## Aiken & Associates

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May 17, 2010

Ms. Kirsten Walli Board Secretary Ontario Energy Board 2300 Yonge Street Suite 2700 Toronto, Ontario, M4P 1E4

Dear Ms. Walli:

Re: EB-2008-0346 – Written Questions on the Pacific Economics Group Research Report from the London Property Management Association (LPMA) and the Building Owners and Managers Association of the Greater Toronto Area (BOMA)

Attached are a number of questions related to the report titled "Top Down" Estimation of DSM Program Impacts on Natural Gas Usage" dated February, 2010 from Pacific Economics Group Research.

Sincerely,

Randy aiken

Randy Aiken Aiken & Associates

## **Question 1 - Tables 1 through 8**

For each of the first stage regressions shown in Tables 1 through 8, please provide the following.

a) What is the functional form of the equation, i.e. is the equation based on the straight data, or some transformation of the data? If the latter, please explain the data transformation that was used in each equation (e.g. difference, natural log, etc.).

b) Please confirm that with the exception of the Enbridge revenue class 20 class (which shows a statistically significant reduction in average use associated with the trend variable) and the Union revenue class 10 (where there is no statistically significant trend) there are statistically significant increases in average use on a trend basis.

c) Did PEG try to estimate if the trend variable has changed over time, perhaps reflecting a slowing trend due to DSM spending?

d) Is the total delivery price variable used in the equations a nominal or a real price? Please explain why the price (nominal or real) was chose instead of the alternative.

## Question 2 - Tables 11 through 18

a) Is the total delivery price variable used in the equations a nominal or a real price?

b) Is the DSM cost variable used in the equations a nominal or a real cost?

c) Please re-estimate the equations by removing any variables used in the regression (other than DSM) that have an incorrect or unexpected sign. Please provide the results of the regressions in the same format and level of detail as shown in Tables 11 through 18.

d) Please provide a table in the format below that shows the price elasticity and the DSM elasticity and the ratio of the price elasticity to the DSM elasticity for each of the revenue classes in Tables 11 through 18.

Revenue Class	Price Elasticity	DSM Elasticity	Price Elasticity/DSM Elasticity
EGD Class 20			
EGD Class 12			
EGD Class 48			
Union Class 1 Res			
Union Class M2 Res			
Union Class 01 Com			
Union Class M2 Com			
Union Class 10 Com			

## **Question 3**

a) Did PEG use different heating degree days based on each of the different regions served by Enbridge? If not, please explain why not.

b) What heating degree day figures did PEG use for the Union equations for the south (rate M2) and for the north (rates 01 and 10)? In particular, what is the location of the actual degree days used (eg. Pearson Airport)? If a weighted average of a number of locations was used to determine actual heating degree days, please explain how this figure was calculated.