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November 22, 2019

VIA RESS AND COURIER

Ms. Christine E. Long
Registrar and Board Secretary
ONTARIO ENERGY BOARD
P.O. Box 2319, 27th Floor
2300 Yonge Street
Toronto, Ontario
M4P 1E4

Dear Ms. Long:

**Re: EB-2019-0242: Association of Major Power Consumers in Ontario (AMPCO)
Application for Review of an Amendment to the Independent Electricity System
Operator (IESO) Market Rules.**

CV and Witness Statement of Colin Anderson.

As we have previously advised OEB Staff, AMPCO will call one witness to provide evidence in support of its application; AMPCO's President, Colin Anderson.

With this letter we are filing:

1. Mr. Anderson's CV;
2. A brief witness statement reflecting information which Mr. Anderson intends to address in his direct testimony.

The three topics addressed in the witness statement were raised in Dr. Rivard's evidence filed on behalf of KCLP. Mr. Anderson intends to provide clarifications in response to that evidence, which

clarifications are summarized in the witness statement provided so that parties can consider them as they prepare for their cross-examinations.

Yours truly,



Ian A. Mondrow

cc: Glenn Zacher, Counsel for IESO
James Hunter, IESO
Colin Anderson, President, AMPCO
Michael Bell (OEB Staff)
Ljuba Djurdjevic (OEB Staff)
Intervenors of Record

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COLIN J. ANDERSON, P.Eng, MBA

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WORK EXPERIENCE

2016 - **ASSOCIATION OF MAJOR POWER CONSUMERS IN ONTARIO (AMPCO)**

Present *President*

AMPCO is a not-for-profit consumer interest advocacy organization. AMPCO's members represent Ontario's major industries: forestry, chemical, mining and minerals, steel, petroleum products, cement, automotive, industrial air, manufacturing and business consumers in general. AMPCO members are major investors, major employers and a major part of communities across Ontario.

- **Policy** – Responsible for all advocacy work in the area of policy development.
- **Regulatory** – Responsible for all regulatory interventions and consultations that could impact members.
- **Operations** – Responsible for all day to day operations of the Association.

2001 – **ONTARIO POWER GENERATION INC. (OPG)**

2016 *(2012 – 2016) Director, Major Applications*

(2007 – 2012) Director, Ontario Regulatory Affairs

(2005 – 2007) Regulatory Affairs Manager – Operations

(2001 – 2005) Senior Advisor – Regulatory Affairs

Responsible for all aspects of OPG's major applications filed with the Ontario Energy Board (OEB) associated with all of OPG's regulated assets, both Hydroelectric and Nuclear. Some key points:

- **Case Management of OPG Rate Applications** - This includes resolution of senior executive level strategic and tactical issues, coordination of all internal and external stakeholder activities, creation and review of all evidence, witness preparation, and full case management responsibilities. Applications typically deal with annual revenue requirements in the \$5 billion range.
- **Supervisory** - Direct activities of all staff and consultants on OPG's rate applications. I was also a member of OPG's Corporate Grievance Review Board, whose mandate was to dispose of grievances jointly with union representatives. I have supervised both represented and management staff.
- **Market Activities** - Supported OPG senior management in decisions associated with OPG's activities within Ontario and other markets, including both state/provincial jurisdictions and the U.S. Federal Energy Regulatory Commission (FERC).
- **Reliability** - Directed OPG's involvement in North American Electric Reliability Corporation (NERC) and the Northeast Power Coordinating Council (NPCC) reliability standards development and compliance activities. Served as Chairman of NPCC's Reliability Coordinating Committee in 2008.
- **Compliance Initiatives** - Designed and implemented compliance programs, including Competition Compliance in coordination with operating Business Units. Resulted in increased awareness of, and attention to, compliance issues associated with the open electricity market.

2000 - DELOITTE CONSULTING

2001 *Manager – Energy Practice*

Provided management consulting services to energy sector clients. Some key points:

- **Strategic Initiatives** - Developed an Energy Market Study for Deloitte Global Office to uncover market-driven insights and opportunities. Results informed investment planning within the Energy Practice for the firm.
- **Energy Market Readiness Initiatives** - Implemented market readiness programs for generating companies that were preparing for deregulation as part of a multi-disciplinary team. Focused on the integration of operations and energy markets activities from strategic, people and systems perspectives, with a focus on business processes.
- **Supervisory** - Directed activities of consultants and senior consultants on an engagement-by-engagement basis. Able to influence decisions in client organizations in which I had no direct management authority.

1994 - WESTINGHOUSE CANADA INC.

1998 *Senior Engineer - Steam Turbine Design*

Employed in the Product Engineering Group whose mandate included responsibility for new product design and service engineering issues. Some key points:

- **Project Management / Internal Consulting** - Consultant to Joint Venture Partners in both South Korea and China. Scope of Korean engagement included design reviews, process implementation and reengineering, cost reduction analysis, component outsourcing, training and quality assurance audits.
- **Technical** - Lead Engineer for the "first-of-its-kind" co-manufacturing project with a new Strategic Alliance Partner in Korea. Achieved success in design, manufacturing support, and technical consultation resulting in the first ever Westinghouse technology steam turbine shipment from the JV Partner's new facility.
- **Supervisory** - Key senior player in multi-disciplinary, team-based structure. Managed activities of junior engineering staff and draftspeople on a project-by-project basis.

1988 - ONTARIO HYDRO (LENNOX AND NANTICOKE GENERATING STATIONS)

1994 *Assistant Thermal Station Engineer*

Assigned to the Maintenance Department where responsibilities included support in all areas of power plant management. Some key points:

- **Production Work** – supported all day to day operations and maintenance of the facilities.
- **Asset Management** – responsible for both capital projects and operations, maintenance and administrative (OM&A) budgets, as well as life cycle plans for station assets.
- **Supervisory** - including all staffing, training, health & safety and labour relations issues in a heavily unionized environment.

EDUCATION

2000 University of Toronto (Rotman School of Management) - Masters of Business Administration

1988 Queen's University - B.Sc. (Honours) Mechanical Engineering

ONTARIO ENERGY BOARD

**ASSOCIATION OF MAJOR POWER
CONSUMERS IN ONTARIO (AMPCO)**

**Application for Review of an Amendment
to the Independent Electricity System Operator Market Rules**

WITNESS STATEMENT

Colin Anderson

November 22, 2019

In my direct testimony I intend to address 3 points raised by the evidence filed by Dr. Rivard.

First, Dr. Rivard's various examples compare i) a DR resource consisting of a behind the meter generation facility which allows the load customer to displace a portion of its demand for energy from the market; with ii) a resource consisting of a load customer who is also a directly connected generator market participant and will participate in the TCA as a non-committed generator.

I take issue with the representativeness of such a comparison. Most DR resources do not include behind the meter generation. When process loads provide demand response, they shut down process equipment which entails incremental costs and associated risks well beyond those which Dr. Rivard presumes for his comparisons.

Second, Dr. Rivard cites U.S. research positing that DR load reductions might actually entail shifting demand to other price periods. Many of the process loads referred to above do not have such spare capacity, and when they provide demand response these represent losses in production which are permanent, not merely shifted in time.

Third, Dr. Rivard suggests that providing a DR resource with capacity payments rewards it twice for the same demand reduction if the resource also participates in the Industrial Conservation Initiative (ICI) peak reduction program. I believe that Dr. Rivard is mistaken about this. It is my understanding that if a DR resource reduces load for the purposes of reducing its peak for ICI calculations, that reduction would by definition be unavailable to the market and the IESO would thus claw back availability payments for the period during which the resource was not available. In fact, if the DR resource was to reduce load during peak ICI months (July, August, January or February), the DR resource availability payment claw-back would occur at a 2:1 ratio.