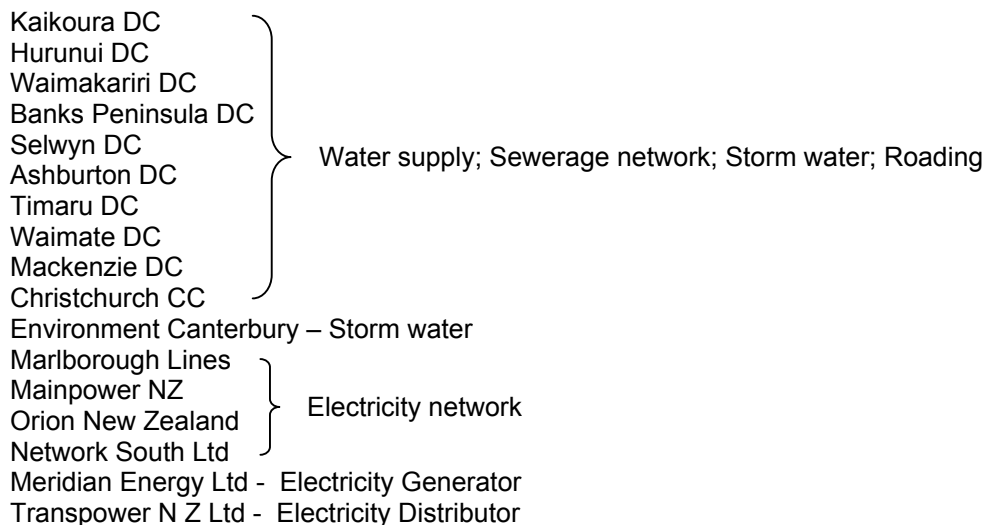


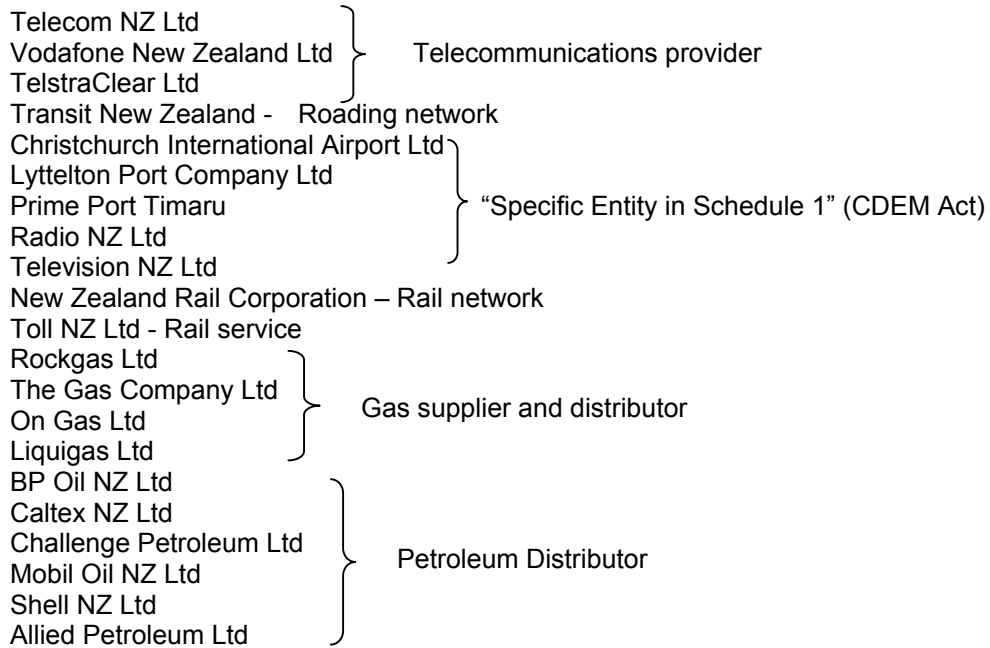
10 Lifeline utilities

10.1 Introduction

- a. Lifeline utilities are required by the CDEM Act s60 to continue to provide their services to the fullest possible extent during and following emergency events. This can only be achieved effectively if providers analyse the potential risks to their operations, undertake mitigation work, and develop plans detailing the tasks to be undertaken during the response to and recovery from the impact of the event. This planning is to be carried out cooperatively with other related and mutually dependent infrastructure providers.
- b. Lifeline utilities Response and Recovery must be carried out in conjunction with the Response and Recovery efforts of all other emergency response agencies.
- c. Lifeline utilities in the CDEM Group area include:
- Radio New Zealand;
 - Television New Zealand;
 - Christchurch International Airport;
 - Port Lyttelton;
 - Prime Port Timaru;
 - Gas suppliers – bulk and retail;
 - Electricity generation and distribution companies;
 - Domestic water suppliers;
 - Waste water/sewerage/storm water network operators;
 - Local and national road network providers;
 - Distributors of petroleum products;
 - Telecommunication network providers;
 - Rail network and service providers.
- d. Canterbury Lifeline Utilities include:



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10.2 Building in resilience – reduction and readiness

- a. The Christchurch Engineering Lifelines Project, for the Christchurch metropolitan area, was completed in 1994 and published in “Risks and Realities” in 1997. This was followed by the formation of the Christchurch Engineering Lifelines Group, which under took an assessment of regional engineering lifelines based on state highway routes in 2001-2002. Since then work has concentrated on territorial authority sub-projects. Work in Christchurch has continued mainly through natural hazard mitigation work.
- b. These projects use a credible scenario-based approach to identify opportunities to build resilience to hazards in infrastructure facilities and networks – through risk reduction, readiness, response and recovery initiatives. Most lifeline utilities have made significant investments in upgrading their facilities and networks to minimise the risk of disruption to their services as a result of hazards – particularly earthquake.

10.3 Canterbury Engineering Lifelines Group

- a. A Canterbury Engineering Lifelines Group was formed in November 2004. It is intended that the Canterbury-wide project will provide an impetus to further enhancing the resilience of the infrastructure that the community depends upon.
- b. Research projects carried out under the auspices of the Canterbury Engineering Lifelines have been funded by the CDEM Group in the past. As have the costs of the Project Manager and administrative overheads. These arrangements will be reviewed within the terms of reference for the Canterbury Engineering Lifelines Group prior to 30 June 2005 (Red04/02).
- c. The proposed objectives (November 2004) of Canterbury Engineering Lifelines Group are to:

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- Identify the vulnerabilities of engineering lifeline utilities, within territorial authorities areas and across the region, to damage from all hazards, with an initial focus on natural hazards.
- Identify practical strategies for reducing the risk or impact of such damage and providing for reinstatement following such events.
- Communicate the importance of these issues to the public and those involved in the management of utilities.
- Encourage the results of the above lifelines work to be reflected in the lifeline utility asset management plans.

10.4 Lifelines utilities response coordination

- a. During an emergency, infrastructure response and recovery efforts may initially be coordinated and directed, if necessary, by the respective CDEM Controller. Lifelines Utility Recovery Task Teams will be established at both territorial authority and CDEM Group levels, to assist in the coordinating potential recovery efforts (section 9 of this Plan). These Task Teams may be based on Engineering Lifelines Groups. The actual membership of Lifelines Utility Recovery Task Teams established during response and/or recovery events will depend on the consequences and needs that the particular events generates.
- b. Priorities for the protection, maintenance and restoration of lifeline utilities will be developed by the Canterbury Engineering Lifelines Group, based on maximum credible event scenario analysis.

10.5 Lifeline utility recovery coordination

- a. Recovery coordination, organised by the appointed CDEM Recovery Manager/Facilitator will be achieved through Recovery Management Committees and task teams. (See Figures 9.1 and 9.2) Affected lifelines providers will be actively involved in recovery coordination through their membership of these Committees and working parties where appropriate.
- d. The Canterbury Engineering Lifelines Group Project Manager may be required to act as the chair of the committee or task teams established to coordinate critical infrastructure/lifelines utilities Recovery planning, communication and activities.