

ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
ENERGY PROBE RESEARCH FOUNDATION INTERROGATORY #66

INTERROGATORY

Issue D1 Do the facilities address the OEB Environmental Guidelines for Hydrocarbon Pipelines as applicable?

Ref: EB-2012-0451 Exhibit B, Tab 2, Schedule 1, Environmental Report, 1.0 Introduction, Page 15

- a) Please provide the design details/specification for Class 4 pipeline.
- b) Please explain why Segment A will be designed with a maximum operating pressure (MOP) of 935 psig and the design MOP for Segment B is 650 psis.

RESPONSE

- a) Class locations define the amount of hoop stress a given diameter pipeline can operate at. Class 4 has the highest safety factor and is for pipeline segments where there is a prevalence of buildings intended for human occupancy with 4 or more stories above ground.

Hoop stress is a function of maximum operating pressure, wall thickness and grade. For design specifications for each segment please refer to Exhibit C, Tab 1, Schedule 1, Pages 1-3. For additional information regarding Class Location please refer to Exhibit A, Tab 3, Schedule 6, Page 3, Paragraphs 5-7.

- b) Segment A is a transmission pipeline designed to operate at 935 psi in order to maintain the required minimum station inlet pressure at Albion Station. Segment B is part of the Enbridge's distribution system and ties into existing facilities originally designed to operate at 650 psi.