

DETERMINATION OF THE MARKET SURVEILLANCE AND COMPLIANCE PANEL MSCP/2005/D18

Market Surveillance and Compliance Panel (“MSCP”)

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

Date of Determination

8 July 2005

Party

Energy Market Company Pte Ltd (“EMC”)

Subject

Failure to determine and release short-term schedule and to publish information for period 25 on 1 November 2004

Applicable Rule(s) in the Singapore Electricity Market Rules

1. Section 7.4A.1 of Chapter 6 provides that:

“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 in Appendix 6A of Chapter 6, the EMC is required to commence computing the short-term schedule at T-4 minutes.

2. Section 7.7.2A of Chapter 6 provides that:

“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 provides that:

“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:

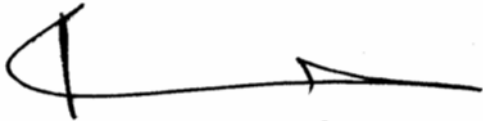
- 7.7.3.1 the projected total load;
- 7.7.3.2 the projected transmission losses;
- 7.7.3.3 total reserve requirements by reserve class;
- 7.7.3.4 total regulation requirements;
- 7.7.3.5 projected energy prices associated with each market network node at which a generation registered facility or generation 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 the EMC, its staff received notification that the processing time for the short-term schedule for period 25 on 1 November 2004 was slow. The automatic dispatch run was then terminated and the dispatch run manually triggered by the EMC staff. The manually triggered run was completed successfully but the short-term schedule was published and released after the deadline for doing so.
- 5. Investigations carried out by the EMC indicated that the cause was due to connectivity issues between the market clearing engines and Oracle database. Whenever a market clearing engine completes its processing, it will save its output onto the database. After this is done, the market clearing engine requires an acknowledgement from the database in order to complete the process. In this case, the database did not release an acknowledgement to the market clearing engine due to connectivity problems. After conducting several checks and tests on the system, the EMC was unable to locate the source of the problem. The EMC has since upgraded the Database to a newer version (Oracle 9i).
- 6. This incident did not have a significant impact on the wholesale electricity markets.

Determination

7. On 6 April 2005, the MCSP issued a letter informing the EMC that it considered that the 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”) and invited the EMC to make written representations. No written representations were received by the deadline stipulated.
8. The MSCP determined on the basis of the facts referred to above that the EMC breached sections 7.4A.1 and 7.7.2A of Chapter 6 of the market rules.
9. However, the breach was self-reported, rectified quickly and without significant impact on the wholesale electricity markets.
10. Therefore, the MSCP determined that the appropriate enforcement action to be taken was to issue a letter of non-compliance to the EMC and to direct the EMC to pay costs, fixed at \$1,000.

A handwritten signature in black ink, consisting of a large, stylized 'J' followed by a horizontal line and a small upward tick at the end.

Joseph Grimberg
Chair
Market Surveillance and Compliance Panel