MOS ESTIMATES FOR MOS PERIOD 1 SEP 2010 – 30 NOV 2010

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1. Introduction

In accordance with rule 397 of the National Gas Rules (STTM Rules), AEMO is required to publish estimates of Market Operator Service (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 periods for 2010 calendar year are defined in section 12.1 of the STTM Procedures.

The MOS estimates contained in this document relate to the MOS period 1 Sep 2010 – 30 Nov 2010.

3. MOS estimates for MOS period 1 Sep 2010 – 30 Nov 2010

The MOS quantities for the MOS period 1 Sep 2010 – 30 Nov 2010 are derived from daily allocated and scheduled pipeline quantities for the period 1 Sep 2009 – 30 Nov 2009 provided by the pipeline operators of 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 (SEA Gas) connected to the Adelaide hub.

The MOS quantities for each STTM pipeline and each gas day are calculated as follows:

Daily MOS quantity (GJ) = allocated (actual) daily pipeline quantity – scheduled daily pipeline quantity

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]

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

[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.

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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.

A note on the estimate of the maximum quantity of MOS increase for EGP

- The estimated daily MOS quantity for EGP for all the gas days in the period 1 Sep 2009 to 30 Nov 2009 is negative. Consequently, the maximum MOS quantity for MOS increase for EGP for the MOS period 1 Sep 2010 to 30 Nov 2010 is set to zero.

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

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Table 1 – Maximum MOS quantities (GJ)

	Sydney MSP	Sydney EGP	Adelaide MAP	Adelaide SEA Gas
MOS increase	31,385	0	8,831	66
MOS decrease	43,922	6,588	14,458	1,683

Figure 1 – Curves of daily MOS quantities

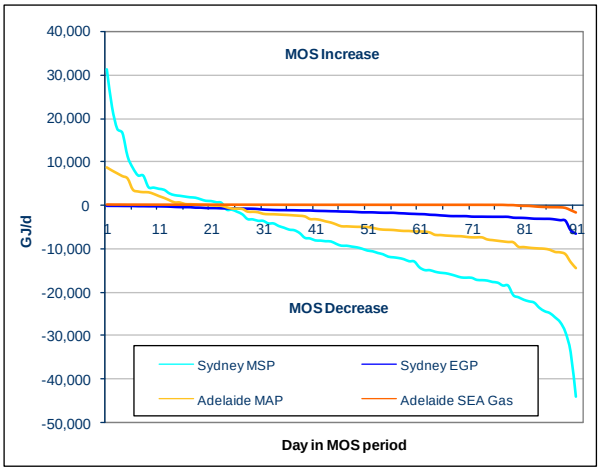

Table 2 – Summary statistics of daily MOS quantities

	Summary statistics GJ/d			
	Sydney MSP	Sydney EGP	Adelaide MAP	Adelaide SEA Gas
Maximum	31,385	-7	8,831	66
95%	10,011	-49	4,965	42
75%	-112	-609	-219	27
50%	-9,195	-1,357	-4,784	3
25%	-16,319	-2,441	-7,080	-2
5%	-25,184	-3,158	-10,469	-524
Minimum	-43,922	-6,588	-14,458	-1,683
Mean	-8,242	-1,541	-3,672	-67
Std deviation	12,026	1,220	4,842	255
% days positive	25%	0%	23%	68%
% days negative	75%	100%	77%	32%

Figure 2 – Distribution of daily MOS quantities

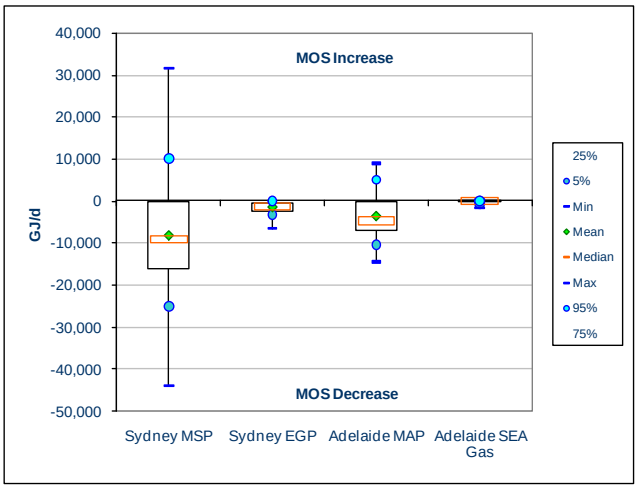

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Table 3 – Daily MOS quantities (GJ/d)

No of days	Sydney MSP	Sydney EGP	Adelaide MAP	Adelaide SEA Gas	No of days	Sydney MSP	Sydney EGP	Adelaide MAP	Adelaide SEA Gas
1	31,385	-7	8,831	66	1	-9,198	-1,375	-4,799	3
1	22,747	-18	8,107	57	1	-9,402	-1,410	-4,861	2
1	17,706	-22	7,455	53	1	-9,577	-1,474	-4,910	2
1	16,746	-36	6,807	51	1	-9,893	-1,540	-4,922	2
1	11,323	-47	6,247	42	1	-10,310	-1,540	-4,959	2
1	8,699	-52	3,683	42	1	-10,483	-1,548	-5,140	2
1	6,973	-90	3,260	39	1	-10,864	-1,609	-5,414	1
1	6,924	-91	3,107	38	1	-11,162	-1,648	-5,561	0
1	4,269	-112	3,078	35	1	-11,714	-1,653	-5,597	0
1	4,172	-112	2,700	33	1	-11,864	-1,655	-5,650	0
1	3,894	-132	2,203	31	1	-12,028	-1,746	-5,771	0
1	3,673	-155	1,774	30	1	-12,299	-1,794	-5,862	0
1	2,844	-190	1,255	30	1	-12,768	-1,870	-5,867	0
1	2,441	-262	743	29	1	-12,829	-1,915	-5,983	0
1	2,293	-304	723	29	1	-14,184	-1,964	-5,992	0
1	2,109	-316	353	29	1	-14,806	-1,993	-6,021	0
1	1,944	-331	317	28	1	-14,823	-2,120	-6,231	-1
1	1,850	-433	272	28	1	-15,185	-2,158	-6,776	-1
1	1,491	-435	162	28	1	-15,413	-2,263	-6,806	-1
1	1,136	-517	143	28	1	-15,529	-2,339	-6,925	-1
1	1,079	-531	53	28	1	-15,799	-2,433	-6,991	-1
1	805	-543	-36	28	1	-16,145	-2,437	-7,065	-2
1	669	-603	-49	27	1	-16,492	-2,445	-7,094	-2
1	-894	-616	-390	27	1	-16,548	-2,449	-7,239	-2
1	-900	-620	-681	24	1	-16,573	-2,560	-7,345	-3
1	-1,382	-622	-705	24	1	-17,061	-2,573	-7,348	-3
1	-1,955	-651	-774	22	1	-17,116	-2,575	-7,351	-3
1	-3,063	-678	-1,397	21	1	-17,218	-2,589	-7,830	-5
1	-3,129	-691	-1,432	20	1	-17,535	-2,598	-7,985	-6
1	-3,457	-770	-1,538	19	1	-17,696	-2,599	-8,136	-9
1	-3,479	-891	-1,896	15	1	-18,362	-2,604	-8,283	-13
1	-4,064	-944	-1,993	13	1	-18,365	-2,611	-8,417	-62
1	-4,071	-993	-2,007	12	1	-20,583	-2,817	-8,484	-67
1	-4,668	-1,022	-2,068	12	1	-21,061	-2,843	-9,539	-184
1	-5,050	-1,029	-2,130	7	1	-21,627	-2,869	-9,595	-225
1	-5,497	-1,044	-2,188	6	1	-21,993	-2,952	-9,742	-241
1	-5,640	-1,056	-2,276	5	1	-22,284	-3,053	-9,845	-343
1	-6,279	-1,090	-2,359	5	1	-23,482	-3,065	-9,919	-432
1	-7,376	-1,106	-2,502	5	1	-24,260	-3,083	-9,984	-479
1	-7,518	-1,112	-3,117	4	1	-24,698	-3,089	-10,223	-517
1	-7,973	-1,183	-3,142	4	1	-25,670	-3,226	-10,715	-531
1	-8,020	-1,216	-3,321	4	1	-26,802	-3,405	-10,814	-554
1	-8,164	-1,236	-3,657	3	1	-29,104	-3,526	-11,243	-687
1	-8,214	-1,278	-3,917	3	1	-33,707	-5,803	-13,063	-1,179
1	-8,756	-1,298	-4,341	3	1	-43,922	-6,588	-14,458	-1,683
1	-9,195	-1,357	-4,784	3					

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