



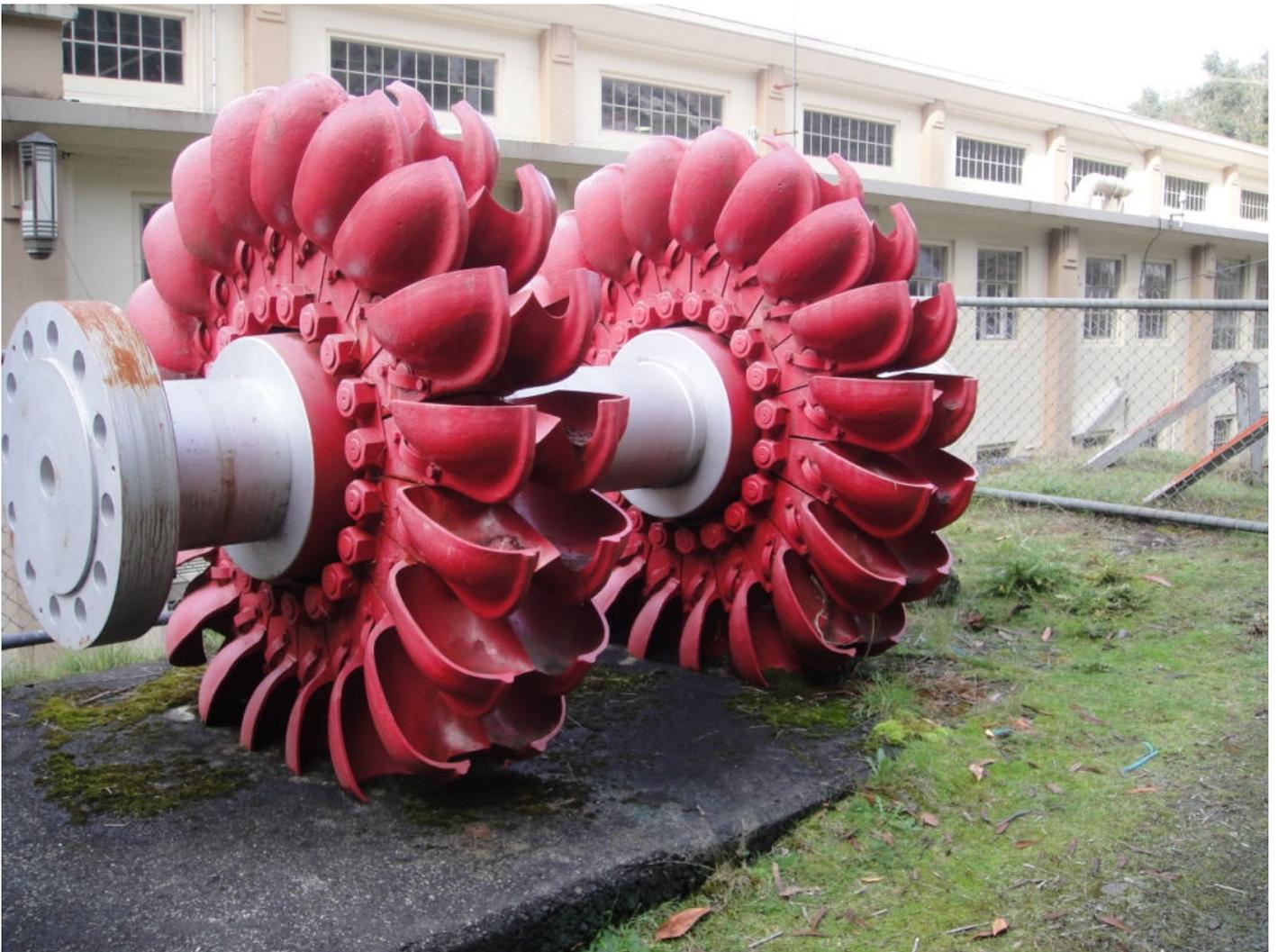
*Institute of Electrical Inspectors*

# ***ELECTRICAL INSPECTIONS***

**Autumn 2012**

OFFICIAL JOURNAL OF THE INSTITUTE OF ELECTRICAL INSPECTORS AUSTRALIA

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[www.iei.org.au](http://www.iei.org.au)



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Front Cover: Hydro Electric Commission Tasmania 8 Ton Pelton Turbine wheel, installed at Tarraleah Hydro Power Station 1938, removed 1959 (photo of info plate on last page of this Journal).



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## Editors bit

### Dear Members,

A small "Electrical Inspections" Journal for Autumn 2012 as it will be the last edition of this publication until someone else is found to take over the role of Editor & Publisher. I have found it extremely difficult to provide relevant and interesting content to keep all members informed of current technical and compliance issues that we all come across on a daily basis.

Due to members lack of interest in providing any feedback, answering questionnaires supplied or providing any articles for other members to enjoy, it would appear that I am unable to appeal to any of the IEI members requirements and am therefore stepping down as Editor and Publisher. Members will continue to receive information and Alerts by email, however, I am unable to continue in this role due to other commitments.

I took on this role in 2009 when the publishing company at that time, refused to publish another edition due to dwindling advertising revenue which enabled "Electrical Inspections" to be published free of charge to members. Many will remember the continual wait for the next edition which did not arrive.

I hope in the near future someone will take over this responsibility and provide an IEI Journal that all members can enjoy and participate in. Notice from previous edition of "Electrical Inspections" below;

### **IEI Journal "Electrical Inspections".**

The Board of Directors invites interested members to notify their interest in becoming the Editor of the Institutes publication "Electrical Inspections". The IEI Secretary took over the publishing role in 2009 when our previous external publisher was unable to continue. Due to current work, family and IEI commitments the IEI Secretary is unable to continue in this role. Electrical Inspections is produced with Microsoft Publisher and converted to .pdf before being sent to members when published. Without an interested party to take over this job, "Electrical Inspections" will not be published in the future

*Regards,*

*David Bibby  
Editor*



## MEETINGS UPDATE

### November 2011

#### **IEI Inspection Checklist meeting—Builders Poles (BTS) (overhead and Underground)**

Members attended 370 Degrees in Lygon St Carlton to assist in the formulation of Electrical Inspection Checklists for Builders Poles supplied by Overhead and Underground supplies. A draft of each checklist was provided by the IEI Secretary to each member in attendance and all members assisted in the editing and amending of both Checklists. These checklists have been finalised and added to the Electrical Inspection Checklist Booklet that will be available in the members area of the website shortly. Many thanks must go to all members who attended and assisted on the evening. This Inspection Checklist booklet will hopefully assist Electrical Inspectors in Victoria that are new to the profession.

### February 2012

#### **IEI Inspection Checklist meeting—Builders Temporary in Permanent supply (T.I.P)**

Members attended 370 Degrees in Lygon St Carlton to assist in the formulation of an Electrical Inspection Checklist for Builders T.I.P supply . A draft of the checklist was provided by the IEI Secretary to each member in attendance and members assisted in the editing and amending of this Checklist. This checklist has been finalised and added to the Electrical Inspection Checklist Booklet that will be available in the members area of the website shortly. Many thanks must go to all members who attended and assisted on the evening. This Inspection Checklist booklet will hopefully assist Electrical Inspectors in Victoria that are new to the profession.

### March 2012

#### **Site visit to Cummins Generators, Scoresby, Victoria.**

14 members from 16 RSVP's attended the offices of Cummins Generators to meet representatives of Cummins Generators, discuss relevant issues with permanently installed Standby Generation systems, and be taken on a guided tour of Cummins Generator and switchgear Test facility. Cummins representatives also provided a demonstration of an automatic changeover system using two Generators. Cummins test facility is very much a plug and play system where different switching systems can be temporarily connected to the Generators under test to confirm correct operation and information gained from this is used for further research and development of their systems. The IEI would like to thank Peter Giannopoulos for organising the evening and Russell Slocomb of Cummins Generators for allowing the IEI to visit Cummins facility.

At the time of this publication, a request for further information that was offered by Cummins representatives has not been fulfilled, if and when this information is delivered to the IEI Secretary, it will be placed in the Members area of the website for all members to utilise.



## MEETINGS UPDATE

**April 2012**

### **Energy Safe Victoria Q&A evening at Hager B&R Victoria**

26 of 28 RSVP's attended with 2 apologies to a Question and Answer evening with the Victorian Regulator ESV. Questions were provided to Mr. Neil Fraser, Manager Installation Safety Energy Safe Victoria prior to the meeting and with Mr Keith Van Der Zyden, Mr. John Stolke and Mr. Greg Johnson also in attendance on the night further clarified some of the questions and provided further detail on latest developments in Victoria and Nationally.

Other items of discussion that Members may find useful:

Neil Fraser and Keith Van Der Zyden have agreed that a Victorian LEI may place the defect codes for a Prescribed COES on the "White and Blue" copy only if they wish.

The members attending were also supplied a printed copy of the new defect code list, this defect code list is effective 25-04-2012. I will be updating this defect code list to members as I am informed of updates from ESV. This list is also available on the ESV website at:

<http://www.esv.vic.gov.au/>, 1st item under "latest news" on the right hand side of the main web page.

Q14-16 Many other forms of Grid connect technology were mentioned and discussed, some of these technologies were provided in the Slide presentations provided by ESV and were sent to all members on email. A grid connect Inspection Checklist will be produced using the information supplied by ESV from their LEI seminars recently and will be added to the Inspection Checklist manual which will be available in the members area of the website shortly.

Q19 was discussed at length regarding the placement of an MEN link at a metal meter box earthed by its own earth stake & remote from the customers switchboard, further discussion and agreement required on an acceptable method that suits all parties.

Q20 was also discussed at length, the IEI Secretary will send a number of drawings to ESV for Clarification, in principal agreement was reached last night regarding the labelling requirements for Safety Services isolators and Main Switches on the same panel. Further advice will be forwarded to members shortly.

Many thanks to all who attended including Mr. Neil Fraser, My Keith Van Der Zyden, Mr John Stolke & Mr. Greg Johnson from Energy Safe Victoria for giving up their time to attend and answer our questions and a big Thank you to Phil Hadjiloukas and Dave Harvey at Hager B&R for providing the venue, food and drinks and information on their new products.

A copy of the ESV-IEI Q&A is provided on the following pages.



1. What is regarded as being part of the switch board for equipment not requiring overload protection?  
Example 1: - Domestic switchboard replaced main switch above 7 feet, Main switch installed below the switchboard enclosure in a separate enclosure at 2 metres

*The above arrangement is not acceptable.*

*ESV allows the replacement of switchboards with the main switch located above 2 metres if the switchboard location complied with the requirements of the day when installed and if there is no other associated being done work, otherwise it is must be installed as per the requirements of AS/NZS 3000:2007.*

- Example 2- Large commercial switchboard with additional section of 750 amp on the opposite side of the switch room. Is protection required if cable is installed on tray around wall or across ceiling.

*The cables would be required to have the same degree of protection as cables within a switchboard and required to be enclosed in a metallic duct or metallic conduit or similar enclosure.*

*Note that the conductors require a cross-sectional area that would satisfy short-circuit protection and fault-level current*

2. Is it permissible to install a 40amp RCD to provide personal protection of 3 final sub circuits comprising 2X20amp (power) and 1 X 10amp (light) circuit breakers or should the summation of the circuit protective devices not exceed the current rating of the RCD?

*It is permissible to install a 40amp RCD when the maximum demand of the connected load on the three final sub circuits is less than the current carrying capacity of the RCD.*

*The summation of the protective devices in clause 2.5.1.1 of AS/NZS 3000:2007 relates to the overload protection of consumers mains.*

- 3 Is it permissible to install a separate main switch at a height not greater than 2000mm above the floor adjacent an existing main switchboard, where the existing main switchboard is located above a doorway and remains unchanged from its original installation? The existing main switchboard would have been compliant under previous regulations at a height of 7ft or 2300mm, which was a common practice in Ministry of Housing properties?

*The above arrangement is not acceptable.*

*ESV allows the replacement of switchboards with the main switch located above 2 metres if the switchboard location complied with the requirements of the day when installed and if there is no other associated being done work, otherwise it is must be installed as per the requirements of AS/NZS 3000:2007.*

- 4 Many RECs fail to lodge certificates of electrical safety; therefore will ESV consider amending the current regulations to allow LEIs to lodge certificates of electrical safety prior to lodgement by the REC?

*It will always be and remain the responsibility of the REC to lodge the certificate, an LEI does already have the ability to lodge a certificate on behave of the REC. It is the LEI's responsibility to lodge the inspection certificate and ensure the LEW has lodged the certificate.*

5. Has ESV any knowledge of an iPhone application for lodging certificates of electrical safety?

*Initial testing has shown it is not practical to do this on the Iphone, it is anticipated in the future when our systems are upgraded this service will become available on Ipad and equivalents.*

6. Would ESV consider holding more frequent technical seminars and providing more detailed and comprehensive information on selected topics of interest to better inform LEIs?

*ESV has at the last LEI seminar indicated a willingness to arrange further training, but we will need to evaluate what training is required and where it is most beneficial.*



7. The ESV defect list contains a number of technical defects that many in the industry believe should be listed as unsafe defects, would ESV be willing to consider amending the following defects from technical to unsafe status? Defect Numbers - 52200,52256,52684, 52656, and 52060.

*There are no plans for amending the category of the above mentioned defects.*

8. Could ESV take control of Victorian Service and Installation Rules?

*The service & installation rules are the reasonable technical requirements that are approved by the Essential Services Commission, there are indications that the Essential Services Commission may move to a federal body and the SIR's eventually becoming a National Document. We are unsure in the interim who will be administering the document.*

9. Where does ESV expect to be in 5 years?

*There will be changes that will impact our organisation such as the national harmonisation program, national licensing and occupational Health and Safety along with changes within the electricity Industry, but we will implement any change necessary in conjunction with the Victorian Government to achieve our aim in creating a safer state with electricity and gas.*

10. Could ESV have 24hour phone access?

*There is already 24 hour emergency access by ringing 9203 9700 and following the emergency option.*

11. On selling a domestic property, could the seller provide a Non Prescribed COES on the Section 32 that an R.E.C has completed on a walk through inspection?

*This was one of the options previously proposed but the Victorian Government of the day; sadly they did not support the proposal.*

12. Could ESV arrange that retailers supply a direct phone number for the trade to speed up appointments, etc?

*The process was set up and approved by the Essential Services Commission which has been transferred to 'The Australian Energy Regulator'.*

13. Did ESV come up with a final decision regarding the bonding of raiser brackets other than installing PVC hose or corrugated conduit inside full length of bracket?

*Yes, it was considered that the bonding/earthing could create more problems than staying with the current requirements, ESV has had discussions with manufacturers of raiser brackets and some are providing flexible conduit for additional protection others are preventing sharp edges and dags through quality control. ESV does random checks at wholesalers at regular intervals.*

14. In relation to LEI's inspecting solar installations, some LEI's do not get up on the roof top to properly inspect the array wiring and isolator etc. I find a lot of dangerous and defective installations that these LEI's have not inspected but have signed off on?

*If you do not have the appropriate safety equipment to get on the roof and are unable to inspect the whole installation - Don't inspect, leave it to someone who can.*

*The same scenario exists if you are uncertain, or do not have the appropriate standards to ensure what your signing is correct and compliant.*

*ESV has a no tolerance policy for LEI's and will proceed to remove your licence if you become repeat offender.*



15. When is ESV going to include Solar Installation Defects onto their Defect List?

*AS/NZS 3000:2007 clauses cover most of the defects found in solar systems, there are some defects for AS/NZS 4777 there may be some written for AS/NZS 5033 after the new edition is published.*

16. Is ESV going to ban the use of polarised DC circuit breakers in solar installations? I am still finding some REC's and LEI's don't understand how to wire and connect them up correctly, leaving a potentially very dangerous situation?

*The new addition of AS/NZS 5033 bans the use of polarised DC circuit breakers and are acceptable until the standard is published.*

17. In regards to an REC certifying a CES (prescribed or Non-Prescribed) with ESV. Once they have done so, does ESV match this CES number with the white ESV copy of the CES?

The reason I ask this is if the REC does not send the white copy back to ESV the electrical installation work performed would not get a chance to be audited?

*Yes the return of the certificate is recorded and there are reports that can be generated showing if the certificate is returned and scanned.*

18. Should a Tattoo Parlour's electrical installation comply with the requirements of AS3003-Body protect areas since equipment contained within and used comes into contact with a human body?

*No?? AS/NZS 3003 sets out requirements for new electrical installations and for alterations, additions and repairs of existing electrical installations in patient treatment areas. This specific location has not been considered by the committee, we will ask them for a ruling.*

19. Should a metal meter, box remote from the customer's premises and earthed by a separate earth stake, have an M.E.N connection at the sealed Neutral link on the meter panel?

*No, each MEN connection is required to be in an accessible location where it can be disconnected to test the installation.*

20. There is still confusion regarding the location and labelling of Main Switches.

a) If a property is serviced via a circuit breaker or fused Disconnector in a pillar, is that the main switch?

*Yes, that would be the main switch, but the following switchboard would be considered as being installed within an outbuilding*

b) If the main switchboard is fitted with an SCCD (Supply Capacity Control Device) is that the main switch.

*It would depend on installation and where in the installation the SCCD is installed, but it could be the main switch or the SCCD could be a combination of main switches*

c) Is the same SCCD a main switch if safety services are fed off the live side?

*Again it would depend on where in the installation the SCCD is installed but it could be the main switch or the SCCD could be a combination of main switches.*

d) Does the location of an MEN point affect the definition of main switch?

*No*



## NOTICES

### Members Involvement

The current Board of Directors is seeking further involvement of members with regard to the running of the Institute into the future, without members volunteering to help in the running of the Institute, your Institute will not exist, please take the time to consider volunteering for a small role to assist the administration and learn along the way.

### Questionnaire

A questionnaire was published in the previous edition of Electrical Inspections and any member interested in responding was requested to do so anonymously if they wished, all I asked is that all members take the time to consider the questions posed and respond accordingly to any or all questions. Unfortunately, not 1 reply was received to the questionnaire supplied, so therefore I am unable to provide any further information regarding this to members. Some of the questions were provided to Energy Safe Victoria at the April 2012 meeting at Hager B&R, Heatherton Victoria.

### IEI Housekeeping for all members.

(Below is the text from an email sent to all members on 1st May 2012)

Due to unforeseen circumstances this year members have not received a membership card, this issue has been beyond the Board of Directors control, however, this will be rectified as of 1 July 2012 when our new office administration takes over this and other tasks.

Many members have received a letter from the IEI Secretary at some stage since April 2011 regarding their username and password for the IEI website, please revise this letter at your earliest convenience and check the top of the letter below your name, here you will find your IEI membership number then your website username and password. Please keep this in a safe place for your records. If you have not received this document due to recently becoming a member, you will in due course.

The Proxy vote for Draft 2 of the IEI Constitution has now closed, and again I must inform all members that the vote failed at 53% of a required 75%. I am saddened by this result as all members were given 6 weeks to vote on this draft document No:2, reminded at weekly intervals, and I have received less votes for this draft No:2 than I did for the first Proxy vote in a 4 week period in November 2011. I have had to add member numbers to 40 out of 91 votes received which prompted point 2 of this email.

Any member who has not paid their membership fees for 2011-2012 (unless notified otherwise) has been removed from the Membership and email/postal list. I send each new member a new members welcome email/post wherein I include a copy of the IEI code of conduct, IEI welcome letter **and your invoice**. I have removed three such members who have failed to pay their Pro-Rata membership fees within a six month period. For those members registered and financial you will receive an invoice for 2012-2013 membership fees in early July 2012, please take the time to remit payment promptly to the IEI office administration.

Members who have not provided an email address have missed out on many Alerts and Updates over the previous three and a half years, if you have an email address, please provide it to the IEI secretary at your earliest convenience or on the Membership fees invoice that you will receive early July 2012.



## Victorian Members meeting update

A copy of this schedule can be downloaded from: [www.iei.org.au/meetings/victoria](http://www.iei.org.au/meetings/victoria)

Below is a draft of the schedule of information nights proposed for Victorian members in 2012.

Please note this is not final and all details will be updated on the website and communicated to members as each information nights details are finalised.

The Directors have agreed to run as many Inspection Checklist evenings as required to enable the drafting of as many Checklists as possible this year. The Institute hopes to prepare an information booklet of these checklists for on the job and future reference. The Institute is hoping to cover the specialist fields of Hazardous, High Voltage and Medical some time in the future to add to the information booklet for reference.

Although these checklists are being written for Victorian Inspectors, if Interstate members would like to edit these checklists to suit their states Act, Regulations and S.I.R practices, the IEI Secretary can assist with this.

Date	Venue	Address	Theme	C o m - pleted
Feb 22nd	NECA 370	Lygon Street Carlton	Inspection Checklist draft – Temp in Perms	Yes
March 20th	Cummins Generators	2 Caribbean Drive SCORESBY	Site Visit & Discussion	Yes
April 24 <sup>th</sup> Tuesday	Hager B&R	50-52 Sunmore Close, Heatherton	ESV Q & A – N Frazer	Yes
Thursday May 17th	Fronius & CEC	90 - 92 Lambek Drive Tullamarine	Solar information evening CEC to be confirmed	TBA
Thursday 21 <sup>st</sup> June	Aggreko Generators	105 Woodlands Drv Braeside	Site Visit & Discussion	TBA
Tuesday July 17 <sup>th</sup>	Techsafe	2/810 Princes Highway Springvale	Inspection Checklist draft – Generators - Standby	TBA
Tuesday August 21 <sup>st</sup>	EIV	Factory 11, 97-107 Canterbury Rd, KILSYTH	Inspection Checklist draft – Generators - Standalone	TBA
September	Hager B&R	50-52 Sunmore Close, Heatherton	TBA – AS 3000 Amdt 2 or SIR night (Hopefully)	TBC & TBA
Saturday October 13 <sup>th</sup>	TBA	Melbourne	AGM 2012	TBC & TBA
Nov	Vic Uni or ME	TBA	Inspection Checklist draft – Installation Upgrade	TBC & TBA
Jan 2013 2 <sup>nd</sup> Saturday	TBA	Melbourne	XMAS in January Dinner	TBC & TBA



## Published Australian Standards update.

Standard	Description	Current Version	Amendments
AS/NZS 3000 (EL-001)	Electrical installations—Wiring Rules	2007	Amdt 1: Published 2009 Amdt 2:
AS/NZS 3001 EL-001-11)	Electrical installations - Transportable structures and vehicles including their site supplies	2008	Amd 1—draft August 2012
AS/NZS 3002 EL-001-12)	Electrical installations - Shows and carnivals	2008	
AS/NZS 3003 (HT-021)	Electrical installations - Patient areas	2011	
AS/NZS 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	
AS/NZS 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
AS/NZS 3010 EL-001-24)	Electrical installations - Generating sets	2005	Amdt 1—draft August 2012
AS/NZS 3012 (EL-001-17)	Electrical installations - Construction and demolition sites	2010	
AS/NZS 3017	Electrical installations - Verification guidelines	2007	
AS/NZS 3018	Not Available		
AS/NZS 3019	Electrical installations - Periodic verification	2007	
AS/NZS 2067 EL-043)	Substations and high voltage installations exceeding 1 kV a.c.	2008	Amdt 1: Published 2010
AS/NZS 3760 (EL-036)	In-service safety inspection and testing of electrical equipment	2010	Amdt 1: Published 2011
AS 3998	Non-destructive testing - Qualification and certification of personnel	2006	



## Published Australian Standards update

Standard	Description	Current Version	Amendments
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	
ASNZS 5033	Installation of photovoltaic (PV) arrays	Under revision	Amdt 1: 2009
ASNZS 4777.1	Grid connection of energy systems via inverters - Installation requirements	2005	Draft August 2012
ASNZS 4777.2	Grid connection of energy systems via inverters - Inverter requirements	2005	Draft August 2012
ASNZS 4777.3	Grid connection of energy systems via inverters - Grid protection requirements	2005	
ASNZS 4836	Safe working on or near low-voltage electrical installations and equipment	2011	
ASNZS 4741	Testing of connections to low voltage electricity networks	2010	
ASNZS 3439.1	Low-voltage switchgear and controlgear assemblies - Type-tested and partially type-tested assemblies	Under revision	Comment Closed April 27 2012
ASNZS 3439.2	Low-voltage switchgear and controlgear assemblies - Particular requirements for busbar trunking systems (busways)	2002	
ASNZS 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	
ASNZS 3439.4	Low-voltage switchgear and controlgear assemblies - Particular requirements for assemblies for construction sites (ACS)	2009	
ASNZS 3439.5	Low-voltage switchgear and controlgear assemblies - Particular requirements for assemblies for power distribution in public networks	2009	
AS 6002	Domestic electric meter enclosures	1999	
AS 60044.1	Instrument transformers - Current transformers	2007	Amdt 1: 2012
AS 60044.2	Instrument transformers - Inductive voltage Transformers (IEC 60044-2:Ed.1.2 (2003) MOD)	2007	



## Published Australian Standards update

Standard	Description	Current Version	Amendments
AS/NZS 60079.0	Electrical apparatus for explosive gas atmospheres - Equipment—General requirements	Under revision	
AS/NZS 60079.1	Electrical apparatus for explosive gas atmospheres - Equipment protection by flameproof enclosures 'd'	2007	Amdt 1: 2008
AS/NZS 60079.1.1	Flameproof enclosures 'd' - Method of test for ascertainment of maximum experimental safe gap	2002	
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'	2006	
AS/NZS 60079.10	Electrical apparatus for explosive gas atmospheres - Classification of hazardous areas (IEC 60079—10:2002 MOD)	2009	
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	2011	
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 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 at the cost of Standards.



## COMMITTEE VACANCIES

### EL-042 Standards working committee

The Board of Directors invites interested members to apply to the Institute as our representative on the EL-042 committee, the Institute has discussed the possibility of an IEI representative with Standards Australia and if a suitable candidate is found the Institute will lobby strongly for a seat on this committee.

EL-042 Standards working committee encompasses the following Standards:  
*ASNZS 5033, ASNZS 4777.1, ASNZS 4777.2 & ASNZS 4777.3.*

An application form to become an IEI external committee representative is available on the website or from the IEI Secretary. Please consider the opportunity and experience that comes from being actively involved in the formulation of Australian Standards.

### EL001-12 Standard working committee

The Board of Directors invites interested members to apply to the Institute as our representative on the EL001-12 committee, the Institute has a vacant seat on this committee with Standards Australia.

EL-001-12 Standards working committee encompasses the following Standards:  
*ASNZS 3002—Electrical installations - Shows and carnivals*

An application form to become an IEI external committee representative is available on the website or from the IEI Secretary. Please consider the opportunity and experience that comes from being actively involved in the formulation of Australian Standards.

