

**DETERMINATION OF THE MARKET SURVEILLANCE AND COMPLIANCE PANEL
MSCP/2007/D13**

Market Surveillance and Compliance Panel (“MSCP”)

Mr Joseph Grimberg, Chair
Professor Lim Chin
Mr Lee Keh Sai
Mr TPB Menon

Date of Determination

31 August 2007

Party

Energy Market Company Pte Ltd (“EMC”)

Subject

Failure to determine and release short-term schedule for period 11 and to publish relevant information on 20 March 2006

Applicable Rule(s) in the Singapore Electricity Market Rules

1. Section 7.4A.1 of Chapter 6

“The EMC shall, in accordance with section 7.6 and Appendix 6A, determine a short-term schedule corresponding to the nodal load forecast described in section 7.2.1.1.”

According to the market operations timetable, the EMC is required to commence computing the short-term schedule 4 minutes prior to the beginning of the dispatch period.

2. Section 7.7.2A of Chapter 6

“Not later than 25 minutes prior to the commencement of the first dispatch period of the short-term schedule referred to in section 7.4A, the EMC shall, for each dispatch period included in the short-term schedule:

7.7.2A.1 release to the dispatch coordinator for each registered facility the projected schedules for energy, regulation and reserve, by reserve class, for that registered facility;

7.7.2A.2 publish the information described in section 7.7.3; and

7.7.2A.3 communicate to the PSO the projected schedules for energy, regulation and reserve, by reserve class, for each registered facility, together with the information described in section 7.7.3, in accordance with the system operation manual and any applicable market manual.”

3. Section 7.7.3 of Chapter 6

"In accordance with sections 7.7.1, 7.7.2 and 7.7.2A, the EMC shall publish the following information for each dispatch period and for each market outlook scenario, pre-dispatch schedule scenario and short-term schedule:

- 7.7.3.1 the projected total load;
- 7.7.3.2 the projected transmission losses;
- 7.7.3.3 total reserve requirements by reserve class;
- 7.7.3.4 total regulation requirements;
- 7.7.3.5 projected energy prices associated with each market network node at which a generation registered facility or generation settlement facility is located....;
- 7.7.3.6 the projected uniform Singapore energy price....;
- 7.7.3.7 projected reserve prices for each reserve class and reserve provider group....;
- 7.7.3.8 projected regulation prices....;
- 7.7.3.9 any predicted system energy shortfalls;
- 7.7.3.10 any predicted system reserve shortfalls, by reserve class;
- 7.7.3.11 any predicted system regulation shortfalls; and
- 7.7.3.12 a list of security constraints and generation fixing constraints applied."

Facts and Circumstances

- 4. According to EMC, on 20 March 2006, the processing of the short-term schedule for period 11 took too long to finish thus resulting in it being sent late to the PSO and the relevant information not being published on its Trading Website on time.
- 5. EMC said that the incident was due to the slower performance of its systems caused by a combination of multiple processes running at the same time and the configuration of its "back-up" NEMS database not being as optimal as the production database. When EMC reduced the systems load, the systems performance improved.
- 6. EMC further explained that as part of its planned NEMS maintenance on 19 March 2006, the NEMS database was "migrated" to one of the "back-up" NEMS databases. This was to facilitate the reorganization of the space in the NEMS database. However, the configuration of this particular "back-up" database was not as optimal as the production database. This was the first time the NEMS production database had run on this particular back-up database. In similar exercises where the NEMS production database was run on other back-up databases which had the same configuration, there had been no performance issues.
- 7. In addition, EMC said that it decided to perform an urgent outage of the NEMS systems later in the day (between 16:45 hr to 17:45 hr) to allow for the migration of the NEMS systems back to their original production domain. EMC issued a notice to the market players at 09:29 hr to inform the market of the urgent outage of the NEMS systems. In its notice, EMC indicated that NEMS and the dispatch schedules would not be available during the outage. After the migration of the NEMS systems back to their original production domain, the NEMS systems' performance was back to normal.
- 8. This incident was self-reported, inadvertent, rectified quickly and did not have a significant impact on the wholesale electricity markets.

Determinations

9. On 23 May 2007, the MSCP issued a letter informing EMC that it considered that EMC had prima facie breached sections 7.4A.1, and 7.7.2A of Chapter 6 of the Singapore Electricity Market Rules (the 'market rules') for the missing short-term schedule for period 11 and invited EMC to make written representations. No written representations were received by the deadline stipulated.
10. The MSCP determined on the basis of the facts referred to above that EMC breached sections 7.4A.1 and 7.7.2A of Chapter 6 of the market rules.
11. However, the breach was self-reported, rectified quickly and without significant impact on the wholesale electricity markets.
12. Therefore, the MSCP determined that the appropriate action to be taken was to issue a letter of non-compliance to EMC and to direct EMC to pay costs, fixed at \$1,000.00.



Lim Chin
For Chair, Market Surveillance and Compliance Panel