

POSITION DESCRIPTION

Position Title:	Protection Engineer
Reports to:	Secondary Systems Manager
Division:	Network Services
Business Unit:	Secondary Systems
Nature of Appointment:	Permanent
Contract Type:	TEC (Grade 6)
SAP Position Number:	TBC

Health, Safety and Wellbeing

ElectraNet is committed to a Safety First culture and a work environment promoting the health, safety and wellbeing of all workers. To sustain this culture, all leaders are required to implement and maintain the areas of ElectraNet's safety management system under their control, where the health, safety and wellbeing of all workers comes first.

All employees are required to contribute to the Safety First culture by exercising their duty of care to themselves and one another, by working safely, by adhering to all reasonable safety instructions, by using all equipment provided in accordance with safe work methods and by promptly reporting any unsafe working practices or hazardous working conditions.

Position Overview

The Protection Engineer is accountable to the Secondary Systems Manager and is responsible for development and delivery of secondary system design, scope and specification of protection systems. Development and application of secondary systems design standards and providing specialist engineering support for achievement of business and performance objectives.

Key Duties/Responsibilities

Operational Expertise

- Provide conceptual and preliminary design, option analysis, scope and specification of substation automation and control systems
- Protection system design development, device evaluation and application
- Development and maintenance of secondary system design standards
- Specific protection system coordination and functions for HV transmission network installations
- Standard and non-standard protection system design and construct application and solutions for all HV power system network assets. Assist in co-ordinating work programs for delivery of non-standard solutions
- Protection equipment specification and operation instruction to design and construction, operations, and maintenance
- Calculate and review specific protection and control settings, configurations, testing and commissioning procedures across all protection types

POSITION DESCRIPTION

- Perform engineering design review and validation
- Compliance of new and existing protection system design and testing and recommend changes
- Development of protection design philosophy and practices
- Implement ElectraNet substation protection designs compliant to IEC 61850 substation communication network standard
- Integration of standard substation automation system equipment, telecommunication, remote engineering access (Opswan), condition monitoring equipment and NGM
- Provide specialist technical support to other groups within ElectraNet
- Identify and implement improvements to design and processes
- Plan engineering project deliverables with stakeholders
- Perform and report on engineering investigations and risk assessments
- Foster technical innovation, acquisition of expertise and support a continuous improvement culture
- Contribute to the development of other engineers
- Apply guidelines, processes and systems to lead the way of best practice
- Contribute to network security obligations related to compliance with legislative requirements and regulations
- Other duties as directed commensurate with your skills and classification

Relationship Management

- Develop networks and collaborate across internal and external organisational boundaries to build strategic relationships that support the achievement of business objectives
- Create and maintain productive working relationships with management and employees, customers, service providers, industry groups and other relevant stakeholders
- Create an open, positive environment to stimulate open discussion and encourage debate and new ideas; make it safe for people to have their say and
- Carry out the duties of the role in a professional and ethical manner and in accordance with ElectraNet's values and Code of Conduct requirements.

Skills, Knowledge and Experience

- Carry out the duties of the role in a professional and ethical manner and in accordance with ElectraNet's values and Code of Conduct requirements
- Knowledge of HV power system protection obtained through experience, networking, research and other means of professional development
- Knowledge of technology and developments within the discipline
- Knowledge of IEC 61850 substation network communication standards
- Knowledge of power system automation (SCADA & control)
- Knowledge of all legislated rules and codes governing the business and industry (NER, SA Electricity Transmission Code, etc)
- Knowledge of Telecommunication and Substation Infrastructure Engineering
- Knowledge of the transmission system performance and fault analysis of power system
- Demonstrated competency in the application of HV protection skills, judgement and experience, under the guidance of the Senior Protection Engineer
- Demonstrated ability to apply sound time management methodology to manage own work schedule / projects
- Demonstrated ability to produce the high quality technical reports

POSITION DESCRIPTION

- Demonstrated ability to produce (IED) protection and control device settings and configuration files
- Demonstrated ability to operate the vendor specific software tools for modern substation automation and protection equipment
- A proven ability to influence a group of professionals on technical decisions
- Demonstrated ability to build and maintain collaborative working relationships across diverse stakeholders
- Assisting with development of other Engineers, under the guidance of the Senior Protection Engineer
- Demonstrated ability to use initiative to identify issues, to then analyse, investigate and implement the appropriate solution.

Qualifications

- Degree in Electrical Engineering or equivalent (essential)
- Eligible for membership of Engineers Australia (essential)

Other Factors Relevant To Position

- Travel: Intra/Interstate as required
- South Australian car driver's licence (or eligible to obtain one)
- Some out of hours work may be required

Approvals

Title	Name	Signature	Date
Secondary Systems Manager	Sageran Naicker		
Senior People and Culture Advisor	Matt Styling		

REVISION RECORD

Date	Version	Description	Author	Checked By	Approved By
02/06/17	1.0	Updating template	S Naicker	M Styling	S Emms