

## UNDERTAKING JT2.18

### UNDERTAKING

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To calculate percentage reduction in demand required to Lower pipeline pressure at both 5% and 10% for comparison purposes.

### ORIGINAL RESPONSE

Analysis for this response was completed in 2015, at DD 41, absent of any reinforcement and without operating pressure reductions. The load reductions were taken at each district station within the Victoria Square influence area as defined at Exhibit A, Tab 3, Schedule 3, Figure 3 (i.e. the “peach area”). No load reductions were taken on the four large fixed contract demands within this area.

With a load reduction of 5%, pressure at Station B rises from 215 psi to 228 psi; the load in the area fed by Victoria Square was decreased by approximately 29 TJ/day. With a load reduction of 10%, pressure at Station B rises from 215 psi to 239 psi; the load in the area fed by Victoria Square was decreased by approximately 57 TJ/day.

### AMENDED RESPONSE

This amendment is in response to GEC’s July 10, 2013 email clarification of the undertaking.

The following model runs are variations of the original responses, but the pressure is fixed at Station B inlet at 225 psi, to demonstrate the potential pressure reductions on the Don Valley line for a given load reduction within the Victoria Square Gate Station influence area (i.e. the “peach area”).

With other assumptions remaining the same as in the original response, with the load reduction of 5% in the “peach area”, the pressure at Victoria Square Gate Station could be reduced to 446 psi while maintaining a pressure of 225 psi at Station B.

With other assumptions remaining the same as in the original response, with the load reduction of 10% in the “peach area”, the pressure at Victoria Square Gate Station could be reduced to 433 psi while maintaining a pressure of 225 psi at Station B.

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