



CRITICAL CONTINGENCY INCIDENT REPORT

System Imbalance 23 May 2017

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

Published 30 May 2017

Critical Contingency Operator
cco@cco.org.nz

1. Introduction

In accordance with Regulation 64 of the Gas Governance (Critical Contingency Management) Regulations 2008, the 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 the affected Transmission System Owner (TSO).

2. Cause of Critical Contingency

At midnight on 22nd May 2017 the Maui Pipeline linepack was at 249 TJs, compared to the TSO's total calculated (or target) linepack of 304 TJs. Information provided by the TSO shows that this starting linepack position was largely because of downstream delivery points taking significantly more gas than was scheduled to be injected into the Maui Pipeline.

On the 23rd May this low linepack situation was exacerbated when the Pohokura Production Station (PPS) stopped supplying gas to the transmission system between approximately 06:30 and 11:00 hours as part of a planned outage. During the period of this outage, and despite the PPS over-injecting gas prior to the commencement of its outage, the imbalance between supply and demand caused pipeline linepack and pressures to fall to the point where the Critical Contingency threshold of 3 hours to 37.5barg at the Kapuni Gas Treatment Plant (KGTP) was breached.

At 10:50, the CCO determined that there was a Critical Contingency due to the breach of the KGTP threshold. A Critical Contingency Declaration Notice was subsequently issued at 11:14.

3. Duration of Critical Contingency

A Critical Contingency was declared at 10:50 on Tuesday 23 May 2017 and was terminated at 18:15 on Tuesday 23 May 2017. The duration of the Critical Contingency was 7 hours and 25 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
08:25	CCO carries out routine check of system load model and observes no flow from Pohokura. CCO's most recent hourly SCADA data file indicates Maui linepack at 07:00 is 274TJ and falling at 6TJ/hr. KGTP pressure at 31 hours to threshold.
08:30	CCO calls the TSO Gas Control to query Pohokura status. TSO advises that Pohokura have a planned outage between 06:30 and 11:00. Gas Controller needed to be brief as he had other calls relating to another potential emergency.
08:35	CCO checks most recent SCADA data file which arrived at 08:32 and indicates that at 08:00 Maui linepack is 267TJ and falling at 7.5TJ/hr. KGTP inlet pressure at 4.2 hours to 37.5barg. (Threshold for a Critical Contingency is 3 hours 37.5barg).
08:43	CCO contacts TSO Gas Control to request hourly SCADA data file be switched to event mode, which provides data files every 20 minutes.

Time	Action Taken
09:30	CCO calls TSO Gas Control to follow up request for SCADA data file be switched to event mode. Gas Controller notes that Control Room has been busy dealing with another emergency. Gas Controller switches SCADA data file to event mode.
09:38	CCO checks most recent SCADA data file which arrived at 09:32 and indicates that at 09:00 Maui linepack is 258TJ and falling at 8TJ/hr. KGTP pressure is still at 4.2 hours to 37.5barg.
09:54	CCO checks 09.35 SCADA data event mode file which arrived at 09:52. Maui linepack at 253TJ and falling at 9.6TJ/hr. KGTP pressure still at 4.2 hours to 37.5barg.
10:00	CCO calls TSO Control Room Manager to discuss pipeline conditions. Control Room Manager unable to take call due to involvement in a system emergency but advised he would return the call shortly.
10:09	TSO Transmission Services Manager calls CCO to cancel TSO/CCO Monthly Liaison Meeting scheduled for 10:30 that morning due to a system emergency. CCO raises concern at condition of Maui linepack and pressures and requests to visit TSO Control Room to monitor the situation with the TSO. It is agreed that CCO can attend Gas Control.
10:17	TSO publishes Critical Notice 37707 on OATIS (Maui) advising of low linepack and that the System Operator may have to take further action if the situation is not resolved.
10:33	CCO arrives at TSO Control Room and observes that Critical Contingency Threshold at KGTP is in critical alarm and indicating 2.8 hours to 37.5barg.
10:35	CCO consults with TSO and requests TSO to confirm whether threshold alarm is the result of transient conditions due to sudden flow changes or an accurate rate of change due to the prevailing system conditions.
10:35	TSO SCADA indicates that Pohokura has commenced flowing at low rates of 0.4TJ/hr. (Target flow rate to return to pre-outage conditions would be circa 8TJ/hr which would take at least two hours).
10:40	CCO notices large fluctuations in flow rates to the Methanex delivery points. A call is made to Methanex who confirm that they are re-valving to change flows between their delivery points but do not intend to change their total offtake.
10:45	TSO advises CCO that threshold breach is not as the result of transient conditions. Maui linepack still falling at 7.5TJ/hr. KGTP pressure at 2.4 hours to 37.5barg
10:50	CCO determines that there is a Critical Contingency under r48(1)(a) and advises the TSO that a Critical Contingency Declaration Notice will be issued as soon as possible.
10:55	CCO determines that the Critical Contingency is not a regional contingency.
11:10	CCO consults with TSO on content of CC Declaration Notice and TSO confirms that the notice concurs with the TSO's understanding of the situation.
11:14	CCO issues Critical Contingency Declaration Notice CC-0038 to TSO, Stakeholders and Interested Parties via email.
11:16	CCO uploads Declaration Notice and updates "Current CC Events" page on CCO website.
11:21	CCO sends SMS to CCO Stakeholders listed in Information Guide to advise that Critical Contingency Declaration Notice CC-0038 has been issued.

Time	Action Taken
11:24	CCO contacts Pohokura Operator SENZL who advise that Pohokura is returning to full rates as planned and that they intend to fulfil their nominated quantities for the day.
11:24	CCO contacts Electricity System Operator to discuss situation and determine the current thermal generation status and if they would need on-going generation from the Huntly Rankine units if demand curtailment is required.
11:28	TSO publishes Critical Notice 37711 on OATIS (Maui). Critical Contingency Declaration Notice CC-0038.
11:31	TSO publishes Critical Notice 37712 on OATIS (Vector). Critical Contingency Declaration Notice CC-0038.
11:37	TSO issues Security of Supply Update #1 to CCO.
11:35	TSO SCADA indicates Maui linepack at 236TJ and losing 4.6TJ/hr. KGTP pressure is 2.4 hours to 37.5barg. Rotowaro pressure threshold now at 5.2 hours to 32barg. (Threshold is 3 hours to 32barg).
11:55	TSO SCADA indicates Maui linepack at 235TJ and losing 3.6TJ/hr. KGTP pressure threshold 2.8 hours to 37.5barg (improving). Rotowaro pressure threshold at 5.6 hours to 32barg (improving). Pohokura flowing at 3.7TJ/hr (target 8TJ/hr).
12:00	CCO determines that pressure threshold declines have ceased and curtailment under the CCM Regulations is not required although the system is not fully stabilised.
12:35	TSO SCADA indicates Maui linepack at 233TJ and losing 2.5TJ/hr. KGTP pressure threshold 4 hours to 37.5barg (improving). Rotowaro pressure threshold at 6.6 hours to 32barg (improving). Pohokura flowing at 4.4TJ/hr.
12:50	CCO prepares Status Update Notice CC-0039 and consults with TSO on content who confirms that the notice concurs with the TSO's understanding of the situation.
12:55	TSO SCADA indicates Maui linepack at 231TJ and losing 1.6TJ/hr. KGTP pressure threshold 6.3 hours to 37.5barg (improving). Rotowaro pressure threshold at 6.6 hours to 32barg (improving). Pohokura flowing at 5.4TJ/hr (target 8TJ/hr).
13:10	CCO issues Status Update CC-0039 by email to Stakeholders listed in the Information Guide issued advising curtailment not required at this time and CCO is continuing to monitor the situation.
13:12	CCO uploads Status Update Notice and updates "Current CC Events" page on CCO website.
13:15	CCO sends SMS Message to Stakeholders to advise that Status Update Notice CC-0039 has been issued.
13:18	TSO publishes Critical Notice 37713 on OATIS (Maui). Critical Contingency Status Update Notice CC-0039.
13:21	TSO publishes Critical Notice 37714 on OATIS (Vector). Critical Contingency Status Update Notice CC-0039.
13:43	CCO updates Electricity System Operator that any curtailment under the CCM Regulations of any electricity generation now unlikely provided system continues to recover at current rates and stays stable.

Time	Action Taken
13:55	TSO SCADA indicates Maui linepack at 231TJ and gaining 0.8TJ/hr. KGTP pressure now increasing and Rotowaro pressure stabilised. Pohokura flowing at 7.6TJ/hr.
14:24	TSO issues Security of Supply Update #2 to CCO. TSO advises that "linepack still remains very low with an ongoing risk of dropping below CC threshold until normal operational levels are reached and maintained".
14:55	TSO SCADA indicates Maui linepack at 231TJ and gaining 1.9TJ/hr. Pohokura flowing at 7.8TJ/hr.
15:00	CCO prepares Status Update Notice #2 CC-0039 and consults with TSO on content and TSO confirms that the notice concurs with the TSO's understanding of the situation.
15:15	CCO issues Status Update #2 CC-0039 by email to Stakeholders listed in the Information Guide advising increased production and/or curtailment not required but cannot be fully discounted due to the potential impact of the evening peak period.
15:20	CCO uploads Status Update Notice #2 and updates "Current CC Events" page on CCO website.
15:27	CCO sends SMS Message to Stakeholders to advise that Status Update Notice CC-0039 has been issued.
15:28	CCO re-issues Status Update #2 CC-0039 by email to Stakeholders listed in the Information Guide as a correction. Previous email at 15:15 had "Termination Notice" in the subject line which was an error.
15:36	TSO publishes Critical Notice 37723 on OATIS (Maui). Critical Contingency Status Update Notice CC-0040.
15:38	TSO publishes Critical Notice 37724 on OATIS (Vector). Critical Contingency Status Update Notice CC-0040.
15:55	TSO SCADA indicates Maui linepack at 232TJ and gaining 3.1TJ/hr. Pohokura flowing at 8.7TJ/hr.
16:19	CCO updates Electricity System Operator that curtailment under the CCM Regulations of any electricity generation still unlikely provided system continues to recover at current rates and stays stable over the evening peak period.
16:55	TSO SCADA indicates Maui linepack at 233TJ and gaining 2.1TJ/hr. Pohokura flowing at 8.7TJ/hr.
17:55	TSO SCADA indicates Maui linepack at 234TJ and gaining 1.6TJ/hr. Pohokura flowing at 8.7TJ/hr.
18:00	CCO consults with TSO to determine if system is now considered "stable" and no material increase in demand is reasonably expected. TSO and CCO concur that CCO can be terminated at 18:15.
18:10	CCO prepares Termination Notice CC-0041 and consults with TSO on content and TSO confirms that the notice concurs with the TSO's understanding of the situation.
18:20	CCO emails Critical Contingency Termination Notice CC-0041 to TSO and Stakeholders.
18:22	CCO uploads CC Termination Notice and updates "Current CC Events" page.
18:23	CCO sends SMS message to Stakeholders to advise that Critical Contingency Termination Notice CC-0041 has been issued.

Time	Action Taken
18:30	TSO publishes Critical Notice 37726 on OATIS (Maui). Critical Contingency Termination Notice CC-0041.
18:32	TSO publishes Critical Notice 37727 on OATIS (Vector). Critical Contingency Termination Notice CC-0041.

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:	23 May 2017
Time:	11:10am
Notice Number:	CC-0038
Notice Type:	Declaration of Critical Contingency
Notice Issued To:	First Gas TSO Stakeholders listed in Information Guide Interested Parties
CCO Instruction to TSO:	A Critical Contingency has been declared. Communications under the Communications Plan are to commence immediately. Issue notice of Declaration of Critical Contingency to Large Consumers and Retailers within 30 minutes of receiving this notice. Ensure an appropriate critical notice is posted on OATIS as soon as reasonably practicable. The CCO will determine any demand curtailment requirements and advise accordingly.
Critical Contingency Declaration Time & Date:	10:50 on 23 May 2017
Event causing Critical Contingency:	An imbalance between supply and demand on the Transmission system.
Summary of actions being taken to resolve event and estimated time to resolve:	Pohokura Production Station has now resumed flow following a planned outage. During the outage, system linepack and pressures dropped to the point where the critical contingency pressure threshold at Kapuni Gas Treatment Plant was breached. The CCO is required to declare a critical contingency because of the pressure threshold breach. It is anticipated that Pohokura will continue to resume flow to normal rates which will re-balance the system. The CCO has determined that curtailment is currently not required but is closely monitoring the situation.
CCO determination on Regional Critical Contingency Status:	Non-Regional
Areas of transmission system affected:	All areas

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 First Gas CCMP's.

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 <http://www.cco.org.nz>

The CCO will advise persons who have notified their interest in receiving advice of critical contingency declarations in accordance with **Regulation 51(2)**.

Status Update Notice

Date:	23 May 2017
Time:	13:10
Notice Number:	CC-0039
Notice Type:	Status Update
Notice Issued To:	Stakeholders listed in Information Guide
Notice Copied To:	First Gas TSO
Date and Time Critical Contingency Declared:	10:50 on 23 May 2107
CCO determination on Regional Critical Contingency Status:	Non-Regional
Critical contingency precipitated by:	An imbalance between supply and demand on the Transmission system.
Geographic area or areas affected:	All areas
Details of Event resolution:	<p>Pohokura Production Station has now resumed flow following a planned outage. During the outage, system linepack and pressures dropped to the point where the critical contingency pressure threshold at Kapuni Gas Treatment Plant was breached.</p> <p>Pohokura has continued to resume flowing towards pre-planned outage rates and the operator has advised that they anticipate being able to deliver their scheduled gas quantities for the transmission day.</p>
Estimated Time to repair underlying problem (if known):	Not applicable.
CCO actions being taken to stabilise the gas system:	<p>Because of the pressure threshold breach, the CCO was required to declare a critical contingency.</p> <p>The Kapuni pressure threshold is no longer in breach although linepack levels remain low and are still decaying but at a slower rate.</p> <p>No further CCO action is planned at this stage. However, the need for increased production and/or demand curtailment cannot be discounted until the supply of gas into the system is sufficient to meet or exceed the reasonably expected demand.</p> <p>The CCO is closely monitoring this situation in liaison with the TSO and will advise if the situation requires further CCO action.</p>
Curtailment Directions issued by CCO and types of consumer installations affected:	Not applicable as no curtailment is required at this time.
Estimated time and nature of revised curtailment directions:	Not applicable as no curtailment has occurred.
Estimated restoration schedule (if known):	Not applicable as no curtailment has occurred.
Other Information:	Not applicable.

This notice is supplementary to the other notices issued by the CCO during a critical contingency.

This notice does not contain any directions or declarations and is published to provide more information and forecasts about the status of the critical contingency.

The information contained in Status Update Notices is based on the best information/knowledge available to the CCO at the time of publication and may vary over the duration of the event as the situation changes/develops.

The CCO will issue this Status Update to the stakeholders listed in the CCO Information Guide and publish this notice on the CCO web site at <http://www.cco.org.nz>

Status Update Notice

Date:	23 May 2017
Time:	15:20
Notice Number:	CC-0040
Notice Type:	Status Update #2
Notice Issued To:	Stakeholders listed in Information Guide
Notice Copied To:	First Gas TSO
Date and Time Critical Contingency Declared:	10:50 on 23 May 2107
CCO determination on Regional Critical Contingency Status:	Non-Regional
Critical contingency precipitated by:	An imbalance between supply and demand on the Transmission system.
Geographic area or areas affected:	All areas
Details of Event resolution:	During a planned outage of the Pohokura Production Station, pipeline linepack and pressures on the Transmission System dropped to the point where the Critical Contingency pressure threshold at Kapuni Gas Treatment Plant was breached. The CCO was required to declare a Critical Contingency because of the pressure threshold breach.
Estimated Time to repair underlying problem (if known):	Not applicable.
CCO actions being taken to stabilise the gas system:	<p>Pohokura Production Station has returned to anticipated flows and Transmission System pressures are above the Critical Contingency thresholds.</p> <p>The supply of gas into the system is currently exceeding demand and pipeline linepacks are increasing slowly. However, it is anticipated that system demand will increase over the evening peak period.</p> <p>The CCO cannot determine that the Critical Contingency be terminated until the supply of gas into the system is sufficient to meet or exceed the reasonably expected demand. Therefore, the need for increased production and/or demand curtailment cannot be fully discounted at this time.</p> <p>No further CCO action is planned at this stage. However, the CCO is closely monitoring this situation in liaison with the TSO and will advise if the situation requires further CCO action.</p>
Curtailement Directions issued by CCO and types of consumer installations affected:	Not applicable as no curtailment is required at this time.
Estimated time and nature of revised curtailement directions:	Not applicable as no curtailment has occurred.

Estimated restoration schedule (if known):	Not applicable as no curtailment has occurred.
Other Information:	Not applicable.

This notice is supplementary to the other notices issued by the CCO during a critical contingency.

This notice does not contain any directions or declarations and is published to provide more information and forecasts about the status of the critical contingency.

The information contained in Status Update Notices is based on the best information/knowledge available to the CCO at the time of publication and may vary over the duration of the event as the situation changes/develops.

The CCO will issue this Status Update to the stakeholders listed in the CCO Information Guide and publish this notice on the CCO web site at <http://www.cco.org.nz>

Critical Contingency Termination Notice

Date:	23 May 2017
Time:	18:20
Notice Number:	CC-0041
Notice Type:	Critical Contingency Termination
Notice Issued To:	First Gas TSO Stakeholders listed in Information Guide Interested Parties
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:	18:15 on 23 May 2017
Current Status:	The CCO has determined that the Critical Contingency situation has been resolved. The supply of gas into the system is currently sufficient to meet or exceed the reasonably expected demand.
Event that caused Critical Contingency:	During a planned outage of the Pohokura Production Station, pipeline linepack and pressures on the Transmission System dropped to the point where the Critical Contingency pressure threshold at Kapuni Gas Treatment Plant was breached. The CCO was required to declare a Critical Contingency because of the pressure threshold breach.
Details of Event resolution:	Pohokura Production Station returned to anticipated flows and Transmission System pressures are above the Critical Contingency thresholds.
CCO determination on Regional Critical Contingency Status:	Non-Regional.
Areas of transmission system affected:	All areas.

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's.

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 <http://www.cco.org.nz>

Appendix 2:

Notices Sent by TSO

maui **OATIS** Open Access Transmission Information System
 Thursday, 25 May 2017 3:48 p.m.
 Logged in as: MAUI Critical Contingency Operator

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Notice Type Critical
 Notice Identifier 37711
 Notice Name Critical Contingency Declaration Notice - CC-0038
 Published 23/05/2017 11:27
 Begin Date & Time 23/05/2017 11:22
 End Date & Time 30/05/2017 23:59
 Notice Period 7
 Required Response Indicator Action Required

Detail 23/05/2017
 Please refer to the attached notice from the Critical Contingency Operator

Attachments
[CC-0038 Declaration notice](#)

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Firstgas **OATIS** Open Access Transmission Information System
Vector Transmission Code (VTC)
 Thursday, 25 May 2017 3:50 p.m.
 Logged in as: VECTOR Miscellaneous Party (Vector) FOR Critical Contingency Operator

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Notice Type Critical
 Notice Identifier 37712
 Notice Name Critical Contingency Declaration Notice - CC-0038
 Published 23/05/2017 11:31
 Begin Date & Time 23/05/2017 11:28
 End Date & Time 30/05/2017 23:59
 Notice Period 7
 Required Response Indicator Action Required

Detail 23/05/2017
 Please refer to the attached notice from the Critical Contingency Operator

Attachments
[CC-0038 Declaration Notice](#)

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OATIS

Open Access Transmission Information System

Thursday, 25 May 2017 3:52 p.m.

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Notice Type Critical
Notice Identifier 37713
Notice Name Critical Contingency Status Update Notice - CC-0039
Published 23/05/2017 13:18
Begin Date & Time 23/05/2017 13:17
End Date & Time 30/05/2017 23:59
Notice Period 7
Required Response Indicator Action Required

Detail 23/05/2017
 Please refer to the attached notice from the Critical Contingency Operator

Attachments

[CC-0039 Status Update](#)

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OATIS

Open Access Transmission Information System
Vector Transmission Code (VTC)

Thursday, 25 May 2017 3:53 p.m.

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

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Notice Type Critical
Notice Identifier 37714
Notice Name Critical Contingency Status Update Notice - CC-0039
Published 23/05/2017 13:21
Begin Date & Time 23/05/2017 13:22
End Date & Time 30/05/2017 23:59
Notice Period 7
Required Response Indicator Action Required

Detail 23/05/2017
 Please refer to the attached notice from the Critical Contingency Operator

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[CC-0039 Status Update](#)

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OATIS

Open Access Transmission Information System

Thursday, 25 May 2017 3:53 p.m.

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Notice Type Critical
Notice Identifier 37723
Notice Name Critical Contingency Status Update Notice - CC-0040
Published 23/05/2017 15:36
Begin Date & Time 23/05/2017 15:36
End Date & Time 30/05/2017 23:59
Notice Period 7
Required Response Indicator Action Required

Detail 23/05/2017
 Please refer to the attached notice from the Critical Contingency Operator

Attachments

[CC-0040 Status Update](#)

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OATIS

Open Access Transmission Information System
Vector Transmission Code (VTC)

Thursday, 25 May 2017 3:54 p.m.

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Notice Type Critical
Notice Identifier 37724
Notice Name Critical Contingency Status Update Notice - CC-0040
Published 23/05/2017 15:38
Begin Date & Time 23/05/2017 15:39
End Date & Time 30/05/2017 23:59
Notice Period 7
Required Response Indicator Action Required

Detail 23/05/2017
 Please refer to the attached notice from the Critical Contingency Operator

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[CC-0040 Status Update](#)

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 Notice Identifier 37726
 Notice Name Critical Contingency Termination Notice - CC-0041
 Published 23/05/2017 18:30
 Begin Date & Time 23/05/2017 18:27
 End Date & Time 30/05/2017 23:59
 Notice Period 7
 Required Response Indicator Action Required

Detail 23/05/2017
 Please refer to the attached notice from the Critical Contingency Operator

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[CC-0041 Termination notice](#)

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Notice Type Critical
 Notice Identifier 37727
 Notice Name Critical Contingency Termination Notice - CC-0041
 Published 23/05/2017 18:32
 Begin Date & Time 23/05/2017 18:30
 End Date & Time 30/05/2017 23:59
 Notice Period 7
 Required Response Indicator Action Required

Detail 23/05/2017
 Please refer to the attached notice from the Critical Contingency Operator

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[CC-0041 Termination notice](#)

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