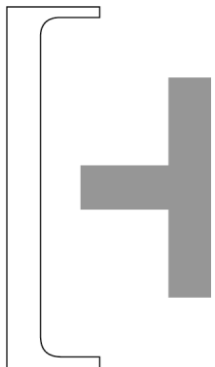


CRITICAL CONTINGENCY OPERATOR



Critical Contingency Incident Report

Mount Maunganui 25 September 2024



Prepared in accordance with the Gas Governance
(Critical Contingency Management) Regulations 2008

Published 3 October 2024

cco@cco.org.nz

1. Introduction

In accordance with Regulation 64 of the Gas Governance (Critical Contingency Management) Regulations 2008 (CCM Regulations), the Critical Contingency Operator (CCO) must prepare and publish an incident report as soon as reasonably practicable, but no later than 5 business days after making a determination to terminate a Critical Contingency under Regulation 60.

This report has been prepared in consultation with Firstgas, the Transmission System Owner (TSO).

2. Cause of Critical Contingency

On the evening of 25 September 2024, the gas supply to the Mount Maunganui gas gate was affected by a blockage in the transmission pipeline causing a breach of the critical contingency pressure threshold. Initially the pressure threshold breach was transient, and the pressure recovered. However, the supply to the gas gate became blocked a second time and this time the pressure did not recover. The TSO confirmed in a Security of Supply report to the CCO at 22:56hrs that the pressure drop was a genuine breach of the critical contingency threshold and that it was not transient, so the CCO declared a regional Critical Contingency.

Initially the TSO was not certain what had caused the blockage, but subsequently it was determined a pipeline integrity gauge (PIG) being used for pigging the transmission pipeline in the area had deviated from its intended course and become lodged in the inlet piping at the Mount Maunganui gas gate.

3. Duration of Critical Contingency

A Critical Contingency was declared at 22:56hrs on Wednesday 25 September 2024 and was terminated at 02:30hrs on Thursday 26 September 2024. The duration of the Critical Contingency was 3 hours and 34 minutes.

4. Log of Actions Taken by CCO and TSO Immediately Before and During the Critical Contingency

The CCO and TSO notices referred to in the log of actions are shown in full in the Appendices below.

Time	Action Taken
21:09	TSO Control Room called Duty CCO to advise there had been a sudden pressure drop at the Mt Maunganui gas gate breaching the CC threshold, but the pressure had now bounced back to normal. Not sure of the cause, or why it had recovered. Could be related to pigging in the area. Technicians had been mobilised to site to investigate. Details would be sent in a Security of Supply report by email to confirm, but all was now OK.
21:59	TSO Control Room called to advise there had been a repeat drop of pressure at Mt Maunganui breaching the CC threshold which, this time, had not recovered. Duty CCO advised that a CC event will need to be declared unless it was a transient breach. Control Room was phoning the TSO Duty Manager who would be asked to phone the CCO. CCO asked the Control Room to send a Security of Supply report via email.

Time	Action Taken
22:04	TSO Duty Manager called the CCO, he was mobilising to the Firstgas office to confirm the nature of the incident. A sudden pressure drop followed by a recovery, then another sudden drop was unusual, and he wanted to confirm it was not a SCADA fault.
22:21	<p>TSO Duty Manager called the CCO and confirmed the pressure threshold data was correct and there was corroborative data downstream on the Mt Maunganui distribution system of the pressure drop. No other problems were indicated at any other gas gate at this stage, although not all are on SCADA.</p> <p>CCO advised it would prepare a CC Declaration Notice but needed the Security of Supply report to confirm the information provided as no written information had been received.</p> <p>Initial discussions were held about the need for demand curtailment of consumers supplied by the Mt Maunganui gas gate. The TSO advised that curtailment might not need to be in place until the morning load. Firstgas Distribution colleagues had identified a specific consumer with a large overnight load that they could curtail.</p>
22:37	Security of Supply report #1 e-mail received by CCO from TSO. However, it contained some incorrect information relating to a previous incident in a different location.
22:44	CCO asked the TSO Duty Manager to review and correct Security of Supply report #1.
22:56	Revised Security of Supply report #1 received by CCO from TSO, confirming CC threshold non-transient breach at Mt Maunganui. Based on the information received, the CCO declared a Critical Contingency.
22:59	TSO Duty Manager called the CCO to discuss the preparation of the Declaration Notice. There was also a discussion about how the situation could be confirmed re the non-Scada gas gates and whether they might be affected.
23:12	CCO emailed Draft CC Declaration Notice CC-087 to TSO for review.
23:19	TSO confirmed their agreement with the content of the CC Declaration Notice.
23:21	CCO called Gas Industry Company to advise that a Critical Contingency had been declared and a Notice was being prepared for publishing.
23:27	CC Declaration Notice CC-087 emailed to TSO and copied to CCO Stakeholders.
23:30	CC Declaration Notice CC-087 published on CCO website Current Events page.
23:34	CCO sent SMS to CCO Stakeholders advising CC Declaration Notice CC-087 has been published.
23:38	<p>The TSO called the CCO to confirm the person who had been appointed to the Critical Contingency Liaison function in the Firstgas Emergency Management Team as the CCO's point of contact. There was a brief resume of where things were at and discussions about what demand curtailment might be required.</p> <p>TSO CC Liaison would forward an internal email from a Distribution colleague about demand curtailment on the Mt. Manganui network.</p>

Time	Action Taken
23:41	TSO published Critical Notice ID 77333 on OATIS (Maui) - Critical Contingency Declaration Notification - CC-087
23:42	TSO CC Liaison forwarded internal email from Distribution re demand curtailment requirements.
23:43	TSO published Critical Notice ID 77334 on OATIS (Vector) - Critical Contingency Declaration Notification - CC-087.
23:48	<p>The CCO discussed demand curtailment with TSO CC Liaison to clarify if Distribution were curtailing demand on the network under their Emergency Response Plan or expecting curtailment under the CCM Regulations.</p> <p>TSO CC Liaison advised that there was no point in curtailment as blockage of the Mt Maunganui gas gate was absolute, and pressure downstream had already dropped too far for curtailment to be useful. Customers had already been lost.</p> <p>It was confirmed that no gas gates other than Mt Maunganui were affected, as a Firstgas Technician had been sent to site to confirm.</p>
23:51	A voicemail message was received by the CCO from the Bay of Plenty Civil Defence.
00:03	<p>CCO called TSO CC Liaison to ask the TSO to respond to the local Civil Defence enquiry.</p> <p>There was further discussion with TSO CC Liaison and TSO Duty Manager, in particular the interaction of CCM Regulations and Firstgas Distribution Emergency Response Plan. TSO Duty Manager asked CCO to consider if demand curtailment under the CCM Regulations would be advisable. Given that there was no supply from the gate, it would likely need to be all consumer bands. CCO requested an updated Security of Supply report to confirm the position while a Demand Curtailment Notice was prepared.</p>
00:10	<p>CCO received Security of Supply report #2 email from TSO. Report stated that:</p> <p>“Slam shuts closed at Mount Maunganui DP – no supply from this gate”</p> <p>“FirstGas Distribution communicating to retailers, field team identifying blockage and remediation plan to be developed.”</p>
00:19	CCO called the TSO Duty Manager. SOS #2 stated that First Gas Distribution had already commenced curtailment conversations with Retailers, if this was correct it would not be helpful for the CCO to initiate different curtailment instructions under the CCM Regulations. It was agreed that the CCO would not issue a Demand Curtailment Notice.
00:20	TSO CC Liaison returned call to Bay of Plenty Civil Defence.
00:36	TSO CC Liaison called the CCO with an update. There was a blockage at the Mt Maunganui inlet valve, and they will be installing a temporary bypass across the valve. They expected this would take 45 minutes and then the inlet pressure would start to come back.
00:58	CCO drafted a Status Update Notice to let stakeholders know there was not expected to be any demand curtailment under the CCM Regulations, but any

Time	Action Taken						
	demand curtailment would be co-ordinated by Firstgas Distribution. The draft notice was sent to the TSO CC Liaison for review.						
01:16	TSO CC Liaison replied regarding the draft Status Update notice to include Firstgas contact details but didn't confirm if Firstgas agreed with the notice content. CCO called TSO for confirmation.						
01:24	<p>TSO CC liaison returned CCO's call, and confirmed TSO was OK with the Status Update Notice but things had now developed. The TSO had modelled the plan to resume flow at Mt Maunganui by installing a half-inch bypass around the blockage. The TSO's modelling suggested they would be able to get a pressure of 30 barg, although throughput might not be sufficient for full load downstream.</p> <p>It had been established a pig launched in a 100mm pipeline had found its way into an 80mm pipeline and got caught in the Mt Maunganui gate station valve. There would need to be a follow up job in the morning to retrieve the pig.</p>						
01:34	TSO CC Liaison phoned to update the CCO. Installation of the bypass had changed pressure equilibriums and released the stuck pig from the inlet valve and gas was now passing through the gas gate normally without aid of the bypass. The draft Status Update Notice was no longer relevant. The CCO asked the TSO if they agreed that the CC could be terminated. The TSO undertook to confirm.						
01:50	TSO CC Liaison phoned CCO to confirm gas is flowing freely through the Mt Maunganui gas gate and it was thought that the CC could be terminated. A Security of Supply report was requested to confirm the position. CCO undertook to draft a CC Termination Notice.						
01:51	<p>CCO received Security of Supply report #3 email from TSO. The data contained stated that:</p> <table border="1"> <tr> <td>Pressure at affected CC Threshold/s:</td> <td>Mt Maunganui DP</td> <td>Barg 3.4</td> </tr> <tr> <td>Time to CC Threshold/s:</td> <td></td> <td>Hours 0.0</td> </tr> </table> <p>This information contradicted the previous conversation. CCO phoned the TSO and asked for a correct Security of Supply report.</p>	Pressure at affected CC Threshold/s:	Mt Maunganui DP	Barg 3.4	Time to CC Threshold/s:		Hours 0.0
Pressure at affected CC Threshold/s:	Mt Maunganui DP	Barg 3.4					
Time to CC Threshold/s:		Hours 0.0					
02:04	TSO CC Liaison phoned to explain the TSO now had a preference to hold off from terminating the CC event until they were confident the pig wasn't going to move and get stuck again.						
02:11	<p>CCO received revised Security of Supply #3 report from TSO confirming:</p> <table border="1"> <tr> <td>Pressure at affected CC Threshold/s:</td> <td>Mt Maunganui DP</td> <td>Barg 61.8</td> </tr> <tr> <td>Time to CC Threshold/s:</td> <td></td> <td>Hours 25.4</td> </tr> </table>	Pressure at affected CC Threshold/s:	Mt Maunganui DP	Barg 61.8	Time to CC Threshold/s:		Hours 25.4
Pressure at affected CC Threshold/s:	Mt Maunganui DP	Barg 61.8					
Time to CC Threshold/s:		Hours 25.4					
02:27	TSO CC Liaison confirmed TSO was now satisfied that there was no further risk to supply, and the CC could be terminated. CCO asked for Security of Supply report as confirmation.						
02:28	CCO received Security of Supply #4 report from TSO stating:						

Time	Action Taken
	"Checks completed and TSO is satisfied there is no longer a heightened risk of breaching CC thresholds at Mount Maunganui Delivery Point."
02:34	CCO sent draft Critical Contingency Termination Notice CC-088 to TSO for review.
02:39	TSO CC Liaison called CCO to confirm TSO are happy with the draft CC Termination Notice.
02:40	CCO received email from TSO confirming they are OK with the content of the CC Termination Notice.
02:49	CC Termination Notice CC-088 emailed to TSO and copied to CCO Stakeholders.
02:50	CC Termination Notice CC-088 published on CCO website Current events page.
02:51	CCO sent SMS to CCO Stakeholders advising CC Termination Notice CC-088 has been published.
02:52	TSO CC Liaison sent email to TSO Scheduler to post CC Termination Notice to OATIS.
02:57	TSO publishes Critical Notice ID 77335 on OATIS (Maui) - Critical Contingency Termination Notice - CC-088
02:59	TSO publishes Critical Notice ID 77336 on OATIS (Vector) - Critical Contingency Termination Notice - CC-088

5. Level of General Compliance by Large Consumers and Retailers with TSO Directions

No curtailment directions under the CCM Regulations were given by the TSO therefore assessment of compliance is not applicable.

6. Level of General Compliance by Consumers with Retailer Directions

No curtailment directions were given by Retailers therefore assessment of compliance is not applicable.

7. Any other matters CCO considers appropriate

The Performance Report, to be published within 30 business days of the termination of the event, will review the response in more detail and consider feedback from Stakeholders.

Appendix 1: Notices Sent by CCO

Critical Contingency Declaration Notice

Date:	25 September 2024
Time:	11:15 pm
Notice Number:	CC-087
Notice Type:	Declaration of Critical Contingency
Notice Issued to:	Firstgas TSO Stakeholders listed in the CCO Information Guide
CCO Instruction to TSO:	<p>A Critical Contingency has been declared.</p> <p>Communications under the Communications Plan are to commence immediately.</p> <p>Issue notice of Declaration of Critical Contingency to Large Consumers and Retailers within 30 minutes of receiving this notice.</p> <p>Ensure an appropriate critical notice is posted on OATIS as soon as reasonably practicable.</p> <p>The CCO will determine any demand curtailment requirements and advise accordingly.</p>
Critical Contingency Declaration Time & Date:	25 September 2024 10:56pm
Event causing Critical Contingency:	<p>The TSO has advised the CCO that the inlet to the Mount Maunganui gas gate is blocked and there has been a large pressure drop.</p> <p>As a result, the Mt Maunganui pressure threshold has been breached.</p> <p>The CCO has therefore determined that a Critical Contingency exists.</p>
Summary of actions being taken to resolve event and estimated time to resolve:	<p>The TSO has advised the CCO that they are mobilising an emergency response team to investigate the cause and develop a response plan.</p> <p>The CCO is urgently assessing how this event will impact on the supply of gas to consumers in the Mt Maunganui area to determine what, if any load curtailment may be required.</p> <p>The CCO will issue any load curtailment instructions as soon as possible.</p>
Regional Critical Contingency Status:	Regional
Transmission pipeline(s) affected:	The Firstgas Bay of Plenty pipeline
Geographic area affected:	Mt Maunganui and possibly other gas gates in the immediate vicinity, yet to be confirmed

This notice is issued pursuant to **Regulation 49** of the Gas Governance (Critical Contingency Management) Regulations 2008 and amendments. All directions issued by the CCO pursuant to this declaration must be complied with.

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

The CCO will issue advice of this Notice of Declaration of Critical Contingency to the stakeholders listed in the CCO Information Guide and publish this notice in the public domain of the CCO web site at <https://www.cco.org.nz/current-event/>

Critical Contingency Termination Notice

Date:	26 September 2024
Time:	02:45am
Notice Number:	CC-088
Notice Type:	Critical Contingency Termination
Notice Issued to:	Firstgas TSO Stakeholders listed in the CCO Information Guide
CCO Instruction to TSO:	The Critical Contingency has been terminated. Issue notice of Termination of Critical Contingency to Large Consumers and Retailers within 30 minutes and ensure an appropriate critical notice is posted on OATIS and direct retailers to advise their consumers that the critical contingency has been terminated.
Critical Contingency Termination Time & Date:	26 September 2024 02:30am
Current Status:	The transmission system is stable. The gas supply into the Mount Maunganui gas gate has been restored.
Event that caused Critical Contingency:	The gas supply to the Mount Maunganui gas gate became blocked causing a breach of the critical contingency pressure threshold.
Details of Event resolution:	Firstgas has cleared the blockage and supply has been restored.
Regional Critical Contingency Status:	Regional
Transmission pipeline(s) affected:	The Firstgas Bay of Plenty Pipeline
Geographic area affected:	Mount Maunganui

This notice is issued pursuant to **Regulation 60** of the Gas Governance (Critical Contingency Management) Regulations 2008 and amendments. All directions issued by the CCO pursuant to this declaration must be complied with.

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

The CCO will issue advice of this Notice of Critical Contingency Termination to the stakeholders listed in the CCO Information Guide and publish this notice in the public domain of the CCO web site at <https://www.cco.org.nz/current-event/>

Appendix 2:

Notices Sent by TSO

The screenshot shows the MAUI OATIS interface. The header includes the MAUI logo, the text 'OATIS Open Access Transmission Information', and the date 'Friday, 27 September 2024'. The user is logged in as 'MAUI Critical Contingency Operator'. The navigation menu includes Home, Publications, Contact Us, Terms Of Use, Site Map, and Help. The left sidebar lists various menu items: Nominations, Notices, Delivery Reports, Pipeline, Gas Properties, Peaking, Operational Imbalance. The main content area is titled 'View Notice Details' and displays the following information:

- Notice Type: Critical
- Notice Identifier: 77333
- Notice Name: Critical Contingency Declaration Notification - CC-087
- Published: 25/09/2024 23:41
- Begin Date & Time: 25/09/2024 23:32
- End Date & Time: 26/09/2024 23:59
- Notice Period: 1
- Required Response Indicator: Action Required

Detail: 25/09/2024
Please refer to the attached notice from the Critical Contingency Operator

Attachments:
[CC-087 Critical Contingency Declaration notice](#)

Previous

The screenshot shows the Firstgas OATIS interface. The header includes the Firstgas logo, the text 'OATIS Open Access Transmission Information System Vector Transmission Code (VTC)', and the date 'Friday, 27 September 2024 3:03 PM'. The user is logged in as 'VECTOR Miscellaneous Party (Vector) FOR Critical Contingency Operator'. The navigation menu includes Home, Publications, Contact Us, Terms Of Use, Site Map, Help, and Logout. The left sidebar lists various menu items: Notices, Delivery Reports, Gas Properties, Downstream Allocations. The main content area is titled 'View Notice Details' and displays the following information:

- Notice Type: Critical
- Notice Identifier: 77334
- Notice Name: Critical Contingency Declaration Notification - CC-087
- Published: 25/09/2024 23:43
- Begin Date & Time: 25/09/2024 23:42
- End Date & Time: 26/09/2024 23:59
- Notice Period: 1
- Required Response Indicator: Action Required

Detail: 25/09/2024
Please refer to the attached notice from the Critical Contingency Operator

Attachments:
[CC-087 Critical Contingency Declaration notice](#)

Previous



OATIS

Open Access Transmission Information System

Friday, 27 September 2024 3:05 PM

Logged in as: MAUI Critical Contingency Operator

- Home
- Publications
- Contact Us
- Terms Of Use
- Site Map
- Help
- Logout

- Nominations
- Notices
- Delivery Reports
- Pipeline
- Gas Properties
- Peaking
- Operational Imbalance

View Notice Details

Notice Type Critical
Notice Identifier 77335
Notice Name Critical Contingency Termination Notice - CC-088
Published 26/09/2024 02:57
Begin Date & Time 26/09/2024 02:55
End Date & Time 27/09/2024 23:59
Notice Period 1
Required Response Indicator Action Required

Detail 26/09/2024
 Please refer to the attached notice from the Critical Contingency Operator

Attachments

[CC-088 - Critical Contingency Termination Notice](#)

Previous



OATIS

Open Access Transmission Information System
Vector Transmission Code (VTC)

Friday, 27 September 2024 3:05 PM

Logged in as: VECTOR Miscellaneous Party (Vector) FOR Critical Contingency Operator

- Home
- Publications
- Contact Us
- Terms Of Use
- Site Map
- Help
- Logout

- Notices
- Delivery Reports
- Gas Properties
- Downstream Allocations

View Notice Details

Notice Type Critical
Notice Identifier 77336
Notice Name Critical Contingency Termination Notice - CC-088
Published 26/09/2024 02:59
Begin Date & Time 26/09/2024 02:57
End Date & Time 27/09/2024 23:59
Notice Period 1
Required Response Indicator Action Required

Detail 26/09/2024
 Please refer to the attached notice from the Critical Contingency Operator

Attachments

[CC-088 - Critical Contingency Termination Notice](#)

Previous