



FRANK TUTTING

Executive Engineer – Protection

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Frank has been working for Hill Michael since mid 2007 and has over 40 years experience in the Electricity Supply Industry.

He commenced his career with Shortland County Council where he spent 10 years gaining experience in all aspects of distribution mains, substation construction and testing of HV and secondary systems equipment.

Frank joined QEGB (now Powerlink) in 1978, where he has gained over 27 years experience in protection design, and protection settings of protection relays used on equipment in power stations and distribution and transmission networks. His experience included checking and evaluating the performance of relay schemes during all operational incidents and extends to calculation of modeling data values using software to simplify the calculation process and provide greater data integrity.

Specialist Areas

- Protection design of plant and equipment used in transmission, distribution and power stations at all voltage levels.
- Standardisation of protection schemes for use in transmission networks involving internal relay logic and associated standard setting files.
- Introduction of new technology in protection design including use of fibre optic interfaces for AC measurement and bussed networks.
- Modelling of primary electrical equipment and use of analysis software packages for fault calculations studies.
- Teaching of modelling and fault analysis calculations methodology.

Significant Projects

- Wide range of protection design and settings calculation covering all aspects of all projects in the Powerlink Transmission network.
- Protection of all feeders and substations at 275 and 330 kV on the QNI.
- Establishing standardization of protection designs for all protection schemes used by Powerlink.

Qualifications, Professional Membership & Industry Involvement

- BSc(Tech) with Merit in Electrical Engineering
- Chartered Professional Engineer IEAust
- Past Member of the Qld State Joint Committee of the ESI and Telecom
- Member of Standards Aust Subcommittee EL/1/23
- Part time Lecturer at QUT – Teaching Power System Fault Calculations
- RPEQ



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Hill Michael is a specialist electrical networks and strategic engineering firm. Focused on the application of engineering expertise in the context of organisational and project strategy, Hill Michael is a leading advisor to owners of electricity supply networks and those wishing to connect to them. Established 1987.