

# **PROPOSED DATA REQUIREMENTS FOR UTILITY SPECIFIC LOAD PROFILE ANALYSIS**

## **Section A: General Comments**

1. This data request is almost finalized but may be updated as required. LDC may be required to provide additional data as appropriate (e.g. special situations due to mergers and acquisitions affecting total LDC wholesale purchases and number of customers between 2002 and 2006).
2. Test year in this document pertains to either historical test year (2004 for LDCs that use historical test year in their 2006 EDR applications) or future test year (2006 for LDCs that use future test year in their 2006 EDR applications).
3. This request assumes the use of generic load shapes from Ontario Load Data Research Group, the use of Hydro One weather normalization methodology and Hydro One to prepare utility specific load shapes. If you have not yet made any arrangement with respect to using the generic load shapes, you should make arrangement as soon as possible. Please send all questions directly to LoadResearch@HydroOne.com.
4. For LDCs that use historical test year in their 2006 EDR applications, the annual sum of items 3 to 7 in Section B for 2004 (consumed kWh by rate class with losses) must be equal to the annual sum of items 1 and 2 in Section B (total LDC wholesale purchases with losses). LDC will provide items 3 to 7 in Section B so that they will add up to the total LDC wholesale purchases by calendar month. LDC needs to consider adjustments which are typically made for unbilled kWh. There may be other potential adjustments required to address items such as: i) errors introduced by billing cycle, ii) differences between OEB approved loss factors and actual loss factors, iii) loss of billing data, iv) theft of power. Similarly, for LDCs that use future test year in their 2006 EDR applications, all numbers must add up to the total LDC wholesale purchases by calendar month. If numbers provided by LDCs do not add up to the total wholesale purchases by calendar month, Hydro One will not accept the data and consequently will delay the timing of the deliverables.
5. Hydro One requests all LDCs to provide their data files using either one of the following 2 options: i) send a CD or DVD [to Stanley But, Hydro One Networks Inc., 483 Bay Street, 8<sup>th</sup> floor, South Tower, Toronto, Ontario, M5G 2P5]; ii) set up a FTP site to allow Hydro One to retrieve your data files directly.
6. Data format and template will be provided by Hydro One as part of this data request (draft data format and template will be available for review by end of April).
7. Deliverables of the utility specific load shape analysis from Hydro One include: i) hourly kW for each rate class for the test year; ii) 1, 4 and 12 NCPs (non co-incident peaks) and CPs (co-incident peaks) for each rate class for use in the cost allocation model.

## **Section B: Information Required from LDC**

1. Four years (i.e. 48 months, May 01 2002 to April 30 2006) of hourly kWh purchases (4 x 8760) for the LDC (i.e. total purchases at the wholesale level with losses included). This information may be obtained from the IESO (if LDC is a wholesale market participant) or from the host LDC (if LDC is not a wholesale market participant). LDC is responsible to make adjustments for long-term and short-term load transfers to the hourly data as appropriate.
2. Four years (i.e. 48 months, May 01 2002 to April 30 2006) of hourly kWh purchases (4 x 8760) from embedded generation including losses if applicable.
3. Four years (i.e. 48 months, May 01 2002 to April 30 2006) of hourly kWh at the wholesale level for customers with interval meters (i.e. losses included) by rate class and by industry classification<sup>1</sup>. Draft industry classification table will be available end of April.

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<sup>1</sup> Industry Classification:

All industry classifications will be done using NAICS-2002 (North American Industry Classification System). If LDC is using other classification systems such as SIC 1980 or 1987 (Standard Industrial Classification), please convert that to NAICS-2002. Conversion tables can be found from Statistics Canada:

4. (a) One year (test year) of hourly kWh at the wholesale level (i.e. losses included) of street lighting, sentinel lighting and unmetered scattered load (USL). (If no actual hourly data is available, OEB deemed profiles should be used to estimate hourly data). USL should be divided into photo-sensitive type and non photo-sensitive type. In addition, non photo-sensitive type will be further divided into weather sensitive (e.g. cable TV devices with heaters) and non-weather sensitive loads. LDC will provide USL monthly kWh by type (photo-sensitive, non photo-sensitive, weather sensitive and non-weather sensitive) for the test year. Please note the LDC is responsible to make accrual and unbilled analysis<sup>2</sup> as required in order to bring the total monthly billing information consistent with wholesale purchases for these types of loads for the calendar month.

(b) Decision on potential USL load profile for upcoming filings is required in May 2006. Results from monitored data undertaken by LDCs will be available early May and will be discussed with working group and cable TV industry representatives. LDC will provide USL monthly kWh by type (photo-sensitive, non photo-sensitive, weather sensitive and non-weather sensitive) for the test year.

5. (a) For residential customers, if you have appliance survey results, provide detailed appliance survey results<sup>3</sup> together with total number of residential customers<sup>4</sup> for the test year and total class monthly kWh at the wholesale level (i.e. losses included). Please note the LDC is responsible to make accrual and unbilled analysis<sup>2</sup> as required in order to bring the total monthly billing information consistent with wholesale purchases for these customers for the calendar month. In addition, LDC has to provide the number of residential customers by six pre-defined annual kWh groups<sup>5</sup>. If your (main) residential class includes a significant number (over 10 to 15%) of seasonal customers (defined as customers residing at their premises for less than 8 months), please provide 2 most recent years (2004 and 2005) of monthly kWh for each residential customer so that special analysis could be performed to determine the mix between regular and seasonal customers (accrual adjustment is optional for this batch of data).

(b) If you do not have appliance survey results, please provide total number of residential customers<sup>4</sup> for the test year and total class monthly kWh at the wholesale level (i.e. losses included). Please note the LDC is responsible to make accrual and unbilled analysis<sup>2</sup> as required in order to bring the total monthly billing information consistent with wholesale purchases for these customers for the calendar month. The LDC is required to provide 2 most recent years (2004 and 2005) of monthly kWh for each residential customer so

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<http://www.statcan.ca/english/Subjects/Standard/concordances/naics02-to-sice80.htm>. Hydro One will provide general conversion guidance if required. If LDC does not currently have or want to use detailed classifications with NAICS-2002 (such as 4-digit classification) for its general service customers, it must provide industry classifications according to a short list of industry groupings (about 50 groups) as specified by Hydro One. Draft industry classification table will be available end of April.

<sup>2</sup> Accrual and billing analysis will be applied to total class monthly kWh only (not by industry classification or by individual customer).

<sup>3</sup> Appliance survey results:

- Detailed saturation information for electric space heating, water heating, and air conditioning. Please refer to survey questions as suggested by Prof. Dean Mountain.
- Number of survey respondents by six kWh groupings as defined by Prof. Dean Mountain.

<sup>4</sup> Number of customers:

- The number of customers to be provided by LDC should be consistent with the number they use in the 2006 EDR applications.

<sup>5</sup> Six annual kWh groupings as defined by Prof. Dean Mountain are:

0-6000, 6000-10500, 10500-16500, 16500-24000, 24000-40000, and >40000 (These groupings are based on customers with a complete year of kWh information only. The summation of these groupings will not add up to the total residential kWh).

that special analysis could be performed (accrual adjustment is optional for this batch of data). In addition, the LDC has to provide the number of residential customers by six pre-defined annual kWh groups<sup>5</sup>.

6. For general service >50 kW customers without interval meters, please provide monthly total class kWh for the test year at the wholesale level (i.e. losses included) by industry classification<sup>1</sup>. Please note the LDC is responsible to make accrual and unbilled analysis<sup>4</sup> as required in order to bring the total monthly kWh billing information consistent with wholesale purchases for these customers for the calendar month. In addition, please provide 2 most recent years (2004 and 2005) of monthly kW and total monthly kWh for each of the >50 kW general service customers together with their industry classifications so that further load factor analysis could be performed (accrual adjustment is optional for this batch of data).
7. (a) For general service <50 kW customers without interval meter, please provide monthly total class kWh for the test year at the wholesale level (i.e. losses included). Please note the LDC is responsible to make accrual and unbilled analysis<sup>4</sup> as required in order to bring the total monthly kWh billing information consistent with wholesale purchases for these customers for the calendar month.  
  
(b) For general service <50 kW customers without interval meter, the LDC may wish to provide industry classification information<sup>1</sup>. This is optional as it is used for checking purposes only. [OEB has approved LDC to use this classification as residual].
8. For Back-up/Standby Power (Load displacement including non-utility generation, where it is a separate rate classification in 2006), LDC must provide one year of hourly load kWh data and generation kWh data (8760 hours of load and 8760 hours of generation) with losses for the test year. If the generator is interval metered, please provide metered load hourly data and metered generation hourly data. If the generator is not interval metered, LDC will provide estimated hourly load data and generation data.
9. For specialized rate classifications (including different zonal rates) used by your LDC, please provide the above (item 1 to item 8) for each specialized rate classification as appropriate.