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## **MAJOR INCIDENT & CATASTROPHE RESPONSE BULLETIN**

Event: **EARTHQUAKE in CHILE**

Date: **04 March 2010**

Status: **Update advice (Bulletin No 3)**

The CSL Major Incident Response Team, which co-ordinates the professional response to large and multiple marine loss incidents is receiving new on-the-ground intelligence following the earthquake which occurred in Chile on Saturday 27<sup>th</sup> February, 2010.

**Latest advice** from the CSL office in Santiago and local field operations as at the 4th March 2010 is as follows:

### **Ports & Airports- current status report:**

- **San Antonio** (Port): All piers are under evaluation due to structural damages. TEM terminal has only one pier operative and all piers are being evaluated at the STI terminal. One of five dock side cranes in the port has sustained contact damage as a result of being hit by a vessel that had broken from its moorings following the earthquake and subsequent large waves. There is no further detailed information regarding the port equipment at time of this report.
- **Panul bulk terminal** (Port): One crane has collapsed and fallen into the sea at the bulk handling terminal situated in San Antonio bay.
- **Valparaíso** (Port): All port gantry and mobile cranes are 100% operative, same as the rest of the port equipment such as stacker cranes, fork lift trucks and others. The only part of the port not operative is pier N<sup>o</sup> 3 that has suffered structural damage with surface cracks of 40cm width. This pier is under evaluation. All other piers operating with no restrictions
- **Talcahuano** (Port): The port is severely damaged and remains closed. Local news reports are portraying very significant damage to the port area and surrounding infrastructure, and also stating that the port area has collapsed to sea level. Over 30 local fishing vessels have sunk and many more have been beached.

A number of vessels were located in the naval dockyard facility at the time of the earthquake including two commercial cargo vessels "M.V.Laurel" and "M.V. Viña del Mar", an oceanographic survey ship, a submarine and a number of navy frigates.

- **San Vicente** (Port): At the time of this report, no additional official information has been received. The port is severely damaged.
- **ENAP Terminal** (Jetty and Oil refinery): remains inoperative.
- **CAP Terminal** (Jetty used for bulk cargo): reported undamaged and operative.
- **Quintero** (LNG Terminal): Cargo operations remain suspended pending repairs to the unloading arm.

- **Concepción (Airport):** Operative with restrictions. Currently open to special flights only.
- **Santiago (Airport):** Domestic flights are resuming with pre existing reservations for the period 27 February to 03 March being given priority / cleared prior to new reservations being accepted.

**FAQ - Recap of key consideration factors:** Many queries have been received regarding the nature and severity of damages away from the central earthquake zone. A key point of consideration is the length of the earthquake tremor and the broad geographical severity. The earthquake lasted for approximately 3 minutes with magnitude of 8.8 at the epicentre. Within a 350 mile radius of the epicentre (including the major ports of Valparaiso and San Antonio and the capital city, Santiago), the earthquake still maintained a magnitude of 7.5 to 7.8 on the Richter scale. Many warehouses and a range of transportation and cargo handling equipment have been impacted over a large area. This series of bulletins has already reported damage to LNG unloading equipment nearly 400 miles from the epicentre.

**Ongoing intelligence reports:** As the communication network is increasingly restored, the CSL network in Chile is submitting a rapidly escalating number of marine risk intelligence reports. As a result of widespread requests for further update advices, this 3<sup>rd</sup> bulletin has been prepared for global market distribution.

If you would like to receive further marine risk intelligence reports from Chile, please e-mail: [responseteam@cslglobal.com](mailto:responseteam@cslglobal.com)

**CSL Chile** is an established and respected operation with dedicated local marine resources ready to support our clients' surveying and adjusting requirements. Working with our local partners, our Regional Director, Jorge Viñuela, has a team of over 30 marine specialists including Master Mariners, nautical engineers and naval architects available to respond to this major incident. Our partner office in Talcahuano is staffed by three experienced marine surveyors.

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