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Institute of Electrical Inspectors

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Editors bit

Dear Members,

AGM 2011 was a huge success with all attending remarking on how well the event was run. Many commented on the venues chosen for meals and the ladies day out.

A revamped "Electrical Inspections" this edition with more technical information added.

The website has been updated to reflect the new Board of Directors and AGM Dates and Locations have been set for the next two years, please take the time to note these dates in your long range Calendar.

A huge thank you to the Master Electricians and especially Andrew Bailey for his time organising and coordinating the Institutes AGM event this year.

Many items of discussion took place over the weekend, two main topics that surfaced numerous times is what the administration can do to achieve higher membership levels and gaining interest from younger members to get involved in the running of the Institute,

Without members involvement in the running of the Institute, your Institute will not exist into the future, please take the time to consider volunteering for a small role to assist the administration and learn along the way.

Regards,

*David Bibby
Editor*

AGM Report

Members from Victoria, Western Australia and Tasmania made their way to a warm and steamy Brisbane to join members from Brisbane for the 2011 AGM at the offices of Master Electricians in Fortitude Valley.

Many arrived early so as to acclimatise themselves to the different weather conditions and have a look around before the meeting. The careful and precise planning of the weekend by Darren Margerison (IEI) and Andrew Bailey (Master Electricians) began with Dinner for members at the "Libertine Restaurant" located at The Barracks in Petrie Terrace, Brisbane. Some arrived early to enjoy a drink or two and catch up before the evenings events. The Restaurant, the Service and the food was impeccable and all enjoyed the evening immensely.

On Saturday morning the Men sat down to the AGM while the ladies were ferried to the Brunswick St Markets for the shopping spree, once all the ladies had shopped till they dropped, they were ferried to Mount Coot-tha and the Summit café for lunch and drinks. The ladies then embarked on a tour to fill their afternoon. All reports received by the Secretary from the ladies that attended the day has shown that the ladies thoroughly enjoyed themselves. Many thanks to the two ladies that helped organise and run the day, Cynthia Margerison and Jennette Bailey.

The AGM closed at an unprecedented 3.40pm as all business had been dealt with successfully, much to the delight of the members attending, Canapés and Beverages commenced around 4pm at the conclusion of the meeting at the Master Electricians offices with many of the ladies joining us. Many had filled themselves at lunch time only to discover that more room had to be found for the sumptuous afternoon spread.

The AGM dinner was moved due to issues with bookings and all found themselves at "The Watt" restaurant located at the Brisbane Powerhouse arts complex in Lamington St New Farm. The view, the food and the company was sensational and a very enjoyable night was had by all. Chairman Darren Margerison made a short speech thanking all for attending the weekend and joining in the festivities. The Bert Halse Award winner was also announced at this time and was congratulated by all members of the group.

Many made the pilgrimage home on Sunday and some moved on to places elsewhere for a well earned break, all that I spoke to commended the weekend and have made commitments to return to future AGM's.

All attendees wish to acknowledge the following people for their organising and running of the weekend which made it a huge success for all who attended.

Darren and Cynthia Margerison

Andrew and Jennette Bailey

Master Electricians staff

All who helped out behind the scenes

Our appreciation is extended to you all for a wonderful weekend

Regards

David Bibby

Secretary





Public Draft comment update

All members are notified when an Australian Standard is in draft and published for public comment. The Board of Directors regularly runs meetings on these draft documents to consider the contents and make comment if required. The IEI has been involved in this process for approximately 70 years and will continue to do so for many years to come. Hopefully, in future, more younger members will decide to be involved in helping to shape future Australian Standards in this way.

Below is a run down on what has been completed recently.

ASNZS 3000 Wiring Rules

A recent conversation regarding the distance between bonded metallic services and an installation's earth stake prompted the IEI secretary to write to the EL-001 committee with the problem and a possible solution for the committee to discuss.

The issue arose when an Inspector defected an Electrician for installing an Earth Stake within 500mm of the premises metallic water pipe. Further investigation found that the Electrician defected for the work was not the Electrician responsible for installing the Earth Stake. The Earth stake had been installed approx 5 years prior when other work had been completed at the property.

So, if you are interested you can review this clause and decide for yourself if this request to EL-001 is justified. I leave you to do your own home work on this one.

Page No.	Clause/ Subclause No.	Para/Fig./ Table No.	Comment	Proposed Change
218	5.3.6.4 (b)		<p>Clause does not indicate clearly the distance to conductive enclosures that are bonded to the earthing system installed at the property.</p> <p>Possible electrolytic action would be negated if metallic pipes of other services , Gas , water , fire services etc, that form part of the installation are bonded to the premises earthing system therefore keeping both earth stake and metallic pipes of other services at the same potential.</p>	<p>Add sub clause (d) explaining a reduction in the distances prescribed in table 3.17 if metallic pipes of other services that form part of the installation are bonded to the installations earthing system.</p> <p>Suggested minimum distance for bonded metallic pipes of other services – 100mm</p>

ASNZS 5033 Installation of photovoltaic (PV) arrays

A draft comment evening was held in Victoria in July to consider the AS5033 Public Draft document that was open for public comment by Standards Australia until the 14th August 2011.

The evening was attended by nine members who all participated in the evening and proffered their thoughts and perceptions, advice and assistance on the document, the evening was facilitated by the IEI Secretary and the IEI Chairman.

All who attended provided input and comment regarding the draft standard which came to eight pages of comments that were sent to the working committee for follow up.



Public Draft comment update

ASNZS 3000 Wiring Rules

Discussion at the Institutes recent large switchboard inspection draft evening raised a number of issues that require further clarification from EL-001.

Please find below further information sent to EL-001 for further clarification.

Page No.	Clause / Subclause No.	Para / Fig. / Table No.	Comment	Proposed Change
66	2.3.3.4(d)		Clause specifies labelling requirements of Main Switch/Switches only, relationship of these Main Switch/Switches needs to be identified also	Add sub clause (e) "In Non Domestic Multiple load centres >100Amps, a single line diagram showing the relationship of all incoming and outgoing supplies with respect to installed switchgear shall be available for inspection at all times in the vicinity of the Load centre the diagram represents. This diagram shall be legible and permanent
4,5 & 6	FAQ 10: 2009		FAQ 10 information and additional drawings only for earthing situations where LV protection exists upstream of consumers terminals	FAQ to be added and drawings provided for earthing situations where only HV protection exists upstream of the consumers terminals
210 & 213	5.3.3.1.1 & 5.3.3.2	5.1	5.3.3.1.1 Gives the general requirements about the size of an earth conductor and 5.3.3.1.2 gives details about using a formula in lieu of Table 5.1 for high fault currents. After table 5.1, 5.3.3.2 advises a main earthing conductor need not be greater than 120 mm sq. This may be OK EXCEPT if the main earth is part of the fault loop in a high short circuit current arrangement and the calculated earth size is greater than 120mm sq.	Please consider separating these clauses or identifying further the requirements for both types of situations. Identify one clause for the Main Earth conductor size when it is not part of the Fault loop circuit. Identify a separate clause for use when the Main Earth is part of the Fault loop circuit and further requirements of the earth conductor size in this situation

Large Switchboard Inspections

Victorian members attended an information evening at Hager B&R in September 2011, where John Stolk, Electrical Technical Advisor, Energy Safe Victoria provided all attendees with a draft guideline for large switchboard inspections.

Members were requested to review the document and provide comment if required.

The IEI Secretary organised and facilitated an evening a week later to review the document and provide comment to John Stolk at ESV at the conclusion of the evening. It was decided at this meeting that a 2 page checklist was preferred and the checklist should cover all switchboards large and small. The Checklist has been developed for Victorian Inspectors, however it could also be edited for other states dependent upon legislative requirements.

The checklist appears on the next two pages for your information. Happy Reading.



LV Switchboard Inspection Checklist—Vic

1. Scope

To outline the fundamentals of Low Voltage Switchboard Inspection.

2. Relevant Legislation, Australian Standards and Distribution Company requirements.

Electricity Safety Act 1998

Electricity Safety (Installations) Regulations 2009

ASNZS 3000

ASNZS3008.1

ASNZS 3010

ASNZS 3639 series

Victorian Service and Installation Rules

Victorian Service and Installation Rules – Supply Protection & Supply Capacity limitation Guidelines

Note: Including any amendments to the above documents

3. Basic Considerations.

Area	Description	References
Supply Arrangement	Type of supply as per agreement	DistCo
	Supply Available	DistCo
	Fault Current levels	ESR 209
	Service Protection	ESR 233 & 235
	Supply Capacity Control Device	S.I.R-6.7.2
Control & Protection	Safety Services	ESR 232 & AS3000-7.2
	Coordination	AS3000-2.5.7.2
	Main Switch or Switches	AS3000-2.3.3
	Fault Current Limiters	<i>Advisory</i>
	Forms of Segregation	AS3439-7.7
	Generator Control (Manual or A.T.S)	AS3010- Sect 2 & 3
Construction	Main Switch Heights	AS3000-2.3.3
	Fire Proofing	AS3000-2.9.7
	Egress paths	AS3000-2.9.2.2
	Internal Clearances & Creepage	AS3000-2.9.3.3
	Wiring Clearances	AS3000-2.9.6
	Cable entry sealing	AS3000-2.9.7
	Access to live parts	AS3000-2.9.3.1
	Classification of Assemblies	AS3439-Sect 3
	Egress paths and external clearances	AS3000 – 2.9.2.2
	Suitability	AS3000 – 2.9.3.2
Location	Restricted areas	AS3000-2.9.2.5
	External Installation	AS3000-2.9.2.1 & Appendix G
Wiring Safety	Segregation of Safety services	AS3000-7.2
	Fire rating of Mains cables	AS3000-Appendix H
	Fire rated penetrations	AS3000-3.9.9.3
• Wiring Neutrals	Internal Cabling & Busbars	AS3439-7.8



LV Switchboard Inspection Checklist—Vic

Wiring—Earth	Earthing Systems	ESR 233
	Location	ESR 235
	Size	AS3000-5.3
	M.E.N Link	ESR 206 & AS3000-5.3.5
	Route	ESR 207
	Supply arrangement	S.I.R's
	Connection	AS3000-5.5.1.2
	Resistance	AS3000-5.5.1.4
Coordination	Protective devices	AS3000-2.5.7
	S.P.D Rating	DistCo
Labelling	Main Switch or Switches	AS3000-2.3.3.4
	Identification of Main Switches	AS3000-2.9.2.4
	Relationship of equipment	AS3000-2.9.5
	Main Earth Location label	AS3000-5.3.6.4
	Earth label at Stake	AS3000-5.5.1.3
	M.E.N link location label	<i>Advisory</i>
	Compliance plate	AS3439
	Safety Services	AS3000-7.2.6
	Single line diagram	AS3439
	Underground Mains route Drawing	ESR 218
	Alternative supplies	ESR 210
	Main Switchboard" label required on Main Switchboard	AS3000 – 2.9.2.4
Location of MSB shown at Fire Indicator Panel	AS3000 – 2.9.2.4	

4. Testing

Prescribed tests	Installation	ESR 231
	Installation	AS3000-Section 8

5. Certification

Prescribed work	ESR 238
Inspection	ESR 239
Certificate of Compliance	ESR 240 & 251
Details Legible	ESR 241 & 252
Obligations	ESR 242, 245 & 246
Defects	ESR 248 & 249

Note: This guideline has been produced to notify the reader as to the basic requirements of Electrical Switchboard Inspection. All points in this guideline may not pertain to every Electrical Switchboard Inspection.

The IEI intends to run further meetings in Victoria to produce similar checklists on other Electrical Inspections for Victorian Inspectors due to the nature of the Industry.

Your questions on electricity installation issues – and the answers

Compiled by John Stolk
ESV's Electricity Technical Advisor

energysafe continues its regular series featuring some of the questions that ESV receives on a range of electricity installation issues, some of them relating to gas installations. Also provided are the answers together with references to the Acts, Standards, Regulations and Clauses that apply to them.

Question	Answer	Standard	Clause
When do I need to earth the solar array metallic frames and conductive structural supports?	<p>A solar generation system with a non-isolated (transformer-less) inverter requires the metallic frames and conductive structural supports of the PV arrays to be earthed in accordance with the requirements of a protective earthing conductor, as per AS/NZS 3000:2007. This shall be achieved by connecting the earthing conductor minimum cross-sectional area of 4mm² directly or via the inverter to the installation's earthing system.</p> <p>The earthing requirements for other solar generation systems shall be determined following figure 5.9 of AS/NZS 5033:2006 "PV array framework earthing decision tree".</p> <p>The inverter type can be found with the technical information on the inverter.</p>	AS/NZS 5033:2005	Figure 5.9
I am replacing a solar inverter with a similar inverter. Is this prescribed or non-prescribed electrical installation work?	The replacement of a single component part of an electrical installation by an equivalent component part (the same make and model inverter) at the same location would be non-prescribed electrical work. If the inverter is not the same make or model the electrical work would be prescribed.	Electricity Safety (Installations) Regulations 2009	Regulation 23(3)
My customer is located in a hazardous bushfire risk area and has a private electrical aerial line that has been damaged during a storm by a tree. Can I repair the line or do I need to underground the line before the power can be restored?	<p>If a private aerial line in a hazardous bushfire risk area has been rendered inoperative by a fault, emergency restoration can only commence if the responsible person complies with the following:</p> <ul style="list-style-type: none"> • Obtain a written undertaking from the owner of the private aerial line that the electric line will be placed underground within 60 days. • Obtain a reference code from Energy Safe Victoria for the restoration work. • Within five business days from the completion of the restoration work, provide Energy Safe Victoria with the copy of the undertaking, the reference code and a copy of the Certificate of Electrical Safety for the reconstruction of the private electric aerial line. <p>Forms are available from our website www.esvic.gov.au.</p>	Electricity Safety (Installations) Regulations 2009	Regulation 221
What are the required tests on the completion of electrical installation work to ensure the installation complies?	<p>The following mandatory tests shall be carried out on low voltage electrical installations:</p> <ol style="list-style-type: none"> (a) Continuity of the earthing system (earth resistance of the main earthing conductor, protective earthing conductors and bonding conductors), in accordance with Clause 8.3.5. (b) Insulation resistance, in accordance with Clause 8.3.6. (c) Polarity, in accordance with Clause 8.3.7. (d) Correct circuit connections, in accordance with Clause 8.3.8. (e) Verification of impedance required for automatic disconnection of supply (earth fault-loop impedance), in accordance with Clause 8.3.9. (f) Operation of RCDs, in accordance with Clause 8.3.10. <p>If the electrical installation fails a test, that test and any preceding tests that may have been influenced by the fault indicated shall be repeated after the fault has been rectified.</p> <p>NOTES: 1 Item (a) above may require that supply is available. 2 Item (f) above requires that supply is available. 3 High voltage installations may require additional tests (see AS 2067).</p>	AS/NZS 3000:2007	Clause 8.3.3
Can I join earth conductors using a connector that has one screw?	Yes, but the screw must have a diameter of at least 80 per cent of the tunnel diameter.	AS/NZS 3000:2007	Clause 3.7.2.11(b)2
My customer has an existing 25-year-old residential installation with no RCD protection, the switchboard has two lighting and four power circuits. How many RCDs would I need to install?	<p>You would need to install at least two RCDs.</p> <p>In residential installations, where there is more than one final sub-circuit you must install more than one RCD. Also, you cannot connect more than three final sub-circuits per RCD.</p>	AS/NZS 3000:2007	Clause 2.6.2.4(b)
Can the wiring between the compressor and the head of a split air-conditioning unit be installed by a refrigeration mechanic who holds a D licence?	No, this would be beyond the scope of their licence, which only allows them to replace like for like component parts of the air-conditioning equipment, but does not allow them to alter or install the air-conditioning equipment.	Electricity Safety (Registration and Licensing) Regulations 2009	Regulation 25
When lodging a Certificate of Electrical Safety there is a new question that asks "does the work listed include the installation of an air-conditioning unit". I have only installed the final sub-circuit to the isolator, do I mark "Yes" or "No" seeing someone else is installing and connecting the air-conditioning unit?	You mark "Yes", because the final sub-circuit and isolator are a part of the air-conditioning installation.	Electricity Safety (Installations) Regulations 2009	Regulation 251



Australian Standards update

Published Australian Standards update.

Standard	Description	Current Version	Amendments
ASNZS 3000	Electrical installations—Wiring Rules	2007	Amdt 1: Published 2009 Amdt 2: Draft
ASNZS 3001	Electrical installations - Transportable structures and vehicles including their site supplies	2008	
ASNZS 3002	Electrical installations - Shows and carnivals	2008	
ASNZS 3003	Electrical installations - Patient areas	2011	
ASNZS 3004.1	Electrical installations - Marinas and recreational boats - Marinas	2008	
AS/NZS 3004.2	Electrical installations - Marinas and recreational boats - Recreational boats installations	2008	
AS 3007.1	Electrical installations—Surface mines and associated processing plant—Scope and definitions	2004	
AS 3007.2	Electrical installations—Surface mines and associated processing plant—General protection requirements	2004	
AS 3007.3	Electrical installations—Surface mines and associated processing plant—General requirements for equipment and ancillaries	2004	
AS 3007.4	Electrical installations—Surface mines and associated processing plant—Additional requirements for specific applications	2004	
AS 3007.5	Electrical installations—Surface mines and associated processing plant—Operating requirements	2004	
ASNZS 3008.1	Electrical installations - Selection of cables - Cables for alternating voltages up to and including 0.6/1 kV - Typical Australian installation conditions	2009	Amdt 1: Published 2011
ASNZS 3010	Electrical installations - Generating sets	2005	
ASNZS 3012	Electrical installations - Construction and demolition sites	2010	
ASNZS 3017	Electrical installations - Verification guidelines	2007	
ASNZS 3018	Not Available		
ASNZS 3019	Electrical installations - Periodic verification	2009	
ASNZS 2067	Substations and high voltage installations exceeding 1 kV a.c.	2008	
ASNZS 3760	In-service safety inspection and testing of electrical equipment	2010	
AS/NZS 4761.1	Competencies for working with electrical equipment for hazardous areas (EEHA) - Competency Standards	2008	
AS/NZS 4761.2	Competencies for working with electrical equipment for hazardous areas (EEHA) - Guide to assessing competency	2008	



Australian Standards update

Standard	Description	Current Version	Amendments
AS/NZS 5033	Installation of photovoltaic (PV) arrays	2005	Amdt 1: 2009
AS/NZS 4777.1	Grid connection of energy systems via inverters - Installation requirements	2005	
AS/NZS 4777.2	Grid connection of energy systems via inverters - Inverter requirements	2005	
AS/NZS 4777.3	Grid connection of energy systems via inverters - Grid protection requirements	2005	
AS/NZS 4836	Safe working on or near low-voltage electrical installations and equipment 2011	2011	
AS/NZS 4741	Testing of connections to low voltage electricity networks 2010	2010	
AS/NZS 3439.1	Low-voltage switchgear and controlgear assemblies - Type-tested and partially type-tested assemblies	2002	
AS/NZS 3439.2	Low-voltage switchgear and controlgear assemblies - Particular requirements for busbar trunking systems (busways)	2002	
AS/NZS 3439.3	Low-voltage switchgear and controlgear assemblies - Particular requirements for low-voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access for their use - Distribution boards (IEC 60439-3:1990, MOD)	2002	
AS/NZS 3439.4	Low-voltage switchgear and controlgear assemblies - Particular requirements for assemblies for construction sites (ACS)	2009	
AS/NZS 3439.5	Low-voltage switchgear and controlgear assemblies - Particular requirements for assemblies for power distribution in public networks	2009	
AS/NZS 60079.0	Electrical apparatus for explosive gas atmospheres - Equipment—General requirements	2008	
AS/NZS 60079.1	Electrical apparatus for explosive gas atmospheres - Equipment protection by flameproof enclosures 'd'	2007	
AS/NZS 60079.2	Electrical apparatus for explosive gas atmospheres - Equipment protection by pressurized enclosure 'p'	2007	
AS/NZS 60079.5	Electrical apparatus for explosive gas atmospheres - Equipment protection by powdered filling 'q'	2007	
AS/NZS 60079.6	Electrical apparatus for explosive gas atmospheres - Equipment protection by oil-immersion 'o'	2007	
AS/NZS 60079.7	Electrical apparatus for explosive gas atmospheres - Equipment protection by increased safety 'e'	2007	
AS/NZS 60079.10	Electrical apparatus for explosive gas atmospheres - Classification of hazardous areas (IEC 60079—10:2002 MOD)	2008	



Australian Standards update

Standard	Description	Current Version	Amendments
AS/NZS 60079.11	Electrical apparatus for explosive gas atmospheres - Equipment protection by intrinsic safety 'i'	2006	
AS/NZS 60079.12	Electrical apparatus for explosive gas atmospheres - Classification of mixtures of gases or vapours with air according to their maximum experimental safe gaps and minimum igniting currents	2000	
AS/NZS 60079.25	Intrinsically safe systems	2004	
AS/NZS 60079.26	Equipment with equipment protection level (EPL) Ga	2007	
AS/NZS 60079.27	Explosive atmospheres—Fieldbus intrinsically safe concept (FISCO)	2008	
AS/NZS 60079.28	Protection of equipment and transmission systems using optical radiation	2007	

If members require any other Australian Standards to be listed here for future reference, please email the IEI Secretary or send a note to the Secretary at the Postal address and we will endeavour to add it to this list.

The Institute will attempt to keep the list up to date so as all members can be notified if an update is published on any of the Standards in the list.

I did not add any prices to the list of Standards for two reasons: 1. SAI Global may change the prices without notice and 2. I did not want any members receiving a shock.

Happy Reading.



Electrical Inspection in Australia

To all Members of the IEI

After discussions with members from other states in Australia, it appears that many members are interested in finding out how Electrical Inspection is currently conducted in other states of Australia.

Therefore, I am asking Members from States other than Victoria who can supply information regarding the Electrical Inspection duties in their state, to send that information to the Secretary of the IEI so as we can put a document together that maps if, when and how Electrical Inspections are performed around the country, what legislation is relevant at their state level and the Electrical licensing body for their state.

As I receive information from members in each state, I will update the document and place it on the website on a new page in the "About Us" section of the website.

I still require information from the following States:

- South Australia
- Tasmania
- Western Australia
- Northern Territory

All information can be sent to:

secretary@iei.org.au

Or;

Secretary
PO Box 411
Essendon North
Victoria 3041

Thank you,

Secretary
Institute of Electrical Inspectors

Notice to all Members

If members have issues in their state or know of information that is relevant to all members across Australia, please email the IEI Secretary so as this information can be added to the website immediately for all members to benefit from.

Any members who wish to include an Article or information relevant to all members in the next edition of the Journal, please email:

IEI Secretary: secretary@iei.org.au

IEI Directors: directors@iei.org.au

(Yes, you can now contact all the IEI directors instantly via one email address)

Regards,

David Bibby