

Numbers may not add due to rounding.

Updated: 2008-03-14
EB-2007-0905
Exhibit D2
Tab 1
Schedule 2
Table 1

Table 1
Capital Project Listing - Nuclear
Facility Projects - Released Amount and Balance to be Released
Projects >\$10M Total Project Cost¹

Line No.	Project Name	Project Summary Ref. No.	Category	Start Date	Final In-Service Date	Released Amount (\$M)	Balance To Be Released (\$M)
(a)	(b)	(c)	(d)	(e)	(f)	(g)	
Project summaries for the following projects are included in this section of the application							
Darlington NGS							
1	Second Darlington Full Scope Simulator	28452	Sustaining	Sep-06	Jul-09	14.2	0.0
2	D2O Storage Facility	31555	Sustaining	Nov-06	Dec-10	2.8	25.4
3	Improve Maintenance Facilities at Darlington	31717	Sustaining	Jan-02	Dec-11	1.4	43.0
4	Main Control Room HVAC	33293	Sustaining	May-01	Sep-08	10.9	0.0
5	Chiller Replacement to Reduce CFC Emissions	33631	Regulatory	Jan-04	Dec-11	6.6	6.7
6	FH Computer Replacement	33815	Sustaining	Aug-05	Feb-12	10.4	0.0
7	Used Fuel Dry Storage In Station Modifications	33925	Sustaining	Jan-01	Dec-08	44.4	0.0
8	Shutdown System Computer Aging Management	33955	Sustaining	Nov-06	Dec-11	1.6	63.0
9	Standby Generator Controls Replacement	33973	Sustaining	Dec-06	Dec-11	1.2	13.1
10	DN DCC Replacement / Refurbishment / Upgrades	33977	Sustaining	Sep-03	Dec-12	19.2	0.0
11	Auxiliary Heating System - Phases 1 & 2 Alternative Heating	34000	Regulatory	Mar-06	Dec-09	2.0	18.5
12	Feeder Replacement As Low As Reasonably Achievable Optimization	34008	Sustaining	Jan-06	Dec-08	10.8	0.0
13	Fire Protection Upgrade Program Phase 2	79016	Regulatory	Oct-97	Dec-07	19.0	0.0
14	Fire Protection Upgrade Program Phase 3	79148	Regulatory	Aug-01	Dec-08	28.9	0.0
Pickering A NGS							
15	Calandria Vault Inspection Tooling	46537	Sustaining	Aug-06	Dec-09	22.0	0.0
16	Pickering Site - D2O Storage Facility	49251	Regulatory	Nov-06	Jul-10	1.9	11.4
17	Switchyard Relay Building Cable Replacement	49266	Sustaining	Dec-06	Jun-10	14.5	0.0
Pickering B NGS							
18	CFC Replacement (Freon Removal)	40543	Regulatory	Oct-03	Dec-09	19.0	0.0
19	Auxiliary Power System for PB	49104	Regulatory	Mar-05	Feb-08	104.7	0.0
20	Standby Generator Governor Upgrade	49109	Sustaining	Oct-05	Jul-08	22.0	0.0
21	Chemistry Standards (CH-002) at PB	79147	Regulatory	Feb-98	Jun-08	17.8	0.0
Engineering & Modifications							
22	Additional Feeder Cut and Weld Tooling	62567	Sustaining	Jun-07	Dec-08	12.1	0.0
Nuclear Programs & Training							
23	Security Fence Project	25609	Regulatory	Nov-05	Sep-10	39.3	7.6
24	Security Hardening Project	25901	Regulatory	Nov-05	Dec-10	4.9	9.0
25	Controlled Area Improvements	25902	Regulatory	Nov-05	Sep-09	1.9	12.2
26	Security Monitoring Room	25905	Regulatory	Nov-05	Dec-08	11.6	7.7
27	Security Doors Upgrade	25908	Regulatory	Aug-06	Dec-09	3.1	10.1
28	Security Optimization (Capital)	62558	Regulatory	Apr-02	Dec-08	172.0	0.0
29	Subtotal Facility Projects					620.1	227.8

¹ Projects with expenditures during Test Period

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Tab 1
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Table 2

Table 2
Capital Project Listing - Nuclear
Facility Projects - Released Amount and Balance to be Released
Projects \$5M - \$10M Total Project Cost¹

Line No.	Project Name	Category	Project Description	Released Amount (\$M)	Balance To Be Released (\$M)
	(a)	(b)	(c)	(d)	(e)
	Darlington NGS				
1	Darlington Learning Center Modifications	Regulatory	Modify the Darlington Learning Centre to accept a Darlington full scope simulator and provide the supporting building infrastructure.	9.8	0.0
2	Replacement of Obsolete Computer Components	Sustaining	Replace obsolete digital control computer components.	9.1	0.0
3	New Change Room Facility	Sustaining	Replace life-expired change room facilities used by temporary staff.	1.3	7.6
4	Reactivity Mechanism Replacement Tooling	Sustaining	Develop tooling for the replacement of reactivity mechanisms.	8.0	0.0
5	Turbine Generator Vibration Monitor System Replacement	Sustaining	Upgrade the turbine generator vibration monitoring system. Current system has already reached end of life and uses obsolete hardware & software with no spares.	1.1	5.8
6	Fuel Handling Power Track Improvement	Sustaining	Modify Fuel Handling Power Track to improve reliability and add condition monitoring capability.	0.9	5.6
7	Liquid Chlorination System Upgrade	Sustaining	Improve reliability of chlorination system to more effectively combat zebra mussel infestation.	5.1	0.0
	Pickering A NGS				
8	Unit 2 and 3 D2O Storage Tanks	Sustaining	Install storage tanks to store the Primary Heat Transport D2O drained from Units 2 and 3. Excess capacity in tanks sourced from Bruce Heavy Water Plant to be used for additional site storage.	8.6	0.0
9	Administration Building Cafeteria Modifications	Sustaining	Refurbish Cafeteria to address health & safety concerns, improve functionality and upgrade systems to current requirements.	8.3	0.0
10	Redundant Calandria Vault Dryer	Sustaining	Improve reliability of calandria vault dryers to minimize corrosion of structures, systems and equipment in the calandria vault.	5.6	0.0
11	Modular Buildings 1,2 & 3 Refurbishment	Sustaining	Carry out major renovation of the existing modular buildings to address issues relating to aged building structure and health & safety concerns arising from potential mold infestation.	5.0	0.0
	Pickering B NGS				
12	Reactor Controller Upgrades	Sustaining	Improve reliability of reactor and safety system controllers, which have reached design life.	9.6	0.0
13	PB Emergency Power Generator Control Upgrade	Sustaining	Improve reliability of Emergency Power Generators by replacing obsolete components.	4.0	1.7
14	Radioactive Emission Reduction	Regulatory	Improve the Radioactive emissions monitoring and control performance per CNSC Operating License requirements (Project EV-005)	6.1	1.3
	Inspection & Maintenance Services				
15	CIGAR Control System Replacement Obsolescence/Configuration Management (Channel Inspection, Gauging and Relocation System)	Sustaining	Upgrade the CIGAR control system by replacing obsolete PDP computer hardware, drive system hardware and software.	6.7	0.0
16	Subtotal Facility Projects			89.1	22.0

1 Projects with expenditures during Test Period

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Exhibit D2

Tab 1

Schedule 2

Table 3

Table 3
Capital Project Listing - Nuclear
Projects <\$5M Total Project Cost¹

Line No.	Project Description	Number of Projects	Total Project Cost (\$M)	Average Cost Of All Projects (\$M)
		(a)	(b)	(c)
	Facility Projects (Released Amount)			
1	Darlington NGS	11	21.7	2.0
2	Pickering A NGS	9	16.3	1.8
3	Pickering B NGS	5	8.6	1.7
4	Engineering & Modifications	2	2.3	1.1
5	Programs & Training	3	6.6	2.2
6	Supply Chain	2	5.5	2.8
7	Inspection & Maintenance Services	3	2.5	0.8
8	Subtotal Facility Projects (Released Amount)	35	63.5	1.8
	Facility Projects (Balance to Be Released)			
9	Darlington NGS	6	11.5	1.9
10	Pickering A NGS	4	9.5	2.4
11	Pickering B NGS	2	2.1	
12	Engineering & Modifications	1	2.5	2.5
13	Subtotal Facility Projects (Balance to be Released)	13	25.7	2.0
14	Total	35	89.1	2.5

1 Projects with expenditures during Test Period

Table 4a
Capital Project Listing - Nuclear
Facility Projects -- Listed Work to be Released¹

Line No.	Project Name	Category	Potential Start Date
	(a)	(b)	(c)
	Facility Projects (Listed Work to be Released)		
	Darlington NGS		
1	Turbine-Generator Control Upgrade or Replacement	Sustaining	2008
2	Secondary Control Area Air Conditioning Unit Replacement	Sustaining	2008
3	Operations Support Building Refurbishment	Sustaining	2008
4	Replacement of Emergency Power System Uninterruptible Power Supply	Sustaining	2008
5	Feeder Freezing Penetration on the South Side of the Reactor	Sustaining	2008
6	Darlington Station Fire Detection System Upgrades	Sustaining	2009 or Future
7	Water Treatment Plant Control Room & Sludge Press Upgrade	Sustaining	2009 or Future
8	Universal Delivery Machine Fuel Push	Sustaining	2009 or Future
9	Alternative to Vault Vapour Recovery System	Sustaining	2009 or Future
10	Intake Structure Zebra Mussel Anti-Fouling Covers	Sustaining	2009 or Future
11	Condenser Efficiency Modifications	Sustaining	2009 or Future
12	Site Facilities Maintenance Building	Sustaining	2009 or Future
13	Suit Communication System Replacement	Sustaining	2009 or Future
14	Public Address System Upgrade	Sustaining	2009 or Future
15	Shutdown System 2 Radiation Reduction Tooling	Sustaining	2009 or Future
16	Transport Fuel Storage and Dispensing Facility	Sustaining	2009 or Future
	Pickering A NGS		
17	Replacement of Standby Boilers (Note 2)	Regulatory	2008
18	Inter-Station Transfer Bus Permanent Cabling	Regulatory	2008
19	Fuel Channel East Shift Tooling	Sustaining	2008
20	Channel Isolation and Draining Tool for Feeder Replacement	Sustaining	2008
21	Calandria Vault Component Repair Tooling	Sustaining	2008
22	Liquid Zone Control System	Sustaining	2009 or Future
23	New Parking Lots	Sustaining	2009 or Future
24	Ion Exchange Cleanup Vent Line Replacement	Sustaining	2009 or Future
25	Decommission/Deconstruct Pickering Upgrader A Towers	Sustaining	2009 or Future
26	Sulzer B Online Feed and Sampling System Upgrade	Sustaining	2009 or Future
27	Ion Exchange Cleanup Oil/Water Separation Upgrade	Sustaining	2009 or Future
28	Miscellaneous D2O Building Liquid Recovery Collection Direct to Ion Exchange Cleanup	Sustaining	2009 or Future
29	Pickering Incoming/Outgoing Transfer System Loading Arms Upgrade	Sustaining	2009 or Future
30	Liquid Waste Management System PP&E Upgrade	Sustaining	2009 or Future
31	Service Wing H3 Off Gas Dryer Installation	Sustaining	2009 or Future
32	Feeder Replacement As Low As Reasonably Achievable Optimization	Sustaining	2009 or Future
33	Core Physics Reconfiguration	Sustaining	2009 or Future
	Table continues on Ex. D2, Tab 1, Sch 2 Table 4b		

1 Projects with potential expenditures during Test Period

2 Projects with potential cost > \$10M

Table 4b
Capital Project Listing - Nuclear
Facility Projects -- Listed Work to be Released¹

Line No.	Project Name	Category	Potential Start Date
	(a)	(b)	(c)
	Facility Projects (Listed Work to be Released) - Continued		
	Pickering B NGS		
34	Upgrade Fire Detection System for Standby Generator & Emergency Power Generator Buildings	Sustaining	2009 or Future
35	Replacement of Turbosupervisory Equipment Vibration Instrumentation	Sustaining	2009 or Future
36	Feeder Replacement As Low As Reasonably Achievable Optimization	Sustaining	2009 or Future
37	Install Aluma Seismic Platforms in Boiler Room	Sustaining	2009 or Future
38	Transport Fuel Storage and Dispensing Facility	Sustaining	2009 or Future
	Engineering & Modifications		
39	Feeder Integrity - Weld Overlay Tooling Development	Sustaining	2008
	Nuclear Programs & Training		
40	Armed Responder Training Facility	Regulatory	2008
41	Security Water Side Detection (Note 2)	Regulatory	2008
42	Reactor Cooling Security Enhancement	Regulatory	2008
43	Changes in Roads	Sustaining	2009 or Future
44	Engineering Desktop Simulators	Sustaining	2009 or Future
45	Certification Training Classroom Refurbishment	Sustaining	2009 or Future
46	Certification Training Desktop Simulator Upgrade	Sustaining	2009 or Future
	Nuclear Supply Chain		
47	Pickering Warehouse Refurbishment	Sustaining	2008

- 1 Projects with potential expenditures during Test Period
2 Projects with potential cost > \$10M