

500 Consumers Road North York, Ontario M2J 1P8 PO Box 650 Scarborough ON M1K 5E3 **Lorraine Chiasson**

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Email: egdregulatoryproceedings@enbridge.com

February 19, 2014

VIA RESS, EMAIL and COURIER

Ms. Kirsten Walli Ontario Energy Board 2300 Yonge Street Suite 2700 Toronto, Ontario M4P 1E4

Re: EB-2012-0459 - Enbridge Gas Distribution Inc. ("Enbridge")

2014 – 2018 Rate Application New and Updated Exhibits

Further to Enbridge Gas Distribution's filing of February 18, 2014, enclosed please find new and updated exhibits as follows:

Company CVs found at Exhibit A1, Tab 6, Schedules 1 and 2 have been updated to reflect job titles changes only.

- Exhibit A1, Tab 6, Schedule 1 updated pages 2, 5 to 8, 13, 24 to 26, 31 to 34, 37 to 39, 44, 50 to 53, 57 to 65, 71, 81, 82, 85, 86, 88, 89, 97, 98, and 100;
- Exhibit A1, Tab 6, Schedule 2 updated page 7;
- Exhibit A1, Tab 6, Schedule 6 (new); and
- Exhibit B2, Tab 9, Schedule 1, page 3.

This submission was filed through the Board's RESS and is available on the Company's website at www.enbridgegas.com/ratecase.

Yours truly,

(original signed)

Lorraine Chiasson Regulatory Coordinator

cc: Mr. F. Cass, Aird & Berlis EB-2012-0459 Intervenors

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CURRICULUM VITAE OF TIM ADAMSON

Experience: Enbridge Gas Distribution Inc.

Manager, Sustainable Energy

2008

Program Manager, Sustainable Energy

2002

Senior Advisor, Safety and Environment

1993

Education: MSc. Soil Surveying and Pedology, University of Reading, UK

B.Sc. Honours. Soil Science, University of Newcastle upon Tyne, UK.

Canadian Certified Environmental Practitioner (2005)

Various Other Training Courses (e.g. CSA ISO 14064 - 2, Carbon Finance, web writing, marketing for engineers).

Memberships: Chair, Canadian Energy Partnership for Environmental Innovation (CEPEI)

Board Member, Smart Commute, North Toronto Vaughan

Appearances: (Ontario Energy Board)

None

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CURRICULUM VITAE OF TUNDE ADESIPO

Experience: <u>Enbridge Gas Distribution Inc.</u>

Senior Finance Business Partner

2014

Manager, IT Business Support

2010

Manager, Internal Controls

2010

Senior Leader, Governance & Internal Controls

2007

Deloitte & Touche LLP

Senior Accountant

2005

UNIC Insurance Plc

Executive Director Finance & Administration

2001

PricewaterhouseCoopers LLP

Audit Manager

1998

Senior Auditor

1993

Education: Masters of Business Administration (Banking & Finance)

Certified Public Accountant (US CPA)
Associate Chartered Accountant (ACA)
Certified Information Systems Auditor (CISA)

Memberships: Information Systems Audit and Control Association (ISACA)

Appearances: (Ontario Energy Board)

EB-2011-0354

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CURRICULUM VITAE OF FAHEEM AHMAD

Experience: <u>Enbridge Gas Distribution Inc.</u>

Manager, Customer Portfolio and Policy

2010

Program Manager, Financial Assessment

2007

Supervisor, Gas Supply Analysis

2006

Program Manager, Portfolio Management

2004

Program Manager, Capital Appropriations

2003

Senior Advisor, Financial Business Performance

2001

Enbridge Incorporated

Financial Analyst, Business and Financial Analysis

2000

Lahore Electricity Supply Company

Manager, Operations

1996

Education: Certified Management Accountant (CMA)

Society of Management Accountants, 2004

Master of Business Administration Wilfred Laurier University, 1999

Master of Science, Electrical Engineering

University of Engineering and Technology, Lahore, Pakistan, 1992

Memberships: The Society of Management Accountants of Ontario

Professional Engineers of Ontario

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

EB-2011-0354 EB-2011-0277 EB-2010-0146 RP-2002-0133

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CURRICULUM VITAE OF WILL AKKERMANS

Experience: Enbridge Gas Distribution Inc.

Senior Director, System Operations

2012

Director, System Operations – Operations Senior VP

2011

General Manager Ottawa – Operations Leadership

2007-2010

Director, Customer Care RFP Project - Customer, Reg. & Public Affairs

2006

General Manager Central Region

2003-2004

Manager Trans Serv/Gas Supp Operations

2000

Manager Special Projects

1999

Manager Supply Management Services

1996-1998

Supervisor Gas Control

1994-1996

Supervisor Pipeline

1993-1994

Pipeline Inspector

1992

Enbridge Inc.

Director, Business Technology

2006

Director, Asset Technology Management

2005-2006

Manager International Business Development

2000-2003

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Education: Master of Business Admin, 1999

Bachelor of Science – Civil Engineering, 1993

Memberships: Professional Engineers of Ontario

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CURRICULUM VITAE OF JIM ALTON

Experience: <u>Enbridge Gas Distribution Inc.</u>

Director, Safety and Process Management

2013

Director, Asset Renewal and Improvement

2012

General Manager, Toronto Region

2011

Directory, Safety & Reliability

2009

General Manager, Central Region West

2008

Group Manager - Work Management Centre

2006

Manager, Operations Solutions

2006

Manager, Field Force Transformation

2004

Manager, Eastern Region Operations

2001

Manager, Engineering Maintenance

1999

CSA International

Project Manager, Oil & Gas Standards

1998

SENES Consultants Limited

Associate and Senior Environmental Engineer

1990

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Consumers Gas Company Ltd

Assistant Manager, Gas Supply 1987

Project Engineer, LNG Project 1985

Manager, Operations Information Systems

Distribution Planning Engineer 1980

TransCanada Pipelines

Jr. Engineering Assistant 1977

Education: B.A. Sc., Chemical Engineering

University of Toronto, 1980

Economics and Fundamental Accounting courses

York University, 1982

LNG Plant Operations Course Institute of Gas Technology, 1985

Microprocessor Based Programmable, Controllers

University of Toronto, 1986

Canadian Securities Course

Investment Dealers Association, 1987

Compliance with Environmental Legislation

University of Toronto, 1990

Queens Executive Management Program

Queens University, 2003

Memberships: Professional Engineers Ontario

Appearances: (Ontario Energy Board)

EB-1985-LNG

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CURRICULUM VITAE OF LINDA AU

Experience: Enbridge Gas Distribution Inc.

Capital Budget Manager

2007

Capital Budget Supervisor

1995

Revenue and Gas Cost Analyst

1991

Canada Post Corporation

Operations Planning and Budget Officer

1990

Financial Analyst

1988

Queen Elizabeth Hospital

Senior Accountant

1986

Education: Certified General Accountant

CGA Ontario 1991

Bachelor of Business Management

Ryerson 1986

Appearances: (Ontario Energy Board)

EB-2012-0055 EB-2011-0354 EB-2011-0008 EB-2010-0042 EB-2009-0172 EB-2009-0055 EB-2008-0219 EB-2006-0034 RP-2005-0001

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 10 of 102

CURRICULUM VITAE OF PRAMOD BHATIA

Experience: <u>Enbridge Inc.</u>

Senior Manager, Treasury

2013

Manager, Treasury

2010

Senior Advisor, Enterprise Risk

2008

Federal Home Loan Bank of Dallas

Senior Risk Analyst

2007

Fannie Mae

Senior Portfolio Analyst, Portfolio Risk Management

2005

Credit Risk Manager, Counterparty Risk Management

2003

BNP Paribas

Head - Cash Management

1997

Citibank

Manager 1995

Education: Master of Science, 2002

Master of Business Administration, 1995

Bachelors of Engineering, 1992

Appearances: (Ontario Energy Board)

None

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CURRICULUM VITAE OF ROBERT ALAN BOURKE, CMA

Experience: <u>Enbridge Gas Distribution Inc.</u>

Manager Regulatory Proceedings

2004

Manager Budget and Administration - Operations

2003

Manager Regulatory Accounting

1998

Senior Analyst Regulatory Accounting

1995

Supervisor Revenue and Gas Cost

1992

Centra Gas (Ontario) Inc.

Supervisor, Budget Administration

1992

Thornhill Glass & Mirror Inc.

Controller

1988

The Consumer Gas Company Limited

Manager System Customer Billing

1987

Management Trainee

1986

Supervisor Income and Cash Budget

1982

Asst. Supervisor Income and Cash Budget

1980

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 12 of 102

Education: Certified Management Accountant (CMA), 1981

Memberships: The Society of Management Accountants Ontario

Appearances: (Ontario Energy Board)

EB-2012-0055 EB-2011-0354 EB-2011-0277 EB-2011-0226 EB-2011-0008 EB-2010-0146 EB-2010-0042 EB-2009-0172 EB-2008-0219 EB-2007-0615 EB-2006-0034 EB-2005-0001 RP-2003-0048 RP-2002-0133 RP-2001-0032 RP-2000-0040 RP-1999-0001

EBRO 497 EBO 179-14/15

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CURRICULUM VITAE OF JOHN S. BRIGGS

Experience: Enbridge Gas Distribution Inc.

Senior Finance Business Partner

2013

Manager, Asset Management Services

2011

Manager, Engineering Budgets

2008

Manager, Operations Budgets & Administration

2005

Manager, Capital Knowledge Centre

2002

Team Lead, Oracle EFS FA, PA, OPA

2001

GT Group Telecom

Manager, Capital Assets

2000

A.G. Simpson Automotive Inc.

Manager, Capital Appropriations & Expenditures

1998

Manager, Financial Reporting

1994

Alcan Aluminium Ltd.

Manager, Accounts Receivable

1988

Education: Bachelor of Arts

Victoria College University of Toronto, 1985

Appearances: (Ontario Energy Board)

EB-2011-0354 EB-2005-0001 RP-2003-0203 RP-2002-0133

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 14 of 102

CURRICULUM VITAE OF MICHAEL BROPHY

Experience: <u>Enbridge Gas Distribution Inc.</u>

Sr. Manager, Operations Solutions

2010

Manager, DSM & Portfolio Strategy

2004

Manager, Sales

2001

Senior Specialist, Environment Health & Safety

1999

Education: Masters of Business Administration, University of Toronto

2004

Masters of Engineering, Civil Engineering, University of Toronto

1997

B.A.Sc., Civil Engineering, University of Waterloo

1994

Memberships: Professional Engineers of Ontario

Appearances: (Ontario Energy Board)

EB-2009-0154 EB-2009-0103 EB-2008-0384 EB-2008-0346 EB-2008-0271 EB-2007-0893 EB-2006-0034 EB-2006-0021 EB-2005-0001

EBLO 261/EBC 266/EBA 785

EBLO 260 EBLO 261 EBC 266 EBA 785 PL 97

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CURRICULUM VITAE OF RYAN CHEUNG

Experience: Enbridge Gas Distribution Inc.

Senior Budget Analyst, Budget and Planning

2010

Supervisor, Margin Planning and Analytics

2006

Analyst, Volumetric Analysis and Budgets

2004

TD Canada Trust

Financial Service Advisor

2000

Education: Bachelor of Arts, in Economic and Statistics

University of Toronto

Appearances: (Ontario Energy Board)

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CURRICULUM VITAE OF SAMIR CHHELAVDA, CA, CIA, CRMA

Experience: Enbridge Gas Distribution Inc.

Assistant Controller

2012

Manager, Strategy Execution and Performance Management

2011

Chief Auditor

2010

Manager, Audit Services

2005

Duffy, Allain & Rutten, LLP

Senior Audit Manager

2003

AXA Canada Inc.

Senior Financial Analyst

2002

Ernst & Young, LLP

Audit Manager

2001

Senior Staff Accountant

1999

Schwartz, Letivsky, Feldman LLP

Staff Accountant

1997

Education: Certification in Risk Management Assurance

Institute of Internal Auditors, 2011

Certified Internal Auditor

Institute of Internal Auditors, 2006

Chartered Accountant

Canadian Institute of Chartered Accountants, 2000

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Graduate Diploma in Public Accountancy

McGill University, 1997

Bachelor of Commerce - Accounting

McGill University, 1995

Memberships: Canadian Institute of Chartered Accountants

Institute of Chartered Accountants of Ontario

Institute of Internal Auditors

Ordre des Comptables Professionnels Agréés du Québec

Appearances: (Ontario Energy Board)

None

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CURRICULUM VITAE OF LLOYD A. CHIOTTI

Experience: Enbridge Gas Distribution Inc.

Director, Distribution Asset Management

2010

Director, Asset Management Strategy

2006

General Manager, Envision Program

2003

General Manager, Central Region

2002

Director, Business Optimization

2001

Director, Operations Services

1999

Director, Business Transformation

1998

Regional General Manager, Central Region

(incl. Metro, Eastern, Western & Northern Zones)

1997

Regional General Manager, Metro Region

1992

Regional General Manager, Western Region

1989

Director, Information Services

1987

Manager, Systems Development

1984

Project Manager, Systems & Planning Dept.

1979

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Datacrown

Data Processing Consultant 1977

Sears Canada Ltd.

Manager of Programming Services

1971

Education: Bachelor of Applied Science, Electrical Engineering

University of Toronto

Masters of Business Administration

University of Toronto

Memberships: CGA – Chair, Asset Management Task Force

IGU – Member Working Committee 4 - Distribution

Appearances: (Ontario Energy Board)

EB-2011-0354 RP-2003-0203 RP-2002-0133 RP-2001-0032 RP-1999-0001

EBO 179-14/EBGO 179-15

EBA 795

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CURRICULUM VITAE OF JACKIE E. COLLIER

Experience: Enbridge Gas Distribution Inc.

Manager, Rate Design

2003

Manager, Rate Research

2000

Senior Rate Research Analyst

1996

Centra Gas Ontario Inc.

Manager, Rate Design

1995

Supervisor, Cost of Service Studies

1990

Education: Bachelor of Business Management

Ryerson Polytechnical Institute, 1988

Appearances: (Ontario Energy Board)

EB-2012-0055

EB-2011-0354 EB-2011-0277

EB-2011-0242

EB-2010-0146

EB-2009-0172

EB-2009-0055

EB-2008-0219

EB-2008-0106

EB-2006-0034

EB-2005-0001

RP-2003-0203

RP-2003-0048

RP-2002-0133

RP-2001-0032

RP-2000-0040

EBRO 489

EBRO 474-B, 483,484

EBRO 474-A

EBRO 474

EBRO 471

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(Régie de l'énergie/Régie du gaz naturel)

R-3793-2012

R-3758-2011

R-3724-2010

R-3692-2009

R-3665-2008

R-3637-2007

R-3621-2006

R-2587-2005

R-3537-2004

R-3464-2001

R-3446-2000

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CURRICULUM VITAE OF LORI CORNWALL

Experience: Enbridge Gas Distribution Inc.

Associate General Counsel & Director, Gas Distribution Law

2012 - Present

Senior Legal Counsel

2007 - 2012

Davies Ward Phillips & Vineberg, LLP

Partner, Competition Law and International Trade

1997 - 2006

Associate 1995 - 1997

Sole Practitioner - Criminal Law

1992 - 1995

McMillan, LLP (formerly McMillan Binch)

Associate 1991

Education: Bar Admission Course – Called to the Ontario Bar

Law Society of Upper Canada, 1991

Masters of Business Administration

University of Ottawa, 1989

Bachelors of Laws,

University of Ottawa, 1989

Bachelor of Arts (Honours) Carleton University, 1985

Memberships: Law Society of Upper Canada

Canadian Bar Association/Ontario Bar Association

Appearances: (Ontario Energy Board)

EB-2011-0354

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CURRICULUM VITAE OF LAWRENCE COWIE

Experience: Enbridge Gas Distribution Inc.

Manager, Operations, Customer Safety and Compliance

2012

Manager, Fleet Management

2009

Field Manager, Operations

2004

Supervisor, Operations

1992

Supervisor, Damage Prevention

1991

1st Class Gas Technician

1978

Labourer 1976

Education: High School – G.E.D.

Appearances: (Ontario Energy Board)

None

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CURRICULUM VITAE OF ANNE M. CREERY

Experience: Enbridge Gas Distribution Inc.

Director, Public and Government Affairs and Customer Ombudsman

2013

Director, Quality & Training

2012

Group Manager, Work Management Centre

2010

Manager, Customer Care Operations

2005

Manager, Business Change Realization

2004

Union Gas Ltd.

Project Manager, Operations

2004

District Manager, Operations

1999

Manager, Solutions Realignment Project

1997

Manager, Business Support

1995

Assistant to the Senior Vice-President of Operations

1993

Supervisor, Sales Administration

1989

Sales Representative

1988

Updated: 2014-02-19 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 25 of 102

Education: Master of Business Administration

Queen's University, 1997

Honours Bachelor of Commerce University of Windsor, 1986

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

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CURRICULUM VITAE OF KEVIN CULBERT

Experience: Enbridge Gas Distribution Inc.

Senior Manager, Regulatory Accounting

2014

Manager, Regulatory Accounting

2003

Senior Analyst, Regulatory Accounting

1998

Analyst, Regulatory Accounting

1991

Assistant Analyst, Regulatory Accounting

1989

Budgets - Capital Clerk, Budget Department

1987

Accounting Trainee, Financial Reporting

1984

Education: CMA (3rd level)

Seneca College 1987-89 (business/accounting)

Appearances: (Ontario Energy Board)

EB-2012-0055 EB-2011-0354 EB-2011-0277 EB-2011-0226 EB-2011-0008 EB-2010-0146 EB-2010-0042 EB-2009-0172 EB-2009-055 EB-2008-0219

EB-2008-0104/EB-2008-0408

EB-2007-0615 EB-2006-0034 EB-2005-0001 RP-2003-0203 /u

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CURRICULUM VITAE OF DEAN DALPE

Experience: Enbridge Gas Distribution

Director, Storage Operations

2012

TransAlta Energy Corporation

1998-2012

Director of Eastern Canada Gas Operations

Plant Manager, Sarnia Regional Cogeneration Facility

Assistant Plant Manager, Sarnia Regional Cogeneration Facility

Maintenance Supervisor, Sarnia Regional Cogeneration Facility

Atomic Energy of Canada

Controls Specialist

1994

Education: Queen's University, Master of Business Administration (E.M.B.A.)

2011

China Europe International Business School (CEIBS)

Business in China Elective, Shanghai, China

2012

Cambrian College of Technology, Instrumentation Engineering Technologist

Cambrian College of Technology, Electronic Engineering Technician

1991

Certification: Certified Industrial Instrument Mechanic

Certified Industrial Electrician 4th Class Power Engineer

Appearances: (Ontario Energy Board)

None

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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 ROB DIMARIA

Experience: Enbridge Gas Distribution Inc.

Manager, Key Accounts and Vendor Relationships

2009

Account Executive

2006

Senior Marketing Specialist

2003

Residential Program Manager

2001

Senior Analyst, Planning and Evaluation

2000

Rate Research Analyst

1998

Plant Accounting Chief Clerk

1994

Accounting Trainee

1992

Education: Bachelor of Administration, Business Management, Athabasca University

Diploma in Accounting and Financial Management, Centennial College

Appearances: (Ontario Energy Board)

EB-2001-0032

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EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 31 of 102

CURRICULUM VITAE OF TANYA M. FERGUSON

Experience: <u>Enbridge Gas Distribution Inc.</u>

Senior Manager Strategic Sourcing and Contract Centre

2013

Senior Manager, Customer Care Operations

2013

Manager Customer Care Operations, Customer Care

2010

Manager Customer Care Financial Administration, Customer Care

2006

Manager Special Projects, Customer Care

2005

Senior Analyst, Planning and Projects

2002

Supervisor, Internal Reporting

2000

Enbridge Services Inc.

Financial Analyst, Financial Reporting

1999

Enbridge Gas Distribution Inc.

Corporate Accountant, Financial Reporting

1998

Audit Assistant, Audit Services

1998

Accounting Trainee, Financial Reporting

1997

Education: Masters of Business Administration

York University, 2002

Certified Management Accountant

Society of Management Accountants, 2000

Updated: 2014-02-19 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 32 of 102

Bachelor of Commerce (Honours) University of Windsor, 1996

Memberships: Certified Management Accountant Society of Management Accountants

(Ontario Energy Board) Appearances:

EB-2011-0354 EB-2011-0277 EB-2010-0146 EB-2005-0001 RP-2003-0203

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EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 33 of 102

CURRICULUM VITAE OF M. CRAIG FERNANDES

Experience: Enbridge Gas Distribution Inc.

Senior Manager, Business Development and Strategy.

2014

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

Carrier Canada Ltd.

Automation Controls Specialist

1995

Customer Service Representative

1994

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 34 of 102

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 EB-2012-0459

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CURRICULUM VITAE OF RALPH J.W. FISCHER

Experience: Enbridge Gas Distribution Inc.

Director, Regulatory Special Projects

2011

Enbridge Pipelines Inc.

Director, Planning and Analysis

2005

Terasen Pipelines (now Kinder Morgan Canada)

Director, Economics and Regulatory Affairs

2003

EnCana Pipelines

Director, Economics and Regulatory Affairs

2001

TransCanada PipeLines Ltd.

Director, Economics and Regulatory Affairs (Express Pipeline Partnership)

Manager, Business Development Coordinator, Investor Relations

Senior Financial and Regulatory Analyst

1990

Home Oil Company

Senior Financial Analyst, Corporate Planning

1988

Interprovincial Pipe Line Ltd.

Supervisor, Forecasting

1981

Education: Honours Bachelor of Science, University of Toronto, Toronto

Masters of Business Administration (Finance), Schulich School of Business, York

University, Toronto

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Appearances: (Ontario Energy Board) EB-2012-0055

EB-2011-0354

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EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 37 of 102

CURRICULUM VITAE OF PAUL GREEN

Experience: Enbridge Gas Distribution Inc.

Director, Customer Connections, Work Management and Emergency Programs

2013

Director, Public & Government Affairs and Customer Ombudsman

2012

Director, Sales

2008

Market Development

2005

Direct Energy Business Services

Area Director, Southwest Ontario

2005

JRL HVAC Inc.

Director, Sales Development

2003

Direct Energy Essential Home Services

Director, Sales Development

2002

Enbridge Home Services

Director, Sales Development

1999

Enbridge Consumers Gas

Manager, Retail Sales and Service GTA North and Georgian Bay

1997

The Consumers' Gas Company Ltd.

Regional Sales Manager

Western Region

1994

Updated: 2014-02-19 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 38 of 102

Commercial / Industrial Sales Manager Western Region 1990

Manager, Innovators Circle Human Resources 1988

Residential Sales Manager Metro Toronto Region 1986

Commercial / Industrial Sales Supervisor Metro Toronto Region 1984

Commercial / Industrial Sales Representative Metro Toronto Region 1981

Residential Sales Representative Metro Region 1979

Customer Account Representative Metro Toronto Region 1977

Merchandise Account Clerk October 1976

Education: Bachelor of Administrative Studies

York University

1998

Queen's University Executive Development Program 1998

Syracuse University Sales and Marketing Program 1993 / 1994

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Appearances: (Ontario Energy Board)

EB-2008-0271 EB-2006-0034 EB-2006-0021

Grand Valley East Garafraxa Franchise (Leave-to-Construct)

1994

Dundalk / Flesherton / Markdale Franchise Hearing 1995

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 40 of 102

CURRICULUM VITAE OF ANTON KACICNIK

Experience: <u>Enbridge Gas Distribution Inc.</u>

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 SAGAR KANCHARLA

Experience: Enbridge Gas Distribution Inc.

Director, Business Performance

2011

Director, Strategy, Research & Planning

2008

Manager, Planning & Economics

2007

Manager, Financial and Economic Assessment

2005

Manager, Financial Assessment

2003

Senior Advisor, Financial Assessment

2002

Enbridge Inc.

Financial Analyst, Business & Financial Analysis

2000

GE Silicones India Pvt. Ltd., India

Manager - Market Development

1996

Ciba Specialty Chemicals Ltd., India

Product Manager - Pigments Division

1994

Marketing Executive – Polymers Division

1992

Education: Masters of Business Administration

McMaster University, 2000

Post Graduate Diploma in Management

Indian Institute of Management, Ahmedabad, India, 1992

Bachelor of Engineering (Civil Engineering) Andhra University, Visakhapatnam, India, 1990

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 43 of 102

Membership: Society of Utility and Regulatory Financial Analysts

Appearances: (Ontario Energy Board)

EB-2011-0354 EB-2011-0277 EB-2007-0615 EB-2006-0066 EB-2006-0034 EB-2005-0539 EB-2005-0001 RP-2004-0015 RP-2003-0203

/u

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 44 of 102

CURRICULUM VITAE OF LORRAINE KENNEDY

Experience: Enbridge Gas Distribution Inc.

Senior Finance Business Partner

2014

Manager, Budgets and Scorecard

2008

Supervisor Business Support

2005

Sr. Analyst, Budget & Financial Reporting

2001

Analyst, Opportunity Development

1999

Balance Sheet Clerk, Finance

1997

Intermediate Bank Reconciliation Clerk, Finance

1992

Accounts Payable Clerk, Finance

1991

Education: Queens Leadership Program

2010

Dale Carnegie Training - Presentation Skills

2010

Facilitation First - Internal Consulting Workshop

2010

Centennial College C.I.

Business Administration – General Management Diploma

1980 to 1983

Appearances: (Ontario Energy Board)

EB-2011-0354

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CURRICULUM VITAE OF MATTHEW KIRK

Experience: <u>Enbridge Gas Distribution Inc.</u>

Cost Allocation Manager, Regulatory Affairs

2012

Senior Rate Design Analyst, Regulatory Affairs

2010

Rate Design Analyst, Regulatory Affairs

2009

Market Analyst, Economic and Market Analysis

2006

Education: Master of Arts (Economics)

Wilfrid Laurier University, 2006

Bachelor of Arts (Honours Economics)

McMaster University, 2005

Memberships: Canadian Association of Business Economists (CABE)

Appearances: (Ontario Energy Board)

EB-2012-0055 EB-2011-0354

(Régie de L'Energie)

R-3793-2012

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 46 of 102

CURRICULUM VITAE OF TARA KATHLEEN KNIGHT, CA

Experience: Enbridge Gas Distribution Inc.

Manager, Capital Management

2012

Manager, Financial Reporting & Analysis

2008

Supervisor, External Reporting & Pensions

2006

Rogers Communications Inc.

Senior Financial Analyst

2005

PricewaterhouseCoopers LLP

Senior Associate

2003

Cooperative Education Program

2000 - 2002

Education: Chartered Accountant (CA), 2005

Master of Accounting, University of Waterloo, 2003

Honours Bachelor of Arts – Accounting, University of Waterloo, 2002

Memberships: Institute of Chartered Accountants of Ontario (ICAO)

Multiple Sclerosis Society of Canada – Finance Committee

Appearances: (Ontario Energy Board)

None

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CURRICULUM VITAE OF DANNY KO

Experience: <u>Enbridge Gas Distribution Inc.</u>

Senior Budget Analyst

2011

<u>IBM</u>

Financial Analyst

2004

Education: Certified General Accountant (CGA), 2009

Bachelors of Business Administration, 2004

Bachelors of Science, 2000

Appearances: (Ontario Energy Board)

None

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 48 of 102

CURRICULUM VITAE OF KERRY LAKATOS-HAYWARD

Experience: Enbridge Gas Distribution

Director, Customer Care

2010

Director, Operations Services

2008

Director, Business Development & Strategy

2006

Manager, Business Development & Strategy

2003

Manager, Volumetric & Market Analysis

2000

Manager, Multi-Family Marketing

1997

Senior Economist, Economic Studies

1995

Ontario Hydro

End Use Economist, Load Forecasts

1994

Evaluation Analyst, Planning & Evaluation

1992

Education: Bachelor of Arts (Specialist in Economics)

University of Toronto, 1990

Master of Science in Planning (Environmental Planning)

University of Toronto, 1992

Queen's Executive Program, 2005

Certificate in Carbon Finance, 2008

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Appearances: (Ontario Energy Board)

EB-2011-0354
EB-2011-0277
RP-2006-0034
RP-2005-0001
RP-2003-0203
RP-2003-0048
RP-2002-0133
RP-2001-0032
RP-2000-0040

/u

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 50 of 102

CURRICULUM VITAE OF DOUGLAS F. LAPP

Experience: Enbridge Gas Distribution Inc.

Director, Operations Strategy and Logistics

2013

Director, Operations Governance and Control

2012

Chief Engineer

2011

Director, Engineering & Construction

2010

Chief Safety Officer

2006

Manager, Chief Operations & Logistics Engineer

2003

General Manager, Niagara Region

2002

Manager, Operations & Engineering Ozz Energy Project

2001

Manager, Distribution Planning

1999

Manager, Year 2000 Business Continuity Planning

1998

Manager, Distribution Operations, Northern Region

1995

Manager, System Regulation

1994

Manager, Engineering Projects

1991

Manager, Planning & Technical Services, Niagara Region

1990

Supervisor, Maintenance, Metro Toronto Region

1989

Updated: 2014-02-19 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1

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Senior Distribution Engineer, Congas Engineering Canada Ltd. 1988

Senior Engineer, Operations Engineering 1987

Project Engineer, Eastern Region 1985

Operations Engineer, Operations Engineering 1982

Education: Queens Executive Program, 1998

University of Toronto

Master of Engineering in Welding, 1990

University of Waterloo

Bachelor of Applied Science in Civil Engineering, 1982

Memberships: Professional Engineers of Ontario

Appearances: (Ontario Energy Board)

EB-2011-0354 EB-2007-0615 EB-2006-0034 RP-2005-0001 RP-2003-0203 RP-2002-0133 RP-2000-0040 RP-1999-0001 EBRO 495

EBRO 487/ EBRO 485

EBLO 241

EBLO 256/EBA 737/EBC 246 EBLO 261/EBA 785/EBC 266

EBA 795

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CURRICULUM VITAE OF LISA L. LAWLER

Experience: Enbridge Gas Distribution Inc.

Director, Asset and Integrity Management

2013

Director, Integrity

2010

Chief Engineer

2008

Manager, Enbridge Ontario Wind Power Project

2006

Manager, Strategic Distribution Alliance

2004

Manager, Distribution Planning

2001

Manager, Operations Eastern Region

1999

Manager, Distribution Expansion

1997

General Supervisor, Maintenance (West)

1996

Supervisor, Construction & Maintenance Administration

1995

Operations Engineer

1991

Congas Engineering Canada Limited

(a former subsidiary of The Consumers' Gas Company Ltd.)

International Marketing Engineer

1989

Education: Master of Business Administration

Wilfrid Laurier University, 1989

Bachelor of Applied Science, Chemical Engineering, Honours Program

University of Waterloo, 1988

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Memberships: Professional Engineers of Ontario

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

RP-2002-0133

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CURRICULUM VITAE OF JAMIE LeBLANC

Experience: Enbridge Gas Distribution Inc.

Director, Energy Supply and Policy

2013

General Manager - Gazifère Inc.

2010

Manager, Finance and Control – Enbridge Gas New Brunswick Inc.

2005

Supervisor, Financial Reporting – Enbridge Gas New Brunswick Inc.

2004

Education: Chartered Accountancy Designation

Atlantic School of Chartered Accountants, 1998

Bachelor Business Administration

University of New Brunswick, Fredericton, 1996

Memberships: The New Brunswick Institute of Chartered Accountants

Appearances: (Régie de l'énergie/Régie du gaz naturel)

R-3793-2012 R-3758-2011

(New Brunswick Energy and Utilities Board)

Cost of Capital for Enbridge Gas New Brunswick (EGNB) - 2010

EGNB Financial Results 2009 – 2010 EGNB Cost of Service Study – 2010 EGNB LFO Rate Changes – 2010

EGNB Various Rates and HFO Rates - 2010

EGNB Development Period – 2009 EGNB Financial Results 2008 – 2009 EGNB Financial Results – 2007 - 2009

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CURRICULUM VITAE OF RAYMOND LEI

Experience: <u>Enbridge Gas Distribution Inc.</u>

Senior Manager, Budgets and Business Support

2014

Manager, Budgets and Business Support

2010

Manager, Corporate Budgets and Analysis

2007

Manager, Financial Analysis

2007

Senior Analyst, Planning and Projects

2005

Rogers Wireless Inc.

Senior Analyst, Budgets and Forecast

2001

Royal LePage Relocation Services Ltd.

Financial Analyst

2000

Kodak (China) Limited

Business Analyst

1995

Education: Certified General Accountant

Certified General Accountants of Ontario, 2005

Master of Business Administration

York University, 2000

Bachelor of Arts in Commerce and Economics

Sichuan University, China

Memberships: Certified General Accountant, Ontario

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 56 of 102

Appearances: (Ontario Energy Board) EB-2012-0055

EB-2012-0055 EB-2011-0354 EB-2011-0277 EB-2011-0008 EB-2010-0146 EB-2010-0042 EB-2009-0172

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 57 of 102

CURRICULUM VITAE OF LEE LIAUW

Experience: <u>Enbridge Gas Distribution Inc.</u>

Process Improvement Specialists

2014

Cost Allocations Specialist

2012

Manager, Business Performance

2008

Manager, Scorecard & Capital Appropriation

2002

Manager, Management Reporting & Analysis

2001

Ontario Hospital Association

1990

Financial Controller

Manager, Finance & Control

Manager, General Accounting

Education: CFA (Chartered Financial Analyst) Charterholder

September 2005

CMA (Certified Management Accountant)

1988

Bachelor of Commerce University of Toronto 1981

Membership: Society of Management Accountants of Ontario

Institute of Management Accountants Institute of Certified Financial Analysts Toronto Society of Financial Analysts

Appearances: (Ontario Energy Board)

EB-2011-0354 EB-2005-0001 /u

/u

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 58 of 102

CURRICULUM VITAE OF MICHAEL LISTER

Experience: Enbridge Gas Distribution Inc.

Senior Manager, Regulatory Policy and Strategy

2013

Manager, Regulatory Policy & Strategy

2010

Manager, Investment Planning

2006

Manager, Volumetric & Market Analysis

2004

Supervisor, Volumetric & Market Analysis

2003

Sr. Market Analyst, Volumetric & Market Analysis

2002 - 2003

NRI Industries Inc.

Production Scheduler, Logistics

1999-2000

Fairlee Fruit Juices Ltd.

Raw Materials Coordinator

1998

Coats Canada Inc.

Production Planner, Materials & Logistics

1996-1997

Education: Chartered Financial Analyst

CFA Institute, 2005

Master of Business Administration

York University, 2002

Bachelor of Commerce

St. Mary's University, 1996

Memberships: CFA Institute

Toronto CFA Society

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 59 of 102

Appearances: (Ontario Energy Board)

EB-2011-0354 EB-2010-0060 EB-2009-0172 EB-2009-0084 EB-2007-0615 EB-2005-0001 RP-2003-0203

(New York Public Service Commission)

05-G-1635

(New York Public Service Commission)

08-G-1392

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 60 of 102

CURRICULUM VITAE OF TREVOR MACLEAN

Experience: <u>Enbridge Gas Distribution Inc.</u>

Director, Distribution Planning and Records

2013

Director, Market Development & Sales

2012

Director, Business & Market Development

2008

Enbridge Gas New Brunswick

Manager, Distribution Operations

2006

Manager, Sales & Marketing

2004

RLG International

Consultant

2000

825929 Alberta Ltd

Consultant

1997

ISM (IBM Global Services)

Director, Systems Integration

1995

Manager Operations, Systems Integration

1994

National Defence/Canadian Forces

Military Officer

1986

Education: Master of Business Administration

Queen's University, 1995

Bachelor of Arts (Special) University of Alberta, 1986 /u

Updated: 2014-02-19 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 61 of 102

(Ontario Energy Board) EB-2012-0055 Appearances:

EB-2011-0354

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 62 of 102

CURRICULUM VITAE OF ANDREW MANDYAM

Experience: <u>Enbridge Gas Distribution Inc.</u>

Director, Regulatory Affairs

2013

Senior Manager, Incentive Regulation Financial Planning

2013

Manager, Marketing and Energy Efficiency

2011

Manager, Demand Side Management and Portfolio

2010

Customer Information System Replacement Project Business Manager

2007 - 2009

Manager, Customer Care and Customer Information System Program Operations

2006

Manager, Information Technology Solutions and Support

2005

Senior Project Manager, Information Technology Solutions and Support

2003

Oracle Corporation

Practice Manager

1997 - 2003

Compaq Canada

Program Manager

1995 - 1997

Ontario Hydro

Associate Engineer

1990 - 1995

Education: B.A.Sc. Mechanical Engineering

University of Toronto

1990

/u

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 63 of 102

Memberships: Professional Engineers of Ontario Project Management Institute

Appearances: (Ontario Energy Board)

ÈB-2011-0354 EB-2011-0295 EB-2011-0277 EB-2010-0146 EB-2010-0175 EB-2010-0029 EB-2009-0172 EB-2006-0034

/u

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 64 of 102

CURRICULUM VITAE OF STEVE MCGILL

Experience: Enbridge Gas Distribution Inc.

Senior Manager, Customer Care, Finance, Contracts & Collections

2013

Manager, Customer Care Finance & Contracts

2012

Manager, Billing & Customer Systems

2005

Manager, Strategic Projects & Market Analysis

2003

Manager, Customer Support & Advocacy

2000

Manager, Customer Accounting Projects

1995

Manager, Large Volume Billing

1992

Manager, Industrial Sales, Metropolitan Toronto

1990

Manager, Rate & Contract Administration

1987

Rate Research Analyst

1985

Market Analyst

1981

Distribution Planner

1979

TransCanada Pipelines Limited

Junior Statistician

Junior Draftsman

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 65 of 102

Education: Bachelor of Arts (Honours Geography), University of Toronto, 1978

Miscellaneous short courses in Public Utility Management,

General Management, and Accounting

Other: Member of the Board of Directors and Treasurer of the Oshawa Ski Club

Appearances: (Ontario Energy Board)

EB-2012-0055
EB-2011-0354
EB-2011-0277
EB-2011-0226
EB-2006-0034
EB-2005-0001
RP-2003-0203
RP-2002-0133
RP-2001-0032
RP-2000-0040
RP-1999-0058
RP-1999-0001
EBRO 497-01
EBRO 497
EBRO 495

EBRO 487 EBO 179-14/15

EBRO 492 EBRO 490

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CURRICULUM VITAE OF DARREN MCILWRAITH

Experience: Enbridge Gas Distribution Inc.

Senior Manager, Business Development and DSM Technology

2009

Enbridge Solutions Inc.

Manager, Product Development

2006

Direct Energy Marketing Limited

Director, Customer Analytics

2004

Director, Financial Services

2002

Enbridge Commercial Services Inc.

Director, Financial Services

2001

Enbridge Gas Distribution Inc.

Manager, Budgets

2000

Supervisor, Budgets & Forecasts

1998

Economic Analyst

1996

Education: Master of Arts: Business Economics, Wilfrid Laurier University – 1996

Bachelor of Commerce, University of Guelph - 1994

Appearances: (Ontario Energy Board)

None

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CURRICULUM VITAE OF CHRIS MEYER

Experience: Enbridge Gas Distribution Inc.

Manager, External Communications

2011

Manager, Executive Communication Support

2008

Senior Communication Advisor

2001

Education: Strategic Communication Management Certificate

(Ithaca College), 2008

Bachelor of Applied Arts, Journalism

(Ryerson), 1990

Memberships: International Association of Business Communicators (Accredited)

Appearances: (Ontario Energy Board)

EB-2011-0354

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CURRICULUM VITAE OF BIJU MISRA

Experience: Enbridge Gas Distribution Inc.

Director Information Technology,

2013

Sr. Manager Business Applications,

2009

IT Solution & Support Manager, Information Technology,

2008

Sr. Project Manager, Information Technology,

2007

Project Manager, Information Technology,

2006

Education: Bachelor of Science, Electrical Engineering. Kansas State University

Certificate, Business Management Fundamentals. University of Toronto

Memberships: Project Management Institute (PMI)

Appearances: (Ontario Energy Board)

EB-2011-0354

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CURRICULUM VITAE OF DONALD RITCHIE (RITCH) MURRAY, PEng

Experience: Enbridge Gas Distribution Inc

Manager, Natural Gas for Transportation Business Development

Jan 2013 to present

Project Manager, LNG Business Development

Jan 2012 to Dec 2012

Project Manager, Engineering Major Works

Nov 2009 to Jan 2012

Project Manager, Engineering Standards and Technical Services

Jun 2008 to Nov 2009

Program Manager, Asset Management

Jun 2006 to Jun 2008

Field Manager, Quality Acceptance

Aug 2003 to Aug 2004

Engineering Project Leader

Jun 2000 to Aug 2003

Enbridge Gas New Brunswick Inc

Manager, Planning and Technical Services

Aug 2004 to Jun 2006

Education: Master of Business Administration

Ryerson University, 2008

Bachelor of Engineering (Mechanical)

Dalhousie University, 2000

Bachelor of Science (Biology) Acadia University, 1994

Memberships: Professional Engineers of Ontario

Professional Engineers and Geoscientists of New Brunswick

Appearances: Petitcodiac River Crossing Project, Leave to Construct Hearing, 2006

(New Brunswick Energy and Utilities Board)

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 70 of 102

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

Appearances: (Ontario Energy Board)

EB-2011-0354 EB-2006-0034

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 71 of 102

CURRICULUM VITAE OF ERIK NACZYNSKI, P.Eng

Experience: <u>Enbridge Gas Distribution Inc.</u>

Senior Manager, Asset Management Optimization

2014

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 /u

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 72 of 102

CURRICULUM VITAE OF FIONA OLIVER-GLASFORD

Experience: <u>Enbridge Gas Distribution Inc.</u>

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

Education: York University – Schulich School of Business

Masters of Business Administration

Western University - Huron College

Bachelor of Arts

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Memberships: None

Appearances: (Ontario Energy Board) None

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CURRICULUM VITAE OF EDWARD PHAGOO

Experience: Enbridge Gas Distribution Inc.

Manager – IT Solutions and Support

2010

Program manager

2009

Sr. Project Manager

2007

Rogers Communication Inc..

Sr. Project Manager

1990

Education: Bachelors of Science, Devry University

Memberships: Project Management Institute

Appearances: (Ontario Energy Board)

None

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 75 of 102

CURRICULUM VITAE OF BRAD S. PILON

Experience: <u>Enbridge Gas Distribution Inc.</u>

Manager, Finance and Administration

Gas Storage 2001-Present

Manager, Administration - Gas Storage

1991-2001

Tecumseh Storage Analyst

1988-1991

Manager, Marketing Studies

1986-1988

Financial Analyst, Exploration

1982-1986

Education: Executive Education Program for the Natural Gas Industry

University of Colorado

1990

Graduate Studies

Masters of Business Administration Program

University of Western Ontario

1979-1980

Bachelor of Arts, Economics University of Western Ontario

1979

Memberships: Ontario Petroleum Institute

Appearances: (Ontario Energy Board)

EB-2011-0354 RP-2003-0203 EBRO 466 EBRO 455

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 76 of 102

CURRICULUM VITAE OF SANDEE QIAN

Experience: Enbridge Gas Distribution Inc.

Ops Budget & Analysis Manager, Finance

2012

Manager Margin Budget & Analysis, Finance

2010

Manager Financial Analysis, Corporate Budget & Analysis

2008

Program Manager Capital Appropriation & Scorecard, Finance

2006

Senior Financial Analyst, Financial Assessment

2006

Financial Analyst, Financial Assessment

2004

Motorola (China) Electronics Ltd.

Senior Analyst

1995

Education: Certified Management Accountant (CMA), 2007

Master of Business Administration

York University, 2003

Bachelor of Engineering

Northwestern Polytechnic University, China

Memberships: The Society of Management Accountants Ontario

Appearances: (Ontario Energy Board)

EB-2011-0354

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CURRICULUM VITAE OF PETER RAPINI

Experience: <u>Enbridge Gas Distribution Inc.</u>

Sr Manager, Facilities Services

2010

Manager, IT Technical Services

2003

Enbridge Commercial Services

Manager, Computer Operations

2000

The Consumer Gas Company Limited

Manager Client Technology Management

1997

Supervisor Network Support

1992

Sr Coordinator Network - IS Analyst

1988

Coordinator Network

1984

Intermediate Operator

1982

Jr Operator

1981

Tape Librarian

1981

Education: Herzing College

Memberships: International Facility Management Association (IFMA)

 BOMA

Appearances: (Ontario Energy Board)

None

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 78 of 102

CURRICULUM VITAE OF BARRY REMINGTON

Experience: Enbridge Gas Distribution Inc.

Manager, Property Taxes Land Services Department

1990

Bell Canada

Manager, Property Valuation Property Tax Department

1978

Marathon Realty Company Limited

Property Tax Representative

1976

Ministry of Revenue - Assessment Division

Property Assessor

1973

Memberships: Canadian Property Tax Association, Inc. (CPTA)

(Past President of CPTA in 1996) Institute of Municipal Assessors

Institute for Professionals in Taxation (IPT)

Committee: CPTA Board of Directors – National Treasurer

CPTA Past Presidents Committee IPT Canadian Liaison Committee

Education: Assessment Administration Diploma

Loyalist College, 1973

Appearances: Assessment Review Board (ARB)

Assessment Appeal Tribunal for Property Assessment and Taxation

(Ontario Energy Board)

EB-2011-0354

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 79 of 102

CURRICULUM VITAE OF ROCCO RICCIO

Experience: Enbridge Gas Distribution Inc.

Lead, Facilities Services Governance

2011

Manager, Facilities Services

2006

Supervisor, Facilities Services

2003

Manager, Finance regulatory

2002

Manager, Capital Knowledge Centre

2000

Manager, Financial Statement Forecasts

1996

Manager, Budgets and Administration, Information Services

1993

Supervisor, Income and Cash Budgets

1986

Supervisor, Capital Budgets

1982

Accounting Trainee

1980

Education: Certified General Accountant

Certified General Accountants Association of Ontario, 1990

Accounting/Finance Diploma

Ryerson Polytechnical Institute, 1980

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 80 of 102

Appearances: (Ontario Energy Board) EB-2011-0277

RP-2002-0133 RP-2001-0032 RP-2000-0040 RP-1999-0001 EBRO 497 EBRO 495

Updated: 2014-02-19

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 81 of 102

CURRICULUM VITAE OF JAMES E. SANDERS, P.Eng.

Experience: Enbridge Gas Distribution

Vice President, Engineering and Integrity

2013

Director, Market and Business Development

2012

Director, Storage Operations

2008

Manager, Strategic Distribution Alliances

2006

Duke Energy Gas Transmission

Manager, Major Projects

2005

Union Gas Limited

Manager of Operations Support

2003

Manager Operation Engineering

2000

Manager of Business Development

1999

Manager of Operations and Construction

1993

Planning and Project Engineer

1989

Nuclear Activation Services Ltd.

Manager of Operations

1986

Education: McMaster University

Masters of Engineering and Public Policy

2010-2011

University of Waterloo

Bachelor of Applied Science, Civil Engineering

1981-1986

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Updated: 2014-02-19

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 82 of 102

Memberships: Professional Engineers of Ontario, 1988, 40537201

Appearances: (Ontario Energy Board)

EB-2011-0354 RP-2003-0063 E.B.A. 691 E.B.C. 206, E.B.A. 670 E.B.A. 700-708 E.B.C. 233-255 E.B.L.O. 253 E.B.C. 213 E.B.A. 687

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CURRICULUM VITAE OF HULYA SAYYAN

Experience: <u>Enbridge Gas Distribution Inc.</u>

Advisor, Economic & Market Analysis

2011

Senior Market Analyst

2007

Risk Software Technologies

Economic Specialist

2005

Marmara University

Assistant Professor, Econometrics Department

2002

Instructor, Econometrics Department

2001

Research Assistant, Econometrics Department

1994

Education: Ph.D. in Econometrics

Marmara University, 2000

Master of Science in Statistics Marmara University, 1995

Bachelor of Science in Statistics Mimar Sinan University, 1992

Memberships: Toronto Association for Business & Economics (CABE)

Appearances: (Ontario Energy Board)

EB-2011-0354 EB-2011-0277 EB-2010-0146

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 84 of 102

CURRICULUM VITAE OF JASON SHEM

Experience: Enbridge Gas Distribution Inc.

Senior Advisor, Financial Reporting

2012

Financial Analyst

2011

SF Partnership, LLP

Senior Accountant

2009

Ernst & Young

Senior Accountant

2008

Staff Accountant

2007

Education: Chartered Accountant (CA), 2010

Memberships: Institute of Chartered Accountants of Ontario

Appearances: (Ontario Energy Board)

None

Updated: 2014-02-19

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 85 of 102

CURRICULUM VITAE OF DONALD R. SMALL

Experience: <u>Enbridge Gas Distribution Inc.</u>

Senior Manager, Gas Supply

2013

Manager, Gas Costs and Budget

2010

Manager, Gas Cost Knowledge Centre

2003

Manager, Gas Costs and Budget

1989

Co-ordinator, Gas Costs

1984

Financial Statement Accountant

1980

Chief Clerk, Financial Statements

1979

Advanced Accounting Trainee

1978

Education: Business Administration Diploma

Ryerson Polytechnical Institute, 1978

Appearances: (Ontario Energy Board)

EB-2011-0354

EB-2011-0277

EB-2010-0146

EB-2009-0172

EB-2009-0055

EB-2008-0219

EB-2008-0106

EB-2006-0034

EB-2005-0001

RP-2003-0203

RP-2003-0048

RP-2002-0133

RP-2001-0032

RP-2000-0040 RP-1999-0001

/u

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EBRO 497 EBRO 495 EBRO 490 EBRO 487 EBRO 485 EBRO 479 EBRO 473 EBRO 465

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CURRICULUM VITAE OF RYAN SMALL

Experience: <u>Enbridge Gas Distribution Inc.</u>

Senior Analyst, Regulatory Accounting

2006

Analyst, Regulatory Accounting

2004

Supervisor, Gas Cost Reporting

2001

Senior O&M Clerk

2000

Bank Reconciliation Clerk

1999

Accounting Trainee

1998

Education: Certified Management Accountant,

The Society of Management Accountants of Ontario, 2003

Diploma in Accounting,

Wilfrid Laurier University, 1997

Bachelor of Arts in Economics

The University of Western Ontario, 1996

Appearances: (Ontario Energy Board)

EB-2012-0055 EB-2011-0354 EB-2011-0008

Updated: 2014-02-19

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CURRICULUM VITAE OF PATRICIA A. SQUIRES

Experience: Enbridge Gas Distribution

Director, Operations and Governance and Support Services

2013

Director, Strategy, Planning and Analytics

2011

Manager, Operations PMO

2011

Manager, Market Development

2008

Manager Mass Markets and New Construction Market Development

2006

Manager, Energy Technology

2004

Manager, DSM and Program Evaluation

2001

Manager, Planning and Evaluation

1998

Senior Evaluation and Market Planning Analyst

1997

Conservation Analyst

1994

Economic Researcher

1991

Research Assistant

1990

Education: Master in Business Administration (candidate)

Rotman School of Management, 2014

University of Toronto

Master in Environmental Studies

York University, 1996

Bachelor of Applied Arts (Applied Geography)

Ryerson Polytechnic University, 1990

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Certificate in Economic Analysis Ryerson Polytechnic University, 1990

(Ontario Energy Board) Appearances:

EB-2011-0354 EB-2010-0175 EB-2009-0172 EB-2009-0154 EB-2008-0150 EB-2006-0034 EB-2006-0021 RP-2003-0203 RP-2003-0048 RP-2002-0133 RP-2000-0040 RP-1999-0001

(Régie du Gaz Naturel) R-3355-96

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CURRICULUM VITAE OF MARGARITA SUAREZ-SHARMA

Experience: <u>Enbridge Gas Distribution Inc.</u>

Manager, Economic & Market Analysis

2012

Manager, Cost Allocation

2008

Manager, DSM Reporting & Analysis

2005

Analyst, Rate Design

2004

Senior Analyst, DSM Planning and Evaluation

2002

Senior Economic Analyst, Economic & Financial Studies

1998

The Canadian Institute

Conference Producer

1997

Margaret Chase Smith Center for Public Policy

Research Assistant

1995

Education: Master of Arts in Economics

University of Maine, 1995

Bachelor of Arts in Economics University of Maine, 1993

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Appearances: (ONTARIO ENERGY BOARD)

EB-2011-0354 EB-2011-0277 EB-2010-0146 EB-2009-0172 EB-2008-0219 EB-2008-0106

(RÉGIE DE L'ÉNERGIE)

R-3758-2011 R-3724-2010 R-3692-2009 R-3665-2008

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CURRICULUM VITAE OF STEFAN SURDU

Experience: Enbridge Gas Distribution Inc.

Sr. Engineering Manager, Measurement & Regulation, Technology and Customer Safety

Since 2012

Manager, Special Projects and Distribution Technology

2011-2012

Sales Manager, Commercial Markets

2006 - 2011

Program Manager, Energy Technology

2006

Program Manager, Business Markets

2005 - 2006

Energy Solutions Consultant

2003 - 2005

Finn Projects Inc.

Project/Energy Engineer

2002 - 2003

Alfa Laval AB, Europe Central-East

Regional Sales Manager

2000-2001

Applications Engineer

1998-1999

National R&D Institute for Turbo-Engines, Romania

New Product Development Engineer

1997-1998

Education: M.Eng., Mechanical Engineering, Thermo-Mechanics of Machinery

Polytechnic University of Bucharest, Romania

1998

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B.Eng., Mechanical Engineering Polytechnic University of Bucharest, Romania 1997

Memberships: Professional Engineers Ontario

(Ontario Energy Board) EB-2011-0295 Appearances:

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CURRICULUM VITAE OF NICK THALASSINOS

Experience: <u>Enbridge Gas Distribution Inc.</u>

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

Education: Professional Engineer, 1991

B.A.Sc. (Mechanical)

University of Waterloo, 1989

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 95 of 102

Memberships: Ontario Society of Professional Engineers

CSA Z662 Technical Committee

Appearances: (Ontario Energy Board) EB-2012-0451

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CURRICULUM VITAE OF MICHELLE TIAN

Experience: Enbridge Gas Distribution Inc.

Manager Operations Reporting

2013

Senior Financial Analyst, Operations Business Support

2010

Senior Financial Analyst, Corporate Budgets

2007

Evergreen

Accounting & Human Resources Coordinator

2006

Education: Certified Management Accountant, 2008

Honours Bachelor of Commerce, Queen's University, 2006

Memberships: The Society of Management Accountants Ontario

Appearances: (Ontario Energy Board)

None

Updated: 2014-02-19

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CURRICULUM VITAE OF CHRIS TOMAN

Experience: Enbridge Gas Distribution Inc.

Senior Manager, Operations Systems

2013

Sr. Manager Direct Purchase – Customer Care

2013

Sr. Manager Customer Systems – Customer Care

2009

Solution Manager CIS Project - Customer Care

2007

Manager Strategic Planning - Opportunity Development

2005

Business Systems Manager - Solutions Delivery Group

2004

Business Program Manager – Process and Projects

2001

Business Systems Manager - Transportation Contracting

2000

Analyst System Support & Development - Contract Support & Compliance

1997

Supervisor Market Systems - Market Planning & Evaluation

1994

Control Clerk LVB Systems - Key Account Services

1991

Clerk - Records & Stationery

1989

Education: Business Administration Diploma

Project Management Professional (PMP)

Memberships: Project Management Institute

Appearances: (Ontario Energy Board)

None

Updated: 2014-02-19

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CURRICULUM VITAE OF MINA TORRIANO

Experience: Enbridge Gas Distribution Inc.

Senior Manager, Operational Finance

2014

Manager, Operational Finance

2013

Manager, Business Support

2010

Manager, Operations Accounting

2006

Manager, Financial Asset Management

2005

Supervisor Asset Reporting and Analysis

2000

The Consumers Gas Company Ltd

Assistant Plant Accountant

1996

Systems Coordinator

1992

Plant Accounting Clerk

1987

Education: Accounting Degree – Humber College of Applied Arts & Technology

Appearances: (Ontario Energy Board)

EB-2011-0354

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 99 of 102

CURRICULUM VITAE OF SHEILA TROZZI

Experience: <u>Enbridge Gas Distribution Inc.</u>

Sr. Manager Human Resources Business Support

2010

Human Resources Business Partner

2004

Human Resources Consultant

1998

Employee Relations Representative

1989

Human Resources Records Clerk

1980

Billing Clerk

1976

Education: Certified Human Resources Professional (CHRP 1993)

Memberships: Human Resources Professional Association

Appearances: (Ontario Energy Board)

EB-2011-0354

Updated: 2014-02-19

EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 100 of 102

CURRICULUM VITAE OF MICHAEL WAGLE

Experience: <u>Enbridge Gas Distribution Inc.</u>

Director, Network Operations

2013

Director, Operations

2013

Operations Manager, Toronto Region,

2011

Operations Manager, Central Region

2008

Technical Services Manager, Eastern Region

2005

Field Management Manager, EnVision Project

2003

Operations Supervisor, Toronto Region

2002

Construction Supervisor, Central Region

2002

Engineering Project Leader

2000

Pipeline Design and Analysis Supervisor, Eastern Region

1998

Education: Carleton University

Bachelor of Mechanical Engineering, 1998

Memberships: Professional Engineers of Ontario

Appearances: (Ontario Energy Board)

EB-2011-0354

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CURRICULUM VITAE OF BARRY C. YUZWA

Experience: <u>Enbridge Gas Distribution Inc.</u>

Controller 2011

Director, Finance & Control

2010

Enbridge Inc.

Senior Director, Chief Audit Executive Audit Services & Internal Controls

2007

Director, Audit Services

1999

Safeway Inc./Canada Safeway Limited

Manager, Corporate Audit Services

1991

Deloitte & Touche

Audit Manager

1987

Education: Certified Internal Auditor

Institute of Internal Auditors

2003

Chartered Accountant

Canadian Institute of Chartered Accountants

1986

Bachelor of Commerce-Accounting

University of Calgary

1983

Filed: 2013-06-28 EB-2012-0459 Exhibit A1 Tab 6 Schedule 1 Page 102 of 102

Memberships: Canadian Institute of Chartered Accountants

Institute of Chartered Accountants of Alberta Institute of Chartered Accountants of Ontario

Institute of Internal Auditors

Financial Executives International, Canada

Corporate Executive Board, Audit Directors and Risk Management

Advisory Council

University of Calgary, Haskayne School of Business,

Mentorship Program

Enbridge Inc. Mentorship Program

Appearances: (Ontario Energy Board)

EB-2012-0055 EB-2011-0354 EB-2011-0277 EB-2011-0008

Filed: 2013-12-11 EB-2012-459 Exhibit A1 Tab 6 Schedule 2 Page 1 of 7

CURRICULUM VITAE OF IRENE CHAN

Experience: Enbridge Gas Distribution

Senior Manager, Productivity and Business Analytics

2013

Manager, Gas Accounting and Analytics

2012

Manager, Margin Accounting, and Gas Analytics

2011

Manager, Margin Accounting, Business Performance and Analytics

2010

Manager, Margin Budgets and Accounting

2007

Manager, Margin Planning and Analysis

2006

Manager, Volumetric Analysis and Budgets

2003

Supervisor, Volumetric Analysis

2001

Senior Analyst, Volumes Knowledge Centre

2000

Economic Analyst, Economic Studies

1998

Queen's University

Instructor, Economics Department

1997

Research/Teaching Assistant, Economics Department

1992-1997

International Monetary Fund

Summer Intern, Research Department

1996

Consultant, Research Department

1994

Filed: 2013-12-11 EB-2012-459 Exhibit A1 Tab 6 Schedule 2 Page 2 of 7

Bank of Canada

Research Assistant, Research Department

1991

Education: Certified Management Accountant,

The Society of Management Accountants of Canada, 2006

Ph.D. in Economics Queen's University, 1998

Master of Arts in Economics Queen's University, 1993

Bachelor of Arts (Honours) in Economics University of Western Ontario, 1991

Memberships: Toronto Association for Business & Economics

The Society of Management Accountants of Canada

Appearances: (Ontario Energy Board)

EB-2012-0055 EB-2011-0354 EB-2011-0008 EB-2010-0042 EB-2009-0172 EB-2009-0055 EB-2008-0219 EB-2007-0615 EB-2006-0034 EB-2005-0001 RP-2003-0203 RP-2002-0133

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CURRICULUM VITAE OF CATHY EGAN

Experience: <u>Enbridge Gas Distribution Inc.</u>

Director of System Measurement, Quality & Training

2013

Director of Safety

2012

Director of Safety & Training

2010

General Manager, Niagara Region

2008

President & General Manager, St. Lawrence Gas

2006

Group Manager, Work Management Centre

2005

Manager, New Construction & Mass Markets

2002

Manager, Mass Markets

2001

Market Sector Manager

1999

Group Manager Energy Efficiency Programs

1998

Manager, Distribution Expansion CR & NR

1997

Manager, Customer Attachment

1995

Manager, Metro Call Distribution Center

1994

Senior Supervisor Customer Inquiry

1991

Supervisor, Customer Service

1990

Representative, Telephone Service

1990

Filed: 2013-12-11 EB-2012-459 Exhibit A1 Tab 6 Schedule 2 Page 4 of 7

Operator, Telephone Service

1987

Clerk, Telephone Contact

1986

Education: M.B.A., Clarkson University, Pottsdam, New York

Degree Business, Ryerson University, Toronto

Memberships: Board member of the HRAC Toronto Chapter

Board member of the United Way of St. Catharines and EnerQuality Corporation

Board member of Habitat for Humanity, Toronto

Appearances: (Ontario Energy Board)

None

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CURRICULUM VITAE OF CATHERINE HO, CPA, CA

Experience: <u>Enbridge Gas Distribution Inc.</u>

Manager, Accounting

2012

Manager, Gas Accounting

2012

Manager, Finance Projects

2008

Senior Audit Advisor

2005

Ernst & Young LLP

Senior Staff Accountant

2004

Horwath Orenstein LLP

Staff Accountant

2002

Goldfarb, Shulman, Patel & Co. LLP

Staff Accountant

2000

Education: Chartered Accountant, 2005

Certified Public Accountant - Delaware, 2004

University of Waterloo - Waterloo ON

- Master of Accounting (MAcc), 2003
- Bachelor of Arts Honours Chartered Accountancy Studies Co-operative program (Dean's Honours List), 2002

Memberships: Institute of Chartered Accountants of Ontario (ICAO)

Appearances: (Ontario Energy Board)

EB-2013-0046

Filed: 2013-12-11 EB-2012-459 Exhibit A1 Tab 6 Schedule 2 Page 6 of 7

CURRICULUM VITAE OF TREVOR W. TUCK

Experience: Enbridge Gas Distribution Inc.

Director, Distribution Protection

2013

Manager, Operations Central Region East

2011

Manager, Work Management Centre Operations

2008

Manager, Engineer Capital Projects ESTS

2007

Manager, Special Projects ESTS

2006

Manager, Engineering Special Projects

2005

Project Manager, Engineering

2004

Project Engineer, Industrial Thermo Polymer Inc.

2002

Project Engineer, Applied Materials Japan Inc.

2001

Instructor, Aeon Inc.

2000

Mechanical Designer, Silex Inc.

1999

Mechanical Designer, Samuel Acme Inc.

1998

Education: Masters of Business Administration, Finance

Schulich School of Business, York University, 2006

Bachelor of Applied Science, Mechanical Engineering

University of Windsor 1998

Memberships: Professional Engineers Ontario

Appearances: (Ontario Energy Board)

EB-2006-0034

Updated: 2014-02-19

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CURRICULUM VITAE OF THO VUONG, P.Eng.

Experience: <u>Enbridge Gas Distribution Inc.</u>

Manager, Process Safety

2014

Manager, System Measurement

2011

Construction Manager, Central Region West

2008

Manager, Work Management Centre

2006

Project Manager, FieldVision

2004

Manager, Joint Utility Construction

2002

Project Leader, Engineering

2000

Supervisor, Special Projects

1999

Supervisor, Planning and Technical Services

1998

Supervisor, Construction and Maintenance

1997

Pipeline Inspector, Construction

1995

Education: Professional Engineer (P.Eng.), 1997

B.A.Sc., University of Waterloo, 1995

Memberships: Professional Engineers Ontario

Appearances: (Ontario Energy Board)

None

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LARRY E. KENNEDY

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TECHNICAL SPECIALTIES

Public Utility Plant Depreciation Public Utility Plant Accounting

PERSONAL INFORMATION

Diploma, Applied Arts - Business Administration, Northern Alberta Institute of Technology, 1978 Member, Society of Depreciation Professionals Certified Depreciation Professional

EXPERIENCE

Mr. Kennedy joined Gannett Fleming, Inc. in January 1999 and is a Vice President of Gannett Fleming Canada ULC. His responsibilities include the assembly of data, the preparation and review of depreciation studies, advice to clients regarding asset retirement obligation accounting, plant accounting issues, and provision of general regulatory litigation support.

Representative assignments include:

- International Financial Reporting Standards (IFRS). Mr. Kennedy has been retained by numerous clients encompassing most Canadian Provinces and Territories. The assignments included the review of company's assets and depreciation practices to provide opinion on the compliance to the IFRS. The assignments have also included the issuance of opinion to the External Auditors of Utilities to comment on the manner in which the Utilities can minimize differences in the regulatory ledgers and the accounting records used for financial disclosure purposes. Mr. Kennedy has also presented to the Canadian Electric Association, the Society of Depreciation Professionals and to the British Columbia Utilities Commission on this topic.
- Fortis Inc. Studies have included the development of annual and accrued depreciation rates for the electric distribution assets in Alberta and for the generation, transmission, and distribution assets in British Columbia. The FortisBC Inc. studies were completed and filed with the BCUC in 2005, 2010 and 2011 encompassing both the FortisBC electric and natural gas companies. FortisAlberta studies were completed in 2004 (updated in 2005), 2009 and 2010. Elements of the studies included the development of average service lives using the retirement rate method of analysis, development of net salvage estimates, compliance with IFRS, and the determination of appropriate annual accrual and accrued depreciation rates.
- <u>BC Hydro</u>. This assignment included the development of an average service life study for all of the BC Hydro's electric generation, transmission, distribution and general plant assets. The study, which was prepared for submission to the British Columbia Utilities Commission ("BCUC), included development of depreciation policy for the company, development of procedures to extract data from the company databases, tours of the company facilities, interviews with operational and management representatives, and the compilation of a detailed report. The assignment has included the support of the study through the regulatory process. Mr. Kennedy has also completed a review of the cost allocation procedures and practices which was filed with the BCUC in 2010.

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- AltaLink LP. A study was developed for submission to the Alberta Utilities Commission ("AUC") in 2002. The study included the estimation of service life characteristics, and the estimation of net salvage requirements for all electric transmission assets. A net salvage study and technical update was also filed with the Board in 2004. Since 2004 additional depreciation studies were filed in 2005, 2010 and 2012.
- Newfoundland and Labrador Hydro. Mr. Kennedy developed a comprehensive depreciation study that included the development of depreciation policy and rates for Newfoundland and Labrador Hydro. The study provided a significant review of the previous depreciation policy, which included use of a sinking fund depreciation method and provided justification for the conversation to the straight-line depreciation method. The study, which was prepared for submission to the Newfoundland and Labrador Utilities Commission, included a significant amount of discussion regarding the development of depreciation policy for the company. The study also included development of procedures to extract data from the company databases, tours of the company facilities, interviews with operational and management representatives, development of appropriate net salvage rates, development of average service life estimates, and the compilation of the report for submission in a General Tariff Application. Additional studies were also completed in 2008 and 2010. The 2010 study was the subject of Regulatory Review in 2012.
- ATCO Electric. Studies have included the development of annual and accrued depreciation rates for the electric transmission and distribution systems for the Alberta Assets of ATCO Electric, in addition to the generation, transmission, and distribution assets of Northland Utilities (NWT) Inc. and the distribution assets of Northland Utilities (Yellowknife) Inc. The ATCO Electric studies were submitted to the AUC for review, while the Northland Utilities Inc. studies were submitted to the Northwest Territories Utilities Board and Yukon Electric Company Limited (YECL) was submitted to Yukon Public Utilities Board. Elements of the studies included the service life analysis for all accounts using the retirement rate analysis, discussion with management regarding outlook, and the estimation of net salvage requirements.
- ENMAX Power Corporation. Studies have included the development of annual and accrued depreciation rates for all depreciable electric transmission assets. Elements of the studies included the service life analysis for all accounts using the retirement rate analysis, discussion with management regarding outlook, and the estimation of net salvage requirements. Studies were prepared for submission to the Alberta Department of Energy and more recently for submission to the Alberta Energy and Utilities Board. Similar studies have also been completed for submission for the ENMAX Electric Distribution assets for submission to the AUC. The ENMAX distribution asset assignments also included an extensive asset verification project where the plant accounting and operational asset records were verified to the field assets actually in service.
- Manitoba Hydro. A study was developed to determine the appropriate depreciation parameters for all electric generation, transmission and distribution assets. The study was submitted to the Manitoba Public Utilities Board. Elements of the study included a field review of electric generation and transmission plant, the service life analysis for all accounts using the retirement rate analysis, discussion with management regarding outlook, and the estimation of net salvage requirements. A similar study was also completed in 2006. Mr. Kennedy has also consulted with Manitoba Hydro on issues regarding IFRS compliance and required componentization.

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- Centra Gas Manitoba, Inc. The study included development of annual and accrued depreciation rates for all gas plant in service. Elements of the study included a field inspection of metering and compression facilities, service buildings and other gas plant; service life analysis for all accounts using the retirement rate analysis on a combined database developed from actuarial data and data developed through the computed method; discussions with management regarding outlook; and the estimation of net salvage requirements. A similar study was completed in 2006. Mr. Kennedy has also consulted on issues regarding IFRS compliance and required componentization.
- TransCanada PipeLines Limited Alberta Facilities. The assignment included working with the company to develop the appropriate depreciation policy to align with the organization's overall goals and objectives. The resulting depreciation study, which was submitted to the Alberta Energy and Utilities Board, incorporated the concepts of time-based depreciation for gas transmission accounts and unit based depreciation for gathering facilities. The data was assembled from two different accounting systems and statistical analysis of service life and net salvage were preformed. For gathering accounts, the assignment included the oversight of the development of appropriate gas production and ultimate gas potential studies for specific areas of gas supply. Field inspections of gas compression, metering and regulating, and service operations were conducted. Studies were completed in 2002 and 2004, 2007, 2009 and 2012.
- TransCanada PipeLines Limited Mainline Facilities. The study prepared for submission to the National Energy Board of Canada ("NEB") included the development of annual and accrued depreciation rates for gas transmission plant east of the Alberta Saskatchewan border. Elements of the study included a field inspection of compression and metering facilities, service life and net salvage analysis for all accounts. The study was completed in 2002, and was supported through an appearance before the NEB. Study updates have been completed in 2005, 2007, 2009 and an additional full and comprehensive study has been submitted to the NEB for review in 2011.
- AltaGas Utilities Inc. A number of depreciation studies have been completed, which included the
 assembly of basic data from the Company's accounting systems, statistical analysis of retirements
 for service life and net salvage indications, discussions with management regarding the outlook for
 property, and the calculations of annual and accrued depreciation. The studies were prepared for
 submission to the Alberta Energy and Utilities Board.
- Mackenzie Valley Pipeline Project. This assignment included the review of the proposed depreciation schedule for the proposed Mackenzie Valley Pipeline. The review included a discussion of the policies used by the company and the depreciation concepts to be included in a depreciation schedule for a Greenfield pipeline. The review was supported through appearance at the oral public hearings before the National Energy Board of Canada.
- Alberta Municipal Affairs. The first assignment was conducted in two phases. The first phase involved significant consultation with the Alberta Department of Municipal Affairs and various stakeholder groups to develop a report outlining the method of depreciation that would most appropriately result in a fair market value assignment for the Province's oil and gas pipelines, and for all segments of the electric industry (generation, transmission and distribution). The second phase of the project was to develop specific depreciation schedules to implement the recommendations that were accepted by Alberta Municipal Affairs for the oil and gas pipelines, as well as for all three aspects of the Province's electric industry. A second assignment related to developing models for the determination of the fair assessment value for the Province's Telecommunication and Railway Systems was completed in 2004, and was updated in 2005 and 2006.



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LARRY E. KENNEDY

- <u>Property Tax Appeals.</u> Mr. Kennedy has provided expert evidence regarding the fair market valuation for a number of clients before the Alberta Municipal government Board.
- The City of Calgary. These assignments consisted of providing advice and testimony for the City of
 Calgary on depreciation issues in various general rate applications. Elements of these assignments
 include the review of applicant evidence and policies, development of information requests,
 submission of evidence, response to information requests, and providing expert testimony.

Mr. Kennedy has successfully completed the series of week-long programs offered by Depreciation Programs, Inc. and is a past president of the Society of Depreciation Professionals.

Mr. Kennedy has appeared as an expert witness before various regulatory boards as summarized in the attached "Summary of Appearances".

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		LARRY E. KENNEDY		
SUM	SUMMARY OF CASES WHERE EVIDENC	E WAS PROVIDED BUT APPEA	CASES WHERE EVIDENCE WAS PROVIDED BUT APPEARANCES WERE NOT REQUIRED	
Year	Client	<u>Applicant</u>	Regulatory Board	Proceeding Number
2000	AltaGas Utilities Inc.	AltaGas Utilities Inc	Alberta Energy and Utilities Board	Decision 2002-43
2001	ENMAX Power Corporation	ENMAX Power Corporation – Electric Transmission Assets	Alberta Department of Energy	N/A
2002	Centra Gas British Columbia	Centra Gas British Columbia	British Columbia Utilities Commission	N/A
2002	ENMAX Power Corporation	ENMAX Power Corporation – Electric Transmission Assets	Alberta Department of Energy	N/A
2003	Centra Gas Manitoba	Centra Gas Manitoba	Manitoba Public Utilities Board	N/A
2003	Manitoba Hydro	Manitoba Hydro	Manitoba Public Utilities Board	N/A
2003	City of Calgary	ATCO Pipelines	Alberta Energy and Utilities Board	1292783
2003	City of Calgary	ATCO Electric –ISO Issues	Alberta Energy and Utilities Board	N/A
2004	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Energy and Utilities Board	1305995
2005	Yukon Energy Corporation	Yukon Energy Corporation	Yukon Utilities Board	N/A
2005	NOVA Gas Transmission Ltd.	NOVA Gas Transmission Ltd.	Alberta Energy and Utilities Board	1375375
2005	Fortis Alberta Inc.	Fortis Alberta Inc.	Alberta Energy and Utilities Board	1371998
2005	ATCO Electric	ATCO Electric	Alberta Energy and Utilities Board	1399997
2005	The City of Red Deer	The City of Red Deer Electric System	Alberta Energy and Utilities Board	1402729
2005	Northland Utilities (Yellowknife) Inc.	Northland Utilities (Yellowknife) Inc.	Northwest Territories Utilities Board	N/A
2005	Northland Utilities (NWT) Inc.	Northland Utilities (NWT) Inc	Northwest Territories Utilities Board	N/A
2005	ENMAX Power Corporation	ENMAX Power Corporation- Transmission Assets	Alberta Energy and Utilities Board	N/A
2005	FortisBC, Inc	FortisBC, Inc	British Columbia Utilities Commission	N/A
2005	New Brunswick Board of Commissioners of Public Utilities	New Brunswick Power Distribution and Customer Service Company	New Brunswick Board of Commissioners of Public Utilities	N/A
2005	British Columbia Transmission Corporation	British Columbia Transmission Corporation	British Columbia Utilities Commission	N/A
2005	Manitoba Hydro	Manitoba Hydro	Manitoba Public Utilities Board	N/A
2005	Centra Gas Manitoba	Centra Gas Manitoba	Manitoba Public Utilities Board	N/A
2005	FortisAlberta Inc.	Fortis Alberta Inc.	Alberta Energy and Utilities Board	N/A
2006	BC Hydro	BC Hydro	British Columbia Utilities Commission	N/A
2007	Enbridge Pipelines Limited	Enbridge Pipelines Limited	National Energy Board of Canada	RH-2-2007
2007	FortisAlberta Inc.	Fortis Alberta Inc.	Alberta Energy and Utilities Board	1514140
2007	Kinder Morgan	Terasen (Jet fuel) Pipeline Limited	British Columbia Utilities Commission	N/A

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		LARRY E. KENNEDY		
SUM	SUMMARY OF CASES WHERE EVIDENC	E WAS PROVIDED BUT APPEA	CASES WHERE EVIDENCE WAS PROVIDED BUT APPEARANCES WERE NOT REQUIRED	
<u>Year</u>	Client	<u>Applicant</u>	Regulatory Board	Proceeding Number
2008	ATCOGas	ATCOGas	Alberta Utilities Commission	1553052
2008	Heritage Gas	Heritage Gas Ltd.	Nova Scotia Utility and Review Board	N/A
2008	ENMAX Power Corporation	ENMAX Power Corporation	Alberta Utilities Commission	1512089
2008	City of Lethbridge Electric System	City of Lethbridge	Alberta Utilities Commission	N/A
2009	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Utilities Commission	N/A
2010	Enbridge Pipelines Limited - Line 9	Enbridge Pipelines Limited - Line 9	National Energy Board of Canada	N/A
2010	Kinder Morgan	Kinder Morgan	National Energy Board of Canada	N/A
2010	Pacific Northern Gas	Pacific Northern Gas	British Columbia Utilities Commission	N/A
2011	SaskPower	SaskPower	Internal Review Committee	WA
2011	FortisAlberta Inc.	Fortis Alberta, Inc.	Alberta Utilities Commission	1607159
2011	Qulliq	Qulliq	Utilities Rates Review Council	N/A
2011	Heritage Gas Ltd.	Heritage Gas Ltd.	Nova Scotia Utility and Review Board	N/A
2011	ATCO Electric	Northland Utilities (NWT) Inc.	Northwest Territories Utlilty Board	N/A
2012	Newfoundland and Labrador Hydro	Newfoundland and Labrador Hydro	Newfoundland and Labrador Board of Commissioners of Public Utilities	N/A
2012	City of Red Deer	City of Red Deer	Alberta Utilities Commission	1608641
2012	Enbridge Gas Distribution Inc.	Enbridge Gas Distribution Inc.	Ontario Energy Board	EB 2011-0345
2012	Northwest Territories Power Corporation	Northwest Territories Power Corporation	Northwest Territories Public Utilities Board	N/A

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Exhibit A1

		LARRY E. KENNEDY		
	SUMMARY OF API	OF APPEARANCES BEFORE REGULATORY BOARDS	TORY BOARDS	
Year	Client	Applicant	Regulatory Board	Proceeding Number
1999	ENMAX Corporation	Edmonton Power Corporation	Alberta Energy and Utilities Board	980550
2001	City of Calgary	ATCO Pipelines South	Alberta Energy and Utilities Board	2000-365
2001	City of Calgary	ATCO Gas South	Alberta Energy and Utilities Board	2000-350
2001	City of Calgary	ATCO Affiliate Proceeding	Alberta Energy and Utilities Board	1237673
2003	AltaLink Management Ltd	AltaLink Management Ltd	Alberta Energy and Utilities Board	1279345
2003	TransCanada PipeLines Limited	TransCanada PipeLines Limited	National Energy Board of Canada	RH-1-2002
2003	City of Calgary	ATCO Gas	Alberta Energy and Utilities Board	1275466
2003	City of Calgary	ATCO Electric	Alberta Energy and Utilities Board	1275494
2004	NOVA Gas Transmission Limited	NOVA Gas Transmission Limited	Alberta Energy and Utilities Board	1315423
2004	ENMAX Power Corporation	ENMAX Power Corporation	Alberta Energy and Utilities Board	1306819
2004	Westridge Utilities Inc	Westridge Utilities Inc.	Alberta Energy and Utilities Board	1279926
2004	Heritage Gas Ltd.	Heritage Gas Ltd.	Nova Scotia Utility and Review Board	N/A
2004	Central Alberta Midstream	Central Alberta Midstream	Municipal Government Board of Alberta	N/A
2004	AltaLink LP	AltaLink LP	Alberta Energy and Utilities Board	1336421
2004	Central Alberta Midstream	Central Alberta Midstream	Municipal Government Board of Alberta	N/A
2005	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Energy and Utilities Board	1378000
2005	ATCO Power	ATCO Power	Municipal Government Board of Alberta	N/A
2005	ENMAX Power Corporation	ENMAX Power Corporation- Distribution Assets	Alberta Energy and Utilities Board	1380613
2006	AltaLink LP	AltaLink LP	Alberta Energy and Utilities Board	1456797
2006	Imperial Oil Resources Ventures Limited	McKenzie Valley Pipeline Project	National Energy Board of Canada	GH-1-2004
2008	ATCO Electric	Yukon Electrical Company Limited	Yukon Utilities Board	N/A
2009	Fortis Alberta Inc.	Fortis Alberta, Inc.	Alberta Utilities Commission	1605170 JJ C
2010	Gazifere	Gazifere	La Regie de L'Energie	B 6 C P C P C P C P C P C P C P C P C P C
				Tab 6 dule 6 7 of 8

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		LARRY E. KENNEDY		
	SUMMARY OF APF	SUMMARY OF APPEARANCES BEFORE REGULATORY BOARDS	TORY BOARDS	
Year	Client	<u>Applicant</u>	Regulatory Board	Proceeding Number
2010	ATCO Electric	ATCO Electric	Alberta Utilities Commission	1606228
2011	ATCO Gas	ATCO Gas	Alberta Utilities Commission	1606822
2011	Gaz Metro	Gaz Metro	La Regie de L'Energie	R-3752-2011
2011	AltaGas Utilities Inc.	AltaGas Utilities Inc.	Alberta Utilities Commission	1606694
2011	AltaLink	AltaLink	Alberta Utilities Commission	1606895
2011	FortisBC Energy, Inc.	FortisBC Energy, Inc.	British Columbia Utilities Commission	3698627
2011	TransAlta Utilities Corpotration	TransAlta Utilities Corpotration	Municipal Government Board of Alberta	N/A
2012	FortisBC, Inc.	FortisBC, Inc.	British Columbia Utilities Commission	3698620
2012	TransCanada PipeLines Limited	TransCanada PipeLines Limited	National Energy Board of Canada	RH-003-2011
2012	Manitoba Hydro	Manitoba Hydro	Maniitoba Public Utilities Board	2013/2013 GRA
2013	IntraGaz Incorporated	IntraGaz Incorporated	La Regie de L'Energie	R-3807-2012
2013	AtaLink LP	AltaLink LP	Alberta Utilities Commission	1608711
2013	Yukon Electrical Company Limited (YECL)	Yukon Electrical Company Limited (YECL)	Yukon Utilities Board	Appearance Pending
2013	ENMAX Power Corporation	ENMAX Power Corporation	Alberta Utilities Commission	Appearance Pending
2013	Enbridge Gas Distribution	Enbridge Gas Distribution	Ontario Energy Board	Appearance Pending

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CAPITAL BUSINESS AREA: FACILITIES AND GENERAL PLANT (2014 – 2016)

1. The purpose of this evidence is to present the Facilities and General Plant capital expenditures budget for the 2014, 2015 and 2016 forecast period. Facilities and General Plant expenditures relate to Facilities Services and Fleet & Equipment. This exhibit provides the Ontario Energy Board (the "Board") with a detailed breakdown and explanation of the various categories of capital expenditure spends and justification for planned major projects over \$2 million.

Role of Facilities Services and Fleet & Equipment

- 2. The Facilities Services department manages all Enbridge Gas Distribution Inc. ("Enbridge", or the "Company") facilities (currently 20 properties, 11 owned and 9 leased, totaling 818,000 square feet) ensuring that appropriate facilities and workspace is available to support and respond to the operational requirements of the Company and provides 24/365 response to all building emergencies. The department is responsible for the planning and utilization of buildings to provide a safe and healthy work environment for all building occupants while optimizing the use of and efficiency of all facilities and ensuring adherence to building codes and by-laws, fire codes, and environmental regulations.
- 3. Facilities Services conducts strategic property planning, acquisition and disposal of properties, lease administration, asset management and internal project management of all reconfiguration, relocation, renovation and construction projects. The daily operation of buildings and grounds entails the maintenance and upgrade of building systems, energy management initiatives, premise security, life safety systems, business continuity planning, mail and delivery and housekeeping services.

Witnesses: D. Lapp

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- 4. The Fleet & Equipment group has the overall responsibility for the administration, operation and maintenance of the utility fleet including cars and trucks, utility trucks and service vans. In addition, this group administers and maintains the heavy equipment employed such as backhoes, lifting equipment and welding machines. This group also maintains the smaller tools utilized by the Company including jackhammers and drills.
- 5. The Fleet & Equipment group manages the purchase and acquisition of all transportation equipment, including light duty and medium duty vehicles required for the safe and reliable operation of the utility. It also includes the purchase and acquisition of all heavy work equipment and small tools. Included with the capital associated with transportation equipment are the capital costs associated with converting and operating the fleet using compressed natural gas for fuel (NGV).

Capital Budget for Facilities and General Plant

6. Table 1 provides a summary of forecast capital expenditures by plant account for Facilities and General Plant for the 2013 to 2016 forecast period.

Table 1

	(\$000)	Col. 1	Col. 2	Col. 3	Col. 4
Item		Estimate	Budget	Budget	Budget
<u>No.</u>		<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
1.1	Structures and Improvements	6,865	8,000	8,100	6,500
1.2	Leasehold Improvements	558	4,920	3,120	270
1.3	Office Furniture and Equipment	1,932	4,630	4,680	4,380
1.4	Fleet & Equipment	<u>6,310</u>	<u>6,064</u>	<u>6,129</u>	<u>6,143</u>
1.	Total	<u>15,665</u>	<u>23,614</u>	<u>22,029</u>	<u>17.293</u>

Witnesses: D. Lapp

Corrected: 2014-02-19

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7. Table 2 provides a detailed breakdown of Facilities and General Plant capital expenditures into categories of spend and major projects over \$2 million for the 2014 to 2016 forecast period.

Table 2

	(\$000)	Col. 1	Col. 2	Col. 3	Col. 4
Item No.		Estimate 2013	Budget 2014	Budget 2015	Budget 2016
	Categories of Spend:				
1.1	New Workspace and Alterations	3,208	3,745	2,685	2,810
1.2	Building Improvements and Upgrades	4,215	5,625	3,435	3,960
1.3	Office Furniture and Equipment	1,932	4,630	4,680	4,380
1.4	Light & Medium Duty Transportation Equipment	3,260	3,080	3,080	3,080
1.5	Heavy Work Equipment	815	770	770	770
1.6	Small Tools & Equipment	1,618	1,575	1,575	1,575
1.7	NGV Equipment	<u>617</u>	<u>639</u>	<u>703</u>	<u>719</u>
1.	Sub-Total	15,665	20,064	16,929	17,293
	Projects over \$2 million:				
2.	Relocation of the Meter Shop to a Leased Property	0	3,550	0	0
3.	Convert Vacated Space at VPC into Offices	0	0	2,100	0
4.	Relocation of Fleet Garage to a Leased Property	0	0	3,000	0
5.	Total	<u>15,665</u>	23,614	22,029	<u>17.293</u>

- 8. A description of the items addressed within each of the categories of spends identified are as follows:
 - a. New Workspace and Alterations. This category includes capital expenditures required to build new offices, conference rooms and common areas as well as industrial workspace such as warehousing and

Witnesses: D. Lapp

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operations yards at any of the existing owned and leased buildings as well as any new additional facilities that are acquired. The needs of the Company are changing constantly and it is critical that the facilities meet the demands in an effective and timely manner. While the workspace standards and designs are developed to allow maximum flexibility without constant staff workspace reconfigurations and relocations, it is necessary to adapt to meet the changing demands.

- b. <u>Building Improvements and Upgrades.</u> This category includes capital expenditures required to maintain the existing portfolio of buildings and includes replacement of building components such as roofs, windows, doors, carpet and ceiling tiles, building system upgrades (HVAC, electrical, life safety systems, data center), site improvements (landscaping, parking lots, fencing, gates, equipment yards) and energy efficiency projects (lighting, automated building controls). The individual building components have a finite life from a functional, operating cost and risk perspective. Several examples include:
 - A roof or a chiller may have a useful life of 15 to 20 years depending on the maintenance performed over the years; however, failing to replace it at the end of its life cycle time will eventually result in equipment failure, high operating costs and occupant disruption.
 - Site improvements are essential in upgrading to meet current municipal and Enbridge safety standards.
 - Structural components of buildings such as exterior walls, staircases,
 do not age gracefully may require major restoration.

Witnesses: D. Lapp

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c. Office Furniture and Equipment. This category includes capital expenditures required to both replace existing furniture and equipment and furnish all new planned building space. This grouping includes system furniture, chairs, conference room and common space furniture, file cabinets and bookcases. Furniture replacement is required as the existing system furniture was implemented over 25 years ago and is at end of its life cycle.

The Company's existing REFF furniture systems were purchased in the mid-1980s when the concept of systems furniture was first implemented. The office environment has evolved immensely over the past thirty years.

- Warranty, obsolescence & fatigue: existing REFF furniture systems
 had a 10 year warranty which reflected anticipated use length. Today,
 that has increased to 15 or 20 years which is recognized by LEED and
 well beyond the expected lifecycle of the product. Enbridge systems
 furniture is approaching 30 years and if a replacement program is not
 initiated, fatigue and failure will become an issue.
- Ergonomic requirements are changing; supporting the Company's goal
 to zero injuries in the office, the height of the existing fixed workstation
 at 29" is a contributing factor of repetitive strain injury. Current
 standard workstations allow for adjustable height work surfaces allowing the employee to adjust their primary work surface to the
 appropriate height or to stand the current approach to ergonomics.
- A growing body of research links high quality indoor environments with access to natural light and views to gains in productivity, decreased absenteeism and improved employee morale. Providing for the

Witnesses: D. Lapp

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building occupants a connection between indoor spaces and the outdoors through the introduction of mid height workspace systems and perimeter placement. These strategies will improve the indoor environment of Enbridge facilities by exposing occupants to natural light.

- Workstation design to make use of materials and features reducing the "cubical feel". New systems are designed to allow for wiring of power and networks.
- Attraction and engagement is a concern of many organizations today. It's not just about attracting and retaining - it's about engaging employees while they are in their workplace. The Company's new systems furniture helps create an engaging and collaborative environment.
- d. <u>Light & Medium Duty Transportation Equipment.</u> This category includes light duty vehicles, which are all vehicles under 4500 kg, including cars, pick-up trucks and vans, and medium duty vehicles, which are vehicles over 4500 kg, including utility trucks, flat-bed trucks, dump trucks and trailers.
- e. <u>Heavy Work Equipment.</u> This category includes pieces of heavy work equipment including backhoes, welding machines, compressors and lifting devices such as hiabs and sidebooms.
- f. <u>Small Tools & Equipment.</u> This category includes small tools and equipment, including jackhammers, drills, soil compactors, combustible gas indicators, generators, etc.

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- g. NGV Equipment. This category includes fleet vehicle NGV conversion kits and their installation as well as the associated NGV cylinders. Currently, about 75% of the Company's fleet vehicles are either dedicated natural gas or bi-fuel (natural gas and gasoline). Also included are the capital costs associated with the NGV compressor station facilities used for refueling the Company fleet at Enbridge facilities.
- 9. There is one major project within the Facilities and General Services capital expenditures for 2014 to 2016. That project relates to activities to remove non-office functions from the Company's Victoria Park Complex ("VPC") site to other locations, and then to use the vacated space for office functions. The costs related to this major project are set out at Items 2 to 4 of Table 2 above. This project is discussed within the project description document appended as "Attachment 1".
- 10. The following sections provide details about the forecast budgets for Facilities and General Plant for 2014 to 2016.

2014 Budget

- 11. The 2014 capital expenditure budget for Facilities and General Plant is \$23.6 million. Set out below is a breakdown of the categories of spend and major projects for 2014:
 - i. New Workspace and Alterations \$3.8 million. The general activities under this category are described above. The most significant projects planned for 2014 include:

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- Thorold Data Center expansion (phase 2) \$350,000
- Thorold mezzanine conference center \$500,000
- Thorold parking lot expansion \$240,000
- Building addition to the Technical Operations Centre for Engineering Materials Evaluation Center - \$1.25 million (\$625,000 in 2014 and \$625,000 in 2015)
- Leasehold improvements for a new operations facility replacing the
 Casselman operations depot \$500,000

The balance of the budget for this category of spend is required for workspace reconfigurations and relocations necessary to meet the changing demands in the various owned and leased facilities.

- ii. Building Improvements and Upgrades \$5.6 million. The general activities under this category are described above. The most significant projects planned for 2014 include:
 - VPC Head Office parking lot repaving and sidewalks and lighting -\$560,000
 - Brampton Colony Court Operations Depot renovations and upgrades -\$750,000
 - Scarborough Kennedy Road Operations Depot renovations and upgrades
 \$750,000
 - Thorold office renovation \$300,000
 - Ottawa Coventry Road Administrative building 1st floor office renovation -\$350,000

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The balance of the budget for this category of spend is required for upgrades to maintain the existing portfolio of buildings.

- iii. Office Furniture and Equipment \$4.6 million. The general activities under this category are described above. For 2014, much of the budget is required to replace existing furniture that is well beyond its expected lifecycle for the planned office renovation projects at the both Brampton Colony Court and Scarborough Kennedy Road operations depots and both the Thorold and Ottawa Coventry Road administrative offices. This grouping includes system furniture, chairs, conference room and common space furniture, file cabinets and bookcases.
- iv. Fleet & Equipment \$5.4 million. The Capital costs for these items relates to replacement of these assets, or additions to the asset pool. Replacement occurs when the assets come to the end of their serviceable life, or the required maintenance costs are not justified relative to replacement. The Company's budget assumes that Enbridge will maintain the same pool of fleet vehicles over the 2014 to 2016 period.
 - Light & Medium Duty Transportation Equipment \$3.08 million. There are
 no forecast increases in the light & medium duty transportation equipment
 units through the forecast period. This number is expected stay at the
 2013 levels of 815 units. The cost forecast is based on review of the list of
 vehicles likely to require replacement (based on age and repair history)
 and forecasting the replacement cost for such vehicles.
 - Heavy Work Equipment \$0.77 million. There are no forecast increases in the heavy work equipment units through the forecast period. This number

Witnesses: D. Lapp

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is expected stay at the 2013 levels of 405 units. The cost forecast is based on review of the list of vehicles likely to require replacement (based on age and repair history) and forecasting the replacement cost for such vehicles.

- Small Tools & Equipment \$1.58 million. Due to the variety of items in
 this category and their associated unit costs, the number of tool and
 equipment units varies from year to year. The cost forecast is based on
 estimates of replacement requirements for tools and equipment, as well as
 allowance for new technologies and tools that may enhance safety and
 efficiency of operations (ie. keyhole technology) that become available
 over the 2014 to 2016 term.
- iii. NGV Equipment \$0.64 million. The NGV costs primarily relate to three items:
 - a. Compressed Natural Gas (CNG) cylinders for Company fleet vehicles. These are the fuel storage cylinders onboard the vehicles. When a gasoline vehicle is converted to run on natural gas, a new cylinder is installed. There are mandated inspection and retesting / recertification requirements for these cylinders they have been installed. The associated cost is estimated from the number of cylinders due to expire in any given year multiplied by the historical cost to retest/recertify
 - b. Conversion of new fleet vehicles. There are two cost components associated with converting new vehicles purchased by the Company to NGV. The first is the cost to buy and install conversion kits for the new vehicles, while the second is the cost to buy and install fuel storage cylinders for these same vehicles.

Witnesses: D. Lapp

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- c. CNG refueling stations. There are costs associated with capital improvements to allow ongoing operation of the refueling stations used to fuel Enbridge's fleet. This includes replacement or refurbishment of worn major components (dispenser nozzle replacements, dryers refurbishment, compressor rebuilds, etc).
- iv. Planned major projects over \$2 million in 2014 are as follows:
 - Relocation of the Meter Shop from VPC to a Leased Property \$3.6 million. This project is required to relocate the meter shop operation from its current VPC head office location to a more appropriate location in a leased facility. Details for this project are discussed within the project description document at Exhibit B2, Tab 10, Schedule 1, Attachment 1.

2015 Budget

- 12. The 2015 capital expenditure budget for Facilities and General Plant is \$22.0 million. Set out below is a breakdown of the categories of spend and major projects for 2015 :
 - i. New Workspace and Alterations \$2.7 million. Included in the 2015 budget is \$625,000 for the completion of the building addition to the Technical Operations Centre for EMEC warehouse space expansion. This project is planned to start in 2014 for a total cost of \$1.25 million over the two year period. The balance of the budget for this category of spend is required for workspace reconfigurations and relocations necessary to meet the changing demands in the various owned and leased facilities.

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- ii. Building Improvements and Upgrades \$3.4 million. There are two significant projects planned for 2015:
 - Ottawa Coventry Road Administrative building 2nd and 3rd floor office renovation project - \$350,000.
 - Emergency Operations Centre ("EOC") at the VPC Head Office \$1.2 million over the 2015 and 2016 forecast period (\$500,000 in 2015 and \$700,000 in 2016). As the Company has adopted the Incident Command System ("ICS") model for emergency response, the need for a dedicated EOC was identified to improve the emergency response capacity within Enbridge Gas Distribution.

The balance of the budget for this category of spend is required for upgrades to maintain the existing portfolio of buildings.

- iii. Office Furniture and Equipment \$4.7 million. In 2015, significant planned projects include replacement of existing furniture that is well beyond its expected lifecycle for the planned office renovation at the Ottawa Coventry Road administrative offices and approximately one half of the furniture required for the new office space planned for the VPC head office facility will be purchased.
- iv. Fleet & Equipment \$5.4 million. The Fleet & Equipment budget is forecast to remain flat through the 2014 to 2016 period. The explanation of these costs is set out above. category are developed based on the depreciation of these assets, where replacement generally occurs, either once they have come to the end of their useful life, or the required maintenance costs are not justified relative to replacement.

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- v. NGV Equipment \$0.70 million. See above.
- vi. Planned major projects over \$2 million in 2015 are the following:
 - Conversion of the vacated space at VPC into office space \$2.1 million.
 Once the meter shop relocation project is completed, the vacated space at the Victoria Park Complex will be transformed into office space to accommodate forecasted office space needs at the head office, thus avoiding significant lease costs and associated build out costs to occupy nearby office towers. Details for this project are discussed within the project description document at Exhibit B2, Tab 10, Schedule 1, Attachment 1.
 - Relocation of the Fleet Garage to a Leased Property \$3 million. The fleet garage at the VPC head office services the entire GTA with a primary focus on Operations with heavy vehicles, construction equipment, pickup trucks and smaller support vehicles. There are several safety issues regarding the mixed use nature of the VPC head office facility with both industrial and office functions on the same site. The project plan is to secure a new building shell on a suitable site and to retire the current building. Details for this project are discussed within the project description document at Exhibit B2, Tab 10, Schedule 1, Attachment 1.

2016 Budget

13. The 2016 capital expenditure budget for Facilities and General Plant is \$17.3 million. Set out below is a breakdown of the categories of spend and major projects for 2016 :

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- i. New Workspace and Alterations \$2.8 million. In 2016, the most significant project planned is \$550,000 for the expansion of the parking lot at the VPC head office facility. The project plan is to demolish the 45 year old fleet garage and construct a new parking lot in its place to meet the parking space requirements at the VPC head office. The balance of the budget for this category of spend is required for workspace reconfigurations and relocations necessary to meet the changing demands in the various owned and leased facilities.
- ii. Building Improvements and Upgrades \$4.0 million. There is one significant project planned for 2016:
 - A budget of \$700,000 is for the completion of the Emergency
 Operations Centre ("EOC") at the VPC Head Office. This project is
 planned to start in 2015 for a total cost of \$1.2 million over the two year
 period.

The balance of the budget for this category of spend is required for upgrades to maintain the existing portfolio of buildings.

- iii. Office Furniture and Equipment \$4.4 million. In 2016, replacement of existing furniture that is well beyond its expected lifecycle will continue and the balance of the new furniture required for the new office space planned for the VPC head office facility will be purchased.
- iv. Fleet & Equipment \$5.4 million. The Fleet & Equipment budget is forecast to remain flat through the 2014 to 2016 period. The explanation of these costs is set out above.

Witnesses: D. Lapp

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- v. NGV Equipment \$0.72 million. See above.
- vi. There are no planned major projects over \$2 million in 2016.

Productivity

- 14. There are productivity savings that are included within the Facilities and General Plant budget for the 2014 to 2016 forecast period. Examples of productivity savings include the following:
 - Enbridge has negotiated directly with its preferred furniture manufacturer, in order to obtain the maximum discount pricing available, and has locked in this pricing for five years;
 - ii. Enbridge has implemented a process through which high value construction materials (such as wall systems, flooring and HVAC) are directly procured by Facilities Services and supplied to the general contractor, thus avoiding significant mark-ups on construction projects;
 - iii. The plan to create additional office and parking space at VPC will be costeffective. This will allow the Company to reduce the amount of high-cost
 office space being leased, as employees currently in leased space can move
 to the VPC site. By doing this, the Company can take advantage of the
 tenant common areas and support space that already exists at VPC, rather
 than paying for such amenities as part of the rent for the currently leased
 space. The cost of the leased space to house the relocated meter shop and
 fleet garage will be less than the cost of the office space that Enbridge will be

Witnesses: D. Lapp

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vacating, since industrial building lease rates are 40% to 50% lower than office space lease rates.

- iv. Enbridge has negotiated transportation and heavy work equipment pricing through a strategic sourcing initiative where savings are achieved through single sourcing with automobile manufacturers over a multi-year period, with savings based on volume discounts.
- v. Minor increases or variations in fleet and equipment units over the 2014 to 2016 period will be accommodated through efficiencies in the management of the fleet and equipment inventory.
- vi. Currently, compressed natural gas for vehicles is approximately 40 per cent less expensive than gasoline or diesel. The increased utilization of compressed natural gas for vehicles will improve efficiencies in the operation of the Company fleet. With vehicle manufacturers re-emerging in the production of natural gas powered cars and trucks as Original Equipment Manufacturers ("OEMs"), the availability of these vehicles will continue to increase the penetration of NGVs in the Company fleet.

Witnesses: D. Lapp