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ONTARIO ENERGY BOARD

IN THE MATTER OF the Ontario Energy Board Act, 1998;

AND IN THE MATTER OF an Application by Oshawa PUC Networks Inc. for an Order *approving* rates and other service charges for the distribution of electricity for the years 2015 through 2019.

AFFIDAVIT OF (SHAWN) SWARANJIT OTAL

I, (SHAWN) SWARANJIT OTAL, of the city of Mississauga of Ontario *province in Canada*, MAKE OATH AND SAY:

- 1. I am employed by, or associated with, METSCO Energy Solutions. The report filed by Oshawa PUC Networks Inc. (OPUCN) as Exhibit 2, Tab B, Schedule 3 (Report) in support of its application to the Ontario Energy Board (OEB) for 2015-2019 distribution rates (EB-2014-0101) was prepared under my direction and guidance.
- 2. This affidavit is provided to attest to the accuracy and truthfulness of the contents of the Report, and of any interrogatory responses or technical conference undertakings that I was asked by OPUCN to provide, or to review and comment on or contribute to (and in that event, as applicable, to the extent of my review and comment or contribution).
- 3. I have also read, understood, and agree to the contents of the OEB's Form A to its *Rules* of *Practice and Procedure*, a copy of which Form A, signed by me, is attached as Exhibit 1 to this affidavit.

SWORN BEFORE ME at Mississauga , Ontario _____, on July 03, 2015.

(SHAWN) SWARANJIT OTAL

Merlin Barbara Fernandes Barrister & Solicitor Notary Public and Commissioner of Oaths in and for the Province of Ontario. My commission is of unlimited duration No legal advice given

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FORM A

IN THE MATTER OF the Ontario Energy Board Act, 1998;

AND IN THE MATTER OF an Application by Oshawa PUC Networks Inc. for an Order approving rates and other service charges for the distribution of electricity for the years 2015 through 2019.

ACKNOWLEDGEMENT OF EXPERT'S DUTY

- 1. My name is (**Shawn**) **Swaranjit Otal**. I live at <u>77 Fairview Road W, Mississauga</u>, in the *province* of Ontario, Canada.
- 2. I have been engaged by or on behalf of Oshawa PUC Networks Inc. to provide evidence in relation to the above-noted proceeding before the Ontario Energy Board.
- 3. I acknowledge that it is my duty to provide evidence in relation to this proceeding as follows:
 - (a) to provide opinion evidence that is fair, objective and non-partisan;
 - (b) to provide opinion evidence that is related only to matters that are within my area of expertise; and
 - (c) to provide such additional assistance as the Board may reasonably require, to determine a matter in issue.
- 4. I acknowledge that the duty referred to above prevails over any obligation which I may owe to any party by whom or on whose behalf I am engaged.

Date July 03, 2015

Signature

Sworn before me at Muscissauga Outavio this 3rd day of July, 2015.

commissioner Etc.

Merlin Barbara Fernandes Barrister & Solicitor Notary Public and Commissioner of Oaths in and for the Province of Ontario. My commission is of unlimited duration. No legal advice given

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Shawn Otal, MBA, P. Eng.

- 1. Proposed Position: Senior Asset Management Expert (International)
- 2. Name of Firm: METSCO Inc.
- 3. Name of Staff: Shawn Otal, MBA, P. Eng.

4. Key Qualifications

Mr. Shawn Otal is a professional electrical engineer with over 35 years of experience in the electricity sector. Over the past 20 years, Mr. Otal has worked extensively in developing and implementing asset management strategies and plans for transmission and distribution systems (T&D). He routinely undertakes assignments on behalf of T&D utilities around the world, aimed at achieving optimal performance of transmission system fixed assets through implementation of state-of-the-art risk based models, as indicted in Exhibit 1 below:



Exhibit 1: Risk Based Decision Support Model

Because a majority of the investments in fixed assets are triggered by either declining performance in reliability, safety and operating flexibility; or increasing operating and maintenance costs associated with aging assets; or anticipated growth in demand requiring capacity upgrades, through years of experience Mr. Otal has developed models and techniques for achieving optimal asset management plans involving determination of the CAPEX and O&M investments through an in-depth analysis of each of these issues. Mr. Otal has extensive experience in reliability evaluations and risk assessment through deterministic and probabilistic approaches.

Investments into transmission systems that are either oversized or made too far in advance of the actual need result in non-optimal operation. On the other hand, investments not made on time when warranted by the system needs raise the risk of performance targets not being achieved. Optimal operation of transmission system is achieved when "right sized" investments into asset sustainment through renewal and replacement (capital investments) and into repair, rehabilitation

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and preventative maintenance are planned and implemented based on a "just-in-time" approach. Mr. Otal has pioneered models, such as the one shown in Exhibit 2 for condition assessment of the transmission assets, evaluation of the risks and determination of the size and timing of investments to mitigate the risks, when they become unacceptable.





Asset management decisions require up-to-date data on health and condition of transmission assets and a number of commercial software packages have become available over the years for creation and management of such data that automatically trigger warnings and alarms for inspections, maintenance, rehabilitation and repairs. Mr. Otal is intimately familiar with the features, strengths and weaknesses, initial and operating costs associated with such asset management software packages.

For transmission and distribution businesses, where the retail rates are commonly set by the regulators based on electric utility's actual costs, by allowing a reasonable return on investment, assets must be managed to achieve highest economic efficiency or minimizing overall life cycle costs. Mr. Otal routinely prepares and reviews asset management plans for T&D utilities to confirm economic efficiency of investments using models such as the one shown below and serves as an expert witness at regulatory hearings in Canada:

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Asset Risk Framework Is Based Total Life-Cycle Costs Forcing Optimal Asset Planning Decisions



5. Education

2006-2009	York University, Schulich School of Business (Toronto, Canada), Masters of Business Administration (Economics)
1972-1976	The Punjab University (India) B.Sc. Engineering (Honours)

6. Membership of Professional Associations

Institute of Electrical and Electronic Engineers (Senior Member) Professional Engineers of Ontario (Member)

7. Other Training

Mr. Otal has participated in training workshops and seminars throughout his career and obtained training in project management, contract administration, time management, staff supervision, negotiations and marketing and sales and management accounting.

8. Countries of Work Experience

Bermuda, Canada, Ghana, India, Jamaica, Laos, Mexico, Mongolia, Paraguay, Philippines, Timor Leste, U.S.A., Uzbekistan, Vietnam

9. Languages

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent

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10. Employment Record

From 2006	To Present			
Employer	METSCO Inc. (Canada)			
Position Held and Position Description	Chief Executive Officer Responsible for all consulting engineering operations and corporate functions			
From 2001	То 2006			
Employer	Kinectrics Inc. (Canada)			
Position Held and Position Description	Department Manager and Director of Business Development Managed a team of approximately 20 engineering professionals engaged in R&D and consulting services to the power sector focussed on Transmission Systems Asset Management			
From 1992	То 2001			
Employer	Acres International (Canada)			
Position Held and Position Description	Department Manager Managed a team of approximately 20 engineering professionals engaged in consulting services to the power sector			
From 1990	To 1992			
Employer	Westinghouse Canada (Canada)			
Position Held and Position Description	Transmission and Distribution Applications Engineer Product development and utility liaison for protection relays and circuit breakers			
From 1979	То 1990			
Employer	City of Calgary (Canada)			
Position Held and Position Description	Senior Network Engineer Managed distribution utility engineering business including planning, design and construction supervision			
From 1976	To 1979			
Employer	Punjab State Electricity Board (India)			
Position Held and Position Description	Electric Utility Manger Managed distribution utility operations including engineering, construction supervision, billing and collections functions			

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11. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned

- Development of a Guide for Asset Management of Transmission Assets CEATI Inc (2008-2011): Mr. Otal served as the Project Manager and Team Leader of Subject Matter Experts in preparing a guide for Asset Management strategies of transmission assets. The assignment covered all major extra high voltage (EHV), high voltage (HV) and medium voltage (MV) transmission station assets, including power transformers, circuit breakers of all types, circuit switchers, disconnect switches, isolators, instrument transformers, series and shunt capacitors and lightning arresters. Project scope included literature search, electric utility surveys through the world to determine best in class asset management approaches and then preparing the guide.
- Development of a Guide for Asset Management of Distribution Assets CEATI Inc. (2013-14): Mr. Otal served as the Project Manager and Team Leader of Subject Matter Experts in preparing a guide for Asset Management strategies of distribution assets. The assignment covered all major assets employed on overhead and underground distribution lines, including poles, conductors, insulators, distribution transformers, underground cables, pole and pad mounted disconnect switches and right-of-ways. Project scope included literature search, electric utility surveys through the world to determine best in class asset management approaches and then preparing the guide.
- Development of a Software Tool for Ranking Distribution System Investment Projects: Oshawa PUC (2006-07): Mr. Otal developed a software tool in Microsoft Excel to automate ranking of capital investment projects into distribution systems, based on the risk of assets failure:



- **R&D** Projects aimed at Improving **T&D** Asset Performance (2006 to 2014): Mr. Otal served as the Principal Investigator in implementing the following R&D projects on behalf of CEATI and its electric utility members:
 - ✓ Evaluation of PD Measurement Instruments (2010): Performed assessment to rank the performance, durability and cost of commercially available potable

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partial discharge measurement instruments which could be used in the field to identify T&D assets about to experience failure in due to insulation weakening.

- ✓ Evaluation of Instruments for detecting failed shunt capacitors (2009): Performed assessment to rank the performance, durability and cost of commercially available test instruments which could be used in the field for detecting failure shunt capacitors. The project was aimed at improving worker safety and improving power factor of overhead lines.
- ✓ Roadmap of Anticipated Customer Loads (2009): Developed a guide to quantify impacts of various macro-economic, technological and environmental drivers on future electricity use by residential, commercial and industrial customers in North America, including the increase in distributed generation.
- ✓ Impacts of (Time of Use) TOU Rates on Customer load profiles (2009): Prepared a guide and a software tool to quantify impacts of TOU rates and Demand Response (DR) initiatives on load shapes, load factors and loss factors for residential customers.
- ✓ Health Index Tool for Transmission Circuit Breakers (2007-2009): Developed a guide and a software tool for assessing condition of circuit breakers and quantifying their probability of failure by taking into account results of commonly performed diagnostics and testing.
- ✓ Evaluation of Mega Ohmmeters (2008): Performed assessment to rank the performance, durability and cost commercially available potable Mega Ohmmeters which could be used in the field for condition assessment of distribution assets.
- ✓ Guide to determine Feasibility of Repairing Failed Distribution Transformers (1999): Developed a guide for use by distribution utilities to assess the technical and economic feasibility of refurbishment and repair of prematurely failed distribution transformers.
- ✓ Distribution System Automation and On-line Monitoring (1996): Conducted market surveys of distribution automation and on-line monitoring instruments and performed assessments to determine their suitability for use on distribution systems.
- Preparation of Asset Management Plans for Ontario Municipal Electric Utilities (2006 2014): Ontario Energy Board (the regulator in province of Ontario, Canada), requires electric utilities to prepare and submit an asset management plan in conjunction with the their rate order applications to demonstrate the adequacy and reasonableness of CAPEX and O&M investments based on asset condition assessments, reliability evaluations, load forecasts and risk analysis. In a consulting role, Mr. Otal has prepared and submitted the asset management plans on behalf of the following power companies in Ontario:
 - Oshawa PUC (www.opuc.on.ca)
 - Greater Sudbury Hydro (www.sudburyhydro.com)

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- North Bay Hydro (www.northbayhydro.com)
- Erie Thames Power (www.eriethamespower.com)
- Whitby Hydro (www.whitbyhydro.on.ca)
- PUC Inc. Sault Ste. Marie (www.ssmpuc.com)
- Entegrus (www.entegrus.com)
- Hydro Ottawa (www.hydroottawa.com)
- Center Wellington Hydro (www.cwhydro.ca)
- Asset Management Plan for Enmax Power Corporation (2006) As part of a regulatory filing process, Mr. Otal served as the Team Leader of Subject Matter Experts and developed an asset management model to assess the operating condition to quantify the risk of in service failure of underground cables and overhead lines.
- Asset Management Plan for BC Hydro's Transmission System (2003 -04) As part of a regulatory filing process, Mr. Otal served as the Team Leader of Subject Matter Experts and developed an asset management model to assess the operating condition of each individual asset employed on BC Hydro's transmission system. This project ensured that transmission company could meet its regulatory obligations in a manner that ensured cost-recovery and enabled desired levels of service performance
- Mongolian Power Sector Institutional Strengthening (2007 2010): Serving as the Team Leader and International Consultant on this World Bank funded project, Mr. Otal conducted operational audits on Power distribution companies, developed and implemented institutional strengthening plans including the procurement of productivity improvement hardware/software tools for asset management.
- Oshawa PUC Operational Improvements (2009 2010): Serving as VP Engineering and Operations for the Distribution Utility serving 55,000 customers in the City of Oshawa, Canada, Mr. Otal implemented GIS based asset management tools. He also managed implementation of Smart metering and Smart grid programs.
- Pre-feasibility study for Smart metering project in Uzbekistan (2011): Mr. Otal served as the Team leader and Distribution Engineer of a multi-national team to conduct a pre-feasibility study for implementation of an ADB financed smart metering project. The project scope included an assessment of available technologies' pros and cons, conceptual designs and specifications for installation of smart metering system for approx. 1 million customers, valuation of costs and benefits, social impacts and development of a public relations plan.
- Prepared Operational Audit for Great Lakes Power, Canada (2001)—Following the unbundling of transmission and distribution services from the electricity generation in Canada, Mr. Otal conducted an operational audit on the transmission and distribution assets of Great Lakes Power (Ontario). The purpose of this audit was to identify physical asset issues as well as any organisational weaknesses that might have arisen following the structural separation of a vertically integrated service provider. Mr. Otal's work identified several ways to improve the technical capability of the transmission and distribution assets, including the use of hardware and software tools for asset management.

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- Organizational Improvements in Philippine Power Sector (1995-2006): As part of a package of reforms in the electricity sector in the Philippines, serving as Staff Consultant with the World Bank and working closely with DOE and NEA staff, Mr. Otal conducted operational audits of transmission and distribution utilities and developed recommendations for implementation improved asset management techniques for transmission and distribution systems.
- East Timor Power Sector Institutional Strengthening (2006 -2008): Serving as Staff Consultant with the World Bank, Mr. Otal conducted an operational audit to identify potential organizational weaknesses in EdTL, developed and implemented a capacity building program, including improved asset management strategies and spare parts inventory system.
- T&D Development Plan Vietnam (1997): On this CIDA funded project, Mr. Otal served as the Team Leader and completed feasibility study for development and rehabilitation of transmission and distribution systems in six towns in Northern Vietnam, with approximately 150 000 electricity customers and a demand of 190 MW.
- Training and Institutional Strengthening: (2006 to 2014): Mr. Otal is routinely involved in developing and delivering training programs. The following training programs are specifically aimed at improving distribution systems' asset performance:
 - ✓ Training Seminar in Smart Grid Development in Mongolia World Bank Financed- (2013): covering economic feasibility of smart grid development initiatives in Mongolia.
 - ✓ Training workshops for Mongolian Distribution Companies Financed by World Bank (2007-09): covering preparation of distribution utility business plans, load forecasting, asset management and reliability evaluations.
 - ✓ Mentoring engineering staff at North Bay Hydro, Ontario (2006-09) covering short circuit analysis and protection coordination, asset management, distribution system planning, design and construction standards, connection impact assessments for distributed generation
 - Training workshop in DG Connection Impact Assessments Power Stream (Ontario) (2007) - covering impacts of connected wind and solar powered distributed generation to distribution feeders
 - ✓ Training Workshops for Electricity Cooperatives in Philippines World Bank Financed (2002) – covering load forecasting and economic analysis to determine viability of investments into loss reduction initiatives
 - ✓ Training Workshops for Electricity du Lao staff ADB Financed (1999): covering (a) Reliability evaluations using probabilistic technique (b) Load forecasting (c) Prioritizing project investments (d) Connecting DG to distribution lines.
 - ✓ Training Program for EVN staff, Vietnam (ADB Financed) (1996-97) a series of workshops in engineering economics and Distribution system planning

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Trained Electric Utility Staff to Assess Asset Condition, Canada (2001–2002)—Mr. Otal developed and implemented a training program for North American utility transmission engineers to assess the condition of substation ground grids. Engineering staff from approximately 30 Canadian and American utilities attended the seminar, which covered operations and maintenance assessments as well as potential areas for capital investments

13. Other Relevant Experience:

(a) Planning for Distributed Generation from Renewables:

Assignment Name	Client	Year	Role on Assignment	Assignment Scope
1600 kW Landfill Power Plant Development	North Bay Hydro	2011-12	Project Manager	Project Management of all aspects of the sewer gas fired power plant, including connection impact assessment studies.
Policies and Procedures for CIA assessments, Oshawa PUC	Oshawa PUC	2010	VP Eng. and Operations	Established policies and procedures for response to customer requests for connecting distributed generation and conducting connection impact.
CIA for a 2 MW DG Plant in Power Stream service territory	Power Stream Inc., Ontario	2007	Technical Team Member	Carried CIA study for connection of a 2 MW co-generation plant to MV grid in the service territory of Power Stream.
CIA Study for a 10 MW solar power plant North Bay Hydro's service territory	North Bay Hydro, Ontario	2007	Asset valuations and financial modeling	Critically reviewed the CIA study report for connection of a 10 MW co-generation plant to MV grid in the service territory of North Bay Hydro.
SNWA Hydraulic Generation Projects	Kinectrics Inc., Ontario	2006	Project Manager	Detailed plant design, protection and control systems for three DG plant ranging in size from 750 kW to 1500 kW for Southern Nevada Water Authority.
Feasibility Study for Wind Farm in Philippines	World Bank	2003-04	Staff Consultant	Critically reviewed the feasibility study of connecting a 90MW Wind powered plant to transmission grid in Philippines.
CIA Study for a 2 MW DG Plant in Sault Ste. Marie	Great Lakes Power, Ontario	2001	Senior Planning Engineer	Completed CIA study for connection of a 2 MW DG plant to distribution system in Sault Ste Marie for Great Lakes Power.
Integrating DG into Rural Electrification program in Lao PDR	Asian Development Bank	2000	Team Leader and Project Manager	Completed impact assessments and conceptual designs for integration of mini hydro plants into grid power for rural electrification in Lao PDR, a project financed by Asian Development Bank.

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Guide for Connecting Small Scale Generation to Distribution	Canadian Electricity Association	1996	Principal Investigator	Researched and co-authored a guide for connection impact assessments (CIA) of connection of distributed generation to medium voltage feeders.
CIA Study for a	City of	1989	Senior	Conducted CIA study for connection of a
2.5 MW DG Plant in	Calgary,		Planning	2.5 MW co-generation plant to low voltage grid
Calgary	Alberta		Engineer	network system in downtown Calgary.

(b) T&D System Planning

Assignment Name	Client	Year	Role on Assignment	Assignment Scope
Load Forecasts for Oshawa PUC	Oshawa PUC	2010	Team Leader	Load forecasts and development of investment plan for distribution system capacity upgrades.
Distribution System Rehabilitation, St Catharines	Horizon Utilities, Ontario	2005-09	Project Manager	Planning, design and project management for rehabilitation of St. Catharines Hydro's underground distribution system, employing an innovative design.
Rural Electrification Feasibility Study, Lao PDR	Asian Development Bank	2000- 2001	Team Leader and Project Manager	Development of an investment plan for rural electrification covering six provinces of Lao PDR: load forecasts, ranking of electrification alternatives, conceptual designs, specifications, cost estimates, valuation of project benefits.
Distribution System Planning, Kingston Ontario	Utilities Kingston, Ontario	2001	Team Leader	Development of a master plan for Distribution System Capacity Upgrades: Evaluation of supply system upgrade alternatives.
Transformer Station Planning, Ajax, Ontario	Veridian Connections, Ontario	2000	Team Leader	Transformer Station (TS) planning study: Load forecasts, loading Vs capacity analysis, selection of optimal size, configuration and site for a new 230/27.6 kV TS.
Distribution System Planning, Caledon Hydro	Caledon Hydro, Ontario	1996	Team Leader	Distribution system master plan: Load forecasts, loading Vs capacity analysis, selection of optimal size, location and configuration for a new 44/12.5 kV Distribution Station.

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Distribution System Investment Plan, Vietnam	EVN and CIDA	1997	Team Leader and Project Manager	Feasibility study for rehabilitation of T&D systems in six towns in Northern Vietnam, with approximately 150 000 electricity customers and a demand of 190 MW.
Voltage Conversion Project, Manitoba Hydro	Manitoba Hydro, Manitoba	1995	Team Leader	Preparation of a voltage conversion guide describing methodologies for technical and financial feasibility studies for voltage conversion projects.
Master Plan for Downtown Calgary	Enmax Power Company, Alberta	1987	Senior Planning Engineer	Development of a master plan for distribution system development for the commercial core of downtown Calgary.

(c) T&D Utility Mergers and Acquisitions (M&A)

Assignment			Role on	
Name	Client	Year	Assignmen	Assignment Scope
Management Contract for Electricity du Timor	World Bank	2007	Staff Consultant	Supervised on behalf of the World Bank award of a long term management contract for EdTL, including invitation of competitive bids, bid evaluations and
Privatization of Distribution Companies in Philippines	World Bank	2003-04	Staff Consultant	On behalf of the World Bank, critically reviewed consultant recommendations and feasibility studies for privatization of distribution companies in Philippines.
Merger of St Catharines Hydro and Hamilton Hydro, Ontario	Hamilton Hydro and St. Catharines Hydro, Ontario	2003	Team Leader and Project Manager	Technical due diligence in support of the merger: condition assessment of major assets, identification of material risks, determination of capital investment and O&M needs, valuation of fixed assets.
Municipal Initiative for Sale of Oshawa Hydro	City of Oshawa, Ontario	2001	Technical Member on Evaluation Committee	Set up of the data room providing access to the bidders to utility's financial and operating performance to allow pre-bid due diligence in conjunction with a sale initiative for Oshawa Hvdro. Responses to bidders' inquiries.
Asset Valuation for Brantford Hydro	Brantford Hydro, Ontario	2000	Consultant	Valuation of fixed assets of Brantford Hydro to establish regulatory asset base after restructuring and unbundling of the regulated from non- regulated business.

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Municipal Initiative for Sale of Gloucester Hydro	Town of Gloucester, Ontario	1999	Technical member - Bid Evaluation & Negotiation	Assisted with valuation of the bids and negotiations with the bidders for the sale/lease initiative of Gloucester Hydro, a power distribution utility with 35 000 customers in the Ottawa-Carleton region in Ontario.
Privatization of Orissa State Electricity Board, India	Singapore Power and Grasim Industries, India	1998	Technical member - Bid Preparation Committee	Assisted with the pre-bid due diligence and valuation of the electric distribution business in Orissa state in India to facilitate the consortium of Singapore Power and Grasim Industries prepare their financial and technical bids for acquisition of the distribution business.
Valuation of Distribution System Assets at US Naval Base in Bermuda	Government of Bermuda, Bermuda	1997	Technical Team Member	Conducted condition assessment and completed valuation of the power distribution plant at the US Naval Base in Bermuda.
Acquisition of Distribution System Assets from Hydro One by Caledon Hydro	Caledon Hydro, Ontario	1997	Asset valuations and financial modeling	Completed asset valuation and feasibility study for boundary expansion of Caledon Hydro's service area through acquisition of distribution system assets and customers from Hydro One (Ontario Hydro).

13. Certification

I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Dotal

Date: 24/ 12/ 2014

[Signature of staff member]

Day / Month/ Year

Full name of staff member: Shawn Otal