Numbers may not add due to rounding.

### Table 1 OM&A Project Listing - Nuclear <u>Projects ≥ \$20M Total Project Cost</u><sup>1</sup>

						Final	Total	Partial/Devmt	Initial	Superceding	2010	2011	2012	2013	2014	2015
Line			Project		Start	Completion	Project Cost <sup>2</sup>	Release	Full Release	Full Release	Actual	Actual	Actual	Budget	Plan	Plan
No.	Facility	Project Name	No.	Category	Date	Date	(M\$)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(0)	(p)
		ONGOING PROJECTS FROM EB-2010-0008														
1	DN	Environment Qualification Component Replacements	38457	Regulatory	Oct-04	Jun-12	63.1		63.1		5.6	0.9	0.0	0.0	0.0	0.0
2	ENG	Probabilistic Risk Assessment Upgrade	62440	Regulatory	Jan-09	Dec-13	51.1	37.9			11.2	11.1	8.7	8.3	0.5	0.0
3	ENG	Fuel Channel Life Management	62444	Sustaining	Aug-09	Jun-15	39.9	34.4			5.7	10.1	11.3	2.9	1.6	0.3
4	PB	Boiler Tab & Divider Plate Repair (Pickering 7 & Pickering 8)	40641	Sustaining	Mar-07	Dec-12	39.4		20.5	39.4	11.7	2.3	12.8	0.3	0.0	0.0
5	PA	Locking Tabs - Boiler Divider Plate (Pickering 1 & Pickering 4)	49248	Sustaining	Jun-07	Dec-17	23.9	1.2			0.5	0.2	12.8	0.2	0.0	0.0
6		Subtotal					217.4									
		COMPLETED PROJECTS FROM EB-2010-0008														
7	DN	Boiler Primary Side Cleaning (follow-up to 38296)	38935	Sustaining	Jun-08	Deferred	1.7	2.1			0.0	0.0	0.0	0.0	0.0	0.0
8	DN	Environment Qualification Discovery Work and Scope Reduction	38458	Regulatory	Feb-09	Jun-11	51.2		76.0		27.3	4.8	0.1	0.0	0.0	0.0
9	PB	Steam Generator Water Lancing	40645	Sustaining	May-07	Dec-10	18.3		25.0		4.6	0.0	(0.0)	0.0	0.0	0.0
10		Subtotal					71.3									
		PROJECTS NOT IN EB-2010-0008														
11	DN	Primary Heat Transport Liquid Relief Valve Modifications To Prevent Waterhammer	38933	Regulatory	Dec-08	Dec-23	21.6	10.9			0.6	1.7	1.8	2.1	0.0	0.3
12	ENG	Severe Accident Management Guidelines Implementation Improvements	62449	Regulatory	Mar-12	Dec-15	25.4	0.6			0.0	0.0	2.8	8.2	3.2	2.8
13		Subtotal					47.0									

Notes:

1 Projects with expenditures during Test Period AND Completed/Deferred Projects (from EB-2010-0008 or subsequent).

2 "Total Project Cost" reflects BCS amounts, with the exception of Completed/Deferred Projects (for which actual costs are shown).

Filed: 2013-09-27 EB-2013-0321 Exhibit F2 Tab 3 Schedule 3 Table 1

Filed: 2013-09-27 EB-2013-0321 Exhibit F2 Tab 3 Schedule 3 Table 2

#### Table 2 OM&A Project Listing - Nuclear Projects \$5M - \$20M Total Project Cost<sup>1</sup>

Line No.	Facility	ity Project Name		Category	Project Description	Start Date	Final Completion Date	Total Project Cost <sup>2</sup> (\$M)
	(a)	(b)	(C)	(d)	(e)	(f)	(g)	(h)
		ONGOING PROJECTS FROM EB-2010-0008						
1	ENG	Digital Control Computer Aging Management		Sustaining	Participate in CANDU Owners' Group joint project to manage the aging of digital control computers vital to the operation of the units.	Mar-04	Oct-15	14.5
2	IMS	Inspection Qualification		Regulatory	Demonstrate compliance with the CSA Standard N285.4 Periodic Inspection of CANDU Nuclear Power Plant Components by providing a systematic and well- documented approach to non-destructive examination qualification.	Nov-06	Dec-16	15.3
3	NPT	Fire Safety Assessment Upgrades		Regulatory	Update station fire safety assessments to comply with CSA Standard N293-07 Fire Protection for CANDU Nuclear Power Plants	Aug-09	Apr-16	13.0
4	PN	Digital Control Computer Obsolesence Management	40505	Sustaining	Upgrade display hardware, replace necessary components, and procure critical spares.	Aug-03	Nov-13	5.9
5	DN	Boiler Water Lancing (Future campaigns)	38450	Sustaining	Remove deposits from secondary side of Steam Generators to prevent under-deposit corrosion.	Apr-07	May-11	9.4
6		Standby Generator Gas Generator and Power Turbine Overhaul	38324	Sustaining	Complete overhaul and refurbishment of the Standby Generators.	Dec-06	Dec-11	7.7
7	PN	Life Expired Building Demolition <sup>3</sup>	25010	Sustaining	Demolish buildings outside of the Protected Area that are past their expected life and are no longer in use (Fire Code requirement).	Apr-06	Dec-16	8.8
8		Subtotal		.1				74.6
		COMPLETED PROJECTS FROM EB-2010-0008		т				
9	1 11/1	Feeder Integrity - Generic - Weld Overlay Feeder Repairs Proof of Concept	62435	Value Enhancing	Develop techniques to increase feeder wall thickness by weld overlay. Remediate free floating fuel oil in	Feb-05	Feb-10	12.2
10	PN	SG Fuel Oil Remediation <sup>3</sup>	40474	Regulatory	groundwater in areas under the standby generator fuel pumphouses and fuel oil storage tanks.	Jun-03	Dec-12	0.4
11	PN	Worker Safety Modifications for Feedwater Chemical Addition	40492	Sustaining	Comply with OHSA limits for hydrazine exposure and provide overpressure protection.	Sep-01	Jan-11	5.3
12	PN	Vacuum Building Basement Improvements	49278	Sustaining	Modify Vacuum Building equipment to improve reliability and maintainability.	Jun-09	May-10	8.2
13	PN	Standby Generator Automatic Voltage Regulator Upgrade	49215	Sustaining	Replace the automatic voltage regulators for the standby generators.	Aug-08	Nov-11	3.8
14	PN	PA Calandria Vault Inspection Execution	46606	Sustaining	Inspect a subset of degraded critical calandria vault components.	Jun-09	Jun-10	5.2
15		Subtotal						35.0
		PROJECTS NOT IN EB-2010-0008		1				
16	DN	Modified 37 Element Fuel Bundle	38936	Sustaining	Develop and quality modified fuel bundle to address heat transport aging effects and prevent de-rating of Darlington.	Jan-09	Feb-12	9.0
17		Large Break Loss of Coolant Accident (LBLOCA) Margin Restoration Strategy	62443	Sustaining	Support industry response to CNSC requirement to increase LBLOCA margins.	Nov-09	Dec-13	9.6
18	ENG	Power Operated Valve Program Recovery	62447	Sustaining	Update power operated valve program to address deficiencies and complete outstanding work.	Jul-11	Dec-13	6.9
19	SEC	Security Project H	62442	Regulatory	Security Protected	Apr-09	May-14	5.1
20		Fuel Handling Single Point of Vulnerability Equipment Reliability Improvement Project	46635	Sustaining	Refurbish fuel handling equipment that present single points of vulnerabilty for reliable operation.	Feb-11	Dec-13	7.0
21	PN	Machine Guarding Improvement	40668	Regulatory	Install guards on rotating equipment to meet CSA Z432-04 Safeguarding of Machinery requirements.	Dec-09 Dec-7		9.5
22	PN	Unit 8 Moderator Annubar Retrieval	40547	Sustaining	Locate and retrieve flow measurement primary element that broke off during commissioning that may cause a failure of moderator piping.	Jan-10	Feb-16	9.3
23		Security Revolving Door Replacement	25057	Sustaining	Security Protected	Dec-11	Feb-14	5.6
24		Upgrade containment boundary isolation valves 33810-V38 & V49	38419	Sustaining	Isolate leaks from passing HT P&IC system. Drain valves until planned outage	Dec-11	Jan-20	7.6
25	PB	Boiler Blowdown Pipe Support Improvements	40683	Sustaining	Install new and/or modified piping supports at selected locations in the RAB and Screenhouse to make the BBD system more robust.	Oct-10	May-15	11.3
26		Subtotal						80.9
27		Total						190.5

Notes:

1 Projects with expenditures during Test Period AND Completed/Deferred Projects (from EB-2010-0008 or subsequent).

2 "Total Project Cost" reflects BCS amounts, with the exception of Completed/Deferred Projects (for which actual costs are shown).
3 Projects from Ex. F2-T3-S3 Table 3 in EB-2010-0008.

## Table 3OM&A Project Listing - NuclearProjects < \$5M Total Project Cost1</td>

Line No.	Sponsoring Division	Number of Projects	Total Project Cost (\$M)	Average Cost Of All Projects (\$M)
		(a)	(b)	(c)
	Facility Projects:			
1	Darlington NGS	16	37.3	2.3
2	Pickering NGS	36	111.6	3.1
3	Nuclear Support Divisions <sup>2</sup>	11	19.9	1.8
4	Total	63	168.8	2.7

Notes:

1 Projects with expenditures during Test Period.

2 Nuclear Support Divisions with OM&A projects includes Engineering, Inspection and Maintenance Services, and Security & Emergency Services.

Filed: 2013-09-27 EB-2013-0321 Exhibit F2 Tab 3 Schedule 3 Table 4

# Table 4OM&A Project Listing - NuclearPortfolio Projects (Unallocated)1

Line No.	Project Name	Category	Potential Start Date
	(a)	(b)	(c)
	Darlington NGS		
1	Boiler Blowdown Piping Refurbishment	Sustaining	2012
2	Gross Fission Product Sample Delay and Alternative Primary Heat Transport Sampling Point	Sustaining	2012
3	Steam Generator Emergency Cooling System Chemistry Control Pressure Monitoring	Sustaining	2013
4	Shutdown System Heat Transport Low Pressure Trip Setpoint Change	Sustaining	2012
5	Public Address System Upgrade	Sustaining	2013
6	Emergency Power Generator 2 Gas Producer Engine Replacement	Sustaining	2012
7	Tritium Removal Facility Air Clean Up Control	Sustaining	2012
8	Pressurizer Sludge Removal	Sustaining	2013
9	Water Treatment Plant Backup Supply Connection	Sustaining	2012
10	Fuel Handling : Pre-Refurb Irradiated Fuel Discharge System Rehabilitation	Sustaining	2014
11	Phase 2 Station Battery Replacement (50310, 50390)	Sustaining	2014
	Pickering NGS		
12	Pickering B Irradiated Fuel Bay Leakage Mitigation	Regulatory	2012
13	Pickering B Station Service Transformer/Generator Service Transformer Spare Transformer Capability	Sustaining	2012
14	Instrumentation & Control Obsolescence	Sustaining	2012
15	Predictive Maintenance Program Review (OM&A)	Sustaining	2012
16	Common Services Drum Cleaning Facility	Sustaining	2016 & Beyond
17	As Low As Reasonably Achievable Source Term/Dose Reduction	Sustaining	2016 & Beyond
18	Reactor Auxiliary Bay/Irradiated Fuel Bay Ventilation	Sustaining	2016 & Beyond
19	West Annex Ventilation Equipment Replacement	Sustaining	2016 & Beyond
20	Back Up Instrument Air	Sustaining	2016 & Beyond
21	Pickering Wet Circumferential Scrape Capability	Value Enhancing	2016 & Beyond
	Inspection & Maintenance Services		
22	Public Alerting Sirens Part II	Regulatory	2016 & Beyond
	Lite Pipe	Sustaining	2016 & Beyond
24	Weld Profile Inspection Tool Inspection Qualification	Sustaining	2016 & Beyond
25	Feeder Instrument Line Fretting Replication Beyond Arms Reach	Sustaining	2013
	IMS Feeder Thickness (FP6) Mark 2 & Inspection Qualification	Value Enhancing	2016 & Beyond
	IMS Steam Generator Inspection Equipment Obsolescence	Sustaining	2013
	Spacer Location And Reposition System Continuous Operation - Obsolescence/Reliability Upgrades	Sustaining	2016 & Beyond
	Nuclear Weste Management	_	
	Nuclear Waste Management Spent Solvent Treatment Facility Decommissioning	Sustaining	2016 & Beyond

Notes:

1 Projects with potential expenditures during Test Period. Each project is forecast to have a project expenditure of less than \$20M.

Filed: 2013-09-27 EB-2013-0321 Exhibit F2 Tab 3 Schedule 3 Table 5

## Table 5OM&A Projects - Nuclear OperationsListing of Business Case Summaries Filed

			BCS			BCS
Line	Project		Approval		BCS	Status in
No.	Number	Business Case Summary (BCS) Title	Date	Project Stage	Status	EB-2010-0008
	(a)	(b)	(c)	(d)	(e)	(f)
		ONGOING PROJECTS FROM EB-2010-0008				
1	38457	Darlington Environment Qualification Component Replacements	Jan-08	Execution	Full	Full
2	62440	Probabilistic Risk Assessment Upgrade	Apr-12	Execution	Full	Partial
3	62444	Fuel Channel Life Management	Aug-11	Execution	Partial	Partial
4	40641	Pickering B Boiler Tab & Divider Plate Repair (Pickering 7 & Pickering 8)	Dec-10	Execution	Superceding	Full
5	49248	Pickering A Locking Tabs - Boiler Divider Plate (Pickering 1 & Pickering 4)	Dec-11	Execution	Partial	Developmental
		COMPLETED PROJECTS FROM EB-2010-0008				
6	38935	Darlington Boiler Primary Side Cleaning (follow-up to 38296)	Apr-09	Cancelled	Developmental	Developmental
7	38458	Darlington Environment Qualification Discovery Work and Scope Reduction	Apr-10	Complete	Full	Full
8	40645	Pickering B Steam Generator Water Lancing	May-07	Complete	Full	Full
		PROJECTS NOT IN EB-2010-0008				
9	38933	Darlington Primary Heat Transport Liquid Relief Valve Modifications To Prevent Waterhammer	Jul-11	Execution	Partial	N/A
10	62449	Severe Accident Management Guidelines Implementation Improvements	Jul-12	Developmental	Full	N/A