



Critical Contingency Operator
2013 Test Exercise Report

“EXERCISE TAWIRI”

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Acknowledgement

The success of the exercise was directly attributable to the time and effort contributed by the participants during the planning, execution and feedback phases. These contributions are recognised and appreciated and have assisted in identifying valuable improvement opportunities.



1. Introduction

1.1 Regulatory Requirements

The critical contingency operator (CCO) must instigate exercises in accordance with r34(1) of the Gas Governance (Critical Contingency Management) Regulations 2008 to test the following:

- That critical contingency management plans (CCMPs) comply with r25 and give effect to the purpose of the regulations:- *"The purpose of the regulations is to achieve the effective management of critical gas outages and other security of supply contingencies without compromising long-term security of supply."*
- That contact details included in CCMPs in accordance with r25 are current.
- That the list of emergency contact details maintained by Retailers in accordance with r43 is current.

In accordance with r34(4) a test exercise must be instigated by the CCO at least once every 12 months, except if there has been a critical contingency within that 12-month period and the performance report produced in accordance with r65 confirms that the CCMP meets the requirements described in r34(1). Participation in a CDEM training exercise that tests the matters in r34(1) would be classed as a test exercise.

The CCO consulted with the transmission system owners (TSOs) about the test exercise in accordance with r34(1). TSOs, interconnected parties, shippers, retailers, and large consumers were reasonably requested by the CCO to participate in the exercise in accordance with r34(2). Feedback on the exercise was invited from all participating parties.

TSOs may prepare proposed amendments to CCMPs in accordance with r34(6). Unless the amendments are immaterial, TSOs must consult and submit proposed amendments to the Gas Industry Company (GIC) in accordance with r26-30.

1.2 Exercise Scenario

The exercise was based on the scenario where a M7.5 sub-sea earthquake in the Tasman Sea led to all of the offshore pipelines supplying gas production stations at Kupe, Oaonui and Pohokura being shut down for integrity checks, indicated loss 72 hours.

An interject script was developed jointly by the CCO and the TSOs to give a realistic feel and to provide full opportunity to test the various identified aspects of critical contingency processes and TSO emergency response plans.

1.3 Exercise Reporting

TSOs must provide a report to the CCO within 10 business days of completing a test exercise in accordance with r34(5).

Schedule 2 of the SPACCO, as amended by letter dated 22 October 2010, requires the CCO to prepare and provide a report to GIC within 10 business days of receiving test exercise reports from the TSOs as required by r34(5).



During the exercise the CCO placed observers in the CCO office and the TSOs gas operations control centre (GOCC). The observations and recommendations in this report are based on the following information.

- reports received from observers
- feedback and notes from exercise participants
- TSOs exercise report
- joint CCO/TSO exercise debriefing meeting

All issues raised within feedback and reports have been considered by the manager, CCO and are included in the report where considered significant. The report is structured to correspond with the test elements identified in the participants briefing document published prior to the exercise.

1.4 TSO Exercise Report

The TSO exercise report provided to the CCO considers that the current Vector and MDL CCMPs comply with r25, and when implemented during the test exercise it gave effect to the purpose of the Regulations. The report did not highlight any areas requiring improvement.



1.5 Executive Summary

The CCO considers that the regulations, the key documents (Information Guide, Communications Plans and Critical Contingency Management Plans), supporting processes and deployed communications worked well together, achieved the purpose of the regulations and demonstrated compliance.

Regulation 34(1)(a) – ***“That CCMPs comply with r25 and give effect to the purpose of the regulations.”*** The CCO considers that the Vector and MDL CCMP’s are compliant.

Regulation 34(1)(b) – ***“That contact details included in CCMPs in accordance with r25 are current.”*** The CCO considers that the Vector and MDL CCMP’s are compliant.

Regulation 34(1)(c) – ***“That the list of emergency contact details maintained by retailers in accordance with r43 is current.”*** The CCO considers that retailers lists are compliant based on the three retailer feedback response forms received.

The exercise also identified one action to be investigated and rectified. During the exercise the CCO sent the TSO OATIS notice on their behalf as per CCMP and communication plans. The OATIS system initiates an email and text message notice, during the exercise this function was tested and reviewed. The email notice was initiated successfully but the text messaging system failed to send. The review and planned follow up test by the TSO’s are detailed in 4.2.



2. Pre Test Exercise Audit of TSO by CCO

The pre test exercise elements were audited prior to the exercise by holding a pre-arranged interview with Vector gas operations manager & MDL technical operator). Item 2.4 was audited by inspecting the up to date contact lists contained within Vector and MDL OATIS systems by the TSO's.

Item	Element	Ref	Description
2.1	Thresholds limits are appropriate and set in accordance with Schedule 1.	R25(1)(a)	Check contents of CCMP are still representative of way the system operates and that any changes have been considered and appropriate amendments proposed or made. Check that SCADA alarms set for the defined locations for the measurement of pressure and approach time are set up and operating correctly.
Observations & Recommendations All contents of the Vector and MDL CCMPs were found to be up to date. SCADA alarms were found to be correctly set.			

Item	Element	Ref	Description
2.2	The descriptions of the events that the TSO considers may feasibly result in a breach of a threshold are complete, valid and up to date.	R25(1)(b)	Check contents of CCMP are still representative of way the system operates and that any changes (including recommendations arising from prior exercises or actual CC events) have been considered and appropriate amendments proposed or made.
Observations & Recommendations All contents of the Vector and MDL CCMPs were found to be up to date.			

Item	Element	Ref	Description
2.3	The actions that the TSO considers it may feasibly take to remedy any breach of a threshold are complete, valid and up to date.	R25(1)(c)	Check contents of CCMP are still representative of way the system operates and that any changes have been considered and appropriate amendments proposed or made.
Observations & Recommendations All contents of the Vector and MDL CCMPs were found to be up to date.			

Item	Element	Ref	Description
2.4	The contact details for potentially affected Industry Participants are valid, up to date and complete.	R25(1)(i)	Check TSO OATIS details are fully populated in relevant fields.
Observations & Recommendations Contact details of Vector and MDL held for each listed organisation customer followed company protocol.			



3. CCO Test Exercise Elements

Item	Element	Ref	Description
3.1	CCO process for determining and declaring critical contingency.	CCO-003 CCO-006 R48 R49 R51	Observe how the CCO makes these decisions and acts accordingly.

Observations & Recommendations

At 08:05 Interject to gas control – A M7.5 sub-sea earthquake in the Tasman Sea led to all of the offshore pipelines supplying gas production stations at Kupe, Oaonui and Pohokura being shut down for integrity checks, indicated loss 72 hours.

At 08:06 the CCO duty manager received a call from the duty gas operations controller giving information about the scenario – *"An earthquake has occurred off the East coast"*

At 08:10 the TSO duty manager declared an emergency and became the emergency controller (EC) and contacts CCO duty manager.

At 08:15 the manager, CCO commences telephone contact with Transpower and Generators informing them of the event and advised that gas supplies to the thermal power generation plants would be affected. A conference call set up for 08:45 to discuss the electrical network.

At 08:27 the manager, CCO contacts large consumers informing them of the event and to be prepared for a Critical Contingency and Curtailment notices within the next two hours.

At 08:37 the manager, CCO and the EC met to discuss the situation. The manager, CCO was advised by the EC that it is estimated that it will take less than 12 hours to reach the threshold value of 37 barg.

At 08:45 conference call participated by the manager, CCO, Transpower and thermal power generation plants. Event information discussed and time line for integrity checks confirmed at 72 hours. Manager, CCO indicated that 75% of supplying gas now unavailable and to be prepared for a Critical Contingency and Curtailment notices within the next two hours. Transpower and generators discussed available plans and network security.

At 08:57 the manager, CCO made a determination that there was a Critical Contingency and advised the EC that a critical contingency would now be declared. Manager, CCO and EC reviewed notice wording prior to publishing.

At 09:01 the manager, CCO published OATIS notice #15876 giving notice of declaration of a critical contingency. This was followed by issuing notice by email and SMS text alert.

At 09:10 the manager, CCO updated the 0800 telephone number message accordingly, declaration of a critical contingency.

At 09:10 the manager, CCO was advised by the EC that it is estimated that it will take approximately 2.5 hours to reach the threshold value of 37 barg.

The manager, CCO determined and declared the critical contingency in accordance with the regulations, the service provider agreement and published processes.

Item	Element	Ref	Description
3.2	Protocol used by CCO to issue notices during a critical contingency.	CCO-003 CCO-006 R53 R59	Observe how the CCO manages the issue of notices in accordance with information guide and communications plan.

Observations & Recommendations

A summary of all the notices issued by the manager, CCO is included in Appendix 1. Copies of the notices issued by the manager, CCO are included in appendix 2. Notices were given in accordance with regulations and processes described in the CCO information guide and



communications plan. Prior to notices being issued the manager, CCO consulted with the TSO's to agree the wording.

The manager, CCO issued notices during the critical contingency in accordance with the regulations, the service provider agreement and published processes.

Item	Element	Ref	Description
3.3	The processes for demand curtailment and restoration are consistent with CCO requirements and the objectives of Schedule 2.	CCO-003 CCO-006	CCO curtailment and restoration processes, procedures and communications operate effectively and in the correct order.

Observations & Recommendations

At 08:37 the manager, CCO and EC met to discuss the situation. The EC advised It will take less than 12 hours to reach the threshold value of 37 barg, integrity checks confirmed at 72 hours.

At 09:07 the manager, CCO and EC met to discuss updated pipeline survival time and modelling calculations. The modelling indicated 2.5 hours to threshold limits which was lower than the earlier estimation given by the EC. It was agreed that curtailments were necessary. It was agreed that bands 0, 1A, and 1B should be curtailed in the first instance but that this should be reviewed when more details about the site situation were known.

At 09:30 the manager, CCO published OATIS notice #15877 giving directions to curtail all demands in bands 0, 1A, and 1B fully or to MLC profiles by 10:30. This was followed by issuing the notice by email and by SMS text alert. The manager, CCO updated the 0800 telephone number message accordingly.

At 09:43 the manager, CCO attends gas control to discuss curtailment notice and check for updates. Modelling update requested by manager, CCO for 10:00.

At 09:52 the manager, CCO and EC met to discuss the situation and the need for further curtailments as the integrity checks confirmed at 72 hours.

At 10:21 the manager, CCO published OATIS notice #15880 giving directions to also curtail demand bands 2 and 3 fully from 11:30. This was followed by issuing the notice by email at and by SMS text alert. The CCO updated the 0800 telephone number message accordingly.

At 10:34 the manager, CCO published a status update notice #15881 on OATIS giving more details about the situation.

At 10:40 the manager, CCO and EC discuss the status of the situation and the EC advises the manager, CCO that the revised demand curtailment indicates a survival time of up to 72 hours.

At 11:50 the manager, CCO and EC met to discuss the event, update indicate that no major damage has been found with recommissioning expected within the next few hours. It was agreed that restoration notices could be issued to all affected bands commencing with bands 2 and 3 within the next few hours.

At 12:21 the manager, CCO published a further status update notice #15887 on OATIS giving more details about the situation.

At 13:09 the manager, CCO published OATIS notice #15888 giving Direction to Restore Demand to bands 2 and 3 consumers could be restored fully from 13:30. This was followed by issuing the notice by email at and by SMS text alert. The CCO updated the 0800 telephone number message accordingly.

At 13:59 the manager, CCO published OATIS notice #15890 giving a further Direction to Restore Demand to bands 0, 1A and 1B consumers could be restored by 14:30. This was followed by issuing the notice by email at and by SMS text alert. The CCO updated the 0800 telephone number message accordingly.



The CCO directed demand curtailment and restoration during the critical contingency in accordance with the regulations, the service provider agreement and published processes. The wording on all CCO notices was discussed and/or agreed with the EC prior to the notices being issued.

Item	Element	Ref	Description
3.4	CCO processes for termination of critical contingency.	CCO-003 CCO-006 R60 R61 R62	Observe how the CCO makes these decisions and acts accordingly.

Observations & Recommendations

Restoration of demand was made available to all curtailed consumers bands 2 and 3 consumers could be restored fully from 13:30 and bands 0, 1A and 1B consumers could be restored by 14:30 following pipeline conditions returning to normal operational levels.

The manager, CCO determined that the critical contingency could be terminated at 14:30 as the transmission system was now capable of supplying gas to all consumers at the level at which gas was supplied immediately before the event.

At 14:38 the manager, CCO published OATIS notice #15891 giving notice of termination of the critical contingency. This was followed by email notification and by SMS text alert. The CCO updated the 0800 telephone number message accordingly.

The CCO terminated the critical contingency in accordance with the regulations, the service provider agreement and published processes.

Item	Element	Ref	Description
3.5	CCO demand modelling systems operate as expected and provide consistent results.	CCO-010	Observe how the demand modelling system is understood and used by CCO personnel and how results are used to inform curtailment and restoration decisions.

Observations & Recommendations

The manager, CCO demand modelling system was not planned to be used, TSO modelling was completed to provide CCO timelines. The SCADA data was downloaded on request.

The manager, CCO did not carry out any demand modelling during the exercise so it was not possible to compare results.



4. TSO Test Exercise Elements

Item	Element	Ref	Description
4.1	Protocol for informing CCO of a potential Critical Contingency is valid and up to date.	CCMPs R25(1)(k)	Monitor TSO protocols and communications between CCO and TSOs during test exercise.
<p>Observations & Recommendations</p> <p>The first exercise interject was given at 08:05 to the duty gas operations controller.</p> <p>At 08:06 the CCO duty manager received a phone call from the duty gas operations controller giving details about the event. The CCO duty manager received written confirmation of this phone call by email from GOCC at 08:19.</p> <p>At 08:10 the duty gas operations controller notified the TSO duty manager about the incident.</p> <p>At 08:10 the TSO duty manager declared an emergency and became the emergency controller (EC) and contacts CCO duty manager.</p> <p>At 08:37 the manager, CCO and the EC met to discuss the situation. The manager, CCO was advised by the EC that it is estimated that it will take less than 12 hours to reach the threshold value of 37 barg.</p> <p>The communications from the EC prior to the Critical Contingency being declared were consistent with the processes described in the TSO's CCMP.</p>			

Item	Element	Ref	Description
4.2	The processes for demand curtailment and restoration are consistent with CCO requirements and the objectives of Schedule 2.	CCMPs R25(1)(d) R54	Monitor TSO curtailment and restoration processes, procedures and communications during the exercise operate effectively and in the correct order.
<p>Observations & Recommendations</p> <p>A summary of the notices issued by the manager, CCO on behalf of the TSOs are included in appendix 1. Copies of the notices issued are included in appendix 2.</p> <p>The OATIS system initiates an email and text message notice, during the exercise this function was tested and reviewed. It was noted after the exercise that stakeholders received the TSO email alerts but the text messaging system failed to send.</p> <p>The OATIS system architecture was investigated and an update completed. A follow up test message using the CCO OATIS function was successfully completed on 08 April. No further recommendations required.</p> <p>The manager, CCO issued demand curtailment and restoration notices on behalf of the TSO's in accordance with the regulations and the CCMPs.</p>			

Item	Element	Ref	Description
4.3	The effectiveness and validity of the CCMP communications plan.	CCMPs R25(1)(e)	Observe how all communications issued under the CCMP are made and how they reflect the situation. Check for understanding, completeness and validity.
<p>Observations & Recommendations</p> <p>The manager, CCO issued all TSO notices on their behalf as per the updated CCMP and Communication Plan. Copies of the notices issued are included in appendix 2 for CCO, Vector and MDL.</p> <p>All notices were published as critical notices in OATIS. The process, content and timing of notices and communications was consistent with the regulations and the CCMPs.</p>			



Item	Element	Ref	Description
4.4	The suitability of TSO arrangements to provide suitably qualified persons and their contact details for giving/receiving communications to the CCO and giving directions in accordance with the CCMP.	R25(1)(f)	Observe how the TSO manages the exercise and allocates people into specific roles. Monitor how communications to/from the CCO are given and received and actions taken.

Observations & Recommendations

Vector and MDL operates a 24/7 gas operations control centre (GOCC) that is manned by an experienced and qualified duty gas operations controller at all times. A second gas operations controller is also on roster for normal office hours to support operations and carry out day-to-day tasks and liaison. The duty gas operations controller is normally the first point of contact for information regarding an event on the transmission system that may result in a critical contingency. Adequate processes, procedures, check sheets and training are in place for gas operations controllers to manage communications with the CCO in accordance with the CCMPs.

Vector and MDL also operate a roster to make available a duty manager from a pool of senior experienced managers based in Taranaki on a 24/7 basis. The duty manager will normally assume the role of emergency controller when an emergency or critical contingency occurs on the transmission system. The duty gas operations controller informs the duty manager immediately if they believe an event has the potential to cause a critical contingency. The duty manager then becomes responsible for direct communication with the CCO. Adequate processes, procedures, check sheets and training are in place for duty managers to manage communications with the CCO in accordance with the CCMPs.

At 08:10 the TSO duty manager declared an emergency and became the emergency controller (EC) and contacts CCO duty manager and activated the emergency response plan. Satisfactory resources and expertise were available to manage the emergency. Preparedness for the type of scenario used for the exercise is identified in the TSO's CCMP - likely events that may cause threshold breaches and remedy actions. It was evident during the exercise that TSO's had adequate plans, materials and equipment available. These processes operated successfully during the exercise.

Item	Element	Ref	Description
4.5	The effectiveness and suitability of arrangements to determine and direct the restoration of gas supply in an order different to that set out in the curtailment arrangements.	CCMPs R25(1)(g)	Observe how the TSO considers and applies these processes and procedures where applicable.

Observations & Recommendations

This element was not tested during the exercise as the need to restore demand in a different order was not required.

Item	Element	Ref	Description
4.6	Processes for providing information to the CCO under Regulation 38 are operating effectively and efficiently.	CCMPs R25(1)(j)	Check that all information and systems provided by the TSOs for OATIS and SCADA access operate correctly and appropriately.

Observations & Recommendations

OATIS access worked correctly and as expected during the exercise

The download of real time SCADA data into an excel spreadsheet for the CCO to utilise for demand modelling purposes worked correctly and as expected during the exercise.



Information was provided to the CCO in accordance with the regulations.

Item	Element	Ref	Description
4.7	The effectiveness, consistency and validity of the imbalance methodology with regard to information to be used by the TSO, how contingency imbalances will be allocated to affected parties and how information will be provided to GIC for invoicing allocated imbalances.	R25(1)(h)	TSOs to review the imbalance methodology in CCMPs and the business processes required to support that and to confirm to the CCO whether their processes are adequate and/or whether changes are required.

Observations & Recommendations

It was not possible to test this aspect during simulated test conditions.

Item	Element	Ref	Description
4.8	CCMPs are consistent with the MPOC and VTC.	R25(2)	TSOs to review that the CCMPs are consistent with the transmission codes to the extent possible and that no code changes have occurred, since the CCMP was approved, that would render any aspect of the CCMP ineffective.

Observations & Recommendations

It was not possible to test this aspect during simulated test conditions.



5. Retailers and Consumers Test Exercise Elements

The exercise provided an opportunity for retailers to test that their lists of consumers emergency contact details are maintained and up to date and their preparedness and ability to make communications with their consumers during a critical contingency. It was recognised that full testing of emergency contact numbers may be resource intensive so retailers were given three different participation options to select from in advance of the exercise. These are shown in the table below.

Category	Description
Full	Retailers communicate with all consumers affected by the exercise
Partial	Retailers communicate with a representative sample of consumers affected by the exercise
Facilitation	Retailers make no communication with consumers affected during the exercise

Prior the exercise each retailer indicated their selected participation level. All retailers were requested to complete the self-assessment form contained in appendix 3 of the participants briefing document and to return this to the CCO for evaluation in completing this report. A blank copy of this form is also included in appendix 3 of this report. Several retailers provided reports to the CCO regarding their participation in the exercise.

Item	Element	Ref	Description
5.1	Each retailer holds and maintains a valid, up to date and complete list of the emergency contact details for consumers with demand >2TJ/annum.	R43(1)	Following completion of exercise retailers to complete self assessment report in appendix 3 of participants briefing document.
Observations & Recommendations			
All retailers described adequate arrangements and processes.			

Item	Element	Ref	Description
5.2	Removal of consumer emergency contact details of a consumer from list within 40 business days of that consumer concluding a switch of retailers.	R43(2)	Following completion of exercise retailers to complete self assessment report in appendix 3 of participants briefing document.
Observations & Recommendations			
All retailers described adequate arrangements and processes.			

Item	Element	Ref	Description
5.3	Retailers and large consumers to provide compliance updates to TSOs.	R55	CCO to monitor the frequency and content of compliance updates provided to TSOs during the exercise.
Observations & Recommendations			
During the pre exercise training the manager, CCO discussed with the retailers and large consumers the requirement for compliance updates and the understanding of the regulations.			
Feedback from the retailers and large consumers was within the requested time set out in the notifications. Compliance templates and confirmation emails were received.			



Item	Element	Ref	Description
5.4	Retailers give instructions by urgent notice to consumers affected by the critical contingency.	R56	Following completion of exercise retailers to complete self assessment report in appendix 3 of participants briefing document.

Observations & Recommendations

All retailers described adequate arrangements and processes.

Item	Element	Ref	Description
5.5	Retailers advise consumers of the termination of the critical contingency.	R61(b)	Following completion of exercise retailers to complete self assessment report in appendix 3 of participants briefing document.

Observations & Recommendations

All retailers described adequate arrangements for advising consumers of termination in accordance with r61(b).



6. Other Identified Material Issues

None

Appendix 1 – Notice Summary

CCO Notices

Notice Description	CCO OATIS ID#	CCO Notice Posted	OATIS Time	CCO Email Notice Time Sent	CCO SMS Text Alert Time Sent
Exercise Commenced	15875	08:00		08:01	08:01
Critical Contingency Declaration	15876	09:01		09:02	09:02
Demand Curtailment #1	15877	09:30		09:31	09:31
Revised Demand Curtailment #2	15880	10:21		10:23	10:23
Status Update #1	15881	10:34		n/a	n/a
Status Update #2	15887	12:21		n/a	n/a
Direction to Restore Demand #1	15888	13:09		13:10	13:11
Direction to Restore Demand #2	15890	13:59		14:01	14:01
Critical Contingency Termination	15891	14:38		14:40	14:40
Exercise Terminated	15892	14:59		15:00	15:00

Vector and MDL notices published in accordance with CCMP and Communication Plans.

Exercise Tawiri

Notice of Declaration of Critical Contingency

The CCO has declared a critical contingency under **regulation 49** of the Gas Governance (Critical Contingency Management) Regulations 2008. All directions issued by the CCO pursuant to this declaration must be complied with.

The CCO has not directed any demand curtailment at this stage.

This notice is issued in accordance with the General Critical Contingency Notice Conditions contained in the CCO Information Guide, CCO Communications Plan, Vector CCMP and MDL CCMP.

Notices are also published on OATIS at <http://www.oatis.co.nz> and can be accessed in the Public Information Exchange section by clicking on the Maui or Vector Information Exchange or CCO buttons [no password required].

1. Event causing Critical Contingency

An earthquake has occurred off the coast of Taranaki. The offshore platforms, pipelines and production stations for Oaonui, Pohokura and Kupe have been shutdown for damage assessment. The duration at this stage could be at least 3 days.

2. Areas of transmission system affected

The whole of the MDL and Vector Transmission systems

3. Summary of actions being taken to resolve event

Production facility operators are commencing assessments of the damage.

4. Gas gates affected

All Gates

Exercise Tawiri

Direction to Implement Demand Curtailment

The CCO has given the directions in section 4 and 5 of this notice to implement demand curtailment under **regulation 53 (1) (d) (i)** of the Gas Governance (Critical Contingency Management) Regulations 2008. All directions issued by the CCO must be complied with.

Vector and MDL as TSOs now direct large consumers and retailers to comply with this demand curtailment direction and to provide compliance updates in accordance with **regulation 55**. Compliance updates are to be sent **within 1 hour of receiving this notice and then at four hourly intervals** by email to gas.controller@vector.co.nz and to the CCO at cco@vector.co.nz. The template spreadsheets to be used for this purpose are published on the CCO, Vector and MDL Public Information Exchange on OATIS.

Retailers must give urgent notices to their consumers affected by this direction in accordance with **regulation 56**.

This notice is issued in accordance with the General Critical Contingency Notice Conditions contained in the CCO Information Guide, CCO Communications Plan, Vector CCMP and MDL CCMP.

Notices are also published on OATIS at <http://www.oatis.co.nz> and can be accessed in the Public Information Exchange section by clicking on the Maui or Vector Information Exchange or CCO buttons [no password required].

1. Event causing critical contingency

An earthquake has occurred off the coast of Taranaki. The offshore platforms, pipelines and production stations for Oaonui, Pohokura and Kupe have been shutdown for damage assessment. The duration at this stage could be at least 3 days.

2. Areas of transmission system affected

The whole of the MDL and Vector Transmission systems

3. Summary of actions being taken to resolve event

Production facility operators are commencing assessments of the damage.

4. Storage facilities and large consumer curtailments directed

Gate #	Gas Gate Name	Band	Curtailment Direction
STR00501	AHUROA STORAGE FACILITY (Stratford #3)	0	Curtail fully by 10:30am
HPS02993	HUNTLY POWER STATION (Rankin Units 1-4)	1a	Curtail fully by 10:30am
HPS02993	HUNTLY POWER STATION (Units 5 & 6)	1b	Curtail fully by 10:30am
NPS00530	NEW PLYMOUTH POWER STATION	1b	Curtail fully by 10:30am
BER00653	BERTRAND RD (Methanex) (designated as minimal load consumer)	1b	Curtail fully following MLC profile
NGA00669	NGATIMARU RD (DELIVERY) (Methanex) (designated as minimal load consumer)	1b	Curtail fully following MLC profile
OTB00301	OTAHUHU B POWER STATION	1b	Curtail fully by 10:30am
SDN00101	SOUTHDOWN POWER STATION	1b	Curtail fully by 10:30am
TRC02003	TE RAPA COGENERATION PLANT	1b	Curtail fully by 10:30am

Gate #	Gas Gate Name	Band	Curtailment Direction
BAL08201	BALLANCE AMMONIA-UREA (Fuel) (designated as minimal load consumer)	1b	Curtail fully following MLC profile
BAL09626	BALLANCE AMMONIA-UREA (Process) (designated as minimal load consumer)	1b	Curtail fully following MLC profile
TCC00201	TARANAKI COMBINED CYCLE (TCC)	1b	Curtail fully by 10:30am
STR00521	STRATFORD POWER STATION PEAKERS (Stratford #2)	1b	Curtail fully by 10:30am

5. Bands 2-6 consumer curtailments directed

Bands

Curtailment Band	Curtailment Direction
Band 2	Not Affected
Band 3	Not Affected
Band 4	Not Affected
Band 5	Not Affected
Band 6	Not Affected

Locations

Gate #	Gas Gate Name
N/A	N/A
N/A	N/A

Exercise Tawiri

Direction to Revise Demand Curtailment

The CCO has given the directions in section 4 and 5 of this notice to implement revised demand curtailment under **regulation 53 (1) (d) (ii)** of the Gas Governance (Critical Contingency Management) Regulations 2008. All directions issued by the CCO must be complied with.

For the avoidance of doubt this notice supersedes the original Notice of Direction to Curtail Demand and any previous notice(s) of Direction to Revise Demand Curtailment. It includes all demand previously directed for curtailment and all additional demands to be curtailed.

Vector and MDL as TSOs now direct large consumers and Retailers and to comply with this direction to revise demand curtailment and to provide compliance updates in accordance with **regulation 55**. Compliance updates are to be sent **within 2 hour of receiving this notice and then at four hourly intervals** by email to gas.controller@vector.co.nz and CCO at cco@vector.co.nz. The template spreadsheets to be used for this purpose are published on the CCO, Vector and MDL Public Information Exchange on OATIS.

Retailers must give urgent notices to their consumers affected by this direction in accordance with **regulation 56**.

This notice is issued in accordance with the General Critical Contingency Notice Conditions contained in the CCO Information Guide, CCO Communications Plan, Vector CCMP and MDL CCMP.

Notices are also published on OATIS at <http://www.oatis.co.nz> and can be accessed in the Public Information Exchange section by clicking on the Maui or Vector Information Exchange or CCO buttons [no password required].

1. Event causing critical contingency

An earthquake has occurred off the coast of Taranaki. The offshore platforms, pipelines and production stations for Oaonui, Pohokura and Kupe have been shutdown for damage assessment. The duration at this stage could be at least 3 days.

2. Areas of transmission system affected

The whole of the MDL and Vector Transmission systems

3. Summary of actions being taken to resolve event

Production facility operators are commencing assessments of the damage.

4. Storage facilities and large consumer curtailments directed

Gate #	Gas Gate Name	Band	Curtailment Direction
STR00501	AHUROA STORAGE FACILITY (Stratford #3)	0	Curtail fully by 10:30am
HPS02993	HUNTLY POWER STATION (Rankin Units 1-4)	1a	Curtail fully by 10:30am
HPS02993	HUNTLY POWER STATION (Units 5 & 6)	1b	Curtail fully by 10:30am

Gate #	Gas Gate Name	Band	Curtailment Direction
NPS00530	NEW PLYMOUTH POWER STATION	1b	Curtail fully by 10:30am
BER00653	BERTRAND RD (Methanex) (designated as minimal load consumer)	1b	Curtail fully following MLC profile
NGA00669	NGATIMARU RD (DELIVERY) (Methanex) (designated as minimal load consumer)	1b	Curtail fully following MLC profile
OTB00301	OTAHUHU B POWER STATION	1b	Curtail fully by 10:30am
SDN00101	SOUTHDOWN POWER STATION	1b	Curtail fully by 10:30am
TRC02003	TE RAPA COGENERATION PLANT	1b	Curtail fully by 10:30am
BAL08201	BALLANCE AMMONIA-UREA (Fuel) (designated as minimal load consumer)	1b	Curtail fully following MLC profile
BAL09626	BALLANCE AMMONIA-UREA (Process) (designated as minimal load consumer)	1b	Curtail fully following MLC profile
TCC00201	TARANAKI COMBINED CYCLE (TCC)	1b	Curtail fully by 10:30am
STR00521	STRATFORD POWER STATION PEAKERS (Stratford #2)	1b	Curtail fully by 10:30am

5. Bands 2-6 consumer curtailments directed

Bands

Curtailment Band	Curtailment Direction
Band 2	Curtail fully by 11:30am
Band 3	Curtail fully by 11:30am
Band 4	Not Affected
Band 5	Not Affected
Band 6	Not Affected

Locations

Gate #	Gas Gate Name
All gas gates	

Exercise Tawiri

Direction to Restore Demand

The CCO has given the directions in sections 4 and 5 of this notice to implement demand restoration under **regulation 53 (1) (e) (i)/(ii)** of the Gas Governance (Critical Contingency Management) Regulations 2008. All directions issued by the CCO must be complied with.

For the avoidance of doubt this notice supersedes any previous notice(s) of Direction to Restore Demand. It includes all demand previously directed for restoration.

Vector and MDL as TSOs now direct large consumers and retailers to comply with this direction to restore demand in accordance with **regulation 55**.

This direction indicates that demand can be restored from the transmission system only. Retailers are required to consult with gas distributors and comply with any of their instructions to ensure that restoration takes place in a safe and orderly manner on connected distribution systems.

Retailers must give urgent notices to their consumers affected by this direction in accordance with **regulation 56**.

This notice is issued in accordance with the General Critical Contingency Notice Conditions contained in the CCO Information Guide, CCO Communications Plan, Vector CCMP and MDL CCMP.

Notices are also published on OATIS at <http://www.oatis.co.nz> and can be accessed in the Public Information Exchange section by clicking on the Maui or Vector Information Exchange or CCO buttons [no password required].

1. Event causing critical contingency

An earthquake has occurred off the coast of Taranaki. The offshore platforms, pipelines and production stations for Oaonui, Pohokura and Kupe have been shutdown for damage assessment. The duration at this stage could be at least 3 days.

2. Areas of transmission system affected

The whole of the MDL and Vector Transmission systems

3. Summary of actions being taken to resolve event

The owners of the offshore assets have provided feedback stating initial investigations show no sign of major damage. Recommissioning of production stations has been completed and gas supplies are restored. System line pack recovering.

4. Storage facilities and large consumer demand restoration directed

Gate #	Gas Gate Name	Band	Curtailement Direction
STR00501	AHURUA STORAGE FACILITY (Stratford #3)	0	Remain curtailed
HPS02993	HUNTLY POWER STATION (Rankin Units 1-4)	1a	Remain curtailed
HPS02993	HUNTLY POWER STATION (Units 5 & 6)	1b	Remain curtailed
NPS00530	NEW PLYMOUTH POWER STATION	1b	Remain curtailed
BER00653	BERTRAND RD (Methanex)	1b	No further curtailment

Gate #	Gas Gate Name	Band	Curtailement Direction
	(designated as minimal load consumer)		required beyond 13:30 MLC demand level
NGA00669	NGATIMARU RD (DELIVERY) (Methanex) (designated as minimal load consumer)	1b	No further curtailement required beyond 13:30 MLC demand level
OTB00301	OTAHUHU B POWER STATION	1b	Remain curtailed
SDN00101	SOUTHDOWN POWER STATION	1b	Remain curtailed
TRC02003	TE RAPA COGENERATION PLANT	1b	Remain curtailed
BAL08201	BALLANCE AMMONIA-UREA (Fuel) (designated as minimal load consumer)	1b	No further curtailement required beyond 13:30 MLC demand level
BAL09626	BALLANCE AMMONIA-UREA (Process) (designated as minimal load consumer)	1b	No further curtailement required beyond 13:30 MLC demand level
TCC00201	TARANAKI COMBINED CYCLE (TCC)	1b	Remain curtailed
STR00521	STRATFORD POWER STATION PEAKERS (Stratford #2)	1b	Remain curtailed

5 Bands 2-6 consumer demand restoration directed

Bands

Curtailement Band	Curtailement Direction
Band 2	Demand can be fully restored from 13:30
Band 3	Demand can be fully restored from 13:30
Band 4	Not Affected
Band 5	Not Affected
Band 6	Not Affected

Locations

Gate #	Gas Gate Name
All gas gates	

6 Details regarding any alternative demand restoration order directed

N/A

Exercise Tawiri

Direction to Restore Demand

The CCO has given the directions in sections 4 and 5 of this notice to implement demand restoration under **regulation 53 (1) (e) (i)/(ii)** of the Gas Governance (Critical Contingency Management) Regulations 2008. All directions issued by the CCO must be complied with.

For the avoidance of doubt this notice supersedes any previous notice(s) of Direction to Restore Demand. It includes all demand previously directed for restoration.

Vector and MDL as TSOs now direct large consumers and retailers to comply with this direction to restore demand in accordance with **regulation 55**.

This direction indicates that demand can be restored from the transmission system only. Retailers are required to consult with gas distributors and comply with any of their instructions to ensure that restoration takes place in a safe and orderly manner on connected distribution systems.

Retailers must give urgent notices to their consumers affected by this direction in accordance with **regulation 56**.

This notice is issued in accordance with the General Critical Contingency Notice Conditions contained in the CCO Information Guide, CCO Communications Plan, Vector CCMP and MDL CCMP.

Notices are also published on OATIS at <http://www.oatis.co.nz> and can be accessed in the Public Information Exchange section by clicking on the Maui or Vector Information Exchange or CCO buttons [no password required].

5. Event causing critical contingency

An earthquake has occurred off the coast of Taranaki. The offshore platforms, pipelines and production stations for Oaonui, Pohokura and Kupe have been shutdown for damage assessment. The duration at this stage could be at least 3 days.

6. Areas of transmission system affected

The whole of the MDL and Vector Transmission systems

7. Summary of actions being taken to resolve event

Production stations returned to full supply level and stable

8. Storage facilities and large consumer demand restoration directed

Gate #	Gas Gate Name	Band	Curtailement Direction
STR00501	AHUROA STORAGE FACILITY (Stratford #3)	0	Demand can be fully restored by 14:30
HPS02993	HUNTLY POWER STATION (Rankin Units 1-4)	1a	Demand can be fully restored by 14:30
HPS02993	HUNTLY POWER STATION (Units 5 & 6)	1b	Demand can be fully restored by 14:30
NPS00530	NEW PLYMOUTH POWER STATION	1b	Demand can be fully restored by 14:30
BER00653	BERTRAND RD (Methanex) (designated as minimal load consumer)	1b	Demand can be fully restored by 14:30
NGA00669	NGATIMARU RD (DELIVERY) (Methanex)	1b	Demand can be fully

Gate #	Gas Gate Name	Band	Curtailment Direction
	(designated as minimal load consumer)		restored by 14:30
OTB00301	OTAHUHU B POWER STATION	1b	Demand can be fully restored by 14:30
SDN00101	SOUTHDOWN POWER STATION	1b	Demand can be fully restored by 14:30
TRC02003	TE RAPA COGENERATION PLANT	1b	Demand can be fully restored by 14:30
BAL08201	BALLANCE AMMONIA-UREA (Fuel) (designated as minimal load consumer)	1b	Demand can be fully restored by 14:30
BAL09626	BALLANCE AMMONIA-UREA (Process) (designated as minimal load consumer)	1b	Demand can be fully restored by 14:30
TCC00201	TARANAKI COMBINED CYCLE (TCC)	1b	Demand can be fully restored by 14:30
STR00521	STRATFORD POWER STATION PEAKERS (Stratford #2)	1b	Demand can be fully restored by 14:30

7 Bands 2-6 consumer demand restoration directed

Bands

Curtailment Band	Curtailment Direction
Band 2	Demand can now be fully restored from 13:30
Band 3	Demand can now be fully restored from 13:30
Band 4	Not Affected
Band 5	Not Affected
Band 6	Not Affected

Locations

Gate #	Gas Gate Name
All fields to be completed	All fields to be completed
All fields to be completed	All fields to be completed

8 Details regarding any alternative demand restoration order directed

N/A

Exercise Tawiri

Termination of Critical Contingency

The CCO has determined that the critical contingency has been terminated at **14:45 20/03/13** under **regulation 60** of the Gas Governance (Critical Contingency Management) Regulations 2008. All directions issued by the CCO must be complied with.

Vector and MDL now direct retailers to give urgent notice to their consumers in accordance with **regulation 61** that the critical contingency has been terminated.

Retailers must continue to follow any instructions given by gas distributors with regard to demand restoration.

This notice is issued in accordance with the General Critical Contingency Notice Conditions contained in the CCO Information Guide, CCO Communications Plan, Vector CCMP and MDL CCMP.

Notices are also published on OATIS at <http://www.oatis.co.nz> and can be accessed in the Public Information Exchange section by clicking on the Maui or Vector Information Exchange or CCO buttons [no password required].

1. Event that caused critical contingency

An earthquake occurred off the coast of Taranaki. The offshore platforms, pipelines and production stations for Oaonui, Pohokura and Kupe had been shutdown for damage assessment.

2. Areas of transmission system affected

The whole of the MDL and Vector Transmission systems

3. Details of event resolution

Offshore platform, pipeline integrity checks completed and full production resumed.

Appendix 3 – Retailer Self Assessment Form

CCO Exercise Tawiri – 20 March 2013

Retailers Self Assessment Form

(Please complete and return to CCO by 29 March)

Retailer Name							
Exercise Participation Level *delete as appropriate	Full / Partial / Facilitation *						
1. Description of process in place to ensure consumer emergency contact details are maintained and up to date in accordance with regulation 43.							
2. How often are emergency contact numbers reviewed or audited for completeness and accuracy?							
3. How many affected consumers did you have in each band at each gas gate? Please include separate line for each gas gate.	Curtailment Band						
	2	2M	3	3M	4	5	6
Gas gate A							
Gas gate B							
Gas gate C							
Gas gate ...							
4. During the exercise how many affected consumers in each curtailment band did you give instructions to by urgent notice in accordance with regulation 56?							
5. During the exercise how many affected consumers in each curtailment band did you advise that the critical contingency had been terminated in accordance with regulation 61(b)?							
6. Description of methods, processes and procedures in place for issuing urgent notices in accordance with regulation 56.							
7. Description of methods, processes and procedures for advising affected consumers of termination of critical contingency in accordance with regulation 61(b).							
8. Views on levels of consumer understanding of your instructions and their obligation under regulation 57.							
9. Views on exercise format, lessons learnt and any planned future changes or initiatives you may take that were identified during the exercise.							