

Lifecycle Engineer (Network Planning)

Position description

REPORTS TO: Infrastructure Lifecycle Manager

LOCATION: Christchurch

FUNCTIONAL RELATIONSHIPS

Internal

- Infrastructure Lifecycle team
- Engineering team
- Network Asset team
- Operations team
- Commercial team
- All Orion employees

External

- Customer and community
- Transpower
- Other electricity distributors
- Consultants

OVERALL OBJECTIVE

- Work collaboratively with others in the long term development of Orion's electricity distribution network taking account of changing customer behaviour enabled by new technologies and how our network oriented operational services will need to evolve
- Meet customer expectations by taking account of the balance between customer price and service including safety, resiliency, reliability and other new customer valued services
- Working closely with other infrastructure teams to understand the impact network planning can have on project deliverability.

Date: _____

Initial: _____
On behalf of Company

Date: _____

Initial: _____
Employee

PRINCIPAL ACCOUNTABILITIES

Team

- Consistently role model Orion's vision and values of connect, create and collaborate and commit to achieving organisational goals
- Actively participate as a member of the Infrastructure Lifecycle team, the wider Infrastructure group and Orion as a whole
- Seek out opportunities for collaboration, continuous learning and improvement
- Contribute to and encourage an environment that allows the team to achieve
- Contribute to and encourage a customer-focused team culture
- Support and back-up other members of the team as required.

Network planning function

- Taking account of emerging technologies and the changing customer landscape; work with others to identify how these will be implemented into the network.
- Provide input and utilise load forecasts developed by the Network Analyst to identify current and future constraints on the network
- Undertake options analysis and propose upgrades and enhancements to the 66kV, 33kV, 11kV and 400V networks to meet our target levels of customer service
- Assist with updating the annual Asset Management Plan
- Provide network planning assistance for customer connections
- Undertake network modelling studies to assess the network impact of distributed generation
- Provide network planning insight toward the enhancement of our design standards including contributing to our safety in design process
- Maintain, update and enhance network load flow models using PSS SINCAL
- Undertake load flow studies and update N-1 and N-2 contingency plans
- Undertake fault study modelling for internal and external customers
- Assist with power quality research to predict potential long term power quality issues and if required contribute to lobbying for changes to power quality regulations and / or standards
- Assist with the development of asset capability information to ensure that data is recorded and made available to real time staff in a robust and traceable way.

Date: _____

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Safety

Set an example for safety leadership by considering personal safety, the safety of colleagues, public safety, environmental and business risks before acting:

- Show a commitment to and comply with Orion's health and safety policies, systems and procedures
- Take all practicable steps to ensure own safety and no cause of harm to others by action or inaction
- Follow all required safety procedures and utilise applicable personal protective equipment
- Identify and report hazards and apply appropriate hazard control measures
- Report all work related accidents, incidents, near misses and illnesses
- Report faulty facilities, plant and equipment immediately.

General

- Carry out specific tasks as directed by the Infrastructure Lifecycle Manager
- In relation to the tasks, ensure compliance with the Electricity Act and Regulations
- Provide engineering expertise as required

DELEGATED AUTHORITY

Financial: \$20,000 operating expenditure

 \$20,000 capital expenditure

People: Nil

Date: _____

Initial: _____
On behalf of Company

Date: _____

Initial: _____
Employee

PERSON SPECIFICATION

Qualifications and experience

- A level 7 electrical engineering qualification or equivalent experience (level 6 will be considered)
- Experience in electricity distribution or transmission planning is required.

Knowledge, skills and abilities

- A sound knowledge of the application of power flow and fault study software (desirable)
- Competent level of computer operation, in particular the use of databases and excel to perform analytical tasks
- An ability to manage project work and an annual cycle of core work while delivering daily tasks (desirable)
- An understanding of network options analysis
- Highly developed written and oral presentation skills
- Excellent interpersonal skills and proven ability to relate to a variety of stakeholders
- A good knowledge of the Electricity Act and Regulations, Health and Safety in Employment Act and Resource Management Act.

Personal attributes

- Team focus
- Always looking for the best outcome
- A strong customer and results focus
- A wish to share your knowledge with others to meet common goals
- Ability to work at a detailed level but retain an eye towards the bigger picture
- Can communicate with all personalities
- Motivation to learn and succeed
- A collaborative approach, sharing and debating ideas

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