

ENBRIDGE GAS INC.
Answer to Interrogatory from
Building Owners and Managers Association of Greater Toronto (BOMA)

Reference: Exhibit C1, Tab 2, Schedule 1, p21

Question:

- (a) Please provide a copy of the 1977 – 1985 plastic main integrity assessment.
- (b) Do you proactively replace plastic mains on basis of age alone? Please discuss.
- (c) Do you conduct condition assessments of all mains assets?
- (d) How many copper ICMs services mains in operation? What is the average age? What are plans to replace them?
- (e) How do you determine when a valve on a pipe is leaking?
- (f) Please distinguish between system reinforcement, asset replacement, and asset removal.
- (g) What steps are being taken to address valves in poor condition?

Response

- a) The integrity assessment on 1977 to 1985 plastic main is a proposed strategy for that specific asset sub-class. The assessment will be initiated in 2019 and targeted for completion over the next 5 years.
- b) No. The current focus of the vintage plastic replacement program is to replace the mains that have shown the effect of rapid degradation due to stress factors such as rock impingement.
- c) Not on all mains. Condition of Integrity Mains is assessed through in-line inspection, while direct assessments are performed opportunistically on distribution mains during maintenance activities. The condition information obtained from this direct assessment is used in our predictive analytics to support the development of

statistical models to help inform asset health. (Exhibit C1, Tab 2 / Schedule 1, page 113 to 114, section 5.2.4.1)

- d) There are no copper mains in the system, only copper services. The average age of the remaining active copper services is approximately 49 years. (Exhibit C1, Tab 2 Schedule 1, page 21, section 1.8.2). There are approximately 5,100 active copper services in operation at the time the Asset Plan was written. The current plan is to replace all copper services with steel or plastic services over the next 10 years. (Exhibit C1, Tab 2, Schedule 1, page 143, figure 5.2 to 41)
- e) When a potential leak is detected through the Leak Survey program or when a suspected gas leak is reported by the public to Enbridge Gas, a leak investigation is conducted to confirm if it is a natural gas leak and to determine the gas source. Leaks on valves can also be detected during the valve inspection program.
- f) As per Exhibit C1, Tab 2, Schedule 1, page 159, section 5.2.11:

System Reinforcement projects involve the installation or modification of existing gas distribution assets to maintain minimum required system pressures, maintain distribution capacity, and meet growing natural gas demands. These projects are primarily driven by increased customer demand, customer growth and system reliability considerations.

Asset replacement pertains to the like-for-like replacement of an asset to address condition issues.

Asset removal refers to the removal from service, either physically or more commonly by abandonment in place where the asset is disconnected from the distribution system and replaced by a new asset under asset replacement.

- g) When an issue is identified on a valve, it will be assessed by field operations to determine if the issue can be remedied through maintenance work or repair. In the event where the valve is not repairable, it will be replaced.