High Voltage Auditing is carried out to ensure that a high voltage installation may be safely connected and operated within a power supply system.

The system may be an isolated/stand-alone system, or be connected to the public network. High voltage audits may be performed on either existing or new installations.

A High Voltage Audit is a statutory requirement in Queensland for new or altered installations. There are similar requirements in other state jurisdictions. While there are some exemptions from this requirement a similar audit is becoming more common for these and for installations within other jurisdictions where it is not yet a statutory requirement.

Auditing of existing installations is also performed either as a legislative requirement, or often as a result of other safety audits performed by mining and industry inspectorates.

This paper describes the methodology and process for carrying out a High Voltage Audit and relates some recent experiences.

Speaker: Neville Gersch BE CPEng RPEQ

Neville Gersch has extensive experience in Electrical Power Systems Engineering. This experience includes the design of large machines and the design, installation and commissioning of industrial and utility power generation and distribution systems. Notable among these roles was the leadership of a programme for the development of a combined diesel-hydro electric power supply system for a Pacific Island state with emphasis on the utilization of indigenous primary power resources. More recent roles include Power Systems Specialist at Boyne Smelter with a 1000MW electrical demand.

Neville is currently a Specialist Power Systems Engineer with Electrical Engineering Consulting practice Welcon Technologies based in Gladstone. He has also led investigations into major electrical incidents and provides High Voltage Auditing services.

For further information contact:
Email: eaqevents@engineersaustralia.org.au