

ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
ENVIRONMENTAL DEFENCE INTERROGATORY #22

INTERROGATORY

Issue A4: "What are the alternatives to the proposed facilities? Are any alternatives to the proposed facilities preferable to the proposed facilities?"

Reference: Ex. A, Tab 3, Schedule 3, page 11

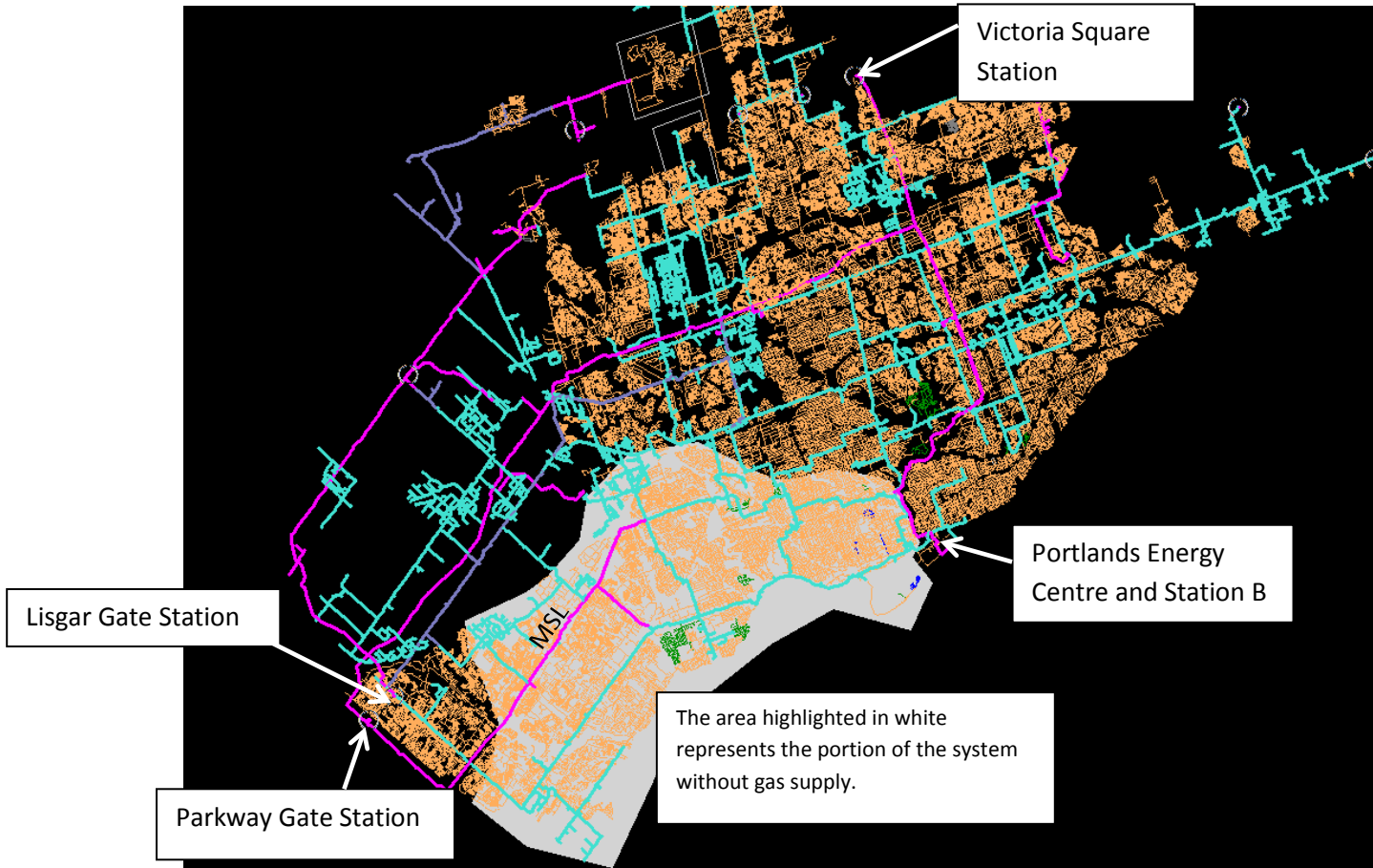
What is the probability of an outage of approximately 270,000 residential customers plus PEC at a 35 DD due to the loss of the Parkway Gate Station? Please provide Enbridge's studies to support its estimate.

RESPONSE

Enbridge has completed a network simulation at a 35DD that considered the loss of the Parkway Gate Station. This includes the loss of the Parkway North Pipeline and the MSL Pipeline. The results of this simulation are shown in Figure 1 on the following page. The estimated customer loss in the white highlighted area is 270,000 which includes downtown Toronto, Etobicoke and most of Mississauga. The highlighted area represents the estimated geographical area that would experience low pressures (please see Figure 1 below). Power generators in those areas would also lose supply. With the loss of supply at Parkway, the system flows are redirected to Lisgar and Victoria Square Stations. These stations are interconnected via the XHP grid, shown as purple in Figure 1 below, and will support much of the system to the north. However, this results in lower pressures on the Don Valley line at Station B, and with no flow on the MSL, the customer loss is concentrated around the MSL pipeline which extends into the downtown core of Toronto.

Witness: E. Naczynski

Figure 1: Estimated area of impact with loss of Parkway Gate Station



Enbridge has not completed a site specific study of Enbridge Parkway Gate Station to determine the probability of loss of this facility. Enbridge does not have details of the probability of loss of facilities relating to the loss of the Union Parkway Station or the loss of the Dawn to Parkway Transmission pipeline, as these facilities are owned and operated by Union.

Union's EB-2012-0433 discusses the reliability of Parkway. Please see Section 8, page 71, paragraph 29 to 30.

Witness: E. Naczynski