

# STTM EVENT– DELAYED EX-POST SUBMISSION – SYDNEY – 1 JULY 2018

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DOCUMENT REF: STTM ER 18/003

DATE: 6 August 2018

FINAL

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# IMPORTANT NOTICE

## Purpose

AEMO has prepared this report pursuant to Section 7.6 of the STTM Procedures, using information available as at 27 July 2018, unless otherwise specified.

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## Glossary

Terms or Abbreviations	Explanation
AEMO	Australian Energy Market Operator
AEST	Australian Eastern Standard Time
CRN	Contract Registration Number which is a unique identifier for a Registered Facility Service generated by AEMO systems.
GSO	Gas System Operations
EGP	Eastern Gas Pipeline
MIS	Market Information System
MOS	Market operator services
MSD	MOS step allocation data (daily file). Note MSD files are only submitted for pipelines.
MSP	Moomba to Sydney Pipeline
NGR	National Gas Rules
PAD	Facility Allocation data (daily file). Note PAD files are submitted for all facilities.
PPOST	Provisional ex-post schedule Used when not all inputs are received for the ex-post schedule and default data is used
RTO	AEMO Real Time Operations team
STTM	Short Term Trading Market
SWEX	STTM WebExchanger
SWEXIE	SWEX Interface Engine
VPN	Virtual Private Network – A virtual (private) network that can be used to securely connect computers physically connected to a larger (public) network
XPOST	Ex-Post schedule

Any term with a defined meaning in Part 20 of the NGR or the STTM Procedures has the same meanings when used in this report.

All times are in AEST.

## Summary

On 2 July 2018, a provisional ex-post (PPOST) schedule was triggered for the Sydney hub leading to a delayed ex-post (XPOST) schedule for gas day 1 July 2018. This was due to the STTM facility allocation data for the MSP, submitted by APA, not passing validation by 11am. In accordance with the NGR and STTM Procedures, a provisional ex post imbalance price was published at 11.00 am. The data submission window was extended to 3.00 pm and calculation of the ex post imbalance price was delayed to 4.00 pm.

The APA submission successfully passed validation by 1.30 pm. The data in these successful files was used as an input into the calculation of the delayed ex post imbalance price for the Sydney hub.

There was no market impact.

This report has been prepared under Section 7.6 of the STTM Procedures to assess the actions taken by STTM facility operators and AEMO in relation to the event and the effect of the event on the operation of the STTM.

## Description of event

APA submitted a PAD file and a MSD file with correct allocations to AEMO at about 9am. At 10.20 am, APA submitted updated files to AEMO. The updated MSD file and PAD file did not have matching data, resulting in the MSD file being rejected. The rejection notice was received by APA after the 11am cut-off. This was due to the AEMO SWEXIE taking over 30 minutes to process the files. SWEXIE usually takes less than a minute to process files.

A PPOST schedule was run by AEMO at 11.02 am, due to an invalid APA submission.

APA resubmitted the PAD and MSD files at about 1.10pm after discussing the issue with AEMO Support Hub and AEMO RTO. The files were a valid pair and were accepted by the AEMO systems.

The delayed XPOST was published at 3.02 pm AEST.

## Assessment of actions taken by APA

APA followed all policies and procedures correctly.

It is likely that If APA had received the rejection notice prior to 11am, a valid resubmission would have been made.

## Assessment of effect on the operation of the STTM

A provisional ex post market imbalance price was produced just after 11am in accordance with the NGR. The STTM systems determined the delayed ex-post imbalance price just after 3pm in accordance with section 7.2.1C of the STTM Procedures.

Market reporting operated as expected.

An SMS/email message was sent to the market at 11.02 am advising a provisional ex post imbalance price had been published due to a missing PAD file.

Further investigation was undertaken into the pricing outcomes from the PPOST and XPOST schedules relative to the ex-ante price. The XPOST imbalance amount was -3,493 GJ, which created the correct XPOST price of \$9.80/GJ.

## Market Impacts

The market settlement and prudential monitoring outcomes were correctly based on the delayed ex-post imbalance price of \$9.80/GJ. In addition, there have been no reported impacts from any trading participants.

AEMO performed a thorough investigation into why SWEXIE took so long to process the files submitted by APA at around 10.30 am. The back-end logs indicate that SWEXIE was processing a large amount of unexpected transactions submitted by other market participants, and no process error occurred. This issue of slow processing has been escalated with the AEMO Technology team to find a resolution.

## **Conclusion**

There were no market impacts resulting from the event.

AEMO processes for data validation, substitution and price setting fully operated as intended under the NGR, without material impact on market outcomes.

AEMO investigated why SWEXIE took more than 30 minutes to process the failed MSD file, but it is difficult to replicate. AEMO has a work-program underway to upgrade the STTM Database Server, and this is expected to improve processing capacity of the SWEXIE. This upgrade is expected to be implemented in late 2018.

## Appendix A: Chronology for Gas Day 1 July 2018

The first PAD, PAD (A), was correct but the second, PAD (B), was missing some MOS. Therefore, the second MSD was rejected. All MSD files submitted contained the same data.

Time (AEST)	Event / Action
8.55 am	APA submit PAD and MSD files that pass validation.
10.23 am	APA submit updated PAD and MSD files.
11.00 am	--- CUT OFF ---
11.02 am	The PPOST schedule completed for the Sydney hub with alarms advising of default data being used.
11.04 am	MSD rejection received by APA
1.11 pm	APA submit updated PAD and MSD files. The MSD file is rejected.
1.26 pm	APA submit updated PAD and MSD files These pass validation.
3.02 pm	A delayed ex-post pricing schedule for the Sydney hub was completed.

## Appendix B: Facility Allocation data and the ex post imbalance price

By 4.5 hours after the start of each gas day, the allocation agent for the relevant STTM facility is required to submit the STTM facility allocation for the previous gas day. The gas day starts at 6.30am at the Sydney and Adelaide hubs, and 8.00am for the Brisbane hub.

The STTM facility allocations provide AEMO with the final delivered quantity of gas for the relevant gas day. The STTM facility allocations are used as an input into the calculation of the ex post imbalance price for the gas day in question. The ex post imbalance price is one of the prices used to determine a trading participant's deviation payment or charge.

If the STTM facility allocations are not submitted by 4.5 hours after the start of the gas day, an extended period is made available for the allocation agent to deliver the STTM facility allocations for the relevant facility by 8.5 hours after the start of the gas day.

If the STTM facility allocations are not submitted by 8.5 hours after the start of the gas day, AEMO will use default allocations for the relevant facility to generate the ex post imbalance price by 9.5 hours after the start of the gas day.

For any STTM pipeline, the daily STTM facility allocation notice consists of two files, a facility allocation file and a market operator service (MOS) step allocation file (also known as the PAD and MSD files respectively). For each STTM facility allocation notice, the PAD file is required to be submitted before the MSD file and the two files are typically submitted a few minutes apart by the pipeline operators. Validations by the AEMO STTM systems are performed as follows:

- *Individual PAD and MSD validations*—validations are performed individually on the facility allocations (PAD) and MOS step allocation file (MSD) for each pipeline facility at the time the pipeline operator submits each file;
- *The PAD/MSD matching check*—a validation is run to check that the total MOS quantities (excluding overrun MOS) in both the facility allocation file and MOS step allocation file for each pipeline match. This is run at the time the MOS step allocation file is submitted. The MSD submission is rejected if it fails this test.
- *The PAD/MSD cut-off check*—in case the PAD and MSD sequence is not followed, the STTM system also performs a daily check, at the D+1 allocation submission cut-off time, that there is a valid matching pair of facility allocations and MOS step allocation files for each STTM pipeline. Accordingly, this is required to be run at 11.00am for the Sydney and Adelaide hubs and 12.30pm for the Brisbane hub. In the absence of a matching pair of valid allocation files, default allocations for the relevant STTM pipeline are applied and used as an input into the calculation of the provisional or ex post imbalance price.

As far as the NGR and STTM Procedures are concerned these two files are treated as one allocation notice and neither can be considered to be validly submitted without the other.