

ELECTRICAL REGULATORY COMPLIANCE FORUM

STATE REQUIREMENTS, IMPACTS OF REFORMS AND HARMONISATION EFFORTS

Featuring Keynote Speakers:

ALBERT KOENIG

Executive Director Energy Safety WA to 2009, Electrical Consultant and Member of the Board of the new National Occupational Licensing Authority



TONY GILLESPIE

32 Years Experience in Electrical Supply Industry, Convenor of EL 52 Electrical WG Responsible for AS/NZS7000 and EL24 Responsible for AS/NZS 1768



WHAT YOU WILL GAIN FROM ATTENDING THIS FORUM:

- Understand recent policy changes and statutory obligations of general OHS
- Understand the role of the various regulators in the different states, such as, electrical safety regulators and economic regulators.
- Learn about relevant standards including AS 5577-2013, AS/NZS 7000, AS/NZS 3000:2007, their application and impact.
- Understand the differences between state legislations for electrical hazardous area requirements.
- Learn how to comply with regulatory requirements as part of the LV and HV design process.
- Discover how the latest technologies can help you achieve compliance.
- Learn about safety audits, why audits are carried out and what is audited

WHO SHOULD ATTEND:

- Electrical Engineers and Technicians
- Engineering Managers
- Electrical Inspectors and Auditors
- Electrical Consultants and Contractors
- Project and Design Engineers
- Process Plant Operators
- Safety Facilitators
- Process Safety Managers
- Government Safety Regulators/ Inspectors
- Mine safety engineers
- Risk Assessors

And all other Engineering Professionals who have an interest in electrical regulatory compliance.

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All forum papers are reviewed and selected for their high quality and technical value by our specialists experienced in the theory and practice of electrical engineering.

FORUM DAY TWO - 26th September 2013

<p>8.30am Session 7 WORK SHOP</p>	<p>An Overview of AS/NZS 7000 Overhead Line Design – Detailed Procedures Tony Gillespie - Gillespie Power Consultancy</p> <p>The recently released AS/NZS 7000 : 2010 provides for the first time a design standard for overhead power lines. This new standard is comprehensive and sets minimum standards compared to the loose guidelines of the superseded ENA C (b) 1, Guidelines for design and maintenance of overhead distribution and transmission lines. There is also an accompanying handbook, HB331 : 2012 Handbook, Overhead line design which gives a commentary on the standard AS/NZS 7000 as well as worked examples.</p> <p>This workshop aims to give a brief overview of this standard. One of the new concepts introduced is reliability based design. Limit state design principles are applied to structural/mechanical and electrical design. Technical topics covered by the workshop include limit state design, electrical clearances, earthing, climbing attached and EMF limits. Differences in philosophy between distribution and transmission practices will also be highlighted. Applicability of the new standard to upgrading, refurbishment and Regulatory reset activities will also be discussed.</p>	<p>performed on the obtained field test results. This paper discusses the management of the performance of LV CT accuracy testing in-situ and its process challenges.</p>
<p>Lunch - 12.30pm</p>		
		<p>1.30pm Session 10 CASE STUDY</p> <p>How Technology Innovation Can Improve Electrical Regulatory Compliance Wayne Gerard - Chief Executive Officer, RedEye Drafting</p> <p>While Regulatory Compliance has quantifiable benefits including enhanced safety, it is often a time consuming, complicated and expensive burden for industry. New technology is creating a platform for the development of cost effective automated compliance solutions. This presentation discusses the opportunity for industry led innovation that will improve compliance while providing substantial commercial and global competitive benefits for industry. The presentation will also encourage discussion on how all stakeholders can contribute to positioning Australia as the leader in Electrical Regulatory Compliance.</p>
<p>11.00am Session 8</p>	<p>Morning Tea - 10.30am</p>	<p>2.15pm Session 11 CASE STUDY</p> <p>Complying With Regulations in the Low Voltage and High Voltage Design Process Rahim Janfada - Principal Mechanical & Electrical Design Engineer, Queensland Urban Utilities</p> <p>The electrical design of a LV or HV power distribution system for a plant (large or small) does not start with producing wiring diagrams and schematic diagrams, it must follow some logical steps to ensure compliance with the Regulatory Authorities' requirements. In this presentation a practical case study of a small sewage pump station is presented to show how each logical step is carried out and what results are obtained. Some of the steps detailed will include preparation of one line diagrams, equipment sizing, load flow and voltage drop calculations, short circuit fault studies, obtaining earth fault loop impedances and calculating touch voltage at each node of a power supply network.</p>
<p>11.45am Session 9</p>	<p>AS 5577-2013: Electricity Network Safety Management Systems – Background, Application and Expected Impact Albert Koenig - Electrical Consultant</p> <p>In 2009, the Ministerial Council on Energy (now known as the Standing Council on Energy & Resources) received a detailed submission from the Energy Technical & Safety Leaders Group, setting out its recommended Energy Technical and Safety Regulation Harmonisation Enhancement Plan. The Plan outlined proposals for a new approach to technical and safety regulation of Australia's electricity supply industry (ESI). The key element of the Plan was the proposal to adopt the use of Electricity Network Safety Management Systems (also known generically as "Safety Cases") as an alternative to the prescription of specific technical standards/guides, within the technical and safety regulations covering the ESI in each jurisdiction. This paper describes the industry setting that led to the proposal, the means by which the proposal was agreed to be implemented, the development of a new Australian Standard to support the proposal, and the practical application and likely impact of the new Standard.</p>	<p>Afternoon Tea - 3.00pm</p> <p>3.30pm Session 12</p> <p>Discussion Panel This session will provide delegates with the opportunity to ask our speakers questions and to discuss regulatory compliance issues in their workplaces, or given state.</p>
	<p>Low Voltage Current Transformers Accuracy Testing for Regulatory Compliance Razmi Marzook - Electrical Engineer, Endeavour Energy</p> <p>Low Voltage Current Transformers (LV CTs) installed in metering installations are required to be tested for accuracy for regulatory compliance in accordance with the National Electricity Rules (NER). This has been a challenging project from the planning to implementation stage when Australian Energy Regulator (AER) introduced a civil penalty for non compliance in 2012. The sample size of 10% from the LV CTs population was selected to be tested in-situ based on their age incurring the power outage for customer's supply. The benefits of secondary injection outweighed over the conventional primary injection method to determine the accuracy of the CTs. The statistical analysis was</p>	<p>Closing - 4.15pm</p>

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KEYNOTE SPEAKERS:

PROF ALBERT KOENIG

BE MBA(Dist) FIEAust CPEng FAIE

Prof Albert Koenig is a professional electrical engineer with wide experience in electricity utility engineering and management, and in energy industry regulation. The early part of his career focused on building services electrical engineering, after which he joined the State Energy Commission of WA where he worked in various operational and design roles before moving into senior management. In 1995 he became WA's inaugural technical and safety regulator for electricity and gas. During his 15 years as a regulator he was a regular contributor on the energy industry policy scene, through the national electrical regulator council ERAC (which he chaired for two terms) and through various Standards Australia boards and committees. In 2009 he returned to industry as a consultant and has his own practice. He is an Adjunct Professor at the University of WA and also lectures at other universities. In 2012 he was appointed to the Board of the National Occupational Licensing Authority.



TONY GILLESPIE

Power Engineering Consultant

Tony Gillespie has 32 years experience in the electricity supply industry and worked in Queensland Government owned Utilities up until June 2010. He then became an independent power engineering consultant. Tony serves on many national committees and has written 32 technical papers. He is also a part time lecturer on transmission line electrical design at the Queensland University of Technology. Tony received his Bachelor of Electrical Engineering with Honours from the University of Queensland in 1979. He is a Fellow of IE Australia, Chartered Professional Engineer, Member of IET and Member of IEEE.



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ELECTRICAL REGULATORY COMPLIANCE FORUM

25th & 26th September – Adina Apartment Hotel, Brisbane, Australia

Simply complete this registration form online or return by fax or email

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ELECTRICAL REGULATORY COMPLIANCE FORUM - 25th & 26th September 2013

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15 Ivory Lane, Brisbane QLD 4000
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Phone: (07) 3218 5800

Accommodation

The conference venue has accommodation available. Contact directly on (07) 3218 5800 and mention the forum when booking and receive the best room rate available.

Food and Beverages

All lunches, morning and afternoon refreshments are included.

Unable to Attend

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