Q. C. Douglas Bowman Report, page 3, lines 11-14. Please list all proceedings in Nova Scotia and other Canadian jurisdictions, excluding Newfoundland and Labrador, in which Mr. Bowman has presented evidence on utility cost of service and rate design issues and include the dates such evidence was filed.

A. Mr. Bowman has filed evidence on cost of service and rate design in the Canadian provinces of Newfoundland and Labrador, Nova Scotia and Ontario. Evidence filed is documented in Exhibit CDB-1 of Mr. Bowman's Pre-filed Evidence and is repeated below. Not included in Exhibit CDB-1 are rate designs that Mr. Bowman developed for industrial customers while at Ontario Hydro including an interruptible rate, a real-time pricing rate and a surplus power rate. These rates all received regulatory approval and were in use up until the time Ontario deregulated its electricity market and introduced competition at the wholesale and retail levels.

For Nova Scotia, Mr. Bowman no longer has copies of this evidence and has been unable to locate it on the Nova Scotia Utility and Review Board website. However, the evidence was filed during the years 1994 through 1996. For Ontario, two reports were filed as part of Ontario Hydro Networks Company (OHNC) evidence filed with the Ontario Energy Board (OEB) in support of its *Transmission 2000 Cost Allocation and Rate Design* application (filed October 1, 1999). The report on the International Survey of Transmission Rates and Services is dated May 2000. Mr. Bowman is unable to locate the report on Development of Terms and Conditions for Transmission Tariff but notes that it was also filed in support of the Ontario Hydro Networks Company (OHNC) *Transmission 2000 Cost Allocation and Rate Design* application. The interruptible, real-time pricing and surplus power rate designs developed for industrial customers in Ontario received regulatory approval from the Ontario Energy Board in the early 1990s. Mr. Bowman no longer has documentation related to these rate designs.

In Nova Scotia,

Expert Testimony at Nova Scotia Power's Rates Submission
Provided expert oral and written testimony related to cost of service and rate design issues. Recommended and designed time-of-day rates for all customer classes and designed an alternative interruptible rate design for large industrial customers.

Expert Testimony at Nova Scotia Power's Rates Submission
Provided expert oral and written testimony regarding an Industrial Expansion rate design. Recommended approval of rate with modifications and submitted two alternative rate designs for approval including a real-time surplus power rate and a time-of-day expansion rate.

Cost of Service and Cost Reducing Rate Design Study
On behalf of the Nova Scotia Utility and Review Board, reviewed Nova Scotia's cost of service study and developed rate designs consistent with Nova Scotia Power's integrated resource plan for all customer classes. Report was filed with the Board, and reviewed as part of hearing on utility's subsequent rate submission.

In Ontario,

Development of Terms and Conditions for Transmission Rate
Assisted Ontario Hydro Services Company with development of terms and conditions for its new transmission rate. The terms and conditions were filed with the regulatory authority as part of the utility's application for approval of the new rate. Also assisted with preparation of responses to various discovery questions related to the rate.

International Survey of Transmission Rates and Services
Conducted a survey of transmission rates and services provided in various domestic and international jurisdictions. Survey conducted in support of submission by Ontario Hydro Networks Company to Ontario Energy Board on its new transmission tariff. Survey topics included: services offered such as network, point-to-point, connection, import and export service; cost recovery such as postage stamp, zonal and nodal pricing; treatment of generation; and transmission planning.

Development and Implementation of Interruptible Rate for Industrial Customers
Designed interruptible power rate for industrial customers with three options relating to the discount, number and length of interruptions. The rate was offered on a voluntary basis and received regulatory approval from the Ontario Energy Board. When first implemented, the rate had 44 subscribers. Interruptible discounts were based on the marginal value of capacity and took into consideration the diversity or load available for interruption. The rate replaced a previous interruptible rate that was based on information that had become outdated.

Development and Implementation of Real-time Pricing Rate for Industrial Customers
Designed real-time pricing rate for industrial customers. The rate was based on a day-ahead forecast of Ontario Hydro's marginal cost of energy. Each day, the energy rate was faxed to subscribers for application the following day. The capacity component collected the remainder of the revenue requirement and was established a year-ahead. It was billed hourly (as was the energy component). The capacity component was designed to recover 50% of the remaining revenue requirement (the part not recovered in the energy component) in the three winter months, 25% in the three summer months and 12.5% in

each of the three spring and fall months. The rate received regulatory approval from the Ontario Energy Board and when first implemented had 22 subscribers.

Development and Implementation of Surplus Power Rate for Industrial Customers
Designed a surplus power rate that had no capacity charge. The energy charge was based on the day-ahead forecast of Ontario Hydro's marginal cost plus an adder of 0.5 cents/kWh. The intent was to encourage consumption above baseline historical levels. In effect, the administrator of the rate (Mr. Bowman) bid to purchase energy from the market on behalf of surplus power customers. If another purchaser such as a Michigan or New York utility bid a higher amount, the power was sold to the alternative purchaser and supply to the surplus power customers was interrupted. Energy prices were faxed to customers a day in advance and customers were billed hourly. The surplus power rate was offered on a voluntary basis. The rate received regulatory approval from the Ontario Energy Board and when first implemented had 6 subscribers. After the first month, one of the subscribers opted out of the rate because it could not withstand the high number of interruptions. However, five customers remained on the rate in spite of the interruptions so in this sense, the power was truly surplus to their needs.