“Technical Tour: Inside a 275kV Gas Insulated Substation”

Presented by Peter Bates, Marino Pallotta and Peter Stattmann,

At City West Substation, ElectraNet

Organised by the IEEE PES South Australia Chapter, in collaboration with ElectraNet

Date: Wednesday, 9 September 2015
Time: 10:15 am – 12.00 noon
Venue: Behind No. 1 Richmond Road,
Keswick SA 5035
(See venue map)
RSVP: mohammed.haque@unisa.edu.au

Tour Overview:
The 275/66 kV City West Substation was commissioned on April 2012. Power from generators is transported by ElectraNet via a new 275 kV underground transmission cable along Port Road, into the new City West Substation at Keswick, where it is then stepped-down in voltage by two 275 kV 300 MVA transformers into 66 kV supply. This lower voltage is then distributed by the state’s electricity distributor to Adelaide households and businesses.

The highly paced tour has three distinctive parts. The first portion of the tour includes a walk around inside the GIS switchgear room and brief presentation on the operation of the Circuit Breakers, Earth-switches, Isolators and Control Panels. The second segment will be inside the control room covering the protection schemes and explanation of protection drawings. The final part includes a walk around the substation with discussion on the two largest transformers in South Australia to date, as well as the HV reactor and the SPEL oil/water separator system.

About The Speakers:
Peter Bates has 30+ years of field work and supervision experience in substation: maintenance, construction and asset condition analysis. This includes protection and control, SCADA, high voltage switchgear, auxiliary systems and infrastructure within South Australia’s electricity transmission and distribution networks.

Marino Pallotta has nearly 30 years of experience in substation secondary protection system and currently the Principal Engineer of Control and Protection Assets at ElectraNet. Previously, he was the Automation Engineering Manager.

Peter Stattmann has nearly 30 years of experience in substation design, planning, construction and maintenance. He has been involved in the development of RCM techniques being applied to all outsourced maintenance activities. He is also involved in the development of policies and guidelines for transmission network planning and the development of the asset life-cycle management.

Entry Requirement: All visitors must wear fully enclosed footwear (safety boots are encouraged) and long sleeve shirts. Hard hats can be provided on site.
To RSVP, please contact Dr. Mohammed Haque at mohammed.haque@unisa.edu.au.

Free admission - all are welcome, RSVP essential