MOS ESTIMATES FOR MOS PERIOD 1 DEC 2010 – 28 FEB 2011

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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 Dec 2010 – 28 Feb 2011.

3. MOS estimates for MOS period 1 Dec 2010 – 28 Feb 2011

The MOS quantities for the MOS period 1 Dec 2010 – 28 Feb 2011 are derived from daily allocated and scheduled pipeline quantities for the period 1 Dec 2009 – 28 Feb 2010 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 (SEAGas) 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.

[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	22,745	506	5,674	87
MOS decrease	21,382	8,332	15,756	5,105

Figure 1 – Curves of daily MOS quantities

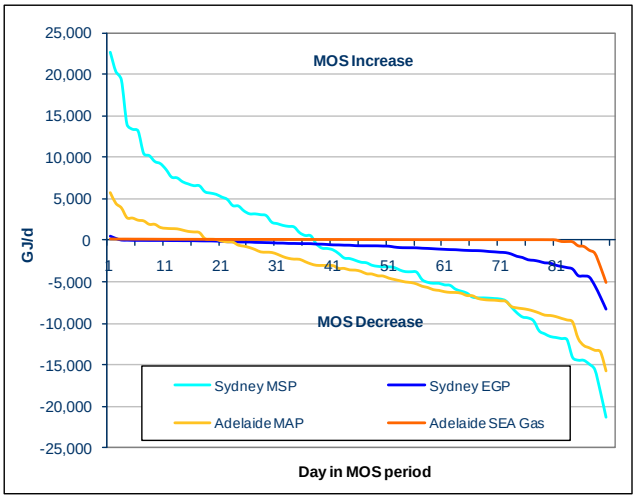

Table 2 – Summary statistics of daily MOS quantities

	Summary statistics GJ/d			
	Sydney MSP	Sydney EGP	Adelaide MAP	Adelaide SEA Gas
Maximum	22,745	506	5,674	87
95%	13,334	-8	2,500	65
75%	**4,188**	-180	-365	32
50%	-2,529	-653	-3,717	18
25%	-6,953	-1,279	-7,143	1
5%	-14,496	-4,300	-12,321	-772
Minimum	-21,382	-8,332	-15,756	-5,105
Mean	-1,310	-1,133	-3,961	-129
Std deviation	8,604	1,530	4,491	677
% days positive	41%	4%	22%	84%
% days negative	59%	96%	78%	16%

Figure 2 – Distribution of daily MOS quantities

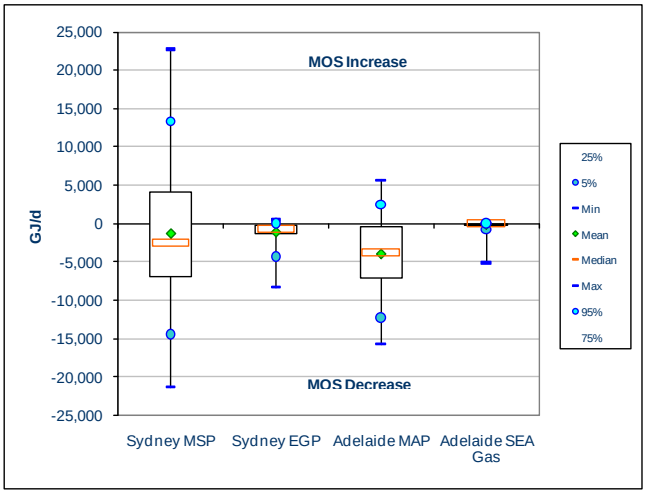

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Table 3 – Daily MOS quantities (GJ/d)

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	22,745	506	5,674	87	1	-2,712	-662	-4,077	16
1	20,413	230	4,386	75	1	-3,015	-666	-4,110	15
1	19,391	31	3,843	71	1	-3,137	-669	-4,322	13
1	14,032	16	2,658	71	1	-3,190	-696	-4,355	13
1	13,430	-5	2,615	66	1	-3,198	-710	-4,604	13
1	13,217	-12	2,360	64	1	-3,285	-815	-4,769	11
1	10,496	-12	2,276	61	1	-3,594	-881	-4,920	9
1	10,252	-17	1,862	58	1	-3,783	-897	-5,067	8
1	9,534	-18	1,861	55	1	-3,794	-901	-5,137	7
1	9,277	-19	1,483	51	1	-3,842	-910	-5,304	5
1	8,583	-25	1,383	48	1	-4,760	-958	-5,584	4
1	7,653	-36	1,346	45	1	-5,076	-982	-5,733	4
1	7,558	-36	1,319	45	1	-5,187	-1,020	-5,994	4
1	7,079	-44	1,167	44	1	-5,188	-1,060	-6,081	4
1	6,825	-44	1,010	44	1	-5,381	-1,092	-6,236	3
1	6,610	-48	947	44	1	-5,433	-1,125	-6,318	2
1	6,604	-64	870	40	1	-5,912	-1,136	-6,329	2
1	5,873	-75	144	38	1	-6,144	-1,188	-6,425	2
1	5,713	-75	75	35	1	-6,369	-1,221	-6,692	2
1	5,568	-95	45	34	1	-6,851	-1,243	-6,720	2
1	5,243	-132	-154	34	1	-6,948	-1,250	-7,042	1
1	4,959	-171	-246	34	1	-6,955	-1,289	-7,177	1
1	4,199	-174	-272	32	1	-6,985	-1,356	-7,239	1
1	4,156	-198	-642	31	1	-7,036	-1,398	-7,260	0
1	3,564	-207	-762	31	1	-7,095	-1,455	-7,328	0
1	3,208	-208	-933	31	1	-7,312	-1,492	-7,394	0
1	3,203	-249	-1,169	31	1	-8,051	-1,661	-8,011	0
1	3,104	-260	-1,452	30	1	-8,758	-1,936	-8,183	0
1	2,998	-278	-1,488	30	1	-9,263	-2,080	-8,272	0
1	2,188	-294	-1,523	30	1	-9,377	-2,357	-8,384	0
1	2,020	-336	-1,735	30	1	-9,731	-2,421	-8,563	-1
1	1,808	-336	-2,022	30	1	-10,943	-2,547	-8,795	-1
1	1,692	-376	-2,224	29	1	-11,305	-2,729	-9,054	-3
1	1,620	-379	-2,323	29	1	-11,628	-2,764	-9,093	-8
1	925	-394	-2,343	29	1	-11,742	-3,019	-9,229	-32
1	588	-401	-2,632	28	1	-11,877	-3,165	-9,441	-218
1	552	-406	-2,892	28	1	-12,005	-3,301	-9,635	-220
1	-424	-455	-3,064	25	1	-14,155	-3,476	-9,873	-258
1	-932	-467	-3,076	25	1	-14,490	-4,277	-11,860	-731
1	-982	-506	-3,085	25	1	-14,501	-4,319	-12,698	-805
1	-1,151	-552	-3,101	23	1	-14,967	-4,454	-12,981	-1,263
1	-1,592	-559	-3,434	23	1	-15,636	-5,496	-13,286	-1,632
1	-2,132	-588	-3,437	20	1	-18,335	-6,859	-13,463	-3,244
1	-2,197	-594	-3,619	19	1	-21,382	-8,332	-15,756	-5,105
1	-2,417	-645	-3,642	18	1				
1	-2,641	-662	-3,791	17					

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