FACTS AND CIRCUMSTANCES


2. At 19:26 hours (period 39) on 30 September 2020, TUASCCP5 experienced a fault in its steam turbine protection channel 2. This caused the facility to be taken out of automatic generator control and offer variations were submitted to reflect its revised capability for the provision of primary reserve, contingency reserve and regulation.

3. Tuas Power Generation's station operator attempted to control the unit loading to bring the loading down to the scheduled load but was unable to do so.

4. At 21:15 hrs (period 43) and 21:42 hrs (period 44), Tuas Power Generation submitted offer variations after gate closure to reflect the capability of TUASCCP5 with regard to its energy generation for periods 44 and 45.

5. As the Singapore Electricity Market Rules ("Market Rules") allow offer variations after gate closure to be submitted only for the three consecutive dispatch periods immediately following a forced outage, the offer variations submitted after gate closure for periods 44 and 45 were not in compliance given that TUASCCP5 experienced the technical fault at period 39.

6. On 30 November 2020, the Market Surveillance and Compliance Panel ("MSCP") wrote to inform Tuas Power Generation that it considered Tuas Power Generation to be in prima facie breach of section 10.4.1 of Chapter 6 of the Market Rules for periods 44 and 45 on 30 September 2020. The MSCP invited Tuas Power Generation to submit written representations by 14 December 2020 before the MSCP makes a determination.
7. On 10 December 2020, Tuas Power Generation requested for an extension of the deadline. On 18 December 2020, Tuas Power Generation submitted its written representations to the MSCP with further supporting information and technical data detailing the incident. Tuas Power Generation also submitted mitigating factors for the MSCP’s consideration, including that:

a. the equipment fault occurred at 19:26 hours which was after office hours;

b. the station operator was unable to control the loading of the unit and had to call back its Control & Instrumentation staff for support; and

c. the incident was managed (including the submission of offer variations after gate closure to change the scheduled load) within 2 hours without resulting in system instability or major financial impact.

8. Tuas Power Generation did not require a hearing.

APPLICABLE MARKET RULES

9. Section 10.4.1 of Chapter 6 provides that

Notwithstanding sections 5.1.5, 5.1.6 and 5.1.7, no offer variation or revised standing offer shall be submitted by or for a market participant within 65 minutes immediately prior to the dispatch period to which the offer variation or revised standing offer applies, except:

10.4.1.1 where it is intended:

a. for a generation registered facility, to reflect its expected ramp-up and ramp-down profiles during periods following synchronisation or preceding desynchronisation; or

b. for a generation registered facility, to reflect its revised capability for the three consecutive dispatch periods immediately following a forced outage or its failure to synchronise; or

c. to contribute positively to the resolution of an energy surplus situation pertaining to which the EMC has issued an advisory notice under section 9.3.1, by allowing for decreased supply of energy; or

d. to contribute positively to the resolution of energy, reserve or regulation shortfall situations pertaining to which the EMC has issued advisory notices under section 9.3.1, by allowing for increased supply of energy, reserve or regulation; or

e. to contribute positively to the resolution of energy, reserve or regulation shortfall situations in that dispatch period, where:

i. the shortfall situations were indicated in a system status advisory notice issued by the EMC in respect of a high-risk operating state or emergency operating state declared by the PSO; and

ii. at the time of submission of such offer variation or revised standing offer, the EMC has not yet withdrawn, in respect of that dispatch
period, such system status advisory notice, by allowing for increased supply of energy, reserve or regulation; and

f. for a load registered facility, to reflect its revised capability during a forced outage or following a decrease in energy withdrawal under sections 9.3.3 and/or 9.3.4 of Chapter 5; and

10.4.1.2 where the price so offered, other than for additional quantities of energy, reserve or regulation, is the same as that previously offered for that dispatch period.

ENFORCEMENT

10. Based on the facts referred to above, the MSCP determined that Tuas Power Generation had breached section 10.4.1 of Chapter 6 of the Market Rules for periods 44 and 45 on 30 September 2020.

11. The incident was self-reported and did not have a significant impact on the National Electricity Market of Singapore.

12. The MSCP hereby imposes a financial penalty of $10,000 on Tuas Power Generation and directs Tuas Power Generation to pay costs fixed at $2,000.

T P B Menon
Chair, Market Surveillance and Compliance Panel