cover the required aspects.

The Committee agreed that a draft of a new standard would be circulated for comment. Depending on the comments received on the details covered by the draft specification, a final decision would be made, which would be circulated to the Committee.

84.8 Emerging needs:

Sports Lighting: No progress, but due to the importance of the project this item would be retained.

SANS 10098-1 will be revised (by the same WG) as soon as the SANS 10098-2 has been published.

Eskom has requested that SANS 1777 (PECU's) be revised and be brought into line with BS 5972.

- **19 May 2005: TC 80 Meeting: Teddy Naidoo.**

This Committee deals with Telecommunication Regulatory Standards.

The TC 80 Workgroup met on 19 May 2005. The decision to move the workgroup number 7 (PLC workgroup) from TC 80 to TC 74 as it was more relevant to reside there, has been confirmed. This Workgroup last met on 15 June 2005.

Currently the ETSI EN 300 113 -2 document on EMC, Land Mobile Service and Data and Voice Transmission using constant and non-constant envelope modulation is being circulated amongst members for comment. The closing date is 21 July 2005.

- **25 May 2005: STANSA SC 67F Meeting: William Dykman**

This Sub-Committee deals with Electrical Distribution Systems and Components: Electrical Installations.

Last meeting held 12 May 2005. (Note: It appears that the date of 25 May 2005 changed to 12 May 2005).

Although SANS 10142-1 did not feature on the programme of work, there were other activities that could shortly have an impact on the standard. Amendment 4, was introduced to add normative references, to change Table 4.2 in respect of circuit-breakers, conduit and watt-hour meters, to clarify requirements for disconnection, bonding and earthing, and underfloor heaters, and to change the requirements for installations in agricultural locations and at swimming pools. This amendment was published and came into effect on 1 May 2005 - available in both English and Afrikaans.

SANS 10142 – 2 - New WG – van Heerden, Cohen, du Plessis, Kruger, Goodwin, Dykman, Mc Donald, Smuts (AIA), Hardy. Working on Amendment 5 of SANS 10142-1. This will first be circulated as a DSS (Draft South African Standard)

SANS 1063 – Earth Rods 7 Couplers – WG must proceed

SANS 10313 – Document got lost between SABs and Editors. Hope that it should be published by end of May.

IEC Matters:

TC 64 – Maintenance Teams - Last Meeting in Korea – Very Active . Document extended date will be 12 years.

No voting on documents

TC 71 – Outdoor Sites – **No Member.**

TC 81 – Lightning protection – to receive this document – Messrs. Taylor, van der Merwe, van Coller, Reynolds, Britten, Kanwischer, Jandrell, Evans, Jordaan, Cohen and van Heerden.

TC 99 System engineering – Cohen, Kruger, van Heerden

INTERNATIONAL LIAISON.

South Africa will be hosting the General Meeting of IEC in October 2005 in Cape Town. IEC SC 17C, IEC SC 23E, IEC SC 23H, IEC TC 8, IEC TC 11, IEC TC 14, IEC TC 26, IEC TC 57, IEC TC 61, IEC TC 67 and IEC TC 77 would be meeting and members needed to register to attend these meetings.

- **01 June 2005: STANSA TC 69 Meeting: Louis de Wet.**

This Committee deals with Power Electronics.

- The scope, which did not include technologies such as wind energy, was changed to read **“Standardization in the fields of power electronics and alternative energy conversion”**.
- IEC TC 22: Power Electronics: The revision of IEC **60146-1-1: Semiconductor Convertors – General requirements and line commutated convertors – Part 1-1: Specifications of basic requirements** would be adopted soon.
- IEC SC 22E: Stabilized power supplies:
The revision of **IEC 60478-1: Stabilized power supplies, d.c. output Part 1: Terms and definitions**) and **IEC 60478-4: Stabilized power supplies, d.c. output Part 4: Tests other than radio-frequency interference** would be adopted soon.
- IEC SC 22G: Semiconductor power converters for adjustable speed electric drive systems
The following are now available:
- **IEC 61800-5-1 (amendment 1) – Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – electrical, thermal and energy.**

- **IEC 61800-5-2: Adjustable speed electrical power drive systems – Part 5-2: Safety requirements – Functional.**
- **IEC 61800-7 – Adjustable speed electrical power drive systems – Part 7: Generic interface and use of profiles for power drive systems.**
- **24 June 2005: NRS 077 WG Meeting: Morgan Ryan.**

This Working Group deals with High Voltage Cables and Associated Accessories.

NRS 077 is the NRS document covering high voltage (HV) cables and associated accessories. The meeting was held at Megawatt Park and began (just after 09h00) with the introduction of everyone and welcome of those who had not attended before. The meeting had been called to address several serious issues that had arisen during the document voting stage. During this process, the draft document had been more widely circulated and more input had been obtained from other parties.

The points that had been submitted were discussed at length. There were several editorial comments but the main technical issues related to the actual construction of the cable; specifically the CSA (corrugated seamless aluminium) sheath design vs. the APL (aluminium/polyethylene laminate) design.

Some of the larger utilities had specific concerns with respect to performance of the various designs under lightning conditions. This generated robust debate on whether such concerns should be documented in a document such as an NRS specification.

Given the number of items on the agenda to be discussed, and the slower than expected progress due to the extensive discussion and introduction of other relevant points, it was resolved that another meeting would have to be held before finalising the document.

Several delegates from outside Gauteng had to leave early to meet travel deadlines, but the other members remained and finished the document (in a draft format). It was resolved to circulate the document before the next meeting so that attendees would have time to read the draft and prepare. The date for the next meeting is yet to be announced.

- **Report from Tony Dold on NRS 048-1.**

UPDATE REPORT: NRS 048: QUALITY OF SUPPLY STANDARDS.

(June 2005)

Tony Dold advised that during the six-month period January to June 2005, no meetings of NRS 048 have been held.

- **Feedback Report on STANSA SC 71E – Geographic Information (Coert Scherman).**

NB. No meeting has been scheduled for 2005.

- **Feedback Report on NRS 064 – Geographic Information (Coert Scherman on NRS 064 and NRS 084).**

NB. No meeting arranged for 2005.

- **Feedback Report on NRS 084 – Information Exchange in the Electricity Supply Industry (ESI) (2004/12/07)**

NB. No meeting arranged for 2005.

End of Report.

Al Fortmann.
Technical Secretary.

COMMITTEE REPORT FOR THE 59th AMEU

CONVENTION LEGAL AND STATUTORY COMMITTEE

Sy Gourrah (Chairperson)

MEETINGS

The Committee held 4 meetings since the AMEU at Pietermaritzburg in 2004. The task of the committee is to initiate, comment and consider all legal and statutory matters affecting the AMEU and its members and to make suitable recommendations.

Some of the more important issues dealt with over the last two years are highlighted below:

ISSUES

- *Draft Standard Electricity By-Laws*
The Standard Draft Electricity By-Laws is available on the AMEU website and being looked at by EDI Holdings.
Certain Standard By-Laws have been gazetted and translated into Afrikaans.
- *Sans 10142-1 Surge Protection*
The AMEU Stance on SANS 10142-1 Surge Protection is now listed on the AMEU website.
- *Installation Regulation Redraft*
CONSTRUCTION REGULATIONS.
The construction regulation issue has been the subject of discussion for some considerable time with little progress.
AMEU is producing an approach stance document for Municipalities relating to the construction regulations.
- *EDI Restructuring Bill*
RED's will be Municipal Entities with special exemptions.
- *Regulatory Bill*
AMEU has commented on the Electricity Regulatory Bill and is awaiting a copy of draft Bill or debate by AMEU.
- *Capacity Building In Energy Efficiency And Renewable Energy*
AMEU has AGREED to participate in initiatives of the DME to start dialog on sustainable energy policies.
AMEU has NOTED that DME has focused more on environmental sustainable energy concerns but that the implementation drivers do need to be carefully consider and developed over time.

Electricity Suppliers Liaison Committee Report for AMEU Convention, Polokwane September 2005

The ESLC has had a productive and successful 24 month period since the AMEU convention in Msunduzi in 2003.

The primary goal of the ESLC remains the bringing together of technical experts from Eskom and the AMEU into NRS workgroups to rationalise equipment and other technical specifications. A national rationalised specification has the advantages of larger production runs for local manufacturers, which in turn leads to better prices and lower stock holding for both utilities and suppliers.

The ESLC continues to work closely with officials from the National Electricity Regulator on NRS customer service and quality of supply documents. These have been expanded to include NRS on cost of supply and cost of connection and others related to regulation of our industry. Final NRS specifications continue to be approved by the ESLC and published by STANSA (old SABS) after a round of voting from the individual NRS workgroup members and ESLC members. NRS specifications are reviewed every 5 years to accommodate changes in technology.

In the past 24 months William de Villiers from EDI holdings has been invited to join the ESLC. The EDI holdings wires committee asked the ESLC to co-ordinate a number of projects to bring together as many product and procedure specs as possible in preparation for RED's.

The ESLC bade farewell to Al Fortman in mid 2005. Al has served on the ESLC for many years, first as the AMEU rep looking after the interests of the smaller municipalities and later as the AMEU technical secretary representative. The ESLC wishes Al a long and healthy retirement and extends a warm welcome Peter Fowles who has replaced Al.

The ESLC has published more than 80 NRS specs over the past 12 years. The following shows the work in progress and recent activities:-

SUMMARY OF NRS SPECIFICATIONS – AS AT 31 AUGUST 2005

NEW SPECS.		REVISIONS		AMENDMENTS		Withdrawn	Dual-logo	WG vote as at Aug. 05	ESLC vote at Aug. 05
Published	In Process	Published	In process	Published	In process				
056-2; 056-3; 078-1; 071; 076; 038-1; 046; 072; 058; 061- 2; 075; 069; 070; 082; 064; 079-1; 080;	079-2; 083; 085-1; 085-2; 084; 061-3; 086; 087; 088; 089; 090; 091	036-2; 036-3; 038-1; 042; 046; 048-2; 009-6-8;	002; 013; 053; 055		047-1; 055;	062; 063; 048-3; 048- 5	041/SANS 10280	009- 8; 034- 1; 037- 3; 047- 1; 074- 1; 077; 079- 2; 040- 3	057; 043; 060; 037- 1; 078- 2; 081
17	12	7	4		2	4	1	8	6

Details of these or any other NRS documents can be found on the NRS website at www.nrs.eskom.co.za or contact Alvin by e-mail on <FrederA@eskom.co.za>

The future of the ESLC lies in serving the Regional Electricity Distributors (REDS) and may find a permanent home in the proposed Electricity Distribution Association or remain a voluntary association of users of electrical distribution equipment and materials.

I would like to thank the Eskom and AMEU members of the ESLC for their efforts over the past 24 months. A special thanks to the PMA, i.e. Alvin and Vinod and their project managers who supply all the admin support to the ESLC and last but not least to Adolf Classen and STANSA who continue to host the ESLC meetings and provides the technical editing and publishing service for the NRS documents.

Roy Wienand
ESLC Chairman