



STTM TECHNICAL SPECIFICATION – MARCH 2017

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STTM0317



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IMPORTANT NOTICE

Purpose & audience

This document describes the technical changes required to participant's systems for the Year-end Release/Mid-year Release (Release). AEMO provides this information as a service targeting business analysts and IT staff in participant organisations. It provides guidance about the changes to their market systems under the National Gas or Electricity Rules (Rules), as at the date of publication.

How to use this document

- If you have questions about the business aspects of these changes, please see Consultations on [AEMO's website](#).
- The references listed throughout this document are primary resources and take precedence over this document.
- [Text in this format](#), indicates a reference to a document on [AEMO's website](#).
- This document is written in plain language for easy reading. Where there is a discrepancy between the Rules, and information or a term in this document, the Rules take precedence.

AEMO reference numbers

Included in each project heading is a Quality Centre Identifier (QCID) that provides useful tracking information. There may be none, one, or more QCIDs relevant to each project heading.

References to change notices are CN followed by the change notice number.

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Distribution

Available to the public.

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Documents made obsolete

The release of this document changes only the version of STTM Technical Specification – March 2017.

Further Information

For further information, please visit AEMO's website www.aemo.com.au or contact:

AEMO Information and Support Hub Phone: 1300 AEMO 00 (1300 236 600) and follow the prompts.

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Feedback

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CONTENTS

1	Projects.....	4	2	Implementation.....	10
	(P346) Contingency Gas Confirmation ...	4	2.1	Approval or agreement to change	10
	1.1.1 Overview	4	2.2	Transition	10
	1.1.2 Current risk	4	2.3	Implications	10
	1.1.3 Benefits	4	2.4	Upgrade options	10
	1.1.4 Risk reduction	5	2.5	What happens if I do not upgrade?.....	10
	1.1.5 Risks associated with change	5			
	1.1.6 System Impact	5			
	1.1.7 Detail	5			

PROJECT LIST

This STTM Release includes the following projects:

(P346) Contingency Gas Confirmation.....	4
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GLOSSARY

Abbreviations

Abbreviation	Explanation
AEMO	Australian Energy Market Operator
AEST	Australian Eastern Standard Time
CG	Contingency Gas
SPI	Scheduling and Pricing Interface; the system used by AEMO to produce schedules for the STTM.
STTM	Short Term Trading Market

Special terms

Term	Definition
Market time	Australian Eastern Standard Time
Rules	National Gas Rules



1 PROJECTS

This STTM Release includes changes related to participants' IT systems. This technical specification describes the projects planned by AEMO from a participant perspective. AEMO provides this information as a service targeting business analysts and IT staff in participant organisations.

(P346) Contingency Gas Confirmation

1.1.1 Overview

Contingency Gas is a market mechanism for the STTM, designed to alleviate supply shortfalls and prevent involuntary gas load curtailment within an STTM hub. Since market start, AEMO has used the following manual process:

1. Participants manually complete a Contingency Gas confirmation form and submit it to AEMO.
2. AEMO receive each confirmation form manually and validate the confirmation data.
3. AEMO inputs the data into the STTM market system.
4. AEMO calculates tie breaking and schedules Contingency Gas.

1.1.2 Current risk

AEMO considers there is an increased likelihood of Contingency Gas events due to the commencement of the Gladstone LNG exports and decreased supply in the southern states causing a supply tightness in the Australian east-coast gas markets.

In the 2015–16 financial year, there were two Contingency Gas events resolved through industry response. If the industry had not responded by renominating to other STTM facilities, the estimated value of the Contingency Gas scheduled would have been \$12 million and \$28 million respectively.

Also, the manual Contingency Gas process represents a risk to participants and AEMO due to manual processing errors. This was observed during the September 2015 Sydney Contingency Gas exercise, where 5 out of 14 confirmations submitted by participants were non-compliant. Under the National Gas Rules (NGR) and STTM Procedures, AEMO is obligated to exclude non-compliant confirmations. If this had been an actual Contingency Gas event, it would have resulted in insufficient Contingency Gas available for scheduling, leading to involuntary gas load curtailment in Sydney.

1.1.3 Benefits

A streamlined Contingency Gas process provides the following benefits for participants:

- NGR obligations are met when submitting Contingency Gas confirmations.
- Accurate and valid confirmation submissions.
- Accurate and valid scheduling outcomes.



1.1.4 Risk reduction

The project reduces participants' risk by replacing the manual Contingency Gas processes required for data input, validation, and scheduling with a streamlined automated process and reduces the likelihood of the processes contributing to:

- Participants manually submitting non-compliant confirmations.
- A scheduling error caused by an error in AEMO's manual validation and scheduling processes.
- Post-event settlement disputes due to AEMO excluding erroneous confirmations.
- Material Involuntary Curtailment in an STTM hub.

1.1.5 Risks associated with change

No critical impacts to participants identified.

1.1.6 System Impact

AEMO is making the following changes to the STTM market systems:

- Developing a SWEX Contingency Gas Confirmation input screen for participants to validate confirmations as they are submitted.
- Enhancements to automate the Contingency Gas scheduling process by accounting for participants inputting Contingency Gas confirmations through SWEX and calculating tie breaking for scheduling.
- Developing two new MIS reports (see Detail below):
 1. INT715A – Trading Participant Active Contingency Gas Bids & Offers.
 2. INT715B – Trading Participant Contingency Gas Quantity Confirmation.

There are no changes to SWEXIE, as the cost required to implement the functionality cannot be justified. In addition, participants using SWEXIE indicate this is not required.

1.1.7 Detail

INT715A – Trading Participant Active Contingency Gas Bids & Offers

This report provides Trading Participants with their active Contingency Gas bids and offers for the next gas day. Trading Participants can view a summary of the CG bids and offers used in the CG bid/offer confirmation process if a CG event is called in the next gas day.

Access	Trading Participant
Issued by	18:00 AEST after Contingency Gas Bids/Offer close for the next gas day
Report period	All contingency gas bid/offer records valid for the next gas day
Trigger	Time



Access	Private
Output filename	int715A_v1_active_contingency_gas_bid_offer_rpt_[pid]~yyyymmddhhmmss
Primary keys	contingency_gas_bid_offer_identifier contingency_gas_bid_offer_step_number

Column Name	Not Null	Comment
gas_date	True	Gas date of each bid and offer
trading_participant_identifier	True	The unique identifier of the Trading Participant
trading_participant_name	True	The name of the Trading Participant
hub_identifier	True	The unique identifier of the hub
hub_name	True	The name of the hub
facility_identifier	True	The unique identifier of the facility
facility_name	True	The name of the facility
flow_direction	True	This field indicates whether the contingency gas bid or offer is made based on a contract to supply gas to the hub or withdraw gas from the hub. Valid values are: <ul style="list-style-type: none">▪ T (supply gas to the hub)▪ F (withdraw gas from the hub and at the hub) Note: CG bids and offers based on a Distribution contract to withdraw gas at the hub are displayed as F
contingency_gas_bid_offer_identifier	True	The unique identifier for the contingency gas bid/offer
contingency_gas_bid_offer_step_number	True	The step within each contingency gas bid/offer
contingency_gas_bid_offer_type	True	Flagged to indicate whether this is an offer to increase gas at the hub or a bid to decrease gas at the hub. Valid values are: <ul style="list-style-type: none">▪ B (bid to decrease gas at the hub)▪ O (offer to increase gas at the hub)



Column Name	Not Null	Comment
contingency_gas_bid_offer_step_price	True	The price at which the contingency bid or offer is made
contingency_gas_bid_offer_step_quantity	True	Cumulative quantity of contingency gas offer or bid on a contingency gas bid/offer step
contingency_gas_bid_offer_step_registered_reference	False	The registered step reference. Only populated if a Trading Participant has pre-registered their steps
contingency_gas_bid_offer_comments	False	The comment entered by the participant when submitting the Contingency Gas bid/offer confirmation
last_update_datetime	True	The date & time the CG bid/offer was last updated i.e. when the record is submitted
last_update_by	True	The user name used in the CG bid/offer submission
report_datetime	True	The date and time the report was produced

INT715B – Trading Participant Contingency Gas Quantity Confirmation

This report provides Trading Participants with confirmation of their Contingency Gas bid and offer quantity confirmation.

Access	Trading Participant
Issued By	When a contingency gas bid/offer quantity is confirmed
Report period	The contingency gas bid/offer record that was confirmed
Trigger	Event
Access	Private
Output filename	int715B_v1_contingency_gas_bid_offer_quantity_confirmation_rpt_[pid]~yyyymmddhhmmss
Primary Key	contingency_gas_bid_offer_identifier contingency_gas_bid_offer_step_number



Column Name	Not Null	Comment
gas_date	True	Gas date of each bid and offer
trading_participant_identifier	True	The unique identifier of the Trading Participant
trading_participant_name	True	The name of the Trading Participant
hub_identifier	True	The unique identifier of the hub
hub_name	True	The name of the hub
facility_identifier	True	The unique identifier of the facility
facility_name	True	The name of the facility
flow_direction	True	<p>This field indicates whether the contingency gas bid or offer is made based on a contract to supply gas to the hub or withdraw gas from the hub. Valid values are:</p> <ul style="list-style-type: none">▪ T (supply gas to the hub)▪ F (withdraw gas from the hub and at the hub) <p>Note: CG bids and offers based on a Distribution contract to withdraw gas at the hub are displayed as F</p>
contingency_gas_bid_offer_identifier	True	The unique identifier for the contingency gas bid/offer
contingency_gas_bid_offer_step_number	True	The step within each contingency gas bid/offer
contingency_gas_bid_offer_type	True	<p>This field is a flag to indicate whether this is an offer to increase gas at the hub or a bid to decrease gas at the hub. Valid values are:</p> <ul style="list-style-type: none">▪ B (bid to decrease gas at the hub)▪ O (offer to increase gas at the hub)
contingency_gas_bid_offer_step_price	True	The price at which the contingency bid or offer is made
contingency_gas_bid_offer_step_quantity	True	Cumulative quantity of contingency gas offered or bid on a contingency gas bid/offer step
contingency_gas_bid_offer_confirmed_step_quantity	True	Confirmed cumulative quantity of contingency gas offered or bid confirmed on a contingency gas bid/offer step



Column Name	Not Null	Comment
contingency_gas_bid_offer_step_confirmation_type	True	This field indicates the method of confirmation used. Valid values are: <ul style="list-style-type: none">▪ T (Total Quantity)▪ S (Registered Steps)
contingency_gas_bid_offer_step_registered_reference	False	The registered step reference. Only populated when the confirmation method is 'Registered Steps' and the Trading Participant has pre-registered one or more steps
contingency_gas_bid_offer_comments	False	The comment entered by the participant when submitting the Contingency Gas bid/offer confirmation
last_update_datetime	True	The date & time the CG bid/offer was last updated i.e. when the record is submitted
last_update_by	True	The user name of the person who performed the CG bid/offer confirmation
report_datetime	True	The date and time the report was produced

The following new fields are identified, and are added to the data dictionary.

Field Name	Data Type
contingency_gas_bid_offer_comments	Varchar (255)
contingency_gas_bid_offer_step_confirmation_type	Char (1)
contingency_gas_bid_offer_step_registered_reference	Varchar (20)

For a comprehensive overview of the full data dictionary, see the [STTM Reports Specifications](#).



2 IMPLEMENTATION

2.1 Approval or agreement to change

There is no approval or agreement to change required for this Release.

2.2 Transition

There is no transition required for this release.

2.3 Implications

To maintain systems in-line with AEMO's market systems, participants need to:

- Review and assess the impact on their market systems with respect to the changes implemented as part of this Release.
- Change their systems prior to the implementation of this Release (if required).
- Schedule staff and resources to upgrade their market systems for the production implementation of this Release.

2.4 Upgrade options

Option 1

- Update local processes and technical interfaces to suit the changes.

Option 2

- If changes are irrelevant to participant business processes and technical interfaces, ignore this release.

AEMO encourages participants to make use of the pre-production period, to assess and test any impact to their market systems and business processes.

Participants using data replication products critical to their business are strongly advised to participate in the pre-production rollout and testing period.

2.5 What happens if I do not upgrade?

Participants not upgrading their systems for the new MIS reports must rely on their own manual processes to receive them.