

ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
FEDERATION OF RENTAL-HOUSING PROVIDERS OF ONTARIO
INTERROGATORY #3

INTERROGATORY

A. RELATED ISSUES

1. Are the proposed facilities needed? Considerations may include but are not limited to demand, reliability, security of supply, flexibility, constraints, operational risk, cost savings and diversity as well as the Board's statutory objectives.

REF: EB-2012-0451 EX. A, Tab 3 Schedule 3

Preamble: EGD has described some of the limitations to its current system. The following are general questions in this area at the outset.

3. From a network analysis perspective , please explain the difference between a steady state and transient analysis model?

RESPONSE

A steady state model is static and the sum of the flows into the system must equal the aggregate consumption at customer meters.

In a transient analysis model the system is modeled on a daily basis taking into account how gas consumption changes over the day. In a transient analysis the sum of the gas flow into the system need not be equal to the gas being consumed at any point in time. This type of analysis considers the physical properties of gas (i.e. gas is compressible).

Witnesses: E. Naczynski