Hydro One Networks Inc.
8th Floor, South Tower
483 Bay Street
Toronto, Ontario M5G 2P5
www.HydroOne.com

Tel: (416) 345-5700
Fax: (416) 345-5870
Cell: (416) 258-9383
Susan.E.Frank@HydroOne.com

Susan Frank
Vice President and Chief Regulatory Officer
Regulatory Affairs

BY COURIER

March 19, 2008

Mr. Basil Alexander
Klippensteins
Barristers & Solicitors
160 John St., Suite 300
Toronto ON
M5V 2E5

Dear Mr. Alexander:

EB-2007-0050 – Hydro One Networks' Section 92 Bruce - Milton Transmission Reinforcement Application – Hydro One Networks' Response to Interrogatory Questions from Pollution Probe List 2 Update

I am attaching a paper copy of an update to C-2-18. Hydro One indicated in the response to this Interrogatory filed on May 17th that the information related to part (b) was still being prepared. This information has now been completed.

A text searchable Acrobat file is being emailed to you and all other Intervenors including the Ontario Energy Board today. The revised response will be available for download from the Hydro One Networks regulatory website.

Sincerely,

ORIGINAL SIGNED BY ANDREW PORAY FOR SUSAN FRANK

Susan Frank

c. Kirsten Walli, Ontario Energy Board
EB-2007-0050 Intervenors (by email)
M. Heinz, Ontario Power Authority (by email)

Pollution Probe INTERROGATORY #18 List 2

Interrogatory

Issue Number: 1.0
Issue: Project Need and Justification

Ref B/Tab 1/Sch 1, page 3, "Other alternatives considered" Please provide the following information:

For the potential use of Bruce area generation rejection schemes, please provide the following requested information or answers:

a) Any and all documents or analyses developed by Hydro One or the OPA concerning the historical and forecasted future use of generation rejection schemes at the Bruce site.

b) What are the historical levels of forced outages on the 500 kV transmission system in the Ontario Southwest Area? Please provide all documentation or studies that address the actual level of forced outages that have been experienced with the transmission system in this region. Please also include both the number and duration of outages by year.

Response

a. Please refer to the response to OEB Staff Interrogatory 1.4 for information regarding the Bruce generation rejection scheme and its historical usage. With respect to forecast future use of the scheme, a forecast is not prepared. However, it is reasonable to assume that usage (i.e., arming of the scheme) will increase over time as generation in the Bruce area increases, in the event the proposed Bruce to Milton line is not built.

b. The historical data pertaining to forced outages on the 500 kV transmission system in Southwestern Ontario is provided in the attached Table 1 and Table 2 as follows. The circuit identifications in these tables refer to circuits' connecting terminal points identified in Exhibit C-3-8.

- Table 1 provides a summary of the overall outage indices for each circuit, including the number of momentary and sustained outages per year; the average rate and duration of such outages per year; average duration of sustained outage in hours per outage per year; and the average circuit unavailability in hours per year.

- Table 2 provides a summary of the outage frequency and duration for each circuit by year. (*Note: For any circuit that did not have an outage in any year, the entry for that year is not shown in the Table 2).*

Table 1: Summary of Outage Indices for 500 KV Circuits in SWO for the Period January 1990 to February 2008

Circuit ID	In Service Date of the Circuit	No. Momentary outages For Circuit	Average Rate of Momentary Outages/year	No. of Sustained Outages for Circuit	Average Rate of Sustained Outages/year	Average Duration of Sustained Outage Hours/Outage/year	Average Circuit Unavailability in hours/year
B562L	Nov 22, 1990	10	.5788	8	.4631	12.1563	5.6292
B563L	Nov 22, 1990	6	.3473	8	.4631	9.0313	4.1821
B569B	Oct 1, 1980	1	.0550	0	0	0	0
M585M	June 22, 1990	6	.3392	11	.6218	8.5667	5.3265
N580M	June 22, 1990	1	.0565	9	.5087	5.2722	2.6820
N581M	Nov 22, 1993	1	.0654	4	.2618	2.1375	.5596
N582L	Aug 22, 1991	2	.1141	4	.2282	25.0083	5.7069
V586M	June 17, 1994	2	.1360	4	.2720	.60	.1632
B560V	June 24, 1994	7	.4767	8	.5447	137.30	74.7873
B561M	July 1, 1980	7	.3853	10	.5504	63.795	35.1128

Notes:

1. Outage data covers the period Jan 1990 to Feb 2008
2. Momentary outages last less than one minute
3. Sustained outages last one minute or more
4. All outages regardless of their durations are considered
5. Circuit unavailability =Average rate of sustain outages x Average duration of sustain outage

Table 2: Summary of Frequency and Duration of Circuits By Year for the Period January 1990 to February 2008

Circuit	Year	Outage	
		Frequency	Duration (Minutes)
B562L	1991	1	1119
	1995	1	6
	1996	2	54
	1997	2	0
	1999	1	11
	2000	1	0
	2003	1	0
	2003	1	4509
	2004	4	126
	2005	2	10
	2006	1	0
	2007	1	0
B563L	1991	1	1229
	1995	3	77
	1999	1	0
	2000	3	0
	2002	1	1
	2003	2	1587
	2004	1	0
	2007	1	1441
	2008	1	0
B569B	1992	1	0
M585M	1990	1	0
	1991	2	1026
	1992	1	66
	1994		0
	1994	2	1690
	1995	1	0
	1999	1	0
	2001	1	4
	2002	3	823
	2003	1	0
	2005	2	779
	2007	1	694

Circuit	Year	Outage	
		Frequency	Duration (Minutes)
N580M	1990	1	158
	1991	2	2
	1994	2	910
	1998	1	1122
	2002	3	645
	2005	1	10
N581M	1997	2	302
	2006	1	0
	2007	2	211
N582L	1991	1	5932
	1998	1	3
	2000	1	0
	2001	2	16
	2003	1	51
V586M	1998	1	0
	2000	1	0
	2002	1	7
	2003	1	65
	2004	1	15
	2008	1	57
B560V	1994	2	1515
	1996	2	24463
	1997	1	0
	1998	2	29
	1999	1	0
	2000	1	114
	2001	2	39411
	2002	1	0
	2004	1	0
	2005	1	0
	2006	1	372
B561M	1991	2	513
	1992	5	2894
	1993	2	1526
	1994	1	0
	1996	1	24392
	1997	1	1491
	1998	2	6480
	2000	1	0
	2004	1	0
	2008	1	981