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May 16, 2023

THE PUBLIC UTILITIES BOARD OF MANITOBA
400-330 Portage Avenue
Winnipeg, Manitoba
R3C 0C4

ATTENTION: Dr. D. Christle, Board Secretary and Executive Director

Dear Dr. Christle:

**RE: MANITOBA HYDRO'S 2023/24 & 2024/25 GENERAL RATE APPLICATION – MANITOBA
HYDRO'S EXPORT, DROUGHT & HYDROLOGY PANEL QUALIFICATIONS**

Please find enclosed the Witness Qualifications for Manitoba Hydro's Export, Drought & Hydrology Panel with respect to the 2023/24 & 2024/25 General Rate Application, to be marked as exhibits in this proceeding.

The Export, Drought & Hydrology Panel for this Application consists of the following witnesses:

- Hal Turner, *Vice-President, Asset Planning & Delivery*
- Nikhil Karanwal, *Director, Energy Markets*
- Kevin Gawne, *Manager, Energy Operations Planning Department*
- Cheryl Sanclemente, *Acting Manager, Wholesale Power Trading Department*

Should you have any questions with respect to the foregoing, please do not hesitate to contact the writer at 204-360-3257.

Yours truly,
MANITOBA HYDRO LEGAL SERVICES
Per:

A handwritten signature in blue ink, appearing to read 'Brent Czarnecki'.

Brent Czarnecki
Senior Counsel



EMPLOYEE NAME: H. C. (Hal) Turner

PROFESSIONAL EDUCATION:

Bachelor of Science in Mechanical Engineering, University of Manitoba, 1992

PROFESSIONAL AFFILIATIONS:

Association of Professional Engineers and Geoscientists Manitoba (Member)

EMPLOYMENT HISTORY:

| | |
|-------------------------|---|
| November 2021 – Present | Vice-President, Asset Planning & Delivery, Manitoba Hydro |
| 2020 – November 2021 | Director, Asset Management, Manitoba Hydro |
| 2017 – 2020 | Director, Generation Asset Management, Manitoba Hydro |
| 2013 – 2017 | Manager, Power Projects Department, Manitoba Hydro |
| 2011 – 2013 | Manager, Mechanical Engineering Department, Manitoba Hydro |
| 2009 – 2011 | Section Head, Mechanical Engineering Department, Manitoba Hydro |
| 2006 – 2009 | Senior Mechanical Engineer, Mechanical Engineering Department, Manitoba Hydro |
| 2004 – 2006 | Project Engineer, Power Projects Department, Manitoba Hydro |
| 2003 – 2004 | Design Engineer, Mechanical Engineering Department, Manitoba Hydro |
| 2002 – 2003 | Site Engineer, Power Projects Department, Manitoba Hydro |
| 1998 – 2002 | Mechanical Engineer, Mechanical Engineering Department, Manitoba Hydro |
| 1997 – 1998 | Engineer, Power Engineering |
| 1996 – 1997 | Maintenance Engineer, Thermal Technical Services, Manitoba Hydro |
| 1995 – 1996 | Engineer in Training, Generation North, Manitoba Hydro |



EMPLOYEE NAME: N. (Nikhil) Karanwal

PROFESSIONAL EDUCATION:

Master of Business Administration (MBA), University of Calgary, 2014

Master of Engineering, Electrical & Computer Engineering, University of Calgary, 2004

PROFESSIONAL AFFILIATIONS:

Professional Engineer (APEGA)

EMPLOYMENT HISTORY:

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|---------------------|--|
| July 2021 – Present | Director, Energy Markets Division, Manitoba Hydro |
| 2018 – 2021 | Head – US (& Argentina) Business Development, PETRONAS |
| 2014 – 2018 | Manager – Unconventional, PETRONAS |
| 2012 – 2014 | Senior Development Engineer, Talisman Energy |
| 2010 – 2012 | Development Engineer, Talisman Energy |
| 2006 – 2010 | Completions Engineer, Talisman Energy |
| 2004 – 2006 | Wireline Engineer, Schlumberger |



EMPLOYEE NAME: K. (Kevin) Gawne

PROFESSIONAL EDUCATION:

Master of Science, Civil Engineering (Water Res./Hydraulics), University of Manitoba, 1997
Bachelor of Science, Civil Engineering, University of Manitoba, 1995

PROFESSIONAL AFFILIATIONS:

Member, Engineers Geoscientists Manitoba
Past-Chair and Current Co-Representative for Manitoba Hydro, Centre for Energy Advancement through Technological Innovation (CEATI) - Hydropower Operations and Planning Interest Group
Past-Chair, Midwest Contingency Reserve Sharing Group

EMPLOYMENT HISTORY:

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|------------------------|--|
| October 2022 – Present | Manager, Energy Operations Planning Department, Manitoba Hydro |
| 2021 – October 2022 | Manager, Energy Supply Planning Department, Manitoba Hydro |
| 2011 – 2021 | Manager, Energy Operations Planning & Technology Department, Manitoba Hydro |
| 2009 – 2011 | Operations Planning Section Head, Hydraulic Operations Department, Manitoba Hydro |
| 2006 – 2009 | Short-term Generation Section Head, Transmission Services Department, Manitoba Hydro |
| 2004 – 2006 | Market and Risk Specialist, Export Power Marketing Department, Manitoba Hydro |
| 2000 – 2004 | Capacity and Energy Studies Engineer, Operations Planning Department, Manitoba Hydro |
| 1999 – 2000 | Water Resources Engineer, Hydraulic Eng. & Operations Department, Manitoba Hydro |
| 1998 – 1999 | Engineer-in-Training, multiple rotations, Manitoba Hydro |
| 1997 – 1998 | Engineer-in-Training, Acres International |
| 1997 | Engineer-in-Training, Cochrane Engineering |



EMPLOYEE NAME: C. D. (Cheryl) Sanclemente

PROFESSIONAL EDUCATION:

Chartered Professional Accountant, Certified Management Accountant, 2001
Bachelor of Commerce (Honors), University of Manitoba, 1997

PROFESSIONAL AFFILIATIONS:

Chartered Professional Accountants (CPA, CGA), CPA Manitoba

EMPLOYMENT HISTORY:

| | |
|-------------------------|---|
| November 2022 – Present | Acting Manager, Wholesale Power Trading Department, Manitoba Hydro |
| 2012 – October 2022 | Manager, Energy Trading and Sales Manager, Wholesale Power Trading Department, Manitoba Hydro |
| 2006 – 2012 | Supervisor, Financial Trading, Wholesale Power Trading Department, Manitoba Hydro |
| 2003 – 2006 | Day Ahead Trader/Term Trader, Wholesale Power Trading Department, Manitoba Hydro |
| 2001 – 2002 | Real Time Trader, Wholesale Power Trading Department, Manitoba Hydro |
| 2000 – 2001 | Professional Accountant, Corporate Accounting Department, Manitoba Hydro |
| 1998 – 2000 | Commerce Career Development Program, Manitoba Hydro |