

DETERMINATION OF THE MARKET SURVEILLANCE AND COMPLIANCE PANEL MSCP/2005/D17

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 schedules and to publish information for periods 11 and 12 on 29 October 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, the processing time for the short-term schedule for period 11 on 29 October 2004 was very slow. As a result, it was not determined, published and released on time.
- 5. Investigations carried out by the EMC indicated that the application server memory was at a very high utilization rate of 99%. This was due to the system backup taking place at the same time as dispatch processing. After the system backup was terminated, it was observed that the utilization rate was still high at 99%. The short-term schedule for period 12 was not determined and released and the information was not published on time.
- 6. The EMC staff then rebooted the IT system to reduce the memory usage and the application server memory usage was successfully reduced to 40%. Subsequent dispatch processing was carried out smoothly.
- 7. This incident did not have a significant impact on the wholesale electricity markets.

Determination

8. 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.
9. 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.
10. However, the breach was self-reported, rectified quickly and without significant impact on the wholesale electricity markets.
11. 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 that ends in a small upward-pointing hook.

Joseph Grimberg
Chair
Market Surveillance and Compliance Panel