

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
ENVIRONMENTAL DEFENCE INTERROGATORY #25**

INTERROGATORY

Issue A4: "What are the alternatives to the proposed facilities? Are any alternatives to the proposed facilities preferable to the proposed facilities?"

Reference: Ex A, Tab 3, Schedule 4 and 7

Please fill in Tables 1 to 5 appearing below. Please use the same figures as were used to create Enbridge's forecast appearing at Exhibit A, Tab 3, Schedule 4 (e.g. re forecast DSM impacts). For tables 1 to 3, please base the demand/supply balance on the forecast of actual demand, net of the forecast DSM. The tables are entitled as follows:

- a) Table 1: GTA Project Influence Area Peak Hour Demand/Supply Balance: 2000 to 2025
- b) Table 2: GTA Project Influence Area Peak Day Demand/Supply Balance: 2000 to 2025
- c) Table 3: GTA Project Influence Area Annual Demand/Supply Balance: 2000 to 2025
- d) Table 4: Impact of Enbridge's Year 2000 to Year 2025 DSM Programs on Demand for Natural Gas in GTA Influence Project Area
- e) Table 5: Impact of Enbridge's Year 2000 to Year 2025 DSM Programs on Demand for Natural Gas in Ontario

Witnesses: J. Denomy
F. Oliver-Glasford
T. MacLean
E. Naczynski
J. Ramsay

RESPONSE

a) The response to a) b) and c) will be answered in aggregate.

Table 1 provides actual peak hour, peak day and annual demands for the GTA Project Influence Area. Actual peak hour data are measured at the gate station and are available back to 2008, whereas peak day demand and annual demands are available back to 2000. Since 2013 is not yet complete annual demand is provided to 2012. Peak hour and peak day data for 2013 assume that peak hour or peak day have already occurred. The data presented in Table 1 are not normalized for design conditions.

Table 1

GTA Project Influence Area	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Peak Hour Demand (TJ)									95.7	96.9	93.0	100.5	88.7	102.6
Peak Day Demand (TJ)	1,949.9	1,625.5	1,721.1	2,033.0	2,128.8	2,099.1	1,664.0	2,035.9	1,849.1	1,925.9	1,895.3	1,995.8	1,883.3	2,065.7
Annual Demand (TJ)	270,442.3	252,939.9	269,011.2	273,582.6	278,974.8	277,267.3	254,287.5	275,386.8	277,375.8	269,756.5	264,007.1	273,960.7	253,704.6	

Total system demands for base loads and incremental load growth have been provided in the response to Environmental Defence Interrogatory #3 found at Exhibit I.A4.EGD.ED.3. In effort to assist with the understanding of available system capacity Table 2 provides an analysis that has been completed at Station B, the location that will experience the lowest pressures on the XHP grid.

Table 2

	<u>Capacity Surplus / (Deficit)</u>	<u>Capacity Surplus / (Deficit)</u>
2015 / 2016 Winter Existing System	(15 10 ³ m ³ /hr)	(10 TJ/day)
2015 / 2016 Winter with Proposed Facilities	210 10 ³ m ³ /hr	160 TJ/day
2024 / 2025 Winter with Proposed Facilities	170 10 ³ m ³ /hr	130 TJ/day

Witnesses: J. Denomy
 F. Oliver-Glasford
 T. MacLean
 E. Naczynski
 J. Ramsay

- b) See the response to a) above.
- c) See the response to b) above.
- d) Table 4: Impact of Enbridge's Year 2000 to Year 2025 DSM Programs on Annual Demand for Natural Gas in GTA Project Influence Area. Please note that 2013 to 2025 figures are forecasts only.

Please see response to Environmental Defence Interrogatory# 14 found at Exhibit I.A4.ED.14 for peak day and peak hour DSM impacts on natural gas consumption in the GTA Project Influence Area.

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Annual Demand (10 ⁶ m ³)	34,138	46,167	45,682	45,251	41,128	53,022	51,922	53,314	46,565	40,517	38,063	44,806	35,831	38,856	44,109	44,109	44,109	44,109	44,109	44,109	44,109	44,991	45,891	46,808	47,745	48,699

*2005 Program year includes three month stub period

- e) Table 5: Impact of Enbridge's Year 2000 to Year 2025 DSM Programs on Annual Demand for Natural Gas in Ontario. Please note that 2013 to 2025 figures are forecasts only.

Please see response to Environmental Defence Interrogatory #14 found at Exhibit I.A4.EGD.ED.14 for peak day and peak hour DSM impacts on natural gas consumption in the Enbridge's total franchise area.

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Annual Demand (10 ⁶ m ³)	58,859	79,599	78,761	78,020	70,910	91,418	89,520	91,921	80,285	69,857	65,625	77,252	61,778	66,993	76,049	76,049	76,049	76,049	76,049	76,049	76,049	77,570	79,122	80,704	82,318	83,964

*2005 Program year includes three month stub period

Witnesses: J. Denomy
 F. Oliver-Glasford
 T. MacLean
 E. Naczynski
 J. Ramsay