

MANITOBA HYDRO

2012/13 & 2013/14 ELECTRIC GENERAL RATE APPLICATION

UNDERTAKING PROVIDED BY: D. CORMIE

Manitoba Hydro Undertaking #9

Provide a graphic depiction of Hourly Generation by Station, Manitoba Load, Net Interchange for the day referenced in the testimony provided on December 11, 2012.

Response:

Chart 'A' in Figure 1 depicts hourly generation for Manitoba Hydro stations on December 11, 2012.

Hydraulic generation was maximized during the peak load hours and backed down overnight to allow for economic imports. A Selkirk gas-fired unit was on-line for a planned proficiency run. A Brandon combustion turbine was on line and running at minimum for Brandon area reliability and to provide supplemental contingency reserves which freed-up lower cost hydro generation. The combustion turbine loading was increased above minimum for a few hours in the day when market prices exceeded the incremental fuel cost to increase loading on the unit.

Chart 'B' in Figure 1 depicts Manitoba Load, Purchases (net import and wind generation) and exports net of wind generation.

Manitoba Hydro's hourly average load peaked at 4,383 MW. The instantaneous peak for the day was 4,443 MW. At this time, hydraulic generation was loaded at close to 100% of available capacity, thermal generation was loaded for reliability and loading was increased when it was economic. At the time of the peak load, the combined output of the St. Joseph and St. Leon wind farms was 0 MW.

Figure 1. Generation and Load for December 11, 2012.

