

August 30th, 2011

BY RESS and COURIER

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

Dear Ms. Walli:

**Re: Union Gas Limited ("Union")  
London Reinforcement Project  
Board File # EB-2010-0381**

Enclosed please find two copies of Union's revised evidence. The revision is a revised Schedule 9.

Union has revised the NPS 8 pipeline specifications to match the market availability of pipe. As well, approximately 12m of heavy wall pipe will be used at the take-off at Ten Mile Road. The reason for this is to match the fittings required for the tie-in to the existing line.

The new pipeline specification continues to meet all requirements of the Z662 Pipeline Code. All other design parameters remain unchanged.

Sincerely,



Mark Murray  
Manager, Regulatory Projects and Lands Acquisition  
:mjp  
Encl.

cc: Neil McKay, Manager Facilities Applications  
Zora Crnojacki, Project Advisor

**LONDON 3<sup>RD</sup> FEED PROJECT**  
**DESIGN AND PIPE SPECIFICATIONS**

Design Specifications – NPS 8

Class Location	- Class 3
Design Factor	- 0.800
Location Factor (General)	- 0.7
Location Factor (Roads)	- 0.625
Maximum Design Pressure	- 6160 kPa
Maximum Operating Pressure	- 3450 kPa
Test Medium	- Water
Test Pressure	- 8624 kPa min.
Valves/ Fittings	- PN <del>100</del> <u>68</u>
Minimum Depth of Cover	- 1.2 m

Pipe Specifications – NPS 8

Size	- NPS-8
Wall thickness	- <del>6.4</del> <u>4.8</u> mm
Type	- Electric Resistance Weld
Description	- C.S.A. Standard Z245.1-07
Grade	- <del>290</del> <u>359</u> MPa
Category	- I
Coating	- Extruded Polyethylene (Yellow Jacket)
<u>Operating Stress (at Design)</u>	- <u>39.2 SMYS</u>

Pipe Specifications – NPS 8

<u>Size</u>	- <u>NPS-8</u>
<u>Wall thickness</u>	- <u>8.2 mm</u>
<u>Type</u>	- <u>Electric Resistance Weld</u>
<u>Description</u>	- <u>C.S.A. Standard Z245.1-07</u>
<u>Grade</u>	- <u>290 MPa</u>
<u>Category</u>	- <u>1</u>
<u>Coating</u>	- <u>Extruded Polyethylene (Yellow Jacket)</u>
<u>Operating Stress (at Design)</u>	- <u>28.4% SMYS</u>

Design Specifications – NPS 12

Class Location	- Class 3
Design Factor	- 0.800
Location Factor (General)	- 0.7
Location Factor (Roads)	- 0.625
Maximum Design Pressure	- 420 kPa
Maximum Operating Pressure	- 420 kPa
Test Medium	- <del>Water</del> <u>Air/Nitrogen</u>
Test Pressure	- 588 kPa min.
Valves/ Fittings	- PN 20
Minimum Depth of Cover	- 1.2 m

| Pipe Specifications – NPS 12

Size	- NPS-12
Wall thickness	- 5.6 mm
Type	- Electric Resistance Weld
Description	- C.S.A. Standard Z245.1-07
Grade	- 290 MPa
Category	- I
Coating	- Extruded Polyethylene (Yellow Jacket)