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September 11, 2013

VIA COURIER, EMAIL and RESS

Ms. Kirsten Walli Ontario Energy Board P.O. Box 2319 2300 Yonge Street, 27th Floor Toronto, ON M4P 1E4

Re: Enbridge Gas Distribution Inc. ("Enbridge") EB-2012-0451 - Greater Toronto Area ("GTA") LTC Project New Evidence, Updated Evidence and Curricula Vitae ("CV")

Attached please find the following new exhibits regarding the GTA project:

Exhibit A, Tab 2, Schedules 5 and 6; and Exhibit A, Tab 3, Schedule 10.

The CVs of the employees who will be witnesses at the oral hearing for the GTA project are being filed as Exhibit A, Tab 2, Schedule 5 and the CV of a consultant is being filed as Exhibit A, Tab 2, Schedule 6.

Exhibit A, Tab 3, Schedule 10 is a new exhibit that reports the results of the New Capacity Open Season for Segment A and describes the impact of a negotiated settlement agreement between the Eastern LDCs (Enbridge, Union, and Gaz Métro) and TransCanada.

The Summary of Changes evidence, Exhibit A, Tab 2, Schedule 4, has been updated to reflect the changes as a result of the new exhibits and the Exhibit List, Exhibit A, Tab 1, Schedule 1, has been updated to include the new exhibits.

This evidence is being filed through the Ontario Energy Board's Regulatory Electronic Submission System and all of the GTA evidence can be found on Enbridge's website at <u>www.enbridgegas.com/gtaproject</u>.

Please contact me if you have any questions.

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Yours truly,

[original signed]

Shari Lynn Spratt Supervisor Regulatory Proceedings

Attach.

cc: EB-2012-0451, EB-2012-0433, and EB-2013-0074 Interested Parties

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CURRICULUM VITAE OF JOEL DENOMY

Experience: Enbridge Gas Distribution Inc.

Manager, Gas Supply & Strategy 2010-Present

Manager, Strategic Planning 2009-2010

Manager, Economic and Market Analysis 2007-2009

Supervisor, Economic and Market Analysis 2006-2007

Senior Market Analyst, Volumetric and Market Analysis 2003-2006

Market Analyst, Volumetric and Market Analysis 2002-2003

Education: Chartered Financial Analyst CFA Institute, 2006

> Master of Arts (Economics) University of Waterloo, 2002

Bachelor of Arts (Honours Economics, Finance Specialization) University of Waterloo, 1999

Memberships: Canadian Association of Business Economists (CABE) Toronto CFA Society

Appearances: (Ontario Energy Board) EB-2011-0354 EB-2010-0333 EB-2008-0219 EB-2007-0615 EB-2006-0034 EB-2005-0001 RP-2003-0203

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(Regie De L'Energie) R-3587-2005 R-3665-2008

(New York State Public Service Commission) 08-G-1392

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CURRICULUM VITAE OF LISA DUMOND

Experience: Enbridge Gas Distribution Inc.

Environmental Specialist, Stakeholder Relations, GTA Project 2013

EHS Specialist, Environment, Health and Safety 2011

Stantec Consulting Ltd.

Project Manager, Environment 2009

Jacques Whitford Consulting Ltd.

Team Leader, Environment 2007

Essis Ltd.

Client Manager, Environmental Geophysics 2005

Project Manager, Environmental Geophysics 2003

Environmental Imaging, Environmental Geophysics 1999

Education: Bachelor of Environmental Science University of Calgary, 2000

> Masters of Environmental Science University of Toronto, 2007

Memberships: Environmental Professional, ECO Canada Certified Inspector of Sediment and Erosion Control (CISEC)

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Appearances: (Ontario Energy Board) EB-2011-0354

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CURRICULUM VITAE OF <u>M. CRAIG FERNANDES</u>

Experience: Enbridge Gas Distribution Inc.

Senior Manager, Regulatory, GTA Project 2013

Manager, Regulatory Project Development 2011

Senior Project Manager, Major Reinforcements 2010

Manager, Operations Projects 2009

Senior Project Manager, Operations Solutions 2006

Program Manager, Energy Technology 2005

Celestica Inc.

Global Pricing Advisor 2003

Senior Regional Cost Engineer 2002

Financial Cost Engineer 2000

Manufacturing Engineering Team Leader 1999

Senior Associate Prototype Engineer 1997

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Carrier Canada Ltd.

Automation Controls Specialist 1995

Customer Service Representative 1994

Education: Bachelor of Applied Science, Mechanical Engineering, University of Waterloo, 1993

> Masters of Business Administration University of Toronto, 1999

Memberships: Association of Professional Engineers Ontario, 1997

Appearances: (Ontario Energy Board) EB-2011-0354

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CURRICULUM VITAE OF MALINI GIRIDHAR

Experience: Enbridge Gas Distribution Inc.

Vice President, Gas Supply 2013

Senior Director, Gas Supply and GTA Project 2012

Director, GTA Project 2011

Director, Energy Supply and Policy 2007

Manager, Rate Research and Design 2003

Manager, Rate Design 1999

Manager, Rate Research 1997

Financial Analyst, Financial Studies 1994

Borealis Energy Research Consultants

Consultant 1994

Gas and Fuel Corporation of Victoria, Australia

Senior Analyst, Tariffs 1992

Economic Analyst 1989

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Education: Chartered Financial Analyst, 2005

Master of Philosophy (Econometrics) University of Madras, India, 1988

Master of Arts (Economics) Gokhale Institute of Politics and Economics, India, 1987

Appearances: (Ontario Energy Board) EB-2010-0333 EB-2010-0231 EB-2008-0106 EB-2008-0219 EB 2006-0034 EB-2005-0551 EB-2005-0001 RP-2003-0203 RP-2003-0048 RP-2002-0133 RP-2001-0032 RP-2000-0040 RP-1999-0001 **EBRO 497** (National Energy Board)

RH-003-2011

(Régie de l'énergie) R-3537-2004 R-3464-2001 R-3430-99 R-3406-98

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CURRICULUM VITAE OF TYLER HORTON

Experience: Enbridge Gas Distribution Inc.

Manager of Engineering, GTA Project 2012

Program Manager, GTA Project 2011

Enbridge Inc.

Senior Project Development Engineer, Business Development Engineering 2009

Enbridge Gas Distribution Inc.

Construction Supervisor, Toronto 2007

Project Manager, FieldVision Project 2006

Team Lead, FieldVision Project 2005

Supervisor, Planning & Design 2004

Education: Project Management Professional (PMI), 2010

Professional Engineer (Alberta), 2009

Professional Engineer (Ontario), 2008

Bachelor of Applied Science (Mechatronics) University of Toronto, Canada, 2004

Appearances: (Ontario Energy Board) None

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CURRICULUM VITAE OF ANTON KACICNIK

Experience: Enbridge Gas Distribution Inc.

Manager, Rate Research & Design 2007

Manager, Cost Allocation 2003

Program Manager, Opportunity Development 1999

Project Supervisor, Technology & Development 1996

Pipeline Inspector, Construction & Maintenance 1993

Education: Bachelor of Applied Science (Civil Engineering) University of Waterloo, 1996

Memberships: Professional Engineers of Ontario

Appearances: (Ontario Energy Board) EB-2012-0055 EB-2011-0354 EB-2011-0277 EB-2011-0008 EB-2010-0146 EB-2010-0042 EB-2009-0172 EB-2009-0055 EB-2008-0106 EB-2008-0219 EB-2007-0615 EB-2007-0724 EB-2006-0034 EB-2005-0551 EB-2005-0001

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(RÉGIE DE L'ÉNERGIE) R-3724-2010 R-3665-2008 R-3637-2007 R-3621-2006 R-3587-2006 R-3537-2004

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CURRICULUM VITAE OF BYRON MADRID

Experience: Enbridge Gas Distribution Inc.

Manager Engineering & Construction, GTA Project 2012

Manager Project Planning, GTA Project 2012

Manager Operations, Central Region West 2008

Manager Accelerated Mains Repl. & Construction 2005

Manager Sales & Construction, Toronto Region 2004

Construction Manager, Toronto Region 2003

Engineering Project Manager, Engineering Construction 2001

Manager Drafting, Distribution Planning 1999

Supervisor Planning & Records, Western Region 1997

Supervisor System Design / Special Projects 1993

Supervisor Pipeline Inspection 1992

Construction Pipeline Inspector, Engineering Services 1992

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Special Foundation Systems Company

Construction Estimator 1990

Education: B. Eng. (Civil Engineering), 1990 Ryerson University

Memberships: PEO OSPE CSCE

Appearances: (Ontario Energy Board) None

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CURRICULUM VITAE OF CHRISTOPHER MOORE

Experience: Enbridge Gas Distribution

Director, Network Operations 2012

Senior Manager, Engineering Construction and Maintenance 2011

Senior Manager, Environment, Health and Safety 2010

Operations Manager, Toronto Region 2005

Manager, Engineering Materials and Construction 2003

Enbridge Gas Storage

Manager, Engineering and Construction 2002

Enbridge Pipelines

Senior Operations Engineer 2000

Enbridge International

Operations Engineer, Jose Terminal, Venezuela 1999

Interprovincial Pipelines

Operations Engineer, Eastern Region 1996

Associate Engineer, Canadian Projects 1994

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Education: Bachelor of Engineering Science, Materials Engineering University of Western Ontario, 1994

Memberships: Licensed Professional Engineer, Ontario and Alberta

Appearances: none

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CURRICULUM VITAE OF STUART MURRAY

Experience: Enbridge Gas Distribution Inc.

Senior Manager, Investment Review 2013

Manager, Investment Review and Economic Analysis 2011

Manager, Investment Review and Customer Growth 2008

Manager, Financial Assessment 2006

Pitney Bowes Canada

Project Manager, Enterprise Program Office 2003

Finance Manager, Service Operations 2001

Finance Manager, New Business Development 2000

Canadian Tire Corporation

Business Analyst, Marketing Finance 1997

Financial Analyst, Corporate Planning 1996

Education: Master of Business Administration McMaster University, 1995

> B.A. Economics, Administrative & Commercial Studies University of Western Ontario – 1993

Membership: None

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Appearances: (Ontario Energy Board) EB-2011-0354 EB-2006-0034

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CURRICULUM VITAE OF ERIK NACZYNSKI, P.Eng

Experience: Enbridge Gas Distribution Inc.

Manager, System Analysis and Design 2010

Manager, Records and GIS 2009

Project Manager, Major Projects 2006

Engineering Project Leader 2005

Union Gas

Distribution Planning EIT 2003

Education: Bachelor of Engineering and Management

Memberships: Professional Engineers Ontario

Appearances: (Ontario Energy Board) EB-2007-0692 EB-2006-0305

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CURRICULUM VITAE OF FIONA OLIVER-GLASFORD

Experience: Enbridge Gas Distribution Inc.

Senior Manager, Market Policy and DSM 2013

Union Gas Distribution

Manager, CDM Business Development and Policy 2010

Manager, DSM Strategy 2008

Manager, DSM EM&V 2007

Manager, DSM Programs/Marketing 2006

Manager, Market Research & Analysis 2005

Canadian Energy Efficiency Alliance

Director, Operations

Summerhill Group

Marketing Manager

Corus Entertainment

Marketing Manager, YTV, Documentary Channel and Scream TV

Towers Watson

Associate/Analyst

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Education: York University – Schulich School of Business Masters of Business Administration

Western University – Huron College Bachelor of Arts

Memberships: None

Appearances: (Ontario Energy Board) None

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CURRICULUM VITAE OF JUDITH RAMSAY

Experience: Enbridge Gas Distribution Inc.

Senior Advisor, DSM 2013

Manager, DSM Research and Evaluation 2005

Senior Analyst and Project Manager, DSM Research and Evaluation 2000

REIC Ltd.

Senior Consultant 1990-2000

Project Manager 1982-2000

- Education: Bachelor of Arts (Honours Program) University of Toronto
- Memberships: Association of Energy Services Professionals

Appearances: (Ontario Energy Board) None to date

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CURRICULUM VITAE OF NICK THALASSINOS

Experience: Enbridge Gas Distribution Inc.

Chief Engineer 2012

General Manager, Central Region 2010

Manager, Project Management Office 2009

Manager, Asset Management Solutions 2006

Manager, Business Transformation Development 2003

Manager, Operations 2001

Manager, Construction 2000

Manager, Operations Engineering 1995

Senior Engineer 1993

Engineer Operations 1991

Engineer Distribution 1990

Engineer Distribution Planning 1989

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Education: Professional Engineer, 1991

B.A.Sc. (Mechanical) University of Waterloo, 1989

Memberships: Ontario Society of Professional Engineers

CSA Z662 Technical Committee

Appearances: (Ontario Energy Board)

ASSOCIATE

ENVIRONMENTAL PLANNER

Education

M.E.S.and Graduate Diploma in Business and the Environment, York University, Toronto, 2001

B.E.S., Graduated Magna Cum Laude, York University, Toronto, 1999

Affiliations

President, Ontario Society for Environmental Management

Ontario Professional Planners Institute

Canadian Institute of Planners

International Right of Way Association

Canadian Nuclear Association

Language

English, Italian, French



PERSONAL PROFILE

Joe is an Associate and environmental planner at Dillon. Over the past thirteen years, he has managed a number of large, multi-disciplinary environmental and socio-economic impact assessment (EA) and stakeholder consultation projects. He has also been involved in environmental mitigation and inspection services and has provided expert testimony at the Ontario and National Energy Boards. Joe has worked to assist a wide range of companies in managing/coordinating the environmental assessment, stakeholder consultation, and permitting of a variety of facilities.

RELEVANT EXPERIENCE

ENVIRONMENTAL ASSESSMENT AND ENERGY

Natural Gas Pipelines

Joe has managed over 30 pipeline reinforcement projects for a variety of clients including Enbridge Gas Distribution, Enbridge Pipelines, Utilities Kingston, and Calpine Corporation. Some highlights are included below.

Enbridge Gas Distribution

EA Project manager for 50 km of 36" pipeline to reinforce the City of Toronto. General duties include background data collection, evaluation of environmental impacts of pipeline construction, pipeline route selection.

Enbridge Gas Distribution

Project manager for the installation and abandonment of 20 inch pipelines in Mississauga, Ontario, on behalf of Enbridge (conducted under the National Energy Board Act [Section 58] and the Canadian Environmental Assessment Act).

Enbridge Gas Distribution

Co-managed a feasibility study on behalf of Enbridge for the Three Nations Bridge Pipeline. The work involved the removal and replacement of a large diameter pipeline suspended on a bridge owned and operated by the Federal Bridge Corporation and the Seaway International Bridge Corporation. Conducted work and data collection toward an Application for a Project under the NEB Guidelines.

Utilities Kingston

Project manager for the EA and chief environmental inspector for a 15 km (12 and 8 inch) natural gas pipeline to be constructed in Kingston, Ontario, to reinforce the supply of natural gas to the City of Kingston. Also prepared the "Leave to Construct" application submitted to the Ontario Energy Board and coordinated all permit applications.

Power Generation and Transmission

Northland Power

Project manager for the Environmental Assessment of 250 MW cogeneration station to be located in Oshawa, Ontario.

Ontario Power Generation

Project manager for the Darlington Nuclear Campus Plan on behalf of OPG, a project being undertaken to revitalize the site and associated infrastructure.

ASSOCIATE

ENVIRONMENTAL PLANNER

Hydro One

Project manager for a socio-economic impact assessment for a proposed 430-km transmission line from Nipigon to Pickle Lake, Ontario.

Various Power Generation Stations

Assisted with individual environmental assessments for power generation stations in northwestern Ontario: Thunder Bay, Atikokan, Cascades Fine Paper, and Norampac.

Pristine Power

Co-Project manager for an environmental assessment and permitting for several large natural gas-fired power generation stations proposed to be located in Ontario on behalf of Pristine Power – 580 MW Simple Cycle (Milton Ontario), 84 MW Cogeneration (Windsor, Ontario), 580 MW Simple Cycle (Sarnia, Ontario), 400 MW Simple Cycle (King Township, Ontario).

Ontario Power Generation

Co-Project manager for an environmental assessment and permitting of a proposed 880 MW Simple Cycle gas-fired generation station to be located in Mississauga, Ontario.

Peat Resources Limited

Assisted with an environmental assessment for a project undertaken by Peat Resources Limited to harvest peat in northwestern Ontario and process it for use as a fuel source.

Trillium Energy Centre

Assisted with an environmental assessment for the Trillium Energy Centre, a 600 MW power station to be constructed in St. Clair Township, Ontario.

Portlands Energy Centre

Assisted with an environmental assessment for the Portlands Energy Centre, a 550 MW power station to be constructed in the Portlands area of Toronto.

Brighton Beach Power Station

Assisted with an environmental assessment for the Brighton Beach Power Station, a 580 MW power station to be constructed in Windsor, Ontario.

Pickering Nuclear Waste Management Facility

Assisted in the development of technical documents and baseline conditions for the Pickering Nuclear Waste Management Facility Phase II Environmental Assessment.

Assisted in the development of a bid package for a proposed pump storage hydro-electric project in Atikokan, Ontario.

Environmental Management and Energy Studies

Ontario Power Authority

Assisted in the development of a model for the Ontario Power Authority to quantitatively evaluate the natural environment impacts of different electrical generation options.

Ontario Realty Corporation

Assisted in the development of a method to incorporate socio-economic evaluation into the Class EA process on behalf of the Ontario Realty Corporation. Provided a system to aid staff in assessing impacts, ranking them, suggesting mitigation, and providing training on the model and socio-economic analysis in general.



ASSOCIATE

ENVIRONMENTAL PLANNER

Nevis Electric Company

Assisted in the development of a health, safety and environmental management plan for the Nevis Electricity Company.

Hydro One Networks Inc.

Completed numerous compliance audits for Hydro One Networks Inc. service centres and transformer stations across Ontario.

Imperial Tobacco

Assisted in the development of an environmental management plan and facilities audit for Imperial Tobacco.

Assisted in several surveillance (ISO 14000) and annual compliance audits for several facilities throughout Ontario.

Completed numerous Phase I environmental site assessments for several properties (commercial and industrial).

Assisted in the development and implementation of Phase II and Phase III environmental site assessment programs, including site remediation activities, and soil and groundwater sampling programs.

Design and implementation of water monitoring and turbidity analysis programs for several natural gas pipeline construction projects throughout Ontario.

Completed and assisted in the implementation of groundwater and surface water monitoring programs throughout Ontario.

Completed annual potable water sampling programs for several large automobile manufacturing facilities.

Provided assistance to a team that provided environmental due diligence and strategic advice to a large U.S. independent power producer.

HAZARDOUS WASTE

Environment Canada

Development of a manual for the Transboundary Movement Division (TMD) of Environment Canada detailing the procedures which need to be followed by the staff in TMD for approving notices and tracking manifests under the EIHWR.

Participated in several studies on liability and compensation mechanisms in the hazardous waste industry, focusing specifically on insurance and financial assurance mechanisms.

Participated in a project to develop environmentally sound management guidelines for the ship dismantling industry in Canada.

Completed several discussion papers on regulatory reviews for hazardous waste and hazardous recyclable materials under the technical support to CCME-HWTG on hazardous waste management issues.

Developed a computer-based training course, based on the EIHWR, involving the classification, sampling, transportation and management of hazardous wastes and hazardous recyclable materials. The target audience for this course was CEPA inspectors, generators, receivers and carriers.



ENVIRONMENTAL

ASSOCIATE

PLANNER

EMPLOYMENT HISTORY

	Dillon Consulting Limited
2006-Present	Environmental Planner
	SENES Consultants Limited
2001-2006	Environmental Scientist/Planner
	Meteorological Service of Canada, Environment Canada
2000-2001	Manager of Environmental Management Systems in the Policy and Corporate Affairs Division.
1999 to 2000	Research Manager in the Science Assessment and Policy Integration Branch.
	York University
2000	Research for M.E.S. Thesis

A W A R D S

Diploma in Business and the Environment (Sustainability), Schulich School of Business.

Fellowship Award Recipient

Two-time Winner, Ontario Graduate Scholarship

York University Continuing Scholarship Award

Nestle Scholar Award - Business Case Competition

PROFESSIONAL DEVELOPMENT

Screenings under the Canadian Environmental Assessment Act, Environment Canada, 2004.

Participated in and completed a Noise Modelling Course hosted by Dr. Ramani Ramakrishnan (Ryerson University) on Noise Modelling and Monitoring, which included training on the use of noise monitoring equipment and the Stamson model (Road and Rail Pass-By Noise).

Environmental Management Systems, Standards, Practices and Aspects, and Environmental Auditing, Legislation, and other Canadian Requirements, Sustainable Enterprise Academy, York University, 2001.

Compliance 101: Environmental Compliance and Regulations in Canada and Ontario, Federal Programs Division, Environment Canada, 2001.

Alternative Dispute Resolution, Stitt, Feld, Handy, Houston, 2000.



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SEPTEMBER 11, 2013 UPDATE

Introduction

 This Schedule will update information related to this application. The purpose of this evidence is to report the results of the New Capacity Open Season for Segment A and to describe the impact of a negotiated settlement agreement between the Eastern LDCs¹ and TransCanada on the application.

Changes to the Application and Evidence

- 2. There are no changes to the Application.
- 3. Other parts of the evidence will not be updated as the information does not alter the previously submitted record with respect to the proposed facilities, need for the proposed facilities, or the timing required for the in-service dates.

Open Season Update

4. The New Capacity Open Season for transportation service from Parkway West to Albion closed on September 6th, 2013. The total capacity requested was over 930 TJ/d, including an allocation of 170 TJ/d for Enbridge Eastern Delivery Area ("EDA"). The Company proposes to award capacity after the NEB approves the requisite applications for tolls and associated terms and conditions for market access and for the facilities downstream of Albion required for transport services.

Impacts of the agreement to the GTA Project

5. The agreement includes specific terms that remove uncertainty with respect to the facilities downstream of Albion that are related to, but not part of, this application. A term sheet (the "Term Sheet") was filed in confidence by Union on behalf of the Eastern LDCs on September 11, 2013 that outlines the agreed upon terms.

¹ The Eastern LDCs consist of Enbridge, Union Gas and Gaz Metro.

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- 6. The agreement allows for long term toll stability with a reasonable assurance of cost recovery that allows for investment in the Mainline to meet the market needs within Ontario and Quebec. This enables a path forward for TransCanada to create short haul market access by completing the path downstream of Albion for service in 2015.
- 7. Previously, TransCanada, Enbridge, Union Gas and Gaz Metro were litigating in seven different hearings, across three different jurisidictions. The agreement provides regulatory efficiency and clarity and a co-operative approach to meeting the needs of gas customers. The Term Sheet supercedes the Memorandum of Understanding ("MOU") between Enbridge and TransCanada and TransCanada has released Enbridge from TransCanada's claim in the Superior Court of Ontario. The submission was filed by Union on September 11, 2013 lists other proceedings or interventions on several NEB and OEB hearings that will be withdrawn.
- 8. With the agreement, a non-discriminatory and orderly transition from long haul to short haul can be effectively planned by the market. The absence of a coordinated plan has the potential to create winners and losers based on historical procurement decisions and locational advantages, with some consumers having no choice but to source from non-preferred basins, or not consume natural gas. A joint agreement for orderly non-discriminatory market access to short haul service is the best way forward for consumers in Ontario and Quebec.
- 9. It is expected that the tolling methodology will result in similar toll differentials between long haul and short haul relative to the Compliance Filing tolls currently in effect on the TransCanada Mainline. Consequently the expected gas supply benefits should not be materially altered.

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- 10. The construction of facilities downstream of Albion, will be subject to NEB approval, after such process and consideration as the NEB deems appropriate.
- 11. In summary, the agreement will facilitate a fair and orderly market transition that allows Eastern LDC ratepayers to benefit from a strategic shift in supply points that has been enabled by the changing North American energy landscape. In doing so, it also removes significant uncertainty on the facilities downstream of Albion on the transmission system that are related to, but not part of this application.

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EXHIBIT LIST

<u>A – PURPOSE, NEED, & TIMING</u>

<u>Exhibit</u>	<u>Tab</u>	<u>Schedule</u>	<u>Contents</u>	
<u>A</u>	1	1	Exhibit List	
	2	1	Application	
		2	OPCC Distribution List	
		3	List of Interested Parties	
		4	Summary of Changes	
		5	Curricula Vitae – Enbridge	/u
		6	Curriculum Vitae – Consultant	
	3	1	Purpose, Need, and Timing	
		2	History of Natural Gas Supply in the GTA	
		3	Operation and Limitations of Existing Facilities	
		4	Market Growth	
		5	Natural Gas Demand, Supply, and Expected Gas Supply Benefits	
		6	Proposed Facilities, Operation, and System Benefits	
		7	Alternatives	
		8	Timing	
		9	July 22, 2013 Update to Exhibit A, Tab 3	
		10	September 10, 2013 Update	/u

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EXHIBIT LIST

B – ROUTING AND ENVIRONMENTAL

<u>Exhibit</u>	<u>Tab</u>	<u>Schedule</u>	Contents
<u>B</u>	1	1	Preferred Route Description
		2	Alternative Route Description
<u>B</u>	2	1	Environmental Report and Archaeological Assessment
		2	Environmental Implementation Plan

C – FACILITIES AND PROJECT COSTS

<u>C</u>	1	1	Design Specifications
		2	Hydrostatic Test Procedure
	2	1	Estimated Project Costs
		2	Proposed Construction Schedule
		3	Project Management Framework

D – LAND ISSUES

<u>D</u>	1	1	Land Requirements
		2	Negotiations to Date

- 3 Permits Required
- 4 Affidavit

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EXHIBIT LIST

<u>E – ECONOMIC FEASIBILITY</u>

<u>Exhibit</u>	<u>Tab</u>	<u>Schedule</u>	<u>Contents</u>
<u>E</u>	1	1	Project Benefits and Economics
		2	Transportation Rate Methodology

F – OTHER MATTERS

<u>F</u> 1 1 Aboriginal Consultations

<u>Exhibit</u>	<u>Issue</u>	Schedule(s)	Contents	Witness(es)
<u>l</u>	<u>A1</u>	1 to 7	Board Staff	EGDI
		1, 2, 4 to 28, 30 to 37, 39 to 41, 65 and 66	BOMA	EGDI
		1, 3 to 7	CME	EGDI
		1 to 4	CCC	EGDI
		1, 2, 5, 7 to	COC	EGDI
		1	Direct Energy	EGDI
		33 to 36	Environmental	EGDI
		1 to 20	FRPO	EGDI

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EXHIBIT LIST

<u>Exhibit</u>	<u>Issue</u>	Schedule(s)	<u>Contents</u>	Witness(es)
Ī	<u>A1</u>	1 to 29, 29	GEC	EDGI
		to 45 1 to 3	SEC	EGDI
	<u>A2</u>	11 and 12	Board Staff	EGDI
		5 to 12	CCC	EGDI
		8	COC	EGDI
	<u>A3</u>	13 to 16	Board Staff	EGDI
		9	APPrO	EGDI
		18 and 20	BOMA	EGDI
		10 to 12	CME	EGDI
		13 to 16	CCC	EGDI
		14 and 15	Energy Probe	EGDI
		30 to 32,	Environmental	EGDI
		1 to 3, 5	Gaz Metro	EGDI
		30	GEC	EGDI
	<u>A4</u>	10	APPrO	EGDI
		27 and 29	BOMA	EGDI
	<u>A4</u>	17 to 23	ССС	EGDI

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EXHIBIT LIST

<u>Exhibit</u>	<u>lssue</u>	Schedule(s)	Contents	Witness(es)
Ī	<u>A4</u>	8 to 11	COC	EGDI
		22 to 24	Energy Probe	EGDI
		1, 2, 29, 39,	Environmental	EGDI
		30	FRPO	EGDI
		4	Gaz Metro	EGDI
		31 to 38	GEC	EGDI
		1 and 2	EGDI	EGDI
Ţ	<u>A5</u>	14 and 19	BOMA	EGDI
		24	CCC	EGDI
		25	Energy Probe	EGDI
		35	FRPO	EGDI
Ţ	<u>D1</u>	43	Board Staff	EGDI
		67	BOMA	EGDI
		56, 57, 58- 82	Energy Probe	EGDI
	<u>D2</u>	44 and 45	Board Staff	EGDI
		83	Energy Probe	EGDI
		3	Markham Gateway	EGDI

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EXHIBIT LIST

<u>Exhibit</u>	lssue	Schedule(s)	Contents	Witness(es)
Ī	D2	3 to 6	Metrolinx	EGDI
	<u>D3</u>	46	Board Staff	EGDI
		25	CCC	EGDI
		84	Energy Probe	EGDI
		1	TDSB	EGDI
	<u>D4</u>	47	Board Staff	EGDI
		85	Energy Probe	EGDI
	<u>D5</u>	48 and 49	Board Staff	EGDI
		12	APPrO	EGDI
		26	CCC	EGD
		86 and 87	Energy Probe	EGDI
		36 and 37	FRPO	EGDI
		4 and 5	SEC	EGDI
		5	VECC	EGDI
	<u>D6</u>	50	Board Staff	EGDI
		27	CCC	EGDI

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EXHIBIT LIST

<u>J – UNDERTAKINGS</u>

<u>Exhib</u>	<u>oit</u>	Contents	Witness(es)
<u>JT1</u>	1	To confirm whether TransCanada is obligated under the MOU to build from Albion to Maple in order to retain capacity to Enbridge pipeline.	M. Giridhar
	2	To provide the section of STAR which provides exemption.	M. Giridhar
	3	To provide a response to GEC 5(d), to indicate how much load would need to decrease to attain minimum pressure without Segment B or the north-south portion of Segment B; and GEC 5(e): to respond to the question under a scenario in which the Don Valley line operating pressure is not reduced from 450psi to 375psi, specifically, if Segment A and the East-West portion of Segment B are constructed but the North-South portion of Segment B is not constructed, will the peak day pressure at station b fall below the minimum number under 2015-16 design conditions	E. Naczynski
	4	To provide detail on how declining average use trend relates to expected building code stringencies and what assumptions were used in the models.	M. Suarez
	5	To provide the number of TransCanada system firm transportation service contracts currently serving Enbridge CDA.	M. Giridhar
	6	To provide further response to A1 EGD FPRO 18.	M. Giridhar
	7	To provide UDC cost based upon current gas supply needs if Enbridge does not obtain additional storage, Exhibit A2 EGD FRPO 26.	J. Denomy
	8	To provide a response to FRPO A1.11(C) and 11(E)	E. Naczynski N. Thalassinos
	9	To provide an update of Enbridge's current source of supply	J. Denomy

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EXHIBIT LIST

as a percentage

J – UNDERTAKINGS

<u>Exhibit</u> JT1	10	<u>Contents</u> To update supply source changes from 2013 to 2016.	<u>Witness(es)</u> J. Denomy
	11	To provide how much growth can go through Station B in 2015	E. Naczynski
	12	To provide costs used to review the Lakeshore or Lake Ontario alternatives as compared to proposals	C. Fernandes
	13	Is an update of Lakeshore in EGD's 10-year plan?	E. Naczynski
<u>JTX2</u>	1	To verify capital savings amounts	T. Horton
<u>JT2</u>	10	To inquire whether Global Insights inflation data can be released. If yes provide under confidence.	T. Horton
	11	To confirm where gas cost savings are included in board staff 48 in transportation savings and distribution revenues.	J. Denomy S. Murray
	12	To provide reference to where EGD's economic model identifies gas cost savings. If there is no reference, provide analysis of how gas costs have been included in EGD's economic mode	J. Denomy
	13	To run economic sensitivity analysis removing and including the transportation service charge and confirm direct purchase is included.	J. Denomy S. Murray
	14	To provide sensitivity analysis for both a combined 42 and 36 inch pipe with same assumptions included in each for comparison purposes.	S. Murray
	15	To run sensitivity analysis of not having revenue stream from TCPL for comparison purposes	S. Murray
	16	To verify that table in reply to STAFF 14 is accurate and if necessary update.	J. Denomy S. Murray

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EXHIBIT LIST

<u>J – UNDERTAKINGS</u>

<u>Exhibit</u>	<u> </u>	<u>Contents</u>	<u>Witness(es)</u>
<u>JT2</u>	17	Related to BOMA A1- IR25 Table Part D (capacity deficit), to Provide a similar capacity number for the 41 degree day extreme situation.	E. Naczynski
	18	To calculate percentage reduction in demand required to Lower pipeline pressure at both 5% and 10% for comparison purposes.	E. Naczynski
	19	2006 growth study and growth rate at that time and forecast for the next 20 years in 2006.	E. Naczynski
	20	To advise TRC net benefits with 9TJ/day GTA growth.	T. MacLean F. Oliver- Glasford J. Ramsay
	21	2013/2014 projected TRC screening ratios	T. MacLean F. Oliver- Glasford J. Ramsay
	22	EX1 A4 GEC34 – expected cubic metre sales by customer type.	T. MacLean F. Oliver- Glasford J. Ramsay
	23	Average measure life for all DSM programs.	T. MacLean F. Oliver- Glasford J. Ramsay
	24	To advise which 2012 DSM measures affect both peak and annual savings.	T. MacLean F. Oliver- Glasford J. Ramsay

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EXHIBIT LIST

<u>J – UNDERTAKINGS</u>

<u>Exhibi</u>	<u>t</u>	<u>Contents</u>	<u>Witness(es)</u>
<u>JT2</u>	25	To respond to FRPO hard copy questions sent to EGD.	E. Naczynski
	26	To provide average peak load per sector.	E. Naczynski
	27	To provide declining average use trends per customer and per sector. Include equation used for regression	E. Naczynski
	28	To provide reduction in peak hourly loads by customer type that incorporates 35 percent reduction.	C. Fernandes
	29	To advise how EGD's 0.65 reduction function was calculated with an explanation discussing all the factors it considers including DSM.	C. Fernandes
	30	For ED IRR #42, provide further breakdown of what 'other' row in 2012 EGD commercial customer table represents.	M. Suarez
	31	To make best efforts to update reduction factor of 65 percent, assuming DSM doubles.	C. Fernandes
	32	The portion of EGD's total residential, apartment, commercial and industrial sales in the GTA.	M. Suarez
	33	To provide a table with the number of projects by year - industrial and total.	T. MacLean F. Oliver- Glasford J. Ramsay
	34	To fully describe the assumptions and methodology used by EGD to derive historical data in ED IR#4 and other interrogatories.	M. Suarez
	35	Table with past 3 years of data expanding on ED IR #6 with	J. Denomy

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EXHIBIT LIST

Total Demand Data

J – UNDERTAKINGS

Exhibit Tab Contents Witness(es) JT2 36 To respond to ED letter from #12 onwards or explain why C. Fernandes it cannot be provided or explain where it has already T. MacLean been provided.

E. Naczynski

F. Oliver-

Glasford

J. Ramsay

M. Suarez

- 37 C. Fernandes To provide Enbridge's capacity on that line and whether or not that capacity included growth.
- 38 To provide a complete response to CCC#20 to discuss J. Denomy effects of using 1997–2012 as opposed to 2004-2012.

K – MISCELLANEOUS EXHIBITS

- Exhibit Tab <u>Contents</u>
 - KT1 1 APPRO'S Compendium.
 - 2 Enbridge Gas Distribution Document For Presentation By Mr. Fernandes
 - KT2 1 Track Work Alignment Drawings, Sheets 9 And 10 Dated August 22, 2011.

L – INTERVENOR EVIDENCE

- Exhibit Tab <u>Contents</u>
 - **Council of Canadians Evidence** L COC
 - COM City of Markham Evidence

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EXHIBIT LIST

ED Environmental Defence Evidence <u>L – INTERVENOR EVIDENCE</u>

- Exhibit Tab Contents
 - L GEC Green Energy Coalition Evidence
 - GMI Gaz Metro Evidence
 - IESO Independent Electricity System Operator Evidence
 - MG Markham Gateway Evidence
 - TCPL TransCanada Pipelines Evidence

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SUMMARY OF CHANGES

- The purpose of this evidence is to summarize the changes between Update No. 1, (amended on February 12, 2013), Update No. 2 (amended on April 15, 2013), Update No. 3 (amended May 15, 2013), Update No. 4 (amended on June 3, 2013), Update No. 5 (amended on June 3, 2013), Update No. 6 (amended on July 22, 2013), Update No. 7 (amended on September 10, 2013) and the Application originally filed on December 21, 2012. The Exhibit List included below notes the exhibits amended in each update.
- 2. Changes in Update No. 1 include:
 - 1) <u>Shortening of Segment A</u>

The Segment A main pipeline will now connect to existing infrastructure owned by TransCanada in the vicinity of Highway 407 between Winston Churchill Boulevard and Heritage Road, called the Bram West Interconnect, rather than to Parkway West. The interconnection with TransCanada's system is along the originally proposed route which travels along a protected utility corridor. This changed interconnect reduces the length of the Segment A pipeline by approximately five kilometres ("km") but will require the payment of a toll by Enbridge for use of TransCanada's Mainline from Parkway to the Bram West Interconnect. As a result of the new interconnection, in-line inspection facilities, odourization, metering, regulation, and other ancillary equipment will be relocated accordingly. Joint usage of this portion of Segment A does not impact the need for Union Gas' Parkway West facility. The Parkway West facility will continue to provide gas supply to the GTA Project, reliability benefits, and a tie-in to Enbridge's existing distribution infrastructure. /u

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2) Shared Usage of Segment A

Enbridge and TransCanada are continuing dialogue regarding the details of shared usage of the pipeline segment from the Bram West to Albion. To accommodate the anticipated needs of both companies and their customers, the diameter of the pipe will be increased from NPS 36 to NPS 42. This arrangement will eliminate the need for duplicative pipelines/facilities resulting in less environmental and community impacts.

3) Relocate the Regulation Facility

As indicated in EB-2012-0433, Union Gas' Application of Parkway West, there is a change in the location of the proposed Parkway West facility¹. The new site will be located approximately 1.5 km south of the original proposed site. The new site allows Union Gas to reduce its feeder pipeline and site interconnection requirements substantially². As a result, Enbridge's facilities at Parkway West, as well as the start point of the proposed tie-in line between Parkway West and Enbridge's existing Parkway North line, will be relocated. The revised tie-in line will be 315 metres ("m") instead of the previously planned 180 m, but represents a more optimal solution when Union Gas' reduced infrastructure requirements are taken into account.

- 3. Pursuant to amendments made in Update No. 1, changes in Update No. 2 include:
 - 1) Project Costs and Economic Feasibility

The cost estimates and economic feasibility calculations have been updated based on the revised point of delivery to the Bram West Interconnect, the

¹ EB-2012-0433, Section 11, page 96 of 121.

² EB-2012-0433, Section 11, page 96, paragraph 3. The new site eliminates the need for the two 54 inch pipelines, eliminates the need for multiple easements and reduces the length of the 42 inch pipeline between Parkway and Parkway West.

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shared usage with TransCanada, the shorter length of Segment A, the larger pipe size, the revised location of Union's Parkway Station and the revised tie-in connection from Parkway West to the Parkway North line.

2) Gas Supply Benefits

An update to the gas supply benefits Enbridge expects to generate through gas supply portfolio changes once the GTA Project facilities are put into service. The updated gas supply savings considers impacts from Union Gas' Parkway West (EB-2012-0433) and Brantford-Kirkwall Parkway D (EB-2013-0074) projects, in addition to TransCanada tolls to the new distributor areas and the expected toll from TransCanada to ship gas from Parkway to Bram West.

3) Transportation Services Agreement and Revenue Requirement

Enbridge and TransCanada are negotiating the commercial terms to permit TransCanada to use a portion of the capacity on the pipeline portion of Segment A from the Bram West Interconnect point to the Albion Road Station. The elements of the transportation services arrangement between Enbridge and TransCanada have been included in the evidence. As a result of the arrangement with TransCanada, Enbridge has amended the Application to seek approval for the methodology to establish a new rate for the transportation service to be provided to TransCanada. Enbridge will seek approval for the rate in a subsequent rate application (EB-2012-0459).

4) <u>Timing and Construction Schedule</u>

The timing of the activities necessary to complete the GTA Project have been updated based on the changes outlined in Update No. 1.

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- 4. Pursuant to amendments made in Update No. 1 and Update No. 2, changes in Update No. 3 include:
 - 1) Gas Supply Benefits

In Update No. 2, Enbridge committed to provide an update to the expected gas supply benefits resulting from the National Energy Board ("NEB") Decision in RH-003-2011. This update includes changed assumptions related to transportation capacity displacement as a result of TransCanada's May 1, 2013 Compliance Filing and Review and Variance Application resulting from the NEB's March 27, 2013 Decision in RH-003-2011. As a result, the economic feasibility was also updated.

5. Update No. 4 was filed to make corrections to the customer additions history and forecast and update the land exhibits to include an additional land requirement and its respective landowner.

1) <u>Customer Additions</u>

An administrative error was identified when performing data mining for the interrogatory responses. The error occurred when transferring the customer additions in the GTA Project Influence Area into the summary tables and figures in the pre-filed evidence. This update amends the customer additions tables, figure, select paragraphs that discuss customer additions and customer base, and the economic feasibility. The change in customer additions resulted in a change in the Probability Index from 1.76 to 1.74.

The error did not affect the peak day demand forecast which was determined from the accurate base

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2) Land Requirements

One additional land requirement and corresponding landowner was identified in May 2013 along the Segment A pipeline route from Bram West to Albion. The parcel of land was previously believed to have been avoided. However upon further work in the pull-forward detailed design engineering phase, the pipeline alignment was confirmed to pass through this land. The landowner was immediately contacted to discuss the project and easement requirements.

3) Curtailable Load

A correction was made to Figure 1 in Exhibit A, Tab 3, Schedule 7 to address a typo. Total curtailable load is measured in m³/day (not m³/hour as originally noted).

- Update No. 5 was filed to provide an update to the Post Environmental Report comment response table filed at Exhibit B, Tab 2, Schedule 1, Attachment 5. The comment response table was originally filed as part of Update No. 2.
- Update No. 6 was filed to amend the application as a result of the termination of the Memorandum of Understanding ("MOU") with TransCanada. As a result, Update No. 6 includes:
 - 1) Changes to Segment A

The originally proposed Segment A initiation point was reinstated to Parkway West to interconnect with Union Gas as opposed to the previously proposed

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initiation point at Bram West with TransCanada. Under this revised scope the Segment A pipeline from Parkway West to Albion is 27.4 km in length and is proposed as NPS 42. The additional length is 6.5 km longer than the previously proposed length when interconnecting at Bram West. This includes the 1.5 km extension from the original application (December 21, 2012) due to the relocation of the Parkway West facilities as a described in Update No. 1. The rate methodology (Rate 332) is now proposed for open access transportation from Parkway West to Albion. Exhibit A, Tab 3, Schedule 9 provides the evidentiary updates for all Schedules within Exhibit A, Tab 3 and also includes economic sensitivity analysis and estimated rate impacts. Updates have been made to relevant Schedules within Exhibits B, C, D and E to reflect the impact of the amendment.

2) Environmental Report Amendment

An amendment to the Environmental Report provides the results of Dillon Consulting Limited's review of the reinstatement of the originally proposed Segment A route as a NPS 42 pipeline and a 1.5 km extension to the proposed Parkway West location.

3) New Land Requirements

The reinstatement of the originally proposed Segment A route involves one incremental landowner, Prologis Canada LLC. The reinstatement and 1.5 km

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extension also requires additional land owned by Infrastructure Ontario for an easement within the designated utility corridor. Additional permits are required from the City of Mississauga and Region of Halton. These parties (Prologis, Infrastructure Ontario, City of Mississauga and Region of Halton) have been included in previous land requirements discussions and/or stakeholder consultations.

Unrelated to the changes in Segment A, one additional land requirement and corresponding landowner was identified in July 2013 along the Segment B pipeline route. The parcel of land was previously believed to have been avoided. However upon further work in the pull-forward detailed design engineering phase, the pipeline alignment was confirmed to pass through this land. The landowner was immediately contacted to discuss the project and easement requirements.

4) Project Costs and Economic Feasibility

The project cost estimate and economic feasibility calculations have been updated to reflect the changes proposed in this update.

 Update No. 7 was filed to amend the application to report the results of the New /u Capacity Open Season for Segment A and to describe the impact of a negotiated settlement agreement between the Eastern LDCs³ and TransCanada.

³ The Eastern LDCs consist of Enbridge, Union Gas and Gaz Metro.

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Update No. 7	(Sep 11, 2013)	>					>	New Schedule																
<u>Update No. 6</u>	(Jul 22, 2013)	>	>		>		>		Update	incorporated in	Ex. A, Tab 3,	Sch. 9												-
Update No. 5	(Jun 11, 2013)																							
<u>Update No. 4</u>	<u>(Jun 3, 2013)</u>						>		>	Table 2			>	Paragraph 27	>	Paragraph 9		>	Paragraph 6,	Table 1, Figure	7			
Update No. 3	<u>(May 15, 2013)</u>						>																	
<u>Update No. 2</u>	<u>(Apr 15, 2013)</u>	>	>				>		`						>									
<u>Update No. 1</u>	(Feb 12, 2013)	>	>		>		New Schedule		>															-
Contents		Exhibit List	Application	OPCC Distribution List	List of Interested	Parties	Summary of Changes	Curriculum Vitae	Purpose, Need, and	Timing			History of Natural Gas	Supply in the GTA	Operation and	Limitations of Existing	Facilities	Market Growth						
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Update No. 7	(Sep 11, 2013)																				New Schedule	
Update No. 6	(Jul 22, 2013)	Update	incorporated in	Ex. A, Tab 3,	Sch. 9		Update	incorporated in	Ex. A, Tab 3,	Sch. 9	Update	incorporated in	Ex. A, Tab 3,	Sch. 9	Update	incorporated in	Ex. A, Tab 3,	Sch. 9	New Schedule			
Update No. 5	(Jun 11, 2013)																					
Update No. 4	(Jun 3, 2013)										~	Figure 1										
Update No. 3	(May 15, 2013)	>																				
Update No. 2	(Apr 15, 2013)	>					>								>							
Update No. 1	(Feb 12, 2013)						>				>											
Contents		Natural Gas Demand,	Supply, and Expected	Gas Supply Benefits			Proposed Facilities,	Operation, and	System Benefits		Alternatives				Timing				July 22, 2013 Update	to Exhibit A, Tab 3	September 11, 2013	Update
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<u>Update No. 5</u>	(Jun 11, 2013)					>	(Attachment 5)																	
Update No. 4	(Jun 3, 2013)																			>	>			
<u>Update No. 3</u>	(May 15, 2013)																							
<u>Update No. 2</u>	<u>(Apr 15, 2013)</u>					>					>	>		>		>						>		
Update No. 1	(Feb 12, 2013)	>				>														>				
Contents		Preferred Route	Description	Alternative Route	Description	Environmental Report	and Archaeological	Assessment	Environmental	Implementation Plan	Design Specifications	Hydrostatic Test	Procedure	Estimated Project	Costs	Proposed	Construction Schedule	Project Management	Framework	Land Requirements	Negotiations to Date	Permits Required	Affidavit	
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							Consultations		
					>		Aboriginal	1	
							Methodology		
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							Economics		
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(Sep 11, 2013)	(Jul 22, 2013)	(Jun 11, 2013)	(Jun 3, 2013)	(May 15, 2013)	(Apr 15, 2013)	(Feb 12, 2013)			_
Update No. 7	Update No. 6	Update No. 5	Update No. 4	Update No. 3	Update No. 2	Update No. 1	Contents	Sch.	ab

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