

Undertaking JTD.1

Dr. Loube To Provide Excel Spreadsheet

Response:

See attached spreadsheet JTD1.xls. Because of a computational error, corrections have been made to Table 2. The revised table is shown in the attached spreadsheet.

| Source | Enbridge | | | | Union | | | |
|--|----------|---------|---------|--------|----------|---------|---------|--------|
| | COS High | COS Low | GD High | GD Low | COS High | COS Low | GD High | GD Low |
| Elasticity Estimates | | | | | | | | |
| EB 2007-0615,exhibit B, tab 3, schedule 4 | | | | | | | | |
| tables 3 and 3-GD | | | | | | | | |
| Number of Customers | 0.728 | 0.728 | 0.689 | 0.689 | 0.728 | 0.728 | 0.689 | 0.689 |
| Combined Outputs | 0.127 | 0.127 | 0.164 | 0.164 | 0.127 | 0.127 | 0.164 | 0.164 |
| sum of output elasticities | 0.855 | 0.855 | 0.853 | 0.853 | 0.855 | 0.855 | 0.853 | 0.853 |
| 1- the sum of output elasticities | 0.145 | 0.145 | 0.147 | 0.147 | 0.145 | 0.145 | 0.147 | 0.147 |
| output growth from PEG June Study Table 2 | 1.37 | 1.37 | 1.28 | 1.28 | 1.37 | 1.37 | 1.28 | 1.28 |
| Scale Factor | 0.20 | 0.20 | 0.19 | 0.19 | 0.20 | 0.20 | 0.19 | 0.19 |
| EB 2007-0615,exhibit B, tab 3, schedule 4 tables 3 | | | | | | | | |
| and 3-GD | 1.4 | 1.4 | 1.1 | 1.1 | 1.4 | 1.4 | 1.1 | 1.1 |
| TFP | 1.60 | 1.60 | 1.29 | 1.29 | 1.60 | 1.60 | 1.29 | 1.29 |
| Multi-factor productivity PEG June Study Table 14 | | | | | | | | |
| | | | | | avg | | | |
| | | | | | annual | | | |
| | | | | | growth | | | |
| | | | | | rate | | | |
| | year | index | | | | | | |
| | 1998 | 101.1 | | | | | | |
| | 2000 | 106.1 | | | | | | |
| | 2005 | 110 | | | 0.72% | 1.21% | | |
| Economy productivity growth rate | 0.72% | 1.21% | | | 0.72% | 1.21% | | |
| productivity differential | 0.87 | 0.39 | 0.87 | 0.39 | 0.56 | 0.08 | 0.56 | 0.08 |
| Input price differential | | | | | | | | |
| PEG Study June Study Tables 13, 14,15 and 16; | | | | | | | | |
| Lister Table 1 | | | | | | | | |
| Economy Prices | 2.49 | 2.99 | 2.49 | 2.88 | 2.49 | 2.99 | 2.49 | 2.88 |

| | | | | | | | | |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Industry Prices | 0.80 | 2.72 | 1.32 | 2.02 | 1.14 | 2.77 | 1.72 | 2.34 |
| | 1.69 | 0.27 | 1.17 | 0.86 | 1.35 | 0.22 | 0.77 | 0.54 |
| AUF | | | | | | | | |
| PEG June 2007 Study Table 7 | | | | | | | | |
| revenue weighted output | 2.02 | 2.02 | 2.02 | 2.02 | 1.2 | 1.2 | 1.2 | 1.2 |
| cost weighted output | 2.83 | 2.83 | 2.74 | 2.74 | 1.92 | 1.92 | 1.83 | 1.83 |
| | -0.81 | -0.81 | -0.72 | -0.72 | -0.72 | -0.72 | -0.63 | -0.63 |
| Stretch Factor | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |

| | | | | |
|------------------------------------|-------------|-------|------------|-------|
| Alternative X-factors for Enbridge | | | | |
| | COS Weights | | GD Weights | |
| | High | Low | high | low |
| productivity differential | 0.87 | 0.39 | 0.56 | 0.08 |
| input price differential | 1.69 | 0.27 | 1.17 | 0.86 |
| AUF | -0.81 | -0.81 | -0.72 | -0.72 |
| Stretch Factor | 0.5 | 0.5 | 0.5 | 0.5 |
| X-factor | 2.25 | 0.35 | 1.51 | 0.72 |
| | | | | |
| Alternative X-factors for Union | | | | |
| | COS Weights | | GD Weights | |
| | High | Low | high | low |
| productivity differential | 0.87 | 0.39 | 0.56 | 0.08 |
| input price differential | 1.35 | 0.22 | 0.77 | 0.54 |
| AUF | -0.72 | -0.72 | -0.63 | -0.63 |
| Stretch Factor | 0.5 | 0.5 | 0.5 | 0.5 |
| X-factor | 2.00 | 0.39 | 1.20 | 0.49 |