

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

Reference: Exhibit C1, Tab 2, Schedule 1, p49

Question:

Please discuss what is meant by "reliability engineering". How does it work? How is it distinguished from, for example, engineering, civil engineering, mechanical engineering, electrical engineering?

Response

Reliability Engineering focuses on the continued ability of an asset or component to perform its intended function. The key is to understand the function of the component within the system as a whole, and to establish how it might fail (failure modes) and the consequences related to each failure mode.

To establish the reliability of a system as a whole, it is important to understand the failure frequencies and consequences related to each of the system's components. For this reason, Reliability Engineering is often focused on failure and consequence data, as well as predictive analytics.

Reliability Engineers can have a background in any Engineering discipline, including those mentioned above.

As defined on page 47 in EGD rate zone's AMP, filed at Exhibit C1, Tab 2, Schedule 1, reliability engineering describes the role of data and predictive analytics in establishing asset health.