

## RATIFIED MINUTES

**Title:** Explosion Prevention

**Chairperson:** P Meanwell  
**Comm. Admin:** A Maepa

**Committee No.:** SABS/TC 065

**Date of Meeting:** 26 April 2023

**Venue:** Virtual

**Circulation Date:** 29 May to 29 June 2023

**NOTE: THE MINUTES OF THIS MEETING ARE NOT THE TRANSCRIPTION OF DISCUSSIONS. ONLY DECISIONS, REPORTS AND UNDERTAKING ARE RECORDED**

### All the Resolutions were accepted at the meeting

RESOLUTION NUMBER	RESOLUTION / INFORMATION	RESPONSIBLE PERSON/DUE DATE
<b>Information 1</b> Welcome and opening by the chairperson	Mr P Meanwell chaired the meeting in his capacity as the committee chairperson. Members were welcomed at a meeting of <b>SABS/TC 065: Explosion Prevention</b> and informed of the recording of the meeting.	
<b>Information 2</b> Logistics	The meeting was attended virtually.	
<b>Information 3</b> Apologies	Apologies were noted, see the below attendance register.	
<b>Information 4</b> Approval of Agenda	The agenda was approved with the inclusion of: 4.1) Clauses of Section 4.3 of <b>SANS 60079-10-2; Explosive atmospheres Part 10-2: Classification of areas - Combustible dust atmospheres</b> 4.2) <b>SATS 60079-46: Explosive atmospheres - Part 46: Equipment assemblies</b> 4.3) Regulation standards missing from the customer CD and the website	
<b>Information 5</b> eCommittee Matters	Members were urged to vote on documents balloted to the committee so that projects may move forward to the next level. To this end, it was reported that the voting was going well. Those who are struggling to access the committee portal may contact the committee Administrator for assistance. Members who are not casting their votes will have to be downgraded.	Z Nelushi on-going
<b>Information 6</b> Matters arising from the previous minutes	The minutes of the previous meeting were accepted as a true reflection of the meeting and were signed by the chairman on 3 August 2022.	
<b>Resolution 1</b> Strategic Business Plan	The SBP will be revised and circulated for committee comments. If no comments are received after 30 days of circulation, the SBP will stand as circulated. Z Nelushi will update the SBP.	Z Nelushi June 2024
<b>Information 7</b> Scope	The scope of the committee was retained. The scope reads, "Production and review of national standards in the field of explosion prevention in explosive atmospheres."	
<b>Resolution 2</b> Membership	2.1) The committee administrator should contact call observer members to confirm if they are still comfortable serving on the committee as observers or need to be upgraded. 2.2) Confirm with Jan Mostert if he is still active.	A Maepa On-going

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	<p>2.3) It was noted that some of the members skipped more than three (3) meetings. Those members can be checked if they are still interested in the committee:</p> <p>2.4) It was noted that the committee does not have regulators. Mr Maree volunteered to assist in contacting the Department of Mineral Resources.</p> <p>2.5) Members who are not voting regularly will have to be downgraded</p>	
<p><b>Resolution 3</b> Liaisons <b>IEC TC 31</b></p>	<p>3.1) <b>International Liaison</b></p> <p>3.1.1) <b>IEC TC 31 – Equipment for explosive atmospheres</b> (P – member)</p> <p>3.1.1.1) Mirror Committee: Chairman: P Meanwell and Z Nelushi (Delegate to international meetings) The <b>IEC</b> published standards and the programme of work was displayed to members in the meeting. Most of the standards on the list were adopted.</p> <p>3.1.1.2) Members: BB Koen, D Maree, T Matsobe, Z Nelushi, J van Niekerk and, A Nkosi. Add T Orsmond and R Zeelie</p>	<p>Z Nelushi On-going</p>
<p><b>Resolution 4</b> <b>IEC SC 31G</b></p>	<p>4.1) <b>IEC SC 31G - Intrinsically-safe apparatus</b> (O - member)</p> <p>4.1.1) Mirror Committee: Chairman: P Meanwell and Z Nelushi (Delegate to international meetings)</p> <p>4.1.1.1) Members: BB Koen, D Maree, Z Nelushi, A Nkosi. D Visser and H Humphries, T Orsmond, R Zeelie</p> <p>4.1.1.2) It was reported that there was a need to adopt the latest <b>IEC 60079-11</b> and the corrigendum on <b>IEC 60079-25</b>. Members were advised to complete the justification forms to adopt the standards. Rowan Humphries will complete the justification forms to adopt the standard and the corrigendum.</p> <p>4.1.1.3) Committee requested to get a mechanism for accepting published/revised IEC standards automatically. It was reported that unfortunately, that mechanism does not exist at present. Documents need to be scrutinized first before they can be adopted. The matter will be taken up with SABS Management to advise if the mechanism can be developed to adopt revised IEC standards.</p>	<p>Z Nelushi On-going</p>
<p><b>Resolution 5</b> IEC SC 31J</p>	<p>5.1) <b>IEC SC 31J - Classification of hazardous areas and installation requirements</b> (O – member)</p> <p>5.1.1) Mirror Committee: Chairman: P Meanwell and Z Nelushi (Delegate to international meetings)</p> <p>5.1.1.1) Members: W de Villiers, BB Koen, D Maree, F du Toit, Z Nelushi, and A Nkosi</p> <p>5.1.1.2) The committee agreed in the last meeting to adopt the following standards: <b>IEC 60079-10-1 ED3, Explosive atmospheres - Part 10-1: Classification of areas - Explosive gas atmospheres</b></p>	
<p><b>Information 8</b> IEC SC 31M</p>	<p><b>IEC SC31M -Non-electrical equipment and protective systems for explosive atmospheres</b> (P – member)</p> <p>Mirror Committee: Chairman: P Meanwell and Z Nelushi (Delegate to international meetings)</p> <p>Members: D Maree, and Z Nelushi, T Orsmond, R Zeelie</p>	

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<b>Resolution 6</b> IEC TC70	6.1) <b>IEC TC 70 - Degrees of protection by enclosures</b> – (O-member) 6.1.1) Mirror Committee: Chairman: P Meanwell and Z Nelushi (Delegate to international meetings) 6.1.1.1) Members: IT Mabena, D Maree, J van Niekerk, Z Nelushi, A Nkosi, F Du Toit, BB Koen, and, D Young, 6.1.1.1.1) It was agreed to adopt <b>IEC 62262/AMD1:2021</b> . It was requested to circulate the adoption for public comment.	
<b>Information 9</b>	<b>Regional (SADCSTAN)</b> There were no regional liaisons at present	
<b>Information 10</b>	<b>National Liaison</b> It was agreed to establish a liaison with the following on the SBP:  <b>SABS/TC 165; Industrial Process Measurement, Control and Automation</b> - Gary Friend is the liaison officer. The meeting is scheduled for 28 July 2023. <b>SABS/TC 067/SC 06; Electricity Distribution Systems and Components –Installations Regulatory Authorities</b> , Rowan Humphries and Max Koen are the liaisons officer. It was reported that the committee is busy with the regulated standard.	
<b>Information 11</b> <b>Published standards</b>	Standards published since the last meeting: 11.1) <b>SANS 868-1-2:2022; Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both Part 1-2: Hazardous locations in underground mines – Explosion protected engine systems.</b> 11.2) <b>SANS 868-4:2022; Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both Part 4: Non-hazardous locations in underground coal mines</b> 11.3) <b>SANS 1489-2:2023; Electrical connectors in group I and group II hazardous areas Part 2: Restrained type plugs and sockets for group I hazardous areas</b> 11.4) <b>SANS 1489-3:2023; Electrical connectors in group I and group II hazardous areas Part 3: Bolted type plugs and sockets for group I hazardous areas</b> 11.5) <b>SANS 1489-4:2022; Electrical connectors in group I and group II hazardous areas Part 4: Medium voltage couplers and adaptors for group I hazardous areas</b> 11.6) <b>SANS 1515-2:2022; Gas measuring equipment primarily for use in mines Part 2: Fixed, transportable, and vehicle-mounted flammable gas measuring and warning sensor heads, instruments and devices</b> 11.7) <b>SANS 10108:2023; The classification of hazardous locations and the selection of equipment for use in such locations</b> 11.8) <b>SANS 60079-5:2023/IEC 60079-5:2022; Explosive atmospheres - Part 5: Equipment protection by powder filling "q"</b> 11.9) <b>SANS 60079-15:2022/IEC 60079-15:2017; Explosive atmospheres Part 15: Equipment protection by type of protection "n"</b> 11.10) <b>SANS 60079-26:2022/IEC 60079-26:2021; Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection</b> 11.11) <b>SANS 60079-32-2:2022/IEC 60079-32-2:2015; Explosive atmospheres - Part</b>	

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	<p style="text-align: center;"><i>32-2: Electrostatics hazards – Tests</i></p> <p>11.12) <b>SATS 60079-46:2022/IEC/TS 60079-46:2017</b>; <i>Explosive atmospheres - Part 46: Equipment assemblies</i></p> <p>11.13) <b>SANS 80079-20-1:2022/ISO/IEC 80079-20- 1:2017</b>; <i>Explosive atmospheres - Part 20-1: Material characteristics for gas and vapour classification - Test methods and data</i></p>	
<p><b>Resolution 7</b></p> <p>Standards to be reviewed or reaffirmed:</p>	<p>The committee agreed to reaffirm the following standards for a period of five (5) years:</p> <p>7.1) <b>SANS 96:2018</b>; <i>Batch sampling and acceptance criteria for explosion-protected apparatus (EPA)</i></p> <p>7.2) <b>SANS 1654:2018</b>; <i>DC-powered (battery-operated) machines for use in hazardous locations in mines</i></p> <p>7.3) <b>SANS 10012:2019</b>; <i>The use of light metals in hazardous locations at mines</i></p> <p>7.4) <b>SANS 6160:2005</b>; <i>Electrical resistance of floors</i></p> <p>7.5) <b>SANS 10282:1997</b>; <i>Maintenance of helmet light assemblies</i></p> <p>7.6) <b>SANS 10123:2014</b>; <i>The control of undesirable static electricity</i></p> <p>7.7) <b>SANS 60079-1:2015/IEC 60079-1:2014</b>; <i>Explosive atmospheres Part 1: Equipment protection by flameproof enclosures d</i></p> <p>7.8) <b>SANS 60079-2:2015/IEC 60079- 2:2014</b>; <i>Explosive atmospheres Part 2: Equipment protection by pressurized enclosure "p"</i></p> <p>7.9) <b>SANS 60079-10-2:2018/IEC 60079-10-2:2015</b>' <i>Explosive atmospheres Part 10-2: Classification of areas - Combustible dust atmospheres - inquiry made to SABS about the standard. The training on the standard is not offered in South Africa. It was responded that it was just a note in the standard and there is nothing compulsory with the note. It was reported that at least competency to the standard should be kept in file. NFBI 499 document may be used instead of the standard.</i></p> <p>7.10) <b>SANS 60079-29-2:2017/IEC 60079-29-2:2015</b>; <i>Degrees of protection provided by enclosures (IP Code).</i></p> <p>7.11) <b>SANS 60079-33:2013/IEC 60079-33:2012</b>; <i>Explosive atmospheres Part 33: Equipment protection by special protection "s"</i></p> <p>7.12) <b>SANS 60079-35-1:2013/IEC 60079-35-1:2011</b>; <i>Explosive atmospheres Part 35-1: Caplights for use in mines susceptible to firedamp - General requirements - Construction and testing in relation to the risk of explosion It was agreed that this should be investigated to check if this correlates with the developed national standards. The chairperson will do that investigation</i></p> <p>7.13) <b>SANS 60079-35-2:2013/IEC 60079-35-2:2011</b>; <i>Explosive atmospheres Part 35-2: Caplights for use in mines susceptible to firedamp - Performance and other safety-related matters</i></p> <p>7.14) <b>SANS 10086-3:2018</b>; <i>The installation, inspection and maintenance of equipment used in explosive atmospheres Part 3: Repair and overhaul of equipment</i></p> <p>7.15) <b>SANS 80079-20-2:2018/ISO/IEC 80079-20- 2:2016</b>; <i>Explosive atmospheres - Part 20-2: Material characteristics - Combustible dusts test methods</i></p> <p>7.16) <b>SANS 80079-36:2018/ISO 80079-36:2016</b>; <i>Explosive atmospheres - Part 36: Nonelectrical equipment for explosive atmospheres - Basic method and requirements</i></p>	<p>Z Nelushi On-going</p>

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	<p>7.17) <b>SANS 80079-37:2018/ISO 80079-37:2016</b>; <i>Explosive atmospheres - Part 37: Nonelectrical equipment for explosive atmospheres - Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"</i></p> <p><b>7.18) SANS 10282</b>; <i>Maintenance of helmet light assemblies</i>. Is this still relevant? The chairperson will do the research and revert back to the committee. The chairperson will advise if the standard needs to be revised.</p>	
<p><b>Resolution 8</b> Possible Adoptions</p>	<p>The committee agreed to adopt <a href="#">IEC standards</a>:</p> <p>It was agreed that the chairperson will complete the justification to adopt the standards.</p> <p>IEC 60079-11ED7:2023: Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"</p> <p>IEC 60079-25Ed:2022 – Explosive atmospheres – Part 25: Intrinsically safe electrical systems</p> <p>IEC 62262:2021 - Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)</p> <p>It was reported that most of the IEC standards were adopted.</p>	<p>Z Nelushi/P Meanwell</p>
<p><b>Resolution 9</b> Transfer of standards</p>	<p>It was agreed to transfer <b>SANS 62262</b> to a relevant committee. Z Nelushi will check which committee may be relevant and advise the committee.</p>	
<p><b>Information 12</b> Standards to be reviewed or withdrawn</p>	<p>There was no standard to be withdrawn</p>	
<p><b>Resolution 10</b> Proposed amendments</p>	<p>10.1) <b>SANS 868-1-1</b>; <i>Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both - Part 1- 1:Hazardous locations in underground mines – Basic explosion protected engines</i></p> <p>10.2) <b>SANS 868-1-3</b>; <i>Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both Part 1-3: Hazardous locations in underground mines – Machines</i></p> <p>10.3) <b>SANS 868-3-1</b>; <i>Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both Part 3-1: Hazardous locations on surface - Basic explosion-protected engines</i></p> <p>10.4) <b>SANS 868-3-2</b>; <i>Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both Part 3-2: Hazardous locations on surface - Explosion-protected engine systems</i></p> <p>10.5) <b>SANS 868-3-3</b>; <i>Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both Part 3-3: Hazardous locations on surface – Machines</i></p> <p>10.6) <b>SANS 1515-3-1</b>; <i>Gas measuring equipment primarily for use in mines Part 3-1: Battery-operated, portable, toxic gas measuring instruments and warning devices</i></p>	<p>Z Nelushi On-going</p>

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	<p>10.7) <b>SANS 1515-3-2</b>; Gas measuring equipment primarily for use in mines Part 3-2: Fixed, transportable, and vehicle-mounted toxic gas measuring and warning sensor heads, instruments and devices</p> <p>10.8) <b>SANS 1515-3</b>; Gas measuring equipment primarily for use in mines Part 3: Gas performance requirements for toxic gas measuring instruments and warning devices</p> <p>10.9) <b>SANS 10086-1</b> The committee supported the amendment of <b>SANS 10086-1</b> which was amended to update the foreword and referenced standards.</p> <p>10.10) <b>SANS 10089-2</b>; The petroleum industry Part 2: Electrical and other installations in the distribution and marketing sector</p> <p>10.11) <b>SANS 10119</b>; Reduction of explosion hazards presented by electrical equipment - Segregation, ventilation and pressurization</p> <p><b>SANS 1020</b> 10.12) <b>The</b> committee supported the amendment of <b>SANS 1020</b> which was amended to delete the note on a subclause to general and to update the referenced standard.</p> <p>10.13) <b>SANS 10282</b> It was reported that this project will be discussed in the <b>SANS 1438 WG</b> meeting. <b>SANS 10282</b> project will be cancelled in the meantime while the working group is still investigating.</p> <p>10.14) <b>SANS 60079-7/IEC 60079-7:2017, IDT, Ed. 5.1</b>; Explosive atmospheres Part 7: Equipment protection by increased safety "e"</p>	
<p><b>Resolution 11</b> Programme of work</p>	<p>The program of work was presented to members present as follows: Members were reminded that projects with stage code 40.20 means they are out for public comments. See <a href="#">SABS norm</a> about stage codes on page 22</p> <p>11.1) The committee gave the WG mandate to revise the <b>SANS 10282:1997</b>; <i>Maintenance of helmet light</i></p> <p>11.2) <b>SANS 868-1-2</b>, Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both Part 1-2: Hazardous locations in underground mines - Explosion protected engine systems. This was proposed for revision. A working group has been set up</p> <p>11.3) <b>SANS 1438</b>; Portable light assemblies for underground use in mines.</p> <p>11.4) <b>SANS 1489-3</b>, Electrical connectors in group I and group II hazardous areas Part 3: Bolted type plugs and sockets for group I hazardous areas. Referred to the working group</p> <p>11.5) <b>SANS 1489-4</b>, Electrical connectors in group I and group II hazardous areas Part 4: Medium voltage couplers and adaptors for group I hazardous areas- Referred to the working group</p> <p>11.6) The committee was informed of the current work on <b>SANS 10086-2</b> which the project will be cancelled and reaffirm the standard</p>	<p>Z Nelushi On-going</p>

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	<p>11.7) <b>SANS 808:2013</b>: Cable glands for use on flameproof enclosures (Ex d) It was agreed that a working group should be established to revise the document to be aligned with <b>SANS 60079-0</b> and <b>SANS 60079-1</b>..</p> <p>11.8) <b>SANS 60079-13:2011/IEC 60079-13:2010</b>; Explosive atmospheres Part 13: Equipment protection by pressurized room "p"</p> <p>11.9) <b>SANS 60079-15</b>; <i>Explosive atmospheres Part 15: Equipment protection by type of protection "n"</i></p> <p>11.10) <b>SANS 10086-1:2014</b>; <i>The installation, inspection and maintenance of equipment used in explosive atmospheres Part 1: Installations including surface installations on mines</i></p> <p>11.11) <b>SANS 10086-2</b>; <i>The installation, inspection and maintenance of equipment used in explosive atmospheres Part 2: Electrical equipment installed underground in mines</i></p> <p>11.12) <b>SANS 868-1-2:2013</b>; <i>Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both Part 1-2: Hazardous locations in underground mines – Explosion protected engine systems</i></p> <p>11.13) <b>SANS 868-1-3:2013</b>; <i>Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both Part 1-3: Hazardous locations in underground mines – Machines</i></p> <p>11.14) <b>SANS 1020:2013</b>; <i>Power-operated dispensing devices for flammable liquid fuels</i></p> <p>11.15) <b>SANS 1489-2</b>; <i>Electrical connectors in group I and group II hazardous areas Part 2: Restrained type plugs and sockets for group I hazardous areas</i></p> <p>11.16) <b>SANS 1489-3</b>; <i>Electrical connectors in group I and group II hazardous areas Part 3: Bolted type plugs and sockets for group I hazardous areas</i></p> <p>11.17) <b>SANS 1489-4</b>; <i>Electrical connectors in group I and group II hazardous areas Part 4: Medium voltage couplers and adaptors for group I hazardous areas</i></p> <p>11.18) <b>SANS 1515-2</b>; <i>Gas measuring equipment primarily for use in mines Part 2: Fixed, transportable, and vehicle-mounted flammable gas measuring and warning sensor heads, instruments and devices</i></p> <p>11.19) <b>SANS 1515-3-1</b>; <i>Gas measuring equipment primarily for use in mines Part 3-1: Battery-operated, portable, toxic gas measuring instruments and warning devices</i></p> <p>11.20) <b>SANS 1515-3-2</b>; <i>Gas measuring equipment primarily for use in mines Part 3-2: Fixed, transportable, and vehicle-mounted toxic gas measuring and warning sensor heads, instruments and devices</i></p> <p>11.21) <b>SANS 1515-3</b>; <i>Gas measuring equipment primarily for use in mines Part 3: Gas performance requirements for toxic gas measuring instruments and warning devices</i></p> <p>11.22) <b>SANS 10123</b>; <i>The control of undesirable static electricity</i>- It was noted that the document has an old format. It was agreed to revise the document to be align with SABS.</p> <p>11.23) <b>SANS 60079-10-1:2016/IEC 60079-10-1:2015</b>; <i>Explosive atmospheres Part</i></p>	

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	<p><i>10-1: Classification of areas - Explosive gas atmospheres</i></p> <p>11.24) <b>SANS 60079-13/IEC 60079-13:2017, IDT</b>; <i>Explosive atmospheres Part 13: Equipment protection by pressurized room "p"</i></p> <p>11.25) <b>SANS 60079-30-1/IEC 60079-30-1:2015, IDT, Ed. 2</b>; <i>Explosive atmospheres Part 30-1: Electrical resistance trace heating - General and testing requirements</i></p> <p>11.26) <b>SANS 60079-30-2/IEC 60079-30-2:2015, IDT, Ed. 2</b>; <i>Explosive atmospheres Part 30-2: Electrical resistance trace heating - Application guide for design,</i></p> <p>11.27) <b>SANS 60079-31/IEC 60079-31:2022, IDT, Ed. 3</b>; <i>Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t"</i></p> <p>11.28) <b>SATS 60079-32-1/IEC/TS 60079-32- 1:2017, IDT, Ed. 1.1</b>; <i>Explosive atmospheres - Part 32-1: Electrostatics hazards, guidance</i></p> <p>11.29) <b>SATS 60079-39/IEC/TS 60079-39:2015, IDT, Ed. 0</b>; <i>Explosive atmospheres - Part 39: Intrinsically safe systems with electronically controlled spark duration limitation</i></p> <p>11.30) <b>SATS 60079-42/IEC/TS 60079-42:2019, IDT, Ed. 1</b>; <i>Explosive atmospheres - Part 42: Electrical Safety Devices for the control of potential ignition sources from Ex-Equipment</i></p> <p>11.31) <b>SANS 80079-34/ISO/IEC 80079-34:2018</b>; <i>Explosive atmospheres Part 34: Application of quality systems for equipment manufacture</i></p> <p>11.32) <b>SANS 1515-6</b>; <i>Standard technical specification for underground fire detection and environmental monitoring systems.</i> It was agreed to cancel the project and research to be done by Danie Visser, Henk Swart, and Marco Biffi and give feedback to the <b>SABSTC065</b> based on the previous agreement.</p>	
<p><b>Resolution 12</b></p>	<p>Working group reports</p> <p>12.1) <b>SANS 1515 WG</b> – It was reported that the standards are still relevant in South Africa. Check if Jan Mostert is still active.</p> <p>12.2) <b>SANS 10089 WG</b></p> <p>12.3) <b>SANS 10108 WG</b> add T Orsmond and R Zeelie, remove D Visser H and De Witt</p> <p>12.4) <b>SANS 1489 WG</b> –</p> <p>12.5) <b>10282 WG</b> to be added to <b>SANS 1438</b> working group</p> <p>12.6) <b>SANS 868</b> working group – no reports</p> <p>12.7) <b>SANS 10086-1</b></p> <p>12.8) <b>SANS 1438</b>: It was agreed that the target date should be extended by eight (8) months.</p> <p>12.9) <b>SANS 808</b> add Mr Mokhonoana, T Orsmond and R Zeelie, remove D Visser H and De Witt</p> <p>It was agreed that Z Nelushi will be added to all working group lists.</p>	
<p><b>Information 13</b> Emerging Needs</p>	<p><b>SANS 868-1-2</b>, Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both Part 1-2: Hazardous locations in underground mines - Explosion protected engine systems.</p>	



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<b>Information 14</b> General	Members were informed that they will receive questionnaires after the meeting to complete to assist the secretariat in improving their work.  Minutes will be circulated to the committee after being checked by the Chairperson.	
<b>Information 15</b> Closure	The chairperson thanked all members for their participation and contributions in the meeting.	

#### Attendance register

ORGANISATIONS	REPRESENTATIVES	MEMBERSHIP STATUS
<b>Present</b>		
South African Bureau of Standards/Secretariat	Anna Maepa	National secretary
	Paul Meanwell	National Chairperson
	Zwidivhevo Nelushi	Secretary Support
	Winston Malatji	Secretary Support
	Calvin Khakhuse	Secretary Support
	Lulama Mpehle	Secretary Support
CCG Cable Terminations	Arthur Cameron	National Member
Electrical Engineering and Allied Industries Association (EEAIA)	Rouane Herselman	National Observer
Explolabs	David Maree	National Member
Pratley Manufacturing Co	Eldon Kruger	National Member
Minerals Council SA	Marco Biffi	National Member
Mining and Surface Certification (Pty) Ltd (MASC)	Terine Orsmond	National Member
	Danie Visser	
Sa Flameproof Association	Andrew Nkosi	National Member
Sallab Explosion Prevention (SALLAB)	Gerhard Pillay	National Member
	Pratheer Ramkaran	
Sasol	Rowan Humphries	National Member
Society for Automation Instrumentation Measurement Control	Gary Friend	National Member
<b>Apologies</b>		
Firelab	Kobus Strydom	National Member
Hazardous Location Consultants and Training	Max Koen	National Member
TechKnowCon cc	Ernest van Eeden	National Observer
<b>P-members without Apologies</b>		
Aluminium Federation of South Africa	Mark Krieg	National Member
Caterpillar Inc.	Len van Driel	National member
Department of Labour	Pieter Laubscher	National Member
Electrical Contractors Association of SA	Cecil Lancaster	National Member
Megaton	Jaco Venter	National Member
South African Bureau of Standards SOC	Joe Segal	National Member
South African Colliery Engineers Association	Henk Zwart	National Member
South African Institute of Electrical Engineers	Johannes Frederic Fourie	National member

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Chairperson's signature

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Date