

AMEU

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

2 August 2003.

PROGRESS REPORT ON SABS RELATED COMMITTEES.

Report Covering the Period January 2003 up to June 2003.

Report for the 2003 AMEU Convention and AMEU Website, and for AMEU Members who request the report.

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

❖ Report on the Electrotechnical Sector Board of STANSA:

Two Electrotechnical Sector Board meetings were held during the six-month period January 2003 to June 2003. The meeting dates were the following: Thursday 6 March 2003, and Thursday 19 June 2003.

- **Meeting held at the SABS on 6 March 2003:**

Report:

A number of decisions were taken, of which the following are highlighted:

- The paragraph "Membership" in the Terms of Reference will be re-worded.
- The SABS is requested to approach the Department of Labour, to express concern that the compulsory standard SANS 0142 is not being policed adequately and ask them whether there are problems with the standard or with the process of generating the standard.

A task team is to be formed to look into the feasibility of developing a code interpretation for standards starting with SANS 0142.

The following covers the item concerning Terms of Reference:

Background.

The International Electrotechnical Commission (IEC) recognises as its South African member, the "South African National Committee of the IEC", as distinct from SABS or its standards development substructure, Standards South Africa. IEC Statutes require the South African National Committee to be fully representative of national interests in the IEC's field of activity, which is to promote international cooperation on all questions of standardization and related matters (including conformity

assessment) in the fields of electricity, electronics and related technologies. The IEC achieves this objective by issuing publications, including International Standards.

Standards South Africa is responsible for the development of South African Standards and related publications in all fields, including those covered by the IEC. To assist in assessing the market relevance of South African Standards and standards development structures, Standards South Africa makes use of a number of Sector Boards to provide advice of a strategic nature at a business level. The Electrotechnical Sector Board is intended to serve both the above roles, and to provide a link between international and national activities in the field of electrotechnical standardization.

Terms of Reference.

- The Electrotechnical Sector Board shall function as the South African National Committee of the IEC, by
 - providing appropriate input to the IEC at the highest management level, (i.e. the IEC Council),
 - participating, where appropriate (and where elected) in the management structures of the IEC (i.e. its Council Board, Standards Management Board and Conformity Assessment Board), and
 - overseeing, at a strategic level, South Africa's participation in the technical work of the IEC.
- The Electrotechnical Sector Board shall decide from time to time on areas of national standardization (if any) within its scope where it wishes to provide advice to the Director: Standards South Africa, and shall develop and present such advice.
- The Electrotechnical Sector Board shall discuss business or strategic matters within its scope referred to it by the Director: Standards South Africa, and provide appropriate advice, where possible.
- The technical scope covered by the Electrotechnical Sector Board shall in principle be the same as that of the IEC, i.e. all electrotechnical areas, excluding information and communication technology (as covered internationally by ISO/IEC JTC1, ITU and ETSI).

Membership.

The Electrotechnical Sector Board shall reflect general South African interests within its technical scope, as defined in its terms of reference, at a strategic management level. Its members shall be individuals, without alternates, deemed to be knowledgeable of the interests of the various sub-sectors. They shall be selected by the Director: Standards South Africa, from nominations received. At least seventeen organizations will be approached by Standards South Africa to provide nominations, which includes the AMEU. South African bodies participating in IEC conformity assessment schemes are also being approached for nominations.

Expertise is preferred from the invited bodies.

The Board shall comprise approximately twelve individuals (the exact number being at the Director's discretion) who shall serve for a term of two years, after which nominations will be called for again. There is no limit to the number of times an individual may be reappointed, provided he/she continues to be nominated. Should a member be absent without apology for more than two successive meetings, the Director: Standards South Africa may appoint a replacement, from nominations received, for the remainder of the original term. Additional persons co-opted by the Director, including appropriate staff from Standards South Africa, may attend meetings in a non-deliberative capacity.

Chairperson.

The Electrotechnical Sector Board shall be chaired by one of its members, elected by the Board for a 2-year term of office, with no limit on the number of times an individual is re-elected. The Chairman shall also be known as the President of the South African National Committee of the IEC, and shall, where possible, represent South Africa at IEC Council meetings.

Secretariat.

Standards South Africa shall provide the Secretariat to the Electrotechnical Sector Board and South African National Committee of the IEC. It is also responsible for paying the IEC membership dues, and for ensuring payment of dues to relevant IEC conformity assessment schemes.

Meetings.

Meetings shall take place as often as the Sector Board deems necessary, but not less than once a year, prior to the annual IEC General Meeting. Meetings venues should normally be in Gauteng, and only elsewhere with the approval of the Director: Standards South Africa. The facilities of Standards South Africa may be used as meeting venues.

- **Meeting held at Megawatt Park on 19 June 2003:**

Report:

Welcome.

In welcoming the members of the Board, a special word of welcome was extended to the new members on the new board. The Board was reconstituted at the last meeting. In the new Board, members were nominated based on their specific field of expertise (Terms of References amended as such). Of the organisations that were asked to nominate representatives, the Department of Labour and Department of Trade and Industry had still not responded.

The Chairman further thanked the previous Board members for their participation and contribution to industry.

Electrical Manufacturers Industry concerns.

Mr Cohen reported on the concerns of the Electrical Manufacturing Industry regarding the dominance of international standards over local standards. A number of concerns raised by industry were noted.

Regional issues.

Dr Johnston reported that a SADC meeting was held with the IEC, ISO and OIML in Maputo in April to discuss the participation of developing countries in WTO. The meeting was funded by WTO and was aimed at facilitating participation of the SADC in the IEC and ISO to eliminate trade barriers.

Mr. Paul Johnson gave a presentation on PIESA at the SADC annual meeting in Livingstone, Zambia. He reported that PIESA had drafted a letter of intent, which would later become a Memorandum of Understanding. They also discussed the need for cooperation between the southern African countries and a need for harmonised standards. The African Utility Standards had reconstituted a standards committee and needed a combined effort from the utility side in the regions. The UPDEA intended to have a standards council for harmonised standards in Africa.

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

The AMEU serves on twenty-eight SABS STANSA Technical Committees and NRS Working Groups, which include the Electrotechnical Sector Board and the SABS Code of Practice – SABS 0480: Quality of Supply Working Group and eight NRS Working Groups.

The Technical Committees 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 0142 Parts 1 and 2)

SABS 0142: Part 1. (Working Group for Low Voltage)

SABS 0142: Part 2. (Working Group for Medium Voltage)

TC 69 Power Electronics

TC 73 Electromagnetic Compatibility

SABS – IEC TC 20: Electric Cables and Accessories

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

Code of Practice – SABS 0480 : Quality of Supply Working Group: (Including the Revision of NRS 048 and NER Power Quality Advisory Forum).

Electrotechnical Sector Board (SABS SB1)

Working Group for SABS 0198: Selection, Handling and Installation of Cables up to 33 kV.

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

NRS Working Group 071: Remote Metering System (A first draft is being prepared, based on DLMS User Association Standards, recently adopted by the IEC). (WG meeting held in March 2003).

NRS Working Group 072: Overhead Fault Path Indicators (Specification is published and available on the NRS Website).

NRS Working Group 074: Low Voltage Cable Systems for U/G Electrical Distribution. (Approved by the ESLC and to be published).

NRS Working Group 018: Fittings and Connections for LV O/H Power Lines Using Aerial Bundled Conductors. (Revision is underway. Note that these NRS Specifications will also be published as PIESA Specifications).

NRS Working Group 069: Recovery of Capital Cost. (Note: A contract is to be placed with an external supplier to develop this Spec.).

NRS PIESA 1003 Working Group: LV Cables (Note: The following specifications were approved. Approved by the AMEU – (Japie de Villiers), in July. PIESA 003 Parts 2 and 3 cover the accessories and application of the low voltage cables. PIESA 002-2 – Fuse Links).

The following Committee Meetings were held during this period.

27 February & 22 May 2003	TC 80	Report by Harm Boer
5 March 2003	SC 67C	Report by Evert van Helden – (Raymond Grunig)
23 April 2003	SC 67D	Report by Evert van Helden – (Japie de Villiers)
7 May 2003	TC 66	Report by Japie de Villiers
28 May 2003	SC 67B	Report by Evert van Helden – (William Dykman)
11 June 2003 (9 June 2003).	TC 62	Report by Hennie van Wyk

The following Committees and Working Groups are not ordinarily pre-scheduled and operate on an as and when required basis.

SABS – IEC TC 20 – Report by Japie de Villiers.

Code of Practice - SABS 0480 - Report by Tony Dold.

Working Group for SABS 0198 – No meeting, no report from Japie de Villiers.

SABS SC 71E – GIS – No meeting, no report from Coert Scherman.

NRS 071 Working Group – Meeting on 31 March, but no report from Kobus van den Berg.

NRS 072 Working Group – No meeting, no report from Mark Walter.

NRS 074 Working Group – No meeting, no report from Arthur Smith.

NRS 018 Working Group – No meeting, no report from Japie de Villiers.

NRS 069 Working Group – No meeting, no report from William Dykman

NRS PIESA 1003 Working Group (To ensure the ESI's input) – No meeting, no report from Japie de Villiers.

Summarised versions of the reports are submitted :-

- **27 February and 22 May 2003: TC 80 Meeting: Harm Boer.**

This Technical Committee deals with Telecommunication Regulatory Standards.

Over the time of this report the eighth and the ninth meeting of the TC80 committee took place.

Of note regarding these meetings is the following:

1. In the future Mr C. Kuun will replace Mr Boer as representative, as Mr Boer is now employed in a different field within Tshwane Metropolitan Municipality.
2. The ISDN regulation has been promulgated by the Minister of Communications in Government Gazette 24758 of 16 April 2003.
3. The committee decided to recommend that digital leased lines should not be regulated.
4. It was found that the Civil Aviation Authority (CAA) is responsible for compatibility calculations and testing in accordance with the Aviation Act. ICASA, the CAA and the Broadcasting Authority now must come together to develop a process to ensure the compatibility in the band 108 – 137MHz, an aeronautical band.

5. SANS 10222-3 standard regarding electric security fences will be amended to include a section about installation requirements for the prevention of interference caused by electric fences. Regulation of this, however, still poses a problem.
6. Workgroup 7 regarding power line telecommunications has been moved to technical committee 74 for the time being to develop proper standards in the field, which currently do not exist. Cognizance was taken that Tshwane is having a second trial with another supplier.
7. With more and more entities using the same radio sites, Workgroup 2 has started to look into proposals regarding guidelines for radio site engineering.
8. The testing and certification of digital radio 'trunking' systems equipment still poses a problem for ICASA.

The last meeting was also attended by two people from the Communications Commission of Kenya.

- **5 March 2003: STANSA SC 67C Meeting: Evert van Helden – (Raymond Grunig)**

This Technical Committee deals with Electrical Accessories.

In principal stove connectors was already covered in SANS 10142 Part One in Annexure A.

It was accepted that Annexure A would form the basis for a national standard for stove connectors. The aim is to ensure safety of stove points when stoves are removed so that no wires are exposed.

A Working Group will continue verifying plug/socket systems (2,5 Amp Euro plug and double insulated Schuko plug) for future use in South Africa.

The terminating of extension cord sets is being re-workshopped to allow for replaceable plugs.

- **23 April 2003: STANSA SC 67D Meeting: Evert van Helden – (Japie de Villiers).**

This Technical Committee deals with Insulators.

12th Meeting held on 23 April 2003 at 9.30

Nothing noteworthy was reported. Therefore no further report.

- **7 May 2003: STANSA TC 66 Meeting: Japie de Villiers – (Japie de Villiers).**

This Technical Committee deals with Electric Cables.

12th Meeting held on 07 May 2003 at 09:30

The number of this committee was changed to TC 3350.6 in August 1996, and to SABS TC 66 in October 1998. In November 2002, the prefix to the number was changed from SABS to STANSA.

Nominations were made to serve on the working group regarding the specification for lugs and ferrules SANS 1803-1 (Mr Rosenburg and Mr de Villiers) Mr Rosenburg to be Chairperson.

- **28 May 2003: STANSA SC 67B Meeting: Evert van Helden (William Dykman).**

This Technical Committee deals with LV Switchgear.

The twelfth annual meeting of the Sub-committee for **Low-voltage switchgear STANSA SC 67B**, was held on 28 May 2003.

No AMEU representative attended the meeting but the minutes were received with some extracts listed below.

The Chairperson briefly discussed the changes of SABS Standards to Standards South Africa (STANSA) as spelt out in the letter that was circulated to all committee members on 4 December 2002.

The differentiation between types of standards, e.g. codes of practice, test methods etc, had now been removed. In the case of existing codes of practice, 10 000 was added to the number e.g. SABS 0142 was now SANS 10142 and 5000 was added to the number of test methods e.g. SABS SM 123 was now SANS 5123.

Concern was expressed on the lack of a forum for industry to voice their concerns and obtain clarification on issues relating to Certification, Regulation and Testing and Conformity Services. It was **PROPOSED** that SABS top management be urged to create a forum where all parts of the SABS family would be present to answer questions.

Published Standards

- SANS 152 was withdrawn and replaced by IEC 60947-3.
- SANS 767-2 to be reaffirmed for 5 years
- SANS 1473-2 to be withdrawn

Emerging needs

Amendment to VC 8036

The chairperson reported that the Regulatory Division had amended the scope of VC 8036 to limit it to circuit breakers with a short circuit breaking capacity not exceeding 10 kA. The proposal was forwarded to the SABS Council for approval but was not yet published in the government gazette and would be retained on the list. **NOTED**.

Specification for service entry level circuit-breakers

Mr Kruger reported that no progress had been made.

Consensus on circuit-breakers and earth leakage units

There was no consensus reached on this specification and would be retained on the list.

Revision of SANS 1619

SANS 1619 would be retained on the list until a draft of the revised standard was submitted.

Possible adoption of IEC 62208 – Empty enclosures for low-voltage switchgear and control gear assemblies – General requirements. The document would be circulated to the committee.

- **09 June 2003 – SATNSA TC 62 Meeting : Hennie van Wyk (Hennie van Wyk plus others).**

This Sub-committee deals with Electrical Measurements.

The meeting of the Working Group TC 62 took place on 9 June 2003 in Midrand at the Eskom Training Centre.

The meeting was well attended and the Strategic Policy Statement was inter-alia discussed.

It is to be noted that all the committees are now called STANSA Committees and not SABS Committees any longer, which will mean that TC 62 will be named STANSA TC 62.

All approved and accepted SABS Standards will in future be named SANS followed by the reference number. The colouring of the books will fall away and will only have the colour white in future.

The following draft specifications are being circulated for comments:

- 1 SANS 62053-21/IEC 62053-21: 2003 Static meters for active energy
- 2 SANS 62053-22/IEC 62053-22: 2003 Static meters for active energy (CT operated)
- 3 SANS 62053-23/IEC 62053-23: 2003 Static meters for reactive energy

Under a point concerning Emerging Needs, the mounting and terminal requirements (base of prepaid meter) on Electricity Payment Systems remains a major problem and the patent rights need to be sorted out by Eskom and the patent holder.

Concern was expressed about the absence of expertise after Ms. Rengecas left the SABS and which no longer can offer the services required.

The AMEU is requested to raise the apparent lack of expertise and experience within some Departments of the SABS, with the President of the SABS and request an answer.

- **June 2003: STANSA 10480 Including Revision of NRS 048 Meeting : Tony Dold.**

This STANSA Working Group deals with Quality of Supply.

UPDATE REPORT — NRS 048 — QUALITY OF SUPPLY STANDARDS
(June 2003)

The following relates to progress since the last report in December 2002.
(as was included in the AMEU Progress report on SABS related committees — July 2002 to December 2002).

1.0 NRS 048 WORKING GROUP

1.1 NRS 048 — Part 1 (Glossary of terms)

No progress. As previously reported, only minor changes are required which arise from changes to Part 2.

1.2 NRS 048 — Part 2 (Minimum Standards)

The Working Group has not met since the last report and is it only needed to report that, as was expected, a consensus vote was reached by the Working Group but some contributions received during the voting process of the Electricity Suppliers Liaison Committee still need to be considered. It is expected that this will require only non-contentious editorial work and the document will be approved by the ESLC shortly.

It was expected that, once approved, this document would be considered by the SABS as a Draft South African National Standard (SANS). However, as there was customer representation with full voting rights on the NRS 048 WG for this second edition there now appears to be no particular urgency or added value in migrating NRS 048-2 to a SANS document. The fact that the PIESA Standardisation Working Group is considering adopting this Standard would also influence this process.

1.3 NRS 048 — Part 3 (Procedures for measurement and reporting)

No change. The document is complete as a reference specification and is expected to be used by the National Electricity Regulator to define the future reporting requirements.

1.4 NRS 048 — Part 4 (Application guide for utilities)

No change anticipated until/if SABS TC proposes it as a SANS Code of Practice.

1.5 NRS 048 — Part 5 (Instrumentation and transducers for voltage quality monitoring and reporting)

This was due to be replaced by the Standards SA Power Quality Measurement Standard SANS 1816-1 and SANS 1816-2 under development. As the IEC reference standard for power quality measurements (IEC 61000-4-30) has now become available it is likely that this will be adopted as SANS 61000-4-30 to cover the requirements of Class A measurements, with additions to cater for Class B measurements.

2.0 NER POWER QUALITY ADVISORY COMMITTEE

There have been two meetings of this committee since the previous report.

25 February 2003 — Due to a late change of the date of the scheduled meeting Mr. Dold was unable to attend. However, it is understood from other utility representatives on this committee that there had been no change in direction from that covered fairly comprehensively in Mr. Dold's December 2002 report which brought the significance of the NER's Directive on Power Quality for all licensees to the AMEU's attention.

The minutes of this meeting record that copies of the Directive had been distributed to licensees, that no queries had been received at that stage and that Regional Workshops would be held if the NER were to receive an overwhelming call for assistance. It was also resolved that the deadline for submissions on the PQ Management Plan Implementation would remain at 30 June 2003. (It had been previously reported that the representatives of utilities on the PQ Advisory Committee had advised the NER that some licensees would not have the resources to fully satisfy the Directive and that the implementation programme should ideally be delayed until after the establishment of the REDs.)

The Advisory Committee also considered the facts of a test case at this meeting where a power quality complaint had been received by the NER. This will be a principal role of the PQ Advisory Committee in the future and, in this case, the opinion was in favour of the licensee.

12 June 2003 — This meeting focused on the Power Quality Management Plan which all licensees were expected to submit by the end of that month. Again the representatives of licensees on the committee referred to the limited resources of some licensees, even large organizations, to be able to implement the plan in the short term. The committee was

generally responsive to these concerns and it is expected that the NER will accept a conservatively phased programme for a licensee to implement some of the more resource-demanding elements of the Directive. It is also believed that the NER will not expect significant expenditure that could prove to be abortive with the integration of a licensee into a RED. However, the NER will definitely require a return to be submitted by all licensees (within a short extension of the deadline to be prescribed) and this will have to demonstrate the intention to embrace the principles of the Directive.

The meeting also considered a draft specification for the annual quality performance statistics that will set the licensees' reporting requirements at the beginning of 2004 in respect of the 2003 Year. It is possible that this will only apply to licensees with a maximum demand of more than 100 MVA. Of particular significance is the expectation that, from 2006, licensees will need to report on their interruption performance in terms of internationally recognized indices as covered by Item 4.2 of NRS 048-3: 2002. It is important to note that this will require an assessment of the number of customers affected in each incident in order to determine the following —

System Average Interruption Frequency Index (SAIFI) —

Total number of customer interruptions divided by the total number of customers served.

System Average Interruption Duration Index (SAIDI) —

Sum of customer interruption durations divided by the total number of customers served.

Customer Average Interruption Duration Index (CAIDI) —

Sum of customer interruption durations divided by the total number of customers interrupted.

Customer Average Interruption Frequency Index (CAIFI) —

Total number of customer interruptions divided by the total number of customers interrupted.

(A guide for electric power distribution reliability indices, IEEE P1366 is available from the IEEE.)

End of report.

Al Fortmann.
Technical Secretary.

AMEU REPORT : PUBLICITY COMMITTEE

The publicity committee has met regularly during the past two years.

Matters under discussion were publication of the AMEU News, Proceedings Books, public relations and the utilization of the AMEU website.

Under the able leadership of Mr Max Clarke we saw a special edition of the 50th edition of the AMEU news during 2003. Many thanks and congratulations to him for a job always done well.

In order to create more awareness of the AMEU, copies of the AMEU News are now also sent to the Star, Beeld and Die Burger.

During the last few meetings, matters relating to the 2003 Convention were discussed in this committee and various recommendations made.

It is interesting to note that the AMEU website is visited about 6 000 times per year and that all matter pertaining to the business of the AMEU, information on the REDs, etcetera, can be obtained on this website.

E van Helden

Committee Reports
Education & Training Committee
J G Louw (Chairman)

Committee Members

J G	Louw	(Chairman)			
Clr	F	Grantham	Clr	TG	Lobe
JD	De Villiers			H	Auret
JA	Ehrich			WGH	Dykman
AHL	Fortmann	(Secretary)		GF	Ferreira
RF	Wienand			R	Grunig
S	Mofokeng	(LGWSETA)		MK	Mohlala
J	Swanepoel	(ESETA)		DJ	Van Wyk
J	Van Rensburg	(Eskom Training)		HR	Whitehead
P	Jacobs	(Convenor: LG Training Centre Managers)			

1. Meetings

The committee has held six meetings since the last convention, which was held in City of Tshwane. The brief of this committee is to share items of interest within the education and training arena, to standardize training within the AMEU as well as to standardize with the training of Eskom with view of having a united approach with REDs in mind. With the latter in mind key members from the electricity-training environment have been co-opted onto this committee. We therefore welcome Phil Jacobs, convenor of the LG Electricity Training Managers, Sidwell Mofokeng from the Local Government and Water SETA, Johan Swanepoel from the Energy SETA, Naudé van Rensburg in charge of Eskom Distribution Training and last but not least William Dykman from City of Tshwane.

2. Topics under the Spotlight

Various topics were discussed during the two years of which the more pertinent ones are:

2.1 AMEU/ ESKOM Training Standardisation

The AMEU and Eskom have been working since April 1999 to standardize all training within distribution between these two major role players within this field. The objective is to ensure standardization of training within all training centres within these groups thereby ensuring that training centres can be maximally utilized by all groups and ensuring a smooth transition into REDs as well as the proactive retraining of staff to fit the REDs.

To this end the following have been strived for:

- Single set of Learnerships
- Coordinated creation of Unit Standards

- Control by a single SETA

I would like to thank the Standardisation Committee who drove this process during the eight times they have met. The members are:

Costas Angelides	Don Early
Nick Bailey	Al Fortmann
Ken Hall	Hein Henze
Graeme Hopewell	Phil Jacobs
Sidwell Mofokeng	Sonette Nel
Mickey Reinhardt	Selwyn Scholtz
Dries Schoonbee	Geoff Sleight
Llewellyn Stewart	Johan Swanepoel
Naudé van Rensburg	Petrus van Zyl

2.2 Business Training for EDI Restructuring

Flowing from the above various training institution were approached with the intention to arrange courses that would benefit managers to make a transition from the old Local Government management to the modern General Accepted Municipal Accounting Practices (GAMAP) based management. This will also serve as a stepping-stone to the General Accepted Accounting Practices (GAAP) that the REDs are expected to operate under.

Various universities and other institutions were approached who were mostly eager to assist with this retraining exercise.

2.3 HV Cable Jointing Resources

As is widely known, the materials and labour connected to the jointing of very high voltage cables are expensive and scarce. To this end Brian Jones of Cape Town and his group has created a database that will contain all the detail regarding materials and labour resources and will assist members to contact the nearest source of a resource during an emergency.

2.4 Bursaries/Grants

The committee has awarded grants to all universities with electrical power engineering faculties with instruction that these grants be awarded to deserving PDIs. Various of these students have been entertained at branch meetings where mayors have thanked and motivated them to continue with their studies in this field. Currently an investigation is being conducted to look at expanding this approach to Technikons as well.

2.5 Exposing Eskom Bursars to the Municipal Field

Negotiations are being conducted to accommodate Eskom Bursars within municipalities thereby exposing them to this field. It has been agreed that municipalities are probably more experienced in the dense domestic urban

distribution networks whereas Eskom is more experienced in the rural and large industry distribution. It is the intention to expose engineers-in-training from either side to the other's strong points. The first such placement is currently being negotiated in the City of Cape Town.

3. Acknowledgement

I would like to thank my team members for the excellent debate that always reigned during committee meetings and the enthusiasm of all involved to make things happen. Thanks also to Al Fortman who was the committee secretary and who diligent got the minutes out very quickly after meetings.

ENGINEERING COMMITTEE

P E Fowles – Chairperson

The Engineering Committee has been very active over this reporting period, having held seven meetings, including a two day workshop to formulate stances and make recommendations on draft documents relating to the EDI restructuring process. Membership of the Committee continued to grow with the cooption of further specialized skills from the AMEU membership.

Liaison with SALGA

The support of SALGA in promoting Local Government engineering issues continued on an as-and-when needed basis. Howard Whitehead submits regular reports to the SALGA structures such as EDI restructuring, NEAC and EBSST. Several other Engineering Committee members represent SALGA on formal committees and task teams.

Restructuring of the EDO

Members of the Committee provided significant support for the project clusters convened by the EDI Restructuring Project Office. SALGA, represented by Howard Whitehead and At van der Merwe, were full members of the EDI Restructuring Committee until it disbanded in May 2003, while the AMEU had observer status on this body. Members also participated in the formulation of a possible ringfencing framework and asset valuation policy. Regular meetings were held with Eskom senior management to discuss issues of mutual interest. Eskom formally became a member of the AMEU and a cooperative agreement between Eskom and Local Government was signed by Eskom, SALGA and DME.

Funding of Electrification

The National Electrification Advisory Committee (NEAC) has been established by DME to monitor and control the allocation and spending of funding provided via the fiscus for electrification subsidies. The annual funding provided is approximately R1bn of which R245m will be allocated to municipalities in the 2004/2005 financial year. SALGA and the AMEU are full members of the NEAC and it is still hoped that SALGA/AMEU will have representation on the Integrated National Electrification Planning (INEP) Business Planning Unit (BPU). This unit processes applications for subsidies and makes recommendations to the NEAC. Currently the INEP BPU is an Eskom unit seconded to the DME, although the DME has now advised its intention to take over this function completely.

Free Basic Electricity

The Electricity Basic Support Services Tariff (EBSST) Task Team had almost completed a workable national policy on this important issue, when the DPLG advised DME that they would decide on the policy and implementation. Provincial roadshows have spread the message that local authorities are responsible and must choose the level and the recipients of the allocation, and must fund any shortfall if their FBE funding from the equitable share is insufficient. Local authorities are also required to negotiate an agreement with Eskom for the provision of the free allocation to the municipal residents supplied by Eskom. This presents significant technical and operational challenges for Eskom who have not yet decided on their policy on the issue.

NER

Previous regular meetings with the NER to discuss issues of mutual interest have not taken place. The Engineering Committee have resolved to attempt to re-establish this important form of contact.

Technical Issues

The AMEU Technical Secretary coordinates representation on numerous SABS Technical and NRS Workgroups by our members and collates the reports on the activities of these Committees. Significant issues addressed over the last two years were:

- A successful appeal, lodged by Chris Yelland and supported by the AMEU and Eskom, against the SABS 0142-1 mandatory requirement for surge protection of low voltage installations.
- The establishment of a pool of HV cable resources. This pool will be managed by Cape Town and will include a register of HV cable maintenance resources. Training courses will be held when required.

Thanks

Thanks are extended to all members of the Engineering Committee and all those coopted members and representatives on numerous teams and committees, for their continued enthusiasm to contribute to the many processes of development.

FINANCE COMMITTEE
H A Auret (Chairman)

COMMITTEE MEMBERS

HA Auret
JA Ehrich
GF Ferreira
PE Fowles
R Grunig
Clr J Isaacs
JP Venter (General Secretary)

MEETINGS

The committee held 5 meetings since the last AMEU Convention in Tshwane. The committee's tasks are to prepare the annual budget for submission to the Executive Council, to monitor the financial performance through the year and to consider all financial related matters and make recommendations to the Executive Council.

BUDGET

A statement indicating the financial performance of the AMEU for the 2001 and 2002 is included.

	2002	2001
	R	R
INCOME	1147906	1843526
Convention / Technical Meeting	294 663	322 461
Membership Fees	438 504	431 044
Interest/Dividends	343 519	255 087
Profit on Sale of Shares	0	773 754
Newsletter Receipts	56 220	60 930
Other	15 000	250
LESS EXPENSES	1124896	966 399
Convention / Technical meeting	43 030	29 176
Newsletter / Proceedings	158 813	145 027
Travelling Expenses	262 369	190 572
Student Assistance Scheme	30 986	10 049
Administration	629 698	591 575
NETT SURPLUS	23010	877127
PROVISION FOR DIMUNITION INMARKET VALUE OF LISTED INVESTMENTS	(66 516)	
ACCUMULATED FUNDS AT BEGINNING OF YEAR	3 421 442	2 544 315
ACCUMULATED FUNDS AT END OF YEAR	3 377 936	3 421 442

A Budget for the 2003 financial year has been prepared for consideration by the Executive Council during their meeting directly after the Convention.

MEMBERSHIP FEES

After the demarcation of the new municipal dispensation, the membership of the Association has changed considerably and a new schedule of membership fees has been developed. The fee structure is available from the General Secretary and members are requested to budget for the fees.

INVESTMENT POLICY

The Association has in the past invested mostly in listed shares and participating bonds, but during the past two years, with the higher interest rates and poor performance of listed shares, the bulk of the investment was in fixed deposits. This policy has been successful and has contributed largely to the present sound financial position. The pro-active role of our General Secretary in the protection of the Association's investments after the attacks in America is acknowledged.

STUDENT ASSISTANCE

On request of members the increase of the student assistance scheme was investigated and will be considered by the Executive Council at the next meeting.

ACKNOWLEDGEMENTS

The contribution of committee members and the professional handling of our financial affairs by the General Secretary are gratefully acknowledged.

The assistance of our auditors, Messrs Harris, Dowden and Fontaine and our bankers, ABSA Bank, is appreciated.

REPORT OF THE GENERAL SECRETARY TO THE 58TH CONVENTION FOR THE PERIOD 2001–2003

JEAN VENTER

Your Association, now in its 88th year of existence, continues to play a strategic role in the electricity distribution industry. The Executive Council, the seven Committees of the Executive Council and numerous *ad hoc* committees have an extremely active two years behind them.

During the past two years the profile of some of the committees changed from being AMEU Executive Council Engineering Members committees only to being more inclusive. We suggest that this trend will continue over the next two years. The Education and Training Committee now includes a number of ordinary members of the AMEU, as well as representatives from Eskom. The Tariffs Committee includes Eskom and Affiliate Members and Eskom is participating in the Publicity and Training Committee. In addition, the frequency of Eskom/AMEU meetings, known as the Imberbe meetings, is increasing and meetings between the Executive Council and the National Electricity Regulator are now scheduled on a regular basis.

The Executive Council has increased its efforts to involve Councillor Members in the activities of all AMEU committees and we can report that councillors now serve on all of the Council committees.

Much debate on how to bring demographic equity to the Executive Council produced proposals for changes to the AMEU constitution that will be voted on at this Convention.

After many years of poor communication between the Department of Labour and the AMEU on various strategic issues, it appears that recent interventions have eased the way for normal communication processes between these organisations.

Although the number of undertakings that are members of the association has reduced owing to demarcation-driven reductions in the number of independent undertakings to about 163, the number of ordinary members has increased sharply to record levels of 178. Consolidation of undertakings is continuing and it is likely that the next two years will see the undertaking numbers reduce further to the theoretical minimum number of 133.

The long anticipated restructuring of the electricity distribution industry is now in its tenth year of debate. At the time of writing this report, we understand that a draft restructuring bill will be tabled at the next cabinet meeting. A restructuring holding company has been registered and directors appointed.

The Executive Council visited Windhoek during 2002 to renew its relations with our Namibian members. The Windhoek mini-conference was very well supported by the AMEU members in Namibia. We extend a special word of thanks to those members who travelled great distances to attend.

Council members have again invested exceptional amounts of time and effort in the activities of your association. The diligence displayed and the family time sacrificed are to the credit of both the municipal electricity distribution and the electrical engineering profession.

It is my pleasure to submit this report on the activities of the AMEU over the past two years.

EXECUTIVE COUNCIL

JA	Ehrich	-	Tshwane, President, plus Councillor
PE	Fowles	-	Msunduzi, President Elect, plus Councillor

Together with their Councillor Members, who were nominated by their respective Councils, the following Engineer Members were elected to the Executive Council at the 57th Convention held in Tshwane in 2001:

HA	Auret	-	Free State/Northern Cape Branch
GF	Ferreira	-	Eastern Cape Branch
K	Grunewald	-	Good Hope Branch
JG	Louw	-	Good Hope Branch
DET	Potgieter	-	Highveld Branch
E	van Helden	-	Highveld Branch
PJS	van Niekerk	-	Highveld Branch
DJ	van Wyk	-	Kwazulu-Natal Branch

Pursuant to the Constitution, the following Past Presidents, together with their Councillors, were also members of the Executive Council:

HR	Whitehead	-	eThekwini
HD	Beck	-	Buffalo City
AJ	van der Merwe	-	Mangaung

The following Councillors were members of the Executive Council for 2001-2003:

L	Ditshego	-	Tshwane
D	Erleigh	-	City of Cape Town
SN	Gumede	-	eThekwini
F	Grantham	-	Msunduzi
DA	Halley	-	Buffalo City
BA	Hassim	-	Polokwane
J	Isaacs	-	//Kara Hais
TG	Lobe	-	Mangaung
RMM	Lesoma	-	eThekwini
DJB	Moffatt	-	uMhlathuze
S	Mowzer	-	City of Cape Town
LL	Nawa	-	Tshwane
DJ	Plaatjie	-	Sedibeng
J	Rogers	-	George
MB	Tokota	-	Nelson Mandela

During 2001-2003 the following person acted as a co-opted member of the Council:

TP van Niekerk	-	Chairman of the Affiliates Committee
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Secretariat

JP Venter from Van der Walt & Company served as General Secretary to the Association.

Technical Secretary

AHL Fortmann served as Technical Secretary. He is a Past President and an Honorary Member of the Association.

Publicity Secretary

MPP Clarke served as Publicity Secretary. He is a past Executive Council Member and an Honorary Member of the Association.

Executive Council Meetings

The Executive Council held six meetings during the past two years.

BRANCHES

The AMEU Branches held regular meetings to discuss matters of mutual interest.

Office-bearers 2001/2002

BOSVELD SUB-BRANCH

Chairman - Pierre van den Heever
Vice-Chairman - William Olivier
Hon. Secretary - Hammies van der Merwe

EASTERN CAPE BRANCH

Chairman - Hans Moerdyk
Secretary - Thinus Minnie

FREE STATE/NORTHERN CAPE

Chairman - FC Meyer
Vice-Chairman - William Sephton
Secretary - R Stephens

GOOD HOPE BRANCH

Chairman - Len Richardson
Vice-Chairman - Kevin Grunewalt
Secretary - Fred Daniel

HIGHVELD BRANCH

Chairman - Chris Spies
Vice-Chairman - Adam Viljoen
Hon. Secretary - Stephen Delpont

MPUMALANGA SUB-BRANCH

Chairman - Raymond Grunig
Vice-Chairman - CD Dirks
Secretary - Jaco Landsberg

KWAZULU-NATAL BRANCH

Chairman - Sandile Maphumulo
Vice-Chairman - Jaap le Grange
Secretary - Bronwyn Fletcher

COMMITTEES AND REPRESENTATIVES

The following committees and representatives were appointed by the Executive Council:

COMMITTEES

STANDING COMMITTEE

President (Chairman) plus councillor, President-Elect plus councillor, Immediate Past President, JG Louw, HR Whitehead (SALGA) (co-opted)

LEGAL AND STATUTORY REGULATIONS COMMITTEE

DJ van Wyk (Chairman), HA Auret, NF Croucher, WGH Dykman, JA Ehrich, GF Ferreira, K Grunewald, R Grunig, JG Louw

ENGINEERING COMMITTEE

All Executive Council Engineer and Councillor Members as well as NF Croucher, WGH Dykman, D Michie, JJ Roos, RF Wienand, R Grunig, M Wilson. The committee was chaired by the President Elect.

FINANCE COMMITTEE

HA Auret (Chairman), Clr J Isaacs, JA Ehrich, GF Ferreira, R Grunig, P E Fowles

PAPERS COMMITTEE

President (Chairman), President Elect, Immediate Past President, Chairperson and Vice-Chairperson of the AMEU Affiliates Committee, Councillor from host city or town, City/Town Electrical Engineer from host city/town

PUBLICITY COMMITTEE

E van Helden (Chairman), MPP Clarke, JA Ehrich, P E Fowles, K Grunewald, TP van Niekerk, AJ van der Merwe, L van Staden, Executive Council Members with training centres

EDUCATION AND TRAINING COMMITTEE

JG Louw (Chairman), HA Auret, JD de Villiers, WGH Dykman, JA Ehrich, GF Ferreira, AHL Fortmann, F Grantham, R Grunig, P Jacobs, S Mofokeng, MK Mohlala, J Swanepoel, N van Rensburg, DJ van Wyk, HR Whitehead, RF Wienand

TARIFF COMMITTEE

AJ van der Merwe (Chairman), HB Barnard, D Conradie, WGH Dykman, JA Ehrich, F Grantham, J G Louw, D E T Potgieter, DJ van Wyk, C Visagie, RF Wienand

REPRESENTATIVES

AMEU: TELECOMMUNICATION WG

Charles Kuun (Chairman), Mike Champion, Mike Gittings, TL Naidoo, JJ Roos, Mitesh Takoorden, Maarten van Helden

DOL: NATIONAL ELECTRICITY SAFETY FORUM

P O'Halloran

ECB: ELECTRICAL CONTRACTING BOARD

WGH Dykman

ECSA: ENGINEERING COUNCIL OF SOUTH AFRICA (Tariffs and Fees Forum)

AJ van der Merwe

EMF: ELECTRIC & MAGNETIC FIELDS FORUM

HR Whitehead (or his nominee)

EPCC: ELECTRIC POWER CO-ORDINATING COMMITTEE

JG Louw (responsible for reporting)

ESKOM: DISTRIBUTION STANDARD PRICING COMMITTEE

RF Wienand

ESLC: ELECTRICITY SUPPLIERS LIAISON COMMITTEE

City Electrical Engineer of the following cities: Tshwane, Mangaung, Cape Town, Durban, City Power and Nelson Mandela, and AHL Fortmann (Technical Secretary) and DJ van Wyk (Report to Exco)

IEC: SA NATIONAL COMMITTEE OF THE IEC

JA Ehrich

SALGA: MUNICIPAL ASSOCIATIONS

SALGA – HR Whitehead, AJ van der Merwe
Provincial Associations: Engineer Members as nominated by Provincial LG Associations

NTC: NATIONAL TECHNICAL COMMITTEE NTC 76 (ISO 9000)

JA Ehrich, AHL Fortmann

PIESA: POWER INSTITUTE OF EAST AND SOUTHERN AFRICA

JG Louw

SANCI: The SA NATIONAL COMMITTEE ON ILLUMINATION

JJG Dreyer

IEC: SA NATIONAL COMMITTEE OF THE IEC

President

SANEA: SOUTH AFRICAN NATIONAL ENERGY ASSOCIATION

President

SARPA: SOUTH AFRICAN REVENUE PROTECTION ASSOCIATION

DET Potgieter

DME: STAKEHOLDERS ADVISORY COMMITTEE

JA Ehrich, AJ van der Merwe, HR Whitehead

SABS

AMEU members serve on some 15 technical committees of the SABS

MEMBERS MEETINGS

Convention

The 57th Convention was held in Tshwane in October 2001 and was attended by 526 delegates, guests and companions.

Technical Meeting

The 19th Technical Meeting was held in Upington in September 2002 and was attended by 355 delegates, guests and companions.

Papers

Papers presented to the Convention and Technical Meeting were published in the Proceedings, which were posted to all members and delegates.

Sponsors

On behalf of the AMEU, we wish to record our sincere thanks and appreciation to all Affiliate Members who sponsored advertisements in the Proceedings as well as the various social functions at these meetings.

Affiliates

The Affiliates held regular meetings, under the able chairmanship of Mr Trevor van Niekerk. The Affiliates now participate in the activities of all branches of the Association and their contribution to building the Association is greatly appreciated.

MEMBERSHIP

The membership figures for the AMEU are as follows:

	1997	1999	2001	2003
Honorary Members	36	36	30	32
Past Members	50	47	48	51
Engineer Members	225	215	202	163
Associate Members	39	38	86	178
Undertakings	225	215	133	163
Affiliate Members	170	145	159	160
Total membership	745	696	658	747

Honorary Membership

Mr HD Beck and Mr C Burchell were granted Honorary Membership of the AMEU at the 57th Convention held in Tshwane in October 2001.

Certificates of Merit

No certificates of merit were awarded at the Tshwane Convention in October 2001.

Obituary

Since the 19th Technical Meeting held in Upington, the following members or colleagues have passed away:

Mr RW Barton
Mr KH Bobek
Mr HJ Hugo
Mr DC Plowden
Mr G Gerber
Mr JC Waddy
Mr J Morrison

CONCLUSION

This report should be read in conjunction with the reports of the Association's various committees and/or representatives. The AMEU appreciates the time and energy devoted to committee activities by the chairmen and members. The aid given in this way is highly valuable to the AMEU, its members and the electricity consumers of South Africa. On behalf of all our members, we express our gratitude for this selfless service.

**AMEU Executive Council Report
from
Chairman of the Legal & Statutory Committee**

SABS 0142 Part 1 (future reference SANS 10142 Part 1)

The SABS TC 67 Committee revised the code of practice that surge protection is not mandatory. Our appreciation is extended to those members and the General Secretary who represented AMEU and organized for the hearing.

Amendments to the Electrical Installation Regulations (OHS&E Act)

AMEU is represented by William Dykman and Arthur Gullan and no significant developments took place on this issue. We are still awaiting new regulations that needs to be workshopped with AMEU representatives and industry interested and affected parties prior to compilation by the Department of Labour.

EDI Restructuring Bill

Extensive comments were given on the EDI Restructuring Bill with the assistance of AMEU Executive Council members. We were informed that the comments were incorporated and that the bill was forwarded to parliament. AMEU was declined the opportunity to have insight into the revised bill prior to being tabled in parliament.

Standard draft Electricity Bylaws

Draft 7 is available on the AMEU website. Members are encouraged to use these bylaws, as it will be frequently updated by Neil Ballentine (Cape Town) who updates and coordinates the working group and relies on your feedback.

4 August 2003

D J van Wyk (Chairman of the AMEU Legal & Statutory Committee)

**AMEU Executive Council Report
from
Kwa-Zulu Natal Branch EXCO representative**

The branch had its usual quarterly meetings.

Attendance of engineering members still is a reason to be concerned about the future of the association.

Affiliate members' attendance and support is much appreciated.

The newly elected chairman is Mr Sandile Maphumulo (eThekwini) and the Vice Chairman is Mr Jaap le Grange (uMlalazi - Eshowe).

Nominations were made for the Executive Council at the February meeting: Danie van Wyk (uMhlathuze) and on condition that the amendments made to the Constitution to make provision for non-engineering members to enhance demographic representation be accepted - Sandile Maphumulo (eThekwini) for the latter position.

The next branch meeting will be held on 16 October 2003 in Vryheid and all AMEU members are invited.

4 August 2003

D J van Wyk (AMEU Kwa-Zulu Natal Branch EXCO representative)

**AMEU Executive Council Report
from
Representative of the ESLC**

Quarterly meetings of the ESLC were held during 2003 and were regularly attended by the AMEU Technical Secretary, the large municipalities eThekwini, Tswane, Mangaung, City Power, Ekurhuleni, Cape Town, Nelson Mandela and the AMEU representative. The chairman, Mr Roy Wienand from eThekwini municipality was requested to retain chairmanship, the NRS Manager is Mr Vinod Singh and the secretary is Mr Alvin Fredericks from ESKOM.

Numerous NRS projects are in progress and all members are requested to participate in working groups to assist with finalising and optimising technical specifications.

A methodology and means to recover costs from all participants utilising NRS specs are currently under investigation. All costs are at this stage borne by ESKOM.

It is noted that the SABS specifications and codes will be phased out and will in future refer to SANS. This will be phased in over a 5-year period. Utilities are required to amend their specifications accordingly.

NRS069 recovery of capital costs

The document is in its final draft for comments and it is expected to be published during the second half of 2003. After NRS has published this, Municipalities and ESKOM will be in a position to adopt and implement.

The working group concluded that capital charges must include the following: All dedicated network costs plus pro-rata cost of upstream networks but exclude high voltage lines due to complexity and the fact that all customers benefit from this. The latter is recovered via network charges inter-alia forming part of the capital component in tariffs.

4 August 2003

D J van Wyk (AMEU representative and member of the NRS069 working group)