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February 28, 2013

via RESS e-filing – signed original to follow by courier

Ms. Kirsten Walli

Board Secretary

Ontario Energy Board

PO Box 2319

2300 Yonge Street, 27th floor

Toronto, ON M4P 1E4

Dear Ms. Walli:

**Re: Toronto Hydro-Electric System Limited (“THESL”)
OEB File No. EB-2012-0064
Request of Environmental Defence, Undertaking J6.6**

We write on behalf of THESL in response to the letter of Environmental Defence (“ED”), dated February 26, 2013. ED asserts that THESL has not established that the information contained in Appendix C to undertaking J6.6 warrants confidential treatment. THESL disagrees. In THESL's view, public disclosure of usage, generation, and other specific data in respect of individually identifiable customers is, *prima facie*, to the prejudice of those customers' competitive positions. Protection of such customer information is consistent with long-standing practice, as well as THESL's contractual, statutory, and regulatory obligations.

THESL has agreed to provide a summary of the data in Appendix C amalgamated to the station-level (as opposed to the bus-level, in the confidential filing), as it obscures the customer data. THESL has prepared the amalgamated forecast, attached here as Appendix E to THESL's updated response to undertaking J6.6.

Please note that it is not possible to provide the “existing distributed generation” worksheet of Appendix C without revealing commercially sensitive customer data. Even amalgamated to the station-level, this worksheet reveals commercially sensitive generation data regarding individual customers. Publicly providing this information could potentially prejudice those customers' competitive positions. Regardless, this information is a component of the amalgamated data in the gross forecast worksheet, which is included in Appendix E.

We trust that this is satisfactory.

Yours truly,

[original signed by]

Amanda Klein

Director, Regulatory Affairs

Toronto Hydro-Electric System Limited

regulatoryaffairs@torontohydro.com

:AK/RB

cc: Fred Cass of Aird & Berlis LLP, Counsel for THESL, by electronic mail only
Intervenors of Record for EB-2012-0064 by electronic mail only

BREMNER ORAL HEARING UNDERTAKING RESPONSE INTERVENOR 12 – ENVIRONMENTAL DEFENCE

1 **UNDERTAKING NO. J6.6:**

2 **Reference(s):**

3

4 Provide a copy of the new load forecast provided to the OPA in January 2013, including
5 any supporting documents justifying that forecast.

6

7 **RESPONSE:**

8 THESL provided two draft spreadsheets to the OPA in January 2013 concerning the 25-
9 Year Spatial Peak Demand Forecast in support of the Toronto Regional Plan. THESL
10 stresses that these spreadsheets are drafts.

11

12 1. In an email on January 9, 2013, THESL sent the OPA a spreadsheet setting out its
13 net peak demand forecast, inclusive of CDM and DG components, on a station
14 bus-level basis. Copies of the spreadsheet and email are provided as Appendices
15 A and B, respectively.

16

17 2. In an email on January 14, 2013, THESL sent the OPA a second spreadsheet
18 breaking down Appendix A into its components (gross load forecast, CDM
19 forecast, and DG forecast). Copies of the spreadsheet and email are provided here
20 as Appendices C and D, respectively.

21

22 As noted in its letter of February 22, 2013, THESL has requested that Appendix C
23 be treated as confidential, as it could reveal sensitive usage, CDM, and DG data
24 regarding specific identifiable customers

**BREMNER ORAL HEARING UNDERTAKING RESPONSE
INTERVENOR 12 – ENVIRONMENTAL DEFENCE**

1 3. As requested by Environmental Defence, THESL has prepared a non-confidential
2 summary of Appendix C, filed as Appendix E. Appendix E contains the net load
3 forecast derivation (gross load and the effects of DG and CDM) expressed at a
4 station-level. No new numbers have been calculated nor any new numbers
5 introduced to produce Appendix E. The numbers presented exist, as is, in the
6 original spreadsheet of Appendix C.

7
8 For clarity, the Scenario 1 forecast in Appendices C and E is the output of the
9 regression model projected onto the existing station level demands. These results
10 will differ from Appendix A. Scenario 1 allows station demands to exceed station
11 bus capacity for modeling purposes to allocate the load growth in geographic
12 areas. Subsequently any stations where growth exceeds bus capacity are dealt
13 with via feeder transfers, station expansions or new stations (e.g., Bremner TS for
14 the growth exceeding Windsor TS). This is why Bremner TS is not explicitly
15 defined in the Scenario 1 forecast. Bremner TS is required for new load
16 connections, capacity for load growth and to accommodate reliability upgrades at
17 the heavily loaded Windsor TS.

18
19 The individual components provided in Appendix C are intended to assist the OPA in
20 developing CDM/DG scenarios for the Toronto Regional Plan. The 25-Year Spatial Peak
21 Demand Forecast is intended for long-range planning of transmission supply and
22 distribution infrastructure using economic growth factors and the official plan for the City
23 of Toronto. The 10-Year Station Bus Forecast which appears elsewhere in evidence is
24 intended for near-term operational planning using current growth, firm projects and
25 planned station upgrades. The 25-Year Spatial Peak Demand Forecast will not align
26 completely with the 10-Year Station Bus Forecast as they are used for different purposes.

/U

NOTE - Totals by Transmission Area and by TS or Bus may not match exactly due to rounding.

**Toronto Hydro Electric System Limited
 Spatial Peak Demand Forecast**

Gross Extreme Weather Scenario (excludes any demand reductions from CDM but includes DG projects)*

*This description was inaccurate in the document filed confidentially as "Appendix C" to J6.6. For substantive clarity, it has been corrected here.

The data has not changed; only the description has been corrected.

Net Transformer Station Projection (MW)										
	Station	2012	2013	2014	2016	2018	2021	2026	2031	2036
1	AGINCOURT (230KV/27.6KV) TS	82	84	85	88	89	91	92	95	98
2	BASIN (115KV/13.8KV) TS	54	55	56	59	60	63	67	72	78
3	BATHURST (230KV/27.6KV) TS	247	251	255	263	268	272	277	285	294
4	BERMONDSEY (230KV/27.6KV) TS	174	178	182	190	195	200	207	217	227
5	BRIDGMAN (115KV/13.8KV) TS	164	167	170	175	178	180	183	189	195
6	CARLAW (115KV/13.8KV) TS	75	77	79	82	84	88	94	101	109
7	CAVANAGH (230KV/27.6KV) TS	118	120	122	126	128	130	132	136	141
8	CECIL (115KV/13.8KV) TS	165	167	169	173	177	180	186	193	201
9	CHARLES (115KV/13.8KV) TS	135	137	138	142	144	148	153	158	164
10	DUFFERIN (115KV/13.8KV) TS	130	132	134	138	140	142	145	149	154
11	DUPLEX (115KV/13.8KV) TS	113	115	118	123	126	129	133	139	145
12	ELLESMERE (230KV/27.6KV) TS	154	158	161	169	173	178	184	192	201
13	ESPLANADE (115KV/13.8KV) TS	186	189	193	199	204	211	223	236	250
14	FAIRBANK (115KV/27.6KV) TS	203	208	212	220	223	226	229	236	243
15	FAIRCHILD (230KV/27.6KV) TS	269	273	278	287	291	296	301	310	320
16	FINCH (230KV/27.6KV) TS	264	268	273	281	286	290	296	305	314
17	GERRARD (115KV/13.8KV) TS	30	31	31	33	34	35	38	40	43
18	GLENGROVE (115KV/13.8KV) TS	66	67	69	72	74	75	78	81	85
19	HORNER (230KV/27.6KV) TS	149	152	155	160	163	167	171	177	184
20	LEASIDE (230KV/27.6 - 13.8KV) TS	165	169	173	181	185	190	196	206	216
21	LESLIE (230KV/27.6-13.8KV) TS	259	263	268	276	280	285	290	299	308
22	MAIN (115KV/13.8KV) TS	76	78	80	83	86	89	95	102	110
23	MALVERN (230KV/27.6KV) TS	112	114	116	119	121	123	126	129	133
24	MANBY (230KV/27.6KV) TS	243	247	252	261	266	272	279	289	300
25	REXDALE (230KV/27.6KV) TS	122	123	125	128	129	130	133	138	142
26	RICHVIEW (230KV/27.6KV) TS	278	282	285	292	295	298	305	315	325
27	RUNNYMEDE (115KV/27.6KV) TS	91	93	95	98	100	101	102	105	109
28	SCARBOROUGH (230KV/27.6KV) TS	244	250	256	268	275	282	291	305	319
29	SHEPPARD (230KV/27.6KV) TS	178	182	186	195	200	205	212	222	232
30	STRACHAN (115KV/13.8KV) TS	145	147	149	153	156	161	165	171	177
31	TERAULEY (115KV/13.8KV) TS	212	216	219	225	231	240	254	268	282
32	WARDEN (230KV/27.6KV) TS	111	114	116	122	125	128	132	138	145
33	WILTSHIRE (115KV/13.8KV) TS	72	74	75	78	79	80	81	84	86
34	WINDSOR (115KV/13.8KV) TS	326	331	336	345	353	362	373	386	400
35	WOODBIDGE (230KV/27.6KV) TS	20	20	20	21	21	21	22	22	23
		5,433	5,531	5,629	5,826	5,941	6,067	6,247	6,492	6,755

Toronto Hydro Electric System Limited
 Spatial Peak Demand Forecast
 Current CDM Programs (Projected demand reductions from currently approved CDM programs)

Net Transformer Station Projection (MW)										
	Station	2012	2013	2014	2016	2018	2021	2026	2031	2036
1	AGINCOURT (230KV/27.6KV) TS	5.9	7.1	9.0	7.5	7.5	7.1	6.3	6.3	7.0
2	BASIN (115KV/13.8KV) TS	3.4	4.1	5.2	4.3	4.4	4.1	3.7	3.7	4.1
3	BATHURST (230KV/27.6KV) TS	8.3	10.0	12.7	10.5	10.6	10.0	9.0	9.0	9.9
4	BERMONDSEY (230KV/27.6KV) TS	13.2	16.1	20.3	16.9	17.0	16.1	14.3	14.3	15.9
5	BRIDGMAN (115KV/13.8KV) TS	4.6	5.6	7.1	5.9	5.9	5.6	5.0	5.0	5.5
6	CARLAW (115KV/13.8KV) TS	8.4	10.2	12.9	10.7	10.8	10.2	9.1	9.1	10.1
7	CAVANAGH (230KV/27.6KV) TS	14.0	17.0	21.5	17.8	17.9	17.0	15.1	15.1	16.8
8	CECIL (115KV/13.8KV) TS	7.9	9.6	12.1	10.1	10.1	9.6	8.5	8.6	9.5
9	CHARLES (115KV/13.8KV) TS	7.3	8.8	11.2	9.3	9.3	8.8	7.9	7.9	8.7
10	DUFFERIN (115KV/13.8KV) TS	7.8	9.4	11.9	9.9	10.0	9.4	8.4	8.4	9.3
11	DUPLEX (115KV/13.8KV) TS	10.4	12.7	16.0	13.3	13.4	12.7	11.3	11.3	12.5
12	ELLESMERE (230KV/27.6KV) TS	6.6	8.1	10.2	8.5	8.5	8.1	7.2	7.2	8.0
13	ESPLANADE (115KV/13.8KV) TS	10.0	12.1	15.3	12.7	12.8	12.1	10.8	10.8	12.0
14	FAIRBANK (115KV/27.6KV) TS	18.9	22.9	29.0	24.1	24.2	22.9	20.5	20.5	22.6
15	FAIRCHILD (230KV/27.6KV) TS	14.7	17.8	22.6	18.7	18.8	17.8	15.9	15.9	17.6
16	FINCH (230KV/27.6KV) TS	0.9	1.1	1.4	1.1	1.1	1.1	1.0	1.0	1.1
17	GERRARD (115KV/13.8KV) TS	4.4	5.4	6.8	5.6	5.7	5.4	4.8	4.8	5.3
18	GLENGROVE (115KV/13.8KV) TS	6.2	7.6	9.6	7.9	8.0	7.6	6.7	6.7	7.5
19	HORNER (230KV/27.6KV) TS	8.6	10.5	13.2	11.0	11.1	10.5	9.3	9.3	10.3
20	LEASIDE (230KV/27.6 - 13.8KV) TS	13.1	15.9	20.2	16.7	16.8	15.9	14.2	14.2	15.7
21	LESLIE (230KV/27.6-13.8KV) TS	16.1	19.5	24.7	20.5	20.6	19.5	17.4	17.4	19.2
22	MAIN (115KV/13.8KV) TS	5.6	6.8	8.6	7.2	7.2	6.8	6.1	6.1	6.7
23	MALVERN (230KV/27.6KV) TS	3.4	4.1	5.2	4.4	4.4	4.1	3.7	3.7	4.1
24	MANBY (230KV/27.6KV) TS	11.7	14.3	18.0	15.0	15.1	14.2	12.7	12.7	14.1
25	REXDALE (230KV/27.6KV) TS	11.7	14.2	18.0	14.9	15.0	14.2	12.7	12.7	14.0
26	RICHVIEW (230KV/27.6KV) TS	15.0	18.2	23.0	19.1	19.2	18.2	16.2	16.2	17.9
27	RUNNYMEDE (115KV/27.6KV) TS	5.4	6.5	8.3	6.9	6.9	6.5	5.8	5.8	6.5
28	SCARBOROUGH (230KV/27.6KV) TS	15.2	18.5	23.4	19.4	19.5	18.5	16.5	16.5	18.2
29	SHEPPARD (230KV/27.6KV) TS	17.2	20.9	26.4	21.9	22.0	20.8	18.6	18.6	20.6
30	STRACHAN (115KV/13.8KV) TS	12.6	15.4	19.4	16.1	16.2	15.3	13.7	13.7	15.2
31	TERAULEY (115KV/13.8KV) TS	33.9	41.2	52.1	43.2	43.5	41.1	36.7	36.7	40.6
32	WARDEN (230KV/27.6KV) TS	6.9	8.4	10.6	8.8	8.8	8.4	7.5	7.5	8.3
33	WILTSHIRE (115KV/13.8KV) TS	3.2	3.9	4.9	4.0	4.1	3.8	3.4	3.4	3.8
34	WINDSOR (115KV/13.8KV) TS	13.9	16.9	21.4	17.8	17.9	16.9	15.1	15.1	16.7
35	WOODBIDGE (230KV/27.6KV) TS	1.2	1.4	1.8	1.5	1.5	1.4	1.3	1.3	1.4
		347.4	422.1	533.9	443.1	446.0	421.8	376.4	376.7	416.6

Toronto Hydro Electric System Limited

Spatial Peak Demand Forecast

Scenario 1 (Gross forecast minus demand reductions from current CDM programs)

Net Transformer Station Projection (MW)										
	Station	2012	2013	2014	2016	2018	2021	2026	2031	2036
1	AGINCOURT (230KV/27.6KV) TS	77	77	76	80	82	84	86	89	91
2	BASIN (115KV/13.8KV) TS	50	51	51	54	56	58	63	68	73
3	BATHURST (230KV/27.6KV) TS	239	241	243	253	257	262	268	276	284
4	BERMONDSEY (230KV/27.6KV) TS	160	162	162	174	178	184	193	202	211
5	BRIDGMAN (115KV/13.8KV) TS	160	161	162	169	172	174	178	184	189
6	CARLAW (115KV/13.8KV) TS	67	67	66	71	74	77	85	92	99
7	CAVANAGH (230KV/27.6KV) TS	104	103	101	108	110	113	117	121	124
8	CECIL (115KV/13.8KV) TS	157	158	157	163	166	171	178	185	191
9	CHARLES (115KV/13.8KV) TS	128	128	127	133	135	139	145	150	156
10	DUFFERIN (115KV/13.8KV) TS	122	123	122	128	130	133	137	141	145
11	DUPLEX (115KV/13.8KV) TS	102	103	102	110	113	116	122	128	133
12	ELLESMERE (230KV/27.6KV) TS	147	150	151	160	165	170	176	185	193
13	ESPLANADE (115KV/13.8KV) TS	176	177	177	186	191	199	212	225	238
14	FAIRBANK (115KV/27.6KV) TS	185	185	183	196	199	203	209	215	221
15	FAIRCHILD (230KV/27.6KV) TS	254	256	255	268	272	278	286	295	303
16	FINCH (230KV/27.6KV) TS	263	267	271	280	285	289	295	304	313
17	GERRARD (115KV/13.8KV) TS	26	25	25	27	28	30	33	36	38
18	GLENGROVE (115KV/13.8KV) TS	60	60	59	64	66	68	71	74	77
19	HORNER (230KV/27.6KV) TS	140	141	141	149	152	156	162	168	174
20	LEASIDE (230KV/27.6 - 13.8KV) TS	152	153	153	164	168	174	182	191	200
21	LESLIE (230KV/27.6-13.8KV) TS	243	244	243	255	260	265	273	282	289
22	MAIN (115KV/13.8KV) TS	71	71	71	76	78	82	89	96	103
23	MALVERN (230KV/27.6KV) TS	109	110	111	115	117	119	122	126	129
24	MANBY (230KV/27.6KV) TS	231	233	234	246	251	258	266	276	286
25	REXDALE (230KV/27.6KV) TS	110	109	107	113	114	116	121	125	128
26	RICHVIEW (230KV/27.6KV) TS	263	263	262	273	276	280	289	299	307
27	RUNNYMEDE (115KV/27.6KV) TS	85	86	86	91	93	94	97	100	102
28	SCARBOROUGH (230KV/27.6KV) TS	229	232	233	249	255	263	275	288	301
29	SHEPPARD (230KV/27.6KV) TS	160	161	160	173	178	184	193	203	212
30	STRACHAN (115KV/13.8KV) TS	132	131	130	137	140	145	152	158	162
31	TERAULEY (115KV/13.8KV) TS	179	174	167	182	187	199	218	231	241
32	WARDEN (230KV/27.6KV) TS	104	105	106	113	116	120	125	131	137
33	WILTSHIRE (115KV/13.8KV) TS	69	70	70	74	75	76	78	80	83
34	WINDSOR (115KV/13.8KV) TS	312	314	314	328	335	345	358	371	383
35	WOODBIDGE (230KV/27.6KV) TS	19	19	19	19	20	20	20	21	22
		5,085	5,109	5,095	5,383	5,495	5,645	5,870	6,116	6,338

Toronto Hydro Electric System Limited
Spatial Peak Demand Forecast
Historic CDM (Projected continuing demand reductions from past CDM programs)

Transformer Station Projection (MW)										
	Station	2012	2013	2014	2016	2018	2021	2026	2031	2036
1	AGINCOURT (230KV/27.6KV) TS	3.8	3.5	3.4	3.3	3.1	2.4	1.0	0.4	0.4
2	BASIN (115KV/13.8KV) TS	2.2	2.0	2.0	1.9	1.8	1.4	0.6	0.2	0.2
3	BATHURST (230KV/27.6KV) TS	5.3	5.0	4.8	4.7	4.4	3.4	1.5	0.6	0.6
4	BERMONDSEY (230KV/27.6KV) TS	8.5	7.9	7.6	7.5	7.1	5.4	2.3	0.9	0.9
5	BRIDGMAN (115KV/13.8KV) TS	2.9	2.8	2.7	2.6	2.5	1.9	0.8	0.3	0.3
6	CARLAW (115KV/13.8KV) TS	5.4	5.0	4.8	4.8	4.5	3.4	1.5	0.6	0.6
7	CAVANAGH (230KV/27.6KV) TS	9.0	8.4	8.1	7.9	7.5	5.7	2.5	1.0	0.9
8	CECIL (115KV/13.8KV) TS	5.1	4.7	4.6	4.5	4.2	3.2	1.4	0.5	0.5
9	CHARLES (115KV/13.8KV) TS	4.7	4.4	4.2	4.1	3.9	3.0	1.3	0.5	0.5
10	DUFFERIN (115KV/13.8KV) TS	5.0	4.7	4.5	4.4	4.2	3.2	1.4	0.5	0.5
11	DUPLEX (115KV/13.8KV) TS	6.7	6.3	6.0	5.9	5.6	4.3	1.9	0.7	0.7
12	ELLESMERE (230KV/27.6KV) TS	4.2	4.0	3.8	3.8	3.6	2.7	1.2	0.5	0.4
13	ESPLANADE (115KV/13.8KV) TS	6.4	6.0	5.8	5.7	5.4	4.1	1.8	0.7	0.7
14	FAIRBANK (115KV/27.6KV) TS	12.1	11.3	10.9	10.7	10.1	7.7	3.3	1.3	1.3
15	FAIRCHILD (230KV/27.6KV) TS	9.4	8.8	8.5	8.3	7.9	6.0	2.6	1.0	1.0
16	FINCH (230KV/27.6KV) TS	0.6	0.5	0.5	0.5	0.5	0.4	0.2	0.1	0.1
17	GERRARD (115KV/13.8KV) TS	2.8	2.7	2.6	2.5	2.4	1.8	0.8	0.3	0.3
18	GLENGROVE (115KV/13.8KV) TS	4.0	3.7	3.6	3.5	3.3	2.5	1.1	0.4	0.4
19	HORNER (230KV/27.6KV) TS	5.5	5.2	5.0	4.9	4.6	3.5	1.5	0.6	0.6
20	LEASIDE (230KV/27.6 - 13.8KV) TS	8.4	7.9	7.6	7.4	7.0	5.4	2.3	0.9	0.9
21	LESLIE (230KV/27.6-13.8KV) TS	10.3	9.6	9.3	9.1	8.6	6.6	2.8	1.1	1.1
22	MAIN (115KV/13.8KV) TS	3.6	3.4	3.2	3.2	3.0	2.3	1.0	0.4	0.4
23	MALVERN (230KV/27.6KV) TS	2.2	2.0	2.0	1.9	1.8	1.4	0.6	0.2	0.2
24	MANBY (230KV/27.6KV) TS	7.5	7.0	6.8	6.6	6.3	4.8	2.1	0.8	0.8
25	REXDALE (230KV/27.6KV) TS	7.5	7.0	6.8	6.6	6.3	4.8	2.1	0.8	0.8
26	RICHVIEW (230KV/27.6KV) TS	9.6	9.0	8.6	8.5	8.0	6.1	2.7	1.0	1.0
27	RUNNYMEDE (115KV/27.6KV) TS	3.5	3.2	3.1	3.1	2.9	2.2	1.0	0.4	0.4
28	SCARBOROUGH (230KV/27.6KV) TS	9.7	9.1	8.8	8.6	8.2	6.2	2.7	1.0	1.0
29	SHEPPARD (230KV/27.6KV) TS	11.0	10.3	9.9	9.7	9.2	7.0	3.0	1.2	1.2
30	STRACHAN (115KV/13.8KV) TS	8.1	7.6	7.3	7.2	6.8	5.2	2.2	0.9	0.9
31	TERAULEY (115KV/13.8KV) TS	21.7	20.3	19.6	19.2	18.2	13.9	6.0	2.3	2.3
32	WARDEN (230KV/27.6KV) TS	4.4	4.1	4.0	3.9	3.7	2.8	1.2	0.5	0.5
33	WILTSHIRE (115KV/13.8KV) TS	2.0	1.9	1.8	1.8	1.7	1.3	0.6	0.2	0.2
34	WINDSOR (115KV/13.8KV) TS	8.9	8.4	8.0	7.9	7.5	5.7	2.5	1.0	0.9
35	WOODBIDGE (230KV/27.6KV) TS	0.7	0.7	0.7	0.7	0.6	0.5	0.2	0.1	0.1
		222.6	208.6	200.7	196.7	186.7	142.4	61.6	24.0	23.4