MOS ESTIMATES FOR MOS PERIOD 1 MARCH 2012 – 31 MAY 2012

Prepared By: Gas System Operations

Version No: 1

Status: Final

Date: 30 December 2011

Disclaimer

Purpose - *This document has been prepared for the sole purpose of the short term trading market ('STTM') in accordance with rule 397 of the National Gas Rules (STTM rules).*

No Reliance *– This document contains data provided by third parties and might contain conclusions or forecasts and the like that rely on that data. While all reasonable care was taken in the preparation of this document, any use of this document is entirely at your risk. You should verify and check the accuracy, completeness, reliability and suitability of this document for any use to which you intend to put it and seek independent expert advice before using it, or any information contained in it.*

No Warranty *- Neither AEMO, nor any of AEMO's advisers, consultants or other contributors to this document (or their respective associated companies, businesses, partners, directors, officers or employees), make any representation or warranty, express or implied, as to the currency, accuracy, reliability or completeness of the information contained in this document.*

No Liability *- To the maximum extent permitted by law, neither AEMO, nor any of its advisers, consultants or other contributors to this document (or their respective associated companies, businesses, partners, directors, officers or employees), shall have any liability (whether arising from negligence or otherwise) in respect of any use of the information (including any reliance on its currency, accuracy, reliability or completeness) contained in this document.*

1. Introduction

MOS (Market Operator Service) estimates provide a guide of the largest daily increase and decrease MOS that market participants may reasonably expect for each STTM pipeline. The MOS estimate is based on historical data and therefore does not limit the quantity of MOS that may be experienced in the future.

The MOS estimate determines the value of overrun MOS. If the MOS estimate for an STTM pipeline exceeds the total MOS offers, then overrun MOS is paid at the weighted average price within the MOS stack. Otherwise, if the total MOS offers for an STTM pipeline exceed the MOS estimate then overrun MOS is paid at the highest priced offer within the stack.

In accordance with rule 397 of the National Gas Rules (STTM Rules), AEMO publishes MOS estimates for each STTM pipeline and each MOS period prior to the commencement of the related MOS period. In determining the MOS estimates for each MOS period, AEMO must use the data specified in Section 5.2 (b) of the STTM Procedures.

2. The MOS period

MOS periods are defined in section 5.1 of the STTM Procedures. The MOS estimates contained in this document relate to the MOS period 1 Mar 2012 – 31 May 2012.

3. MOS estimates for MOS period 1 Mar 2012 – 31 May 2012

The MOS quantities for the MOS period 1 Mar 2012 – 31 May 2012 are derived from daily allocated MOS quantities for the period 1 Mar 2011 – 31 May 2011 for the following STTM pipelines:

- Moomba to Sydney pipeline (MSP) and the Eastern Gas Pipeline (EGP) supplying gas to the Sydney hub; and
- Moomba to Adelaide pipeline (MAP) and the SEA Gas pipeline (SEAGas) connected to the Adelaide hub.

The MOS quantities for the MOS period 1 Mar 2012 – 31 May 2012 are derived from historic daily allocation and nomination quantities for the following STTM pipeline:

- Roma to Brisbane pipeline (BRI) supplying gas to the Brisbane hub.

The MOS quantities for each STTM pipeline and each gas day are as determined in accordance with the published methodology for determining MOS estimates.

Positive MOS quantities indicate the requirements for a forecast increase in MOS whereas negative MOS quantities indicate the requirements for a forecast decrease in MOS.[1]

[1] Note that MOS increase offers and MOS decrease offers must comply with the requirements in section 5.4(b)(ii) and section 5.4(c)(ii) of the STTM Procedures, and should be greater than zero for the purpose of creating the MOS stacks.

© 2010 Australian Energy Market Operator Limited

Rule 397(1)(a) of the STTM Rules requires that AEMO publish its estimate of the maximum quantity of MOS (by way of increase and decrease) likely to be required on any gas day in the relevant MOS period. This is provided in Table 1 below.

Rule 397(1)(b) of the STTM rules specifies that AEMO must publish its estimate of the range of daily quantities of MOS (by way of increase and decrease) likely to be required, together with the number of gas days in the MOS period to which each of those estimated quantities applies. This is provided in the following tables and charts:

- Table 2 showing the summary statistics of the distributions of MOS quantities, including a measure of central location (median), two measures of dispersion/spread (the range and the inter-quartile range).[2] The means, standard deviations, the 5 and 95 percentile of the distributions are also shown together with the proportions of days in the MOS period with positive and negative MOS quantities.
- Table 3 showing the daily MOS quantities sorted in descending order and the number of day(s) associated with each estimated- quantity.
- Figure 1 displaying the curves of daily MOS quantities sorted in descending order from the highest to the lowest values.
- Figure 2 showing the Box plots which provide a graphical summary of the data and are useful tools for comparing the MOS quantities of the different STTM pipelines.

[2] The inter-quartile range is the range of values between the first (25%) and third quartiles (75%) of the distributions.

© 2010 Australian Energy Market Operator Limited

Table 1 – Maximum MOS quantities (GJ)

	Sydney MSP	Sydney EGP	Adelaide MAP	Adelaide SEA Gas	Brisbane RBP
MOS increase	22,156	3,742	12,113	95	7,820
MOS decrease	32,619	13,021	5,703	10,666	21,681

Figure 1 – Curves of daily MOS quantities

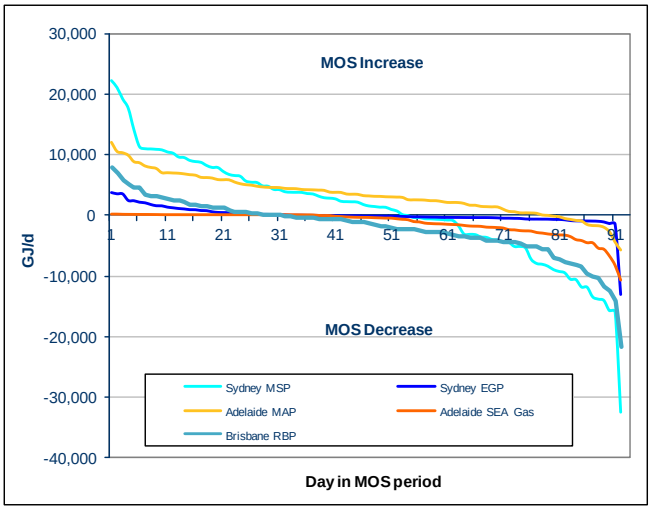
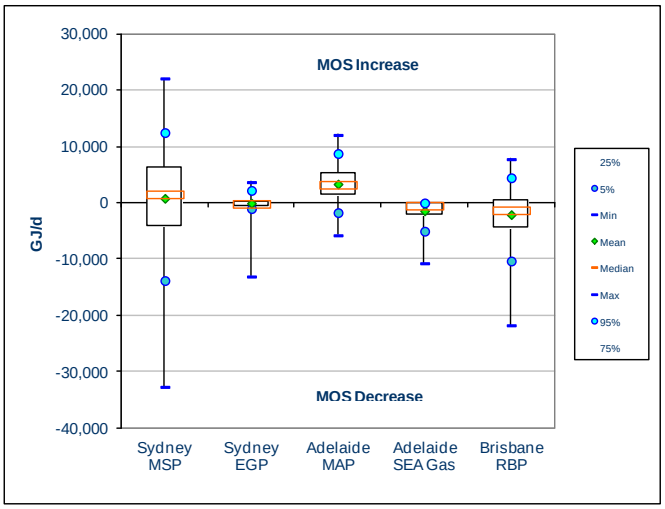


Table 2 – Summary statistics of daily MOS quantities

	Summary statistics GJ/d				
	Sydney MSP	Sydney EGP	Adelaide MAP	Adelaide SEA Gas	Brisbane RBP
Maximum	22,156	3,742	12,113	95	7,820
95%	12,533	2,267	8,816	45	4,512
75%	**6,390**	227	5,334	-1	514
50%	1,566	-127	3,268	-443	-1,263
25%	-4,113	-395	1,428	-2,067	-4,191
5%	-13,743	-964	-1,678	-4,977	-10,267
Minimum	-32,619	-13,021	-5,703	-10,666	-21,681
Mean	861	-4	3,399	-1,360	-2,036
Std deviation	8,799	1,703	3,303	1,972	4,665
% days positive	58%	38%	86%	21%	34%
% days negative	42%	62%	14%	79%	66%

Figure 2 – Distribution of daily MOS quantities



© 2010 Australian Energy Market Operator Limited

Table 3 – Daily MOS quantities (GJ/d)

No of days	Sydney MSP	Sydney EGP	Adelaide MAP	Adelaide SEA Gas	Brisbane RBP	No of days	Sydney MSP	Sydney EGP	Adelaide MAP	Adelaide SEA Gas	Brisbane RBP
1	22,156	3,742	12,113	95	7,820	1	1,447	-128	3,245	-448	-1,405
1	21,009	3,536	10,608	94	7,041	1	1,356	-132	3,176	-490	-1,488
1	19,135	3,520	10,385	65	5,663	1	1,241	-140	3,167	-517	-1,752
1	17,594	2,442	9,972	55	5,082	1	1,229	-140	3,105	-556	-1,845
1	14,093	2,400	8,917	49	4,550	1	868	-149	3,083	-557	-2,128
1	11,257	2,158	8,734	41	4,481	1	622	-167	3,047	-664	-2,236
1	10,903	2,058	8,198	39	3,520	1	18	-187	2,997	-754	-2,306
1	10,869	1,784	7,962	33	3,244	1	-155	-208	2,616	-821	-2,312
1	10,801	1,575	7,790	23	3,152	1	-468	-245	2,598	-1,121	-2,379
1	10,713	1,558	7,087	8	2,905	1	-470	-258	2,585	-1,173	-2,437
1	10,369	1,345	7,083	4	2,737	1	-663	-272	2,553	-1,373	-2,644
1	10,167	1,234	7,036	4	2,375	1	-683	-297	2,455	-1,438	-2,657
1	9,533	1,119	6,997	3	2,339	1	-746	-305	2,452	-1,481	-2,719
1	9,442	1,047	6,892	2	2,161	1	-794	-342	2,320	-1,502	-2,818
1	8,965	931	6,755	2	1,786	1	-872	-343	2,168	-1,562	-3,031
1	8,779	918	6,673	2	1,669	1	-948	-350	2,163	-1,598	-3,230
1	8,655	787	6,314	1	1,540	1	-1,820	-353	2,146	-1,642	-3,407
1	8,137	763	6,283	0	1,416	1	-3,200	-362	2,002	-1,749	-3,554
1	7,805	581	6,198	0	1,334	1	-3,243	-367	1,709	-1,844	-3,610
1	7,801	480	5,944	-1	1,319	1	-3,283	-369	1,701	-1,874	-3,709
1	7,132	452	5,918	-1	1,266	1	-3,665	-370	1,510	-1,901	-3,722
1	6,654	422	5,912	-1	761	1	-3,743	-371	1,468	-2,028	-4,091
1	6,474	277	5,539	-1	594	1	-4,092	-387	1,431	-2,056	-4,178
1	6,362	210	5,265	-1	487	1	-4,177	-418	1,419	-2,101	-4,229
1	5,567	191	5,103	-1	477	1	-4,507	-470	1,042	-2,174	-4,302
1	5,364	187	5,023	-2	411	1	-4,559	-471	680	-2,439	-4,348
1	5,316	158	4,847	-2	229	1	-5,242	-499	629	-2,473	-4,532
1	4,767	157	4,728	-2	181	1	-5,245	-518	442	-2,594	-4,639
1	4,704	151	4,665	-3	160	1	-5,507	-599	441	-2,639	-5,030
1	4,180	129	4,640	-4	77	1	-7,365	-623	422	-2,671	-5,127
1	4,141	95	4,620	-5	14	1	-8,060	-623	360	-2,908	-5,146
1	3,796	73	4,486	-5	-187	1	-8,190	-632	83	-2,997	-5,506
1	3,715	21	4,456	-7	-250	1	-8,507	-633	25	-3,140	-5,601
1	3,700	17	4,438	-8	-278	1	-9,077	-675	-115	-3,230	-6,940
1	3,686	15	4,308	-19	-298	1	-9,373	-680	-198	-3,304	-7,342
1	3,495	-1	4,271	-26	-398	1	-9,596	-741	-494	-3,328	-7,727
1	3,429	-5	4,248	-41	-402	1	-10,651	-865	-644	-3,566	-7,855
1	3,072	-18	4,204	-117	-539	1	-10,718	-918	-806	-4,062	-8,271
1	2,806	-19	4,165	-135	-573	1	-11,945	-925	-912	-4,216	-8,345
1	2,732	-23	3,871	-145	-654	1	-11,974	-938	-1,488	-4,569	-9,658
1	2,624	-59	3,838	-260	-685	1	-13,576	-948	-1,666	-4,582	-10,136
1	2,221	-72	3,822	-301	-706	1	-13,946	-983	-1,693	-5,460	-10,428
1	2,160	-83	3,556	-364	-780	1	-14,176	-1,095	-1,946	-5,636	-11,881
1	2,131	-84	3,525	-401	-994	1	-15,870	-1,364	-2,689	-6,743	-12,575
1	2,077	-85	3,507	-426	-1,087	1	-16,019	-1,441	-4,396	-8,252	-14,171
1	1,684	-126	3,291	-438	-1,120	1	-32,619	-13,021	-5,703	-10,666	-21,681

© 2010 Australian Energy Market Operator Limited