

# SAFER Planning Workshop Report

## Otago CDEM Group Workshop 23 January 2017

### Summary:

This was the second of the six CDEM Group-based workshops planned for the project. The workshop included over 100 participants, with representation of all key stakeholders. Activity for the day was highly interactive and productive, eliciting a significant amount of useful material for the project. Much of the workshop focused on support to the isolated and severely damaged parts of the region, in Queenstown Lakes and Central Otago districts. Most cross-CDEM Group boundary issues were in relation to Queenstown, however potential issues with Canterbury arose in the upper-Waitaki which will warrant further consideration.

The experience provided a problem-solving focus for collaboration and relationship-building amongst key CDEM stakeholders and partner organisations. Several regional and local projects have been initiated as a result of the workshop.

### Venue:

The workshop was held in the Fullwood Room at the Dunedin Town Hall, allowing plenty of room for approximately 120 participants to be divided into the 5 syndicate sets of tables used for the day.

A good quality data projector and large screen were used throughout. Wifi was available to all participants.

Space for morning refreshments, lunch, and rolling afternoon refreshments.

The venue was well-suited to a workshops of this sort, including access to break-out space.

### Programme:

Participants were divided into 7 pre-designated clusters of tables:

- ECC
- Emergency Services
- Health
- Welfare
- Transport Utilities
- Electricity + Telecoms
- 3 Waters
- Coastal TAs
- Inland Otago TAs

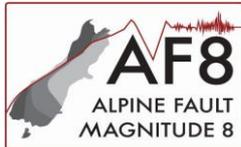
A list of participating organisations is included as Appendix 1.

The programme for the day was adjusted to enable it to immediately follow the first formal meeting of the Otago Lifeline Utilities Group meeting:

1030 – 1100	Workshop Initiation
1100 – 1200	Phase 1. Earthquake + Initial Actions. First 3 hours+
1200 – 1230	Scenario following Initial Action
1230 – 1300	Lunch
1300 – 1330	Alpine Fault Science
1330 – 1430	Phase 2. Planning Next 72 Hours. Day 1 to 3
1430 – 1500	Scenario Update
1500 – 1600	Phase 3. Planning Next 72+ Hours. Day 4 to 7
1600 – 1630	Debrief – Gaps + Opportunities
1630	Workshop Close

The programme went almost exactly to plan. The day was very well received, enthusiastically approached, and productive for all involved. The workshop concluded at exactly 1630 hrs, although the energy in the room was still relatively high at that stage.

More detailed notes taken from syndicate flip-charts are included as Appendix 2.



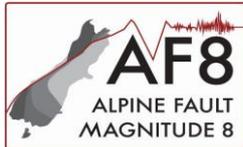
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### **Outcomes Phase 1 – Initial Response.**

The main issues identified for inclusion in future planning:

1. Activation of EOCs with facilities damaged and staff impacted.
2. Establish communications.
3. Staff and family welfare first then response. (Issues for response when applied rigidly?)
4. Triage, treatment, care and evacuation of injured is isolated, heavily damaged areas.
5. Ability of CDEM + Emergency Welfare agencies to support communities and visitors?
  - a. Lack of staff and volunteers
  - b. Current welfare training not providing confidence required
  - c. Resources to support displaced people are inadequate
6. Need to account for and support visitors (Tens of thousands, many displaced from belongings).
7. Well demarcated and advertised safe public earthquake muster points prior to the event and after?
8. Rapid acquisition of shared situational awareness, across all agencies + organisations.
9. Alternative to EMIS to effectively share information, as it is not being used in the region.
10. Reconnaissance pre-planning and coordination particularly in relation to:
  - a. Effective and efficient use of helicopters – Avoidance of duplicate effort
  - b. Ground-based reconnaissance
  - c. Regional and national multi-agency coordination mandate through declaration of state of emergency. (Raised by emergency services)
11. Need for early planning and tasking of reconnaissance of critical infrastructure, given likely areas of vulnerability and impact:
  - a. Land Transport:
    - i. State Highways
    - ii. Local roads according to roads hierarchy
    - iii. Rail
  - b. Air Transport:
    - i. Airports and access conditions and restoration
    - ii. Air traffic control – particularly for control of response aircraft and free-lance rescues or evacuations
    - iii. Aircraft – potential damage to helicopters in hangers
    - iv. Fuel
  - c. Water-based transport:
    - i. Harbours – Impact of quake on coastal + submarine features
    - ii. Port facilities – Wharves + associated loading infrastructure
  - d. Telecommunications + Electricity
    - i. Generators + fuel
    - ii. Priorities for restoration
  - e. Hazards – actual and potential:
    - i. Landslides
    - ii. Landslide dams
    - iii. Flooding
    - iv. Flood protection
12. Lack of electricity + telecoms puts onus on other means of communicating between agencies/organisations and communities.
13. All South Island regions impacted, so Otago and Southland initially on their own.



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### Outcomes Phase 2.

#### **ECC**

1. Processing and analysing situation and response intelligence.
2. Clarifying regional and national coordination and mandate issues as they arise.
3. Advanced planning to meet critical needs – focusing on life-safety, water + food supplies.
4. Assess risk intelligence and plan accordingly.

#### **Inland Otago**

1. Cordons and cordon management in damaged communities, with no plans or resources.
2. Search and rescue, triage and treatment of injured.
3. Generators and fuel.
4. Water supplies, sanitation and portaloos as water and sewage networks are inoperable.
5. Access to air ports, aircraft and fuel for recon, rescue, evacuation and supply.

#### **Coastal Otago**

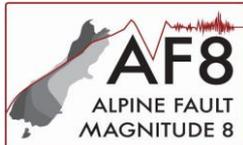
1. Community needs: shelter, water, food.
2. CDC activation and ongoing operation. Potential need to re-site from damaged buildings.
3. Getting information to communities when normal means of communication are down.
4. Domestic and commercial animal welfare becoming an issue.
5. Continual checking of infrastructure as aftershocks continue.
6. Use of drones for reconnaissance?
7. Monitoring and managing locally available resources.
8. Potential need to ration water, food, fuel.

#### **Emergency Welfare**

1. Staff management, development of rosters, shift changes.
2. Activate WCG and all sub-functions.
3. Achieve and maintain thorough and up-to-date community and welfare situational awareness across the region.
4. Planning for receipt of evacuees in Dunedin and Oamaru from impacted areas.

#### **Health**

1. Managing staff and workloads across the region.
2. Intel on hospital status – Buildings and facilities.
3. Decant patients and services to safe environments.
4. Working with lifeline utilities to restore services to hospitals and health services.
5. Identifying and understanding community health needs of all sorts.
6. Distribution and resupply of St John Ambulances caches and field activities.
7. Public messaging: water, sanitation, food safety.



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### Emergency Services

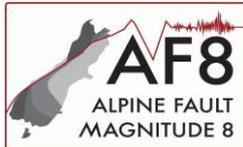
1. Maintaining effective command and control within and across responding organisations.
2. Ensure proper declarations are in place to support mandate to respond effectively.
3. Update agency command, NCCs, and NCMC as regularly as possible.
4. Estimate longevity and future incident behaviour to inform planning and response.

### Lifeline Utilities

1. Should have good initial picture of impacts on infrastructure, access routes, community needs and priorities within first few days to inform planning.
2. Reviewing initial actions plans and developing longer term plans for reconnaissance, alternative services, and service restoration.
3. Repairs will need to continue, taking into account the risk and reality of aftershocks.
4. Route restoration and maintenance will need to be rapidly triaged and prioritised due to the enormity of the task and impact on resources available.
5. Priority will need to be given to action plans for the restoration air, sea and lake port facilities.
6. Development and delivery of consistent and up-to-date public messaging will be crucial to effective lifeline utility response.



Otago Project AF8 Planning Workshop. 23 January 2017



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### **Outcomes Phase 3.**

#### **ECC**

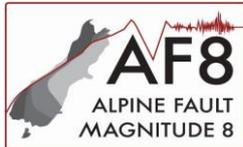
1. Focusing on communication with impacted and isolated communities, local authorities and responding agencies.
2. Engage with mayors to ensure consistent political approaches.
3. Maintain effective collection, analysis and sharing of impact and response information and intelligence.
4. Plan for consequence management, particularly:
  - a. Airports and control of aircraft into and within area of operations.
  - b. Evacuation, management and control.
5. Active opening questions of local responders and communities to ascertain current and future needs.
6. ECC staffing now and further into response.
7. Begin to look to Recovery Management.

#### **Inland Otago**

1. Regular liaison with ECC.
2. Welfare, particularly shelter, of 30,000 visitors and 50,000 residents.
3. Water, sanitation and hygiene.
4. Staffing of CDCs, ICPs and EOC.
5. Evacuation options – getting visitors out and supplies in.
6. Continued reconnaissance and monitoring of risks: landslides, landslide dams, hydro dams, lakes and rivers.
7. Media and VIP management, even if telecommunications are still down they will come and establish their own communications.
8. Prepare to and activate step-up to alternate facilities as initial facilities are assessed as unsafe.

#### **Coastal Otago**

1. Modify response to meet changing needs.
2. Begin planning for de-escalation and return to new business as usual.
3. Initiate detailed building assessment and manage information.
4. Plan to transition to recovery management.
5. Hold daily meetings in all communities.



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## Otago CDEM Group Workshop 23 January 2017

### Emergency Welfare

1. Distribute fresh water and food supplies to communities. (Is this a Welfare function?)
2. Maintenance and escalation/de-escalation of CDCs as response changing situations require.
3. Acquire emergency accommodation for evacuees and temporary housing for displaced.
4. Working with schools and Ministry of Education to re-open schools, establish alternate facilities.
5. Region-wide coordination and support of volunteers.
6. Maintain full and accurate community wellbeing situational awareness and reporting:
  - a. Trends
  - b. Gaps
  - c. Future needs.
7. Management of donated goods and services.
8. Coordinate domestic and commercial animal welfare responses.

### Health

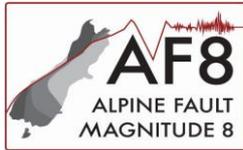
1. Focusing on facilities and internal staffing as field response winds down.
2. Request and manage national and international personnel, teams and resources.
3. Coordinate domestic and international defence health resources.
4. Re-establish full public health surveillance and response.
5. Look to returning to modified business as usual.

### Emergency Services

1. Report up local situation and cascade down national priorities.
2. Establish multi-agency emergency services hubs where facilities are compromised or new services are required.
3. Coordinate emergent volunteers providing assistance to emergency services.

### Lifeline Utilities

1. Focus on getting access to isolated areas – single lane roads and emergency air, sea, lake.
2. Improve resilience of re-opened routes and facilities.
3. Provide analysis and advice on restoration or creation of routes and facilities.
4. Electricity difficult to deliver effective restoration of lines in continued aftershocks.
5. Fuel – Need for customer prioritisation within actual response context.
6. Roothing:
  - a. Bailey bridge and other equipment will need to sourced external to region.
  - b. NZTA support required for reinstatement planning, contract management, and funding.
  - c. Up-to-date operational maps to be made available locally in hard copy and on-line.



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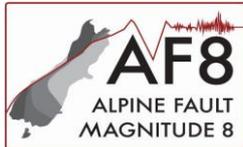
## Otago CDEM Group Workshop 23 January 2017

### Gaps and Opportunities:

1. Building assessment resourcing will need to be significantly enhanced from outside the region.
2. Disaster debris and waste management will need to be planned for – best before quake but also after.
3. Personal preparedness should be given more attention now, using momentum of Project AF8 and recent quakes.
4. Plan for staff demand, rotation and rostering:
  - Will be bigger than South Island and perhaps NZ capabilities and traditional ad-hoc approaches.
  - Private sector should be engaged with now to assist in staffing and logistics management.
5. Need for consideration of the impact of an event of this nature, and response and recovery to it, on what will be a new set of business as usual realities.
6. There should more functional training and exercises in future, rather than full-scale exercises, to hone individual and unit skills.
7. Consideration of involvement of other nations and actors in response, i.e. Chinese extracting nationals from Kaikoura.
8. Need to ensure that capabilities (human and technical) to acquire, analyse, manage, map, and share impact, needs, and response information and intelligence are in place now.



Queenstown Lakes and Central Otago syndicate members planning response.

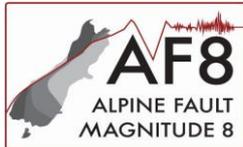


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### **Appendix 1. Organisation Involved in Otago Response Planning Workshop**

Allied Petroleum - Distributor Only	Ministry of Health
NZ Army	Ministry of Social Development
Asure Quality	RNZ Navy
Aurora/Delta	New Zealand Red Cross
CDEM Canterbury	Nova Energy
Central Otago District Council	NZ Fire Service
Chorus	NZ Police
Christchurch City Council	NZDF Army
Clutha District Council	NZDF - Navy
Contact energy	NZTA
CYFS	ORC
DOC	Otago Regional Council
Dunedin Airport	Queenstown Lakes District Council
Dunedin City Council	Real Journeys
Education NZ	Risk Reduction Project Consultant
Electrix	Signals NZ
EM Southland	Southern District Health Board
Emergency Mgt Otago	SPCA
Emergency Mgt Southland	St John Ambulance
Fulton Hogan	Te Puni Kokori
Fulton Hogan - Central Otago	Tourism Wanaka
Geo SolveTech Engineering	Transpower
GNS Science	University of Canterbury
Harbour Masters	University of Otago
HeliContrax Ltd	Vodafone
I-Site Dunedin	Vodafone
Kiwi Rail	Volunteering Otago
LINZ	Waimate District Council
Malborough District Council	Waitaki District Council
MCDEM	Wanaka Airport
Meridian Energy	



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## Appendix 2. Notes from Otago AF8 Workshops

### Inland Otago

#### **Main Issues and priorities hours 1 -3**

- ? Injuries
- ? EOC
- ? Evacuations
- ? Lifelines – Fuel – in or out of area
- Access??? – Bridges - Roads
- Buildings
- Operations – Emergency Services Coordination
- What resources do we have?

#### **Priorities**

- Establish communications
- Where going to have EOC from

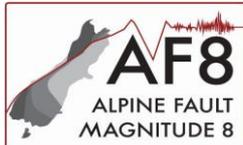
#### **Six hours on**

##### **Reconnaissance**

- what is the extent of damage etc?
- collapsed buildings
- Search and rescue
- Slips – Roads, Lakes, Bridges
- Preservation of life
- Public awareness
- Isolation – how to deal with
- Cordons
- Triage/helvac
- Welfare – Local communities
- Visitor evacuations – temporary housing
- Temporary housing – residents
- Power
- Hygiene
- Supplies

##### **Resources**

- Staff
- Fuel
- Security
- Water
- Power liaison
- Alternatives – Wanaka/Alexandra Airports
- Food
- Sanitation – Portaloos etc
- Use of aviation radios



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### Key factors

- Displaced visitors
- Environment
- Air Response
- Medical response
- Search and rescue
- Shelter
- Infrastructure
- Risk
- Responders
- After shocks
- Intelligence
- Control
- Communications – internal
- Threat to life
- Emergency services
- Lifelines Intel
- Risk Assessment
- Public information

### Day 3 on

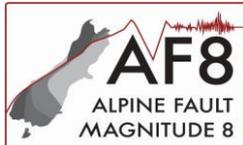
- Welfare and Shelter
- Emergency precincts – new buildings, five mile, 3 parks
- Hygiene – Food, water, sanitation, toilets, rubbish
- Health medical support
- Evacuation options – operational
- Continued evaluations/ monitoring risks
- Communications
- Media management / VIPS
- Resourcing requirements

### Emergency Services

#### Health

##### First 3 hours

- Set up of EOCs (Invercargill, Dunedin, Queenstown)
- Liaison to CDEM ECC/EOC – Runner
- Intel on Hospital status – Building and Property
- Decant to safe environment
- Vulnerable population checklist
- Staff workforce (families)
- Incident action plan – look forward planning - Logistics - Shift changes
- Communication through CD/Radio



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### **6 hours on**

- Continue EOC – Staff changes
- Set up community based casualty clearing points (St John)
- DHB Lifelines
- Rural/Hospital/Hospice/Private/ARCs infrastructures
- Communication and coordination of primary care/welfare
- Resource prioritisation inc. Staff
- Public health messaging

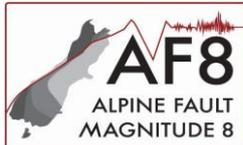
### **Day 3 on**

- Internal ongoing rostering – Health EMIS
- National staffing requests (MOH – International)
- Prioritising services – self-sufficient for 72 hours
- Surveillance through Primary Care
- Psychosocial
- Vulnerable population – needs assessments
- Planning to return to BAU
- Diverting electives
- Defence field surgery team (Palmerston north)
- Mortuary
- 30 Medics – HMNZS Canterbury
- EH and Dental

### **Police, Fire, Amb**

#### **First 3 hours**

- What coms are working? What options are there?
- Are stations/buildings fit for purpose
- What resources are needed
- What vehicles
- What staffing is available/needed
- Situational awareness back from local stations, aerial intelligence
- Make notifications to relevant national command centres
- Activate regional command centres or have one in nearby region
- Call out of additional personnel
- Liaison to CDEM
- Response prioritised
- Coordinate resources between organisations not operate in silos
- Let the locals deal with their environment as they find it
- Set up a structure to manage the event long term



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## Otago CDEM Group Workshop 23 January 2017

### **Days 1 to 3**

- Legitimacy and support
- Command and control – ensure declarations are made
- Communications and Intelligence – on going situational awareness

### **Strategic planning**

- Shift changes
- Welfare of personnel
- Resourcing
- USAR involvement
- Equipment caches
- Updates to NCC/NCMC etc
- Political awareness
- Working on longevity of incident
- Sustainable planning

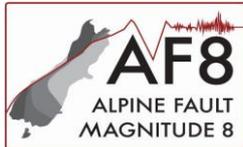
### **Day 3 on**

- Welfare – sustainability nad commitment
- Rotation of volunteer base
- Support as required (CIPSS)
- Emergency service hubs set up – info sharing
- Communications
- NMC – Priorities
- Resources
- Developing plans for recovery phase
- Plan for transition.
- Set up of EOCs (Invercargill, Dunedin, Queenstown)
- Liaison to CDEM ECC/EOC – Runner
- Intel on Hospital status – Building and Property

### **Coastal Otago**

#### **First 3 hours**

- Initiate EOC Planned response
- Radio Communications
- Social Media
- Resilience if people unavailable/ resources
- Initial individual utility response i.e. water
- EOC team leading coordination of various interest groups
- Assessment of damage
- Isolated communities relying on community response plans
- Further hazards – tsunami etc (information out and a consistent message)
- Coms – Radio and social media
- Knowledge of unforeseen groups that may be present i.e. cruise ships
- Potential areas of greater damage



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- Starting assessment of key infrastructure and facilities as per prior documented plan by EOC i.e. Aerial reconnaissance by DCC Drone
- CBD issues – community identified muster point – Not the octagon!!

### **6-12 hours on**

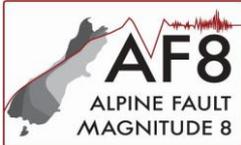
- Continue initial response
- Plan for next 3 days including
- Check infrastructure road access and bridges
- Prioritise plans based on reconnaissance
- Monitor personnel and ensure rotation
- Ration water, food, fuel
- Community outreach – widen bases to them
- Media contacts inform of needs and information
- Start plan and plans for visitors/tourists
- Mobilise from less affected areas to support worse
- Plan and monitor for concurrent event, weather, tsunami, aftershocks
- Additional reconnaissance and prioritise as needed
- Start to consider larger planning site of long term offices etc.

### **Community needs**

- Basics
- Shelter for warmth
- Washing, drinking, sanitation
- Utility services
- Medical centres, hospital
- Establish muster points for dishomed – welfare centres
- Schools to initiate plans for family pick ups
- Information dissemination
- Utilise communication opportunities such as university, hospital
- Animal welfare issues

### **Day 3 on**

- Plans of first 72 hours being implemented – check progress, redesign as needed
- Communications – use of existing communication services
- Define Business as Usual end for each service – reaching 100% ?? – use this to plan what needs to be done to get there
- Ensure resources are being relocated to areas where needed
- Detailed engineering assessments/reviews
- Consider building services input
- Demolition planning
- Discussion with other funding agencies
- Maintaining and refreshing sit reps and plans
- Maintain regular communication within the EOC. i.e. 9am managers meetings and public awareness meetings daily.
- Start working towards recovery phase



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### Welfare

#### *First 3 hours*

#### **Main Issue**

- No coms
- Who will turn up to EOC/ECC

#### **Priority**

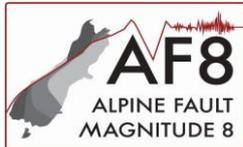
- Individual safety first and family
- Individual plans

Identifying that 30,000 approx are expected to be evacuated to Dunedin

- Shelter
- Food
- Medical

#### **Priority**

- identify 2 accommodation locations in Central – Wanaka and Cromwell
- Welfare Coordinating Sub Functions      Registrations  
   Shelter
- Provision of fresh water – Establish drinking water
- Provision of food supplies – Identify food supply issues
- Need assessments – activate team
- Good sit rep updates
- Forecast ahead – plans going forward
- Sanitation – toilets
- Ongoing needs assessments – welfare centres opened with lead agencies on site
- Transitioning from emergency accommodation to temporary
- Coordination of volunteers
- Animal Welfare      Farm (MPI), Fed F, Rural Support, Dairy NZ  
   Companion
- Accurate Sit Reps from all authorities and ascending to central
- Trends and gaps from communities
- Coordination of donations - discourage



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### Lifelines

#### **First 3 hours**

- Assign someone to monitor and track staff and their welfare
- Determine immediate resources

#### **Electricity:**

- Condition assessment of generator's and transmission
- Establish communications, Satellite phones
- Obtain transport, helicopter's, boats and vehicles
- Access base loading for black starting the system, NZAS

#### **Fuel:**

- Establish available tanker numbers
- Access condition of fuel loading infrastructure
- NZTA roading condition required
- Portable refuelling equipment available

#### **Telco**

- Fibre Condition assessment remotely via SCADA system
- Obtain transport, helicopter's, vehicles, roading condition dependant
- Planning for emergency generator refuelling

#### **Airport**

- Safety of staff
- Check buildings stability
- Check key infrastructure – Drinking Water, Storm water, Sewage
- Check runways – Engineering support ex DUD or CHC
- Check ATC
- Check generator fuel supply

#### **Road/Rail/Water**

- Safety & welfare of staff/contractors especially those not on site and check on their families
- Use sat phones and radios
- Touching base physically where possible
- Make sure home is ok for all then start planning
- Is there any tsunami risk?

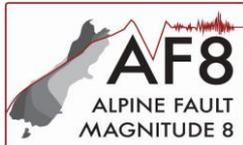
#### **6 – 12 hours**

#### **Electricity**

- Land slide risk – begin lowering lakes with small freeboard
- Action and contingency planning
- Continue with condition assessments

#### **Fuel**

- Obtain routes via road to determine possible fueling options
- Condition assessments of underground tanks, pumping out as required, or as accessed



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### Telco

- Establish mapping of areas covered by operational com's
- Re-fueling of emergency generator's due to power still out

### Dunedin Airport

Take stock of supplies on site

- Fuel 3-5 days
- Water 3-5 days
- Food 3-5 days

Operational capabilities

- Runways
- Tower
- Apron
- Roading network to and from airport
- Contractor mobilisation for repairs

Make contact with

- ZQN (Queenstown)
- IVC (Invercargill)
- WKN (Wanaka)
- ALX (Alexandra)

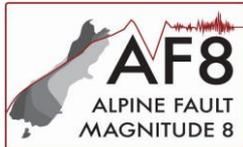
### Road/Rail water

#### Gather intelligence around vulnerabilities (Priority)

- Bridge abutments?
- Vulnerable slopes
- Vulnerable structures
- SH88
- Cruise ships
- Airports
- Port facilities and harbour basin
- Key routes around region
- Establish communications with CDEM and other lifeline providers
- Activate Business Continuity Plan
- Start CIMS structure
- Utilise own communications channels
- Port – Assess and get functioning to receive vessels to support transfer of aid, people, freight, and support recovery.
- Harbour basin – Assess changes to depth, functionality

#### Priorities

- Continue to work towards restoration of full network connectivity
- Political decision on which routes to be prioritised/where resources are allocated
- Start prepping post incident recovery plans – Scope, Cost, Investigations, Procurement



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- Ongoing scope and structure assessment
- Communications every 3 hours via press releases
- Social media
- Websites
- Print

### **NZTA (more detail)**

- Incident Action Plan days 1 – 3
- Communications – Media, Ministry, Regional NZTA, CDEM
- Assess (aerial) and triage key routes
- Decide on action in conjunction with other agencies
- Evaluate resources available and needs

### **Objectives**

- Scope and nature of problem – communicate with NZTA on regional priorities
- Work to clear key routes – SH88 - Port to Dunedin, SH86 Dunedin to Airport, SH1 to Palmerston onwards to Waitaki, SH 85 to Alexandra
- Identify slips, abutments, and structures 1<sup>st</sup> then cracks, ramps, breakdown of surfaces
- Temporary speed limits in action
- Barriers where needed/

### **Contractors**

Availability of:

- Persons qualified to drive certain plant/and generic labour
- Plant
- Transport
- Shelter – Portacombs/site offices/containers

### **Key items for Lifelines**

- Health and safety of staff working during aftershocks
- Prioritise responses across all Lifelines, Civil defence priorities
- CIM's CD structure known by Lifelines

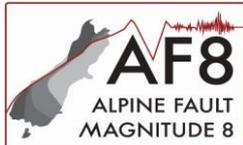
### **Day 3 on**

#### **Electricity**

- Re-inspections of Generation and transmission due to large aftershocks
- Establish staff shifts for future resourcing
- Monitor lake levels and flood planning due to increased inflows
- Transmission faults not fixed at this point will be long term repairs
- Fueling of emergency generators at Power station sites
- External resources for within the industry may be available from this point

#### **Fuel**

- Take guidance from Civil defence of refuelling priorities
- Possible Timaru and Dunedin port loading option available
- Manage available resources



# SAFER Planning Workshop Report

## Otago CDEM Group Workshop 23 January 2017

### Telco

- Will require fuel for emergency generators
- Staff welfare and resource planning
- Customer prioritisation
- Consolidation of spares, food and cash
- Staff accommodation at remote sites

### Airport

- Continued repairs
- Working towards BAU
- Continual monitoring of roading network

### Road/Rail water

- Continue to work towards full restoration of network connectivity.

### General considerations for advance planning and initial response from multiple tables notes.

- Risks of looting – protecting assets
- Dam threats/pond threats to existing water courses
- Disorientated/panicked drivers on highways
- Public safety management overall
- Plant sustainability
- Regional and local fuel plans - Individual organisational fuel plans are critical
- Call out plans for staff in all agencies/organisations
- Food and water management plan
- Management of social media coordinated and professional from initial event onwards
- Be credible in public messaging/keep public informed as reduces pressure on other communication channels
- Prioritise resources – interagency and regionally
- Good logistics coordination
- Plan for worse case, hope for best