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1	<u>UNDERTAKING JT2.2</u>
2	
3	<u>Undertaking</u>
4	
5	To provide additional information with respect to Environmental Defence interrogatory
6	11, issue 4.12, as set out in Mr. Elson's letter.
7	
8	<u>Response</u>
9	
10	Confidential Response

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1	<u>UNDERTAKING JT2.3</u>
2	
3	<u>Undertaking</u>
4	
5	To provide a percentage breakout of contract values by fixed price, target price and any
6	other structure in the contracts for the table provided in response to GEC Interrogatory 2.
7	
8	
9	<u>Response</u>
10	
11	Confidential Response

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1 2

## **UNDERTAKING JT2.4**

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### <u>Undertaking</u>

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To obtain cost information with respect to other environmental budgetary programs, in addition to any monitoring already identified in the existing interrogatory response.

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#### Response

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The estimated 2014 - 2015 costs for environmental programs at Darlington, incremental to the monitoring identified in interrogatory response L-4.9-12 LOW-001, is provided in the table below.

13 14

Environmental Program Costs*	Total Estimate \$M 2014-2015
Refurbishment environment support (labour)	2.1
Environmental governance and compliance management	1.1
Waste, effluent, and chemical management	1.2
Groundwater monitoring	0.3
Sampling and analysis for chemical waste, groundwater wells	0.8
Biodiversity studies and monitoring	0.2
Chemistry laboratory support for environmental monitoring	2.2
Stack and filter testing emission verification	0.4
Radiological Environmental Monitoring Program (per CSA N288.4-10)	1.0
Total	9.2

In addition to the above, each contractor working on the DRP is required to implement 15 an Environmental Management plan applicable to their work activities. These plans are 16 17 developed by the contractor based on the Nuclear Projects - Environmental 18 Requirements Guideline (N-GUID-09701-10013) and reviewed and accepted by OPG 19 staff. Each contractor's plans will include applicable monitoring requirements to ensure 20 their activities conform to the environmental effluent and emission limits for Darlington 21 NGS. OPG cannot provide the additional amounts to protect the environment, 22 associated with these contracts, as they are included within the general costs of the

23

particular project.

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**UNDERTAKING JT2.5** 

#### **Undertaking**

To provide an anticipated date for conclusion of talks with the Department of Fisheries.

#### Response

 Work is currently underway to submit an application for an authorization to Fisheries and Oceans Canada in support of the Darlington Refurbishment project and the continued operation of the facility. It is anticipated that this application will be submitted by the end of June, 2014. Once submitted, Fisheries and Ocean Canada will assess the application and define any offsets which may be required to compensate for any residual effects. It is our understanding that Fisheries and Oceans Canada have up to 90 days from the date they deem our application complete to issue an authorization with any terms and conditions. If the authorization identifies the need for offset, OPG will build the requirements into our business planning process and develop implementation plans accordingly.

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**UNDERTAKING JT2.6** 1

2 3

#### **Undertaking**

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To explain the discrepancy between budgeted and actual amounts for Darlington refurbishment project, definition phase.

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#### Response

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The Definition Phase Planning Activities capital cost for 2013 is \$92.3M below the 2013 budget of \$422.0M. Major contributors include the delay of Retube and Feeder Replacement ("RFR") Mock up and Tooling milestones into 2014, deferred work across other major contracts to align with project approvals and contract awards; partially offset by higher engineering costs related to Integrated Safety Report follow up activities,

Component Condition Assessment reviews and Modification Design Report support. 16

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1	UNDERTAKING JT2.7
2	
3	<u>Undertaking</u>
4	
5	To provide a summary report or other available internal data regarding details of
6	component condition assessments.
7	
8	Decrees
9	<u>Response</u>
10	A
11	As part of the DRP feasibility assessment and scope definition process, OPG assessed
12	the condition and aging management practices of all significant safety-related and
13 14	production-related systems.
15	A total of 2,841 CCAs have been completed. These 2,841 CCAs resulted in the
16	identification of 704 scope items, 98 of which are included in the DRP scope.
17	raditandadon di 70 1 deepo keme, de di wilon die midiadea in the 21th deepo.
18	The attached table lists all 704 CCA based scope items.

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# **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
1	20000	TS0510-1	000076	DNGS Structures: Perform Inspections for Reactor Building Structure	OPEN	Refurb
2	20000	TS0510-2	000077	DNGS Structures: Perform Inspections for the Reactor Buidling Internal Structures	OPEN	Refurb
3	20000	TS0510-3	000083	DNGS Structures: Perform Inspections for the Civil Structures Located in Central Service Area-Nuclear	OPEN	Refurb
4	20000	TS0510-4	000086	DNGS Structures: Perform Inspections for Civil Structures Located in Central Control Area	OPEN	Refurb
5	20000	TS0510-6	000090	DNGS Structures: Perform Inspections on Pumphouse	OPEN	Refurb
6	20000	TS0510-8	000094	DNGS Structures: Inspections on EPS Buildings	OPEN	Refurb
7	20000	TS0510-9	000084	DNGS Structures: Perform Inspections For Turbine Hall and Turbine Auxiliary Bay	OPEN	Refurb
8	20000	TS0510-10	000085	DNGS Structures: Perform Inspections for Central Service Area	OPEN	Refurb
9	20000	TS0510-11	000078	DNGS Structures: Perform Inspections for the Civil Structures	OPEN	Refurb
				in the Reactor Auxiliary Bay (RAB)		
10	20000	TS0510-12	000079	DNGS Structures: Perform Inspections for the Civil Structures in Fuelling Facilities Auxiliary Areas (FFAA)	OPEN	Refurb
11	20000	TS0510-14	080000	DNGS Structures: Perform Inspections for Irradiated Fuel Area	OPEN	Refurb
12	20000	TS0510-15	000081	DNGS Structures: Perform Inspections for Fuel Handling and Service Area	OPEN	Refurb
13	20000	TS0510-16	000076	DNGS Structures: Repair/Replacement of Reactor Building Structures (Contingency)	OPEN	Refurb
14	20000	TS0510-17	000077	DNGS Structures: Repair/Replacement of Reactor Building Internal Structures (Contingency)	OPEN	Refurb
15	20000	TS0510-22	000090	DNGS Structures: Repair/Replacement of Damaged Items in Pump-House for all Four Units (Contingency)	OPEN	Refurb
16	20000	TS0510-24	000094	DNGS Structures: Repair or Replacement of the Items Found to be Unacceptable in EPS Building	OPEN	Refurb
17	20000	TS0510-28	080000	DNGS Structures: Repair/Replacement of Civil Structures Located in Irradiated Fuel Area (Contingency)	OPEN	Refurb
18	20000	TS0510-29	000081	DNGS Structures: Repair/Replacement of Civil Structures Located in Fuel Handling and Service Area (Contingency)	OPEN	Refurb
19	20000	TS1710-2	000087	Repair or Replacement of Turbine Support Structure Spring Sets - Trombik Supports (contingency)	OPEN	Refurb
20	22000	TS0510-5	000087	DNGS Structures: Perform Inspections for Turbine Supporting Structure in All 4 Units	OPEN	Refurb
21	27140	TS0510-7	000092	DNGS Structures: Perform Inspections on Pipes, Ducts Encasements Structures	OPEN	Refurb
22	27140	TS0510-23	000092	DNGS Structures: Repair/Replacement of Pipes, Ducts, and Encasements (Contingency)	OPEN	Refurb
23	32000	TS1070-3	000023	Moderator & Auxiliaries System-Part 2: Replacement of Isolating Valves	OPEN	Refurb
24	32100	TS1450-1	000013	OVERHAUL SEAT RING AND DISK FOR MODERATOR CHECK VALVES	OPEN	Refurb
25	32100	TS0080-4	000012	Replace DELORO Disc Hard Facing w/STELLITE 6 for MV20, 27 & 29 in All Units	OPEN	Refurb
26	32100	TS0080-10	000003	Contingency - Moderator Pumps	OPEN	Refurb
27	33100	TS0090-1	001148	Overhaul and Inspect Select Main HT Pumps	OPEN	Refurb
28	33100	TS0090-7	001198	Replace Cable Associated w/PHT Trip Pressure Switches	OPEN	Refurb
29	33100	TS0320-1	001149	Refurbish All PHT Pump Motors	OPEN	Refurb
30	33100	TS0090-2	001156	Inspect Two Representative PHT Loop Isolation/Interconnect MOVs	OPEN	Refurb
31	33100	TS0090-12	001148	Contingency - Refurbish All PHT pumps	OPEN	Refurb
32	33100	TS0090-9	001156	Repack all PHT Loop Isolation/Interconnect MOVs	OPEN	Refurb
33	33100	TS0090-13	001156	Contingency - Overhaul / replace PHT loop/interconnect MOVs	OPEN	Refurb

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## **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
34	33300	TS0100-5	000162	DNGS Primary Heat Transport Pressure and Inventory Control: Replace Non-Return Valve 33840-NV21 in All Units	OPEN	Refurb
35	33300	TS0100-2	000156	DNGS Primary Heat Transport Pressure and Inventory Control: U2 Bleed Cooler	OPEN	Refurb
36	33300	TS0100-6	000153	DNGS Primary Heat Transport Pressure and Inventory Control: Extend Inspection of Pressurizers (Contingency)	OPEN	Refurb
37	33300	TS0100-7	000153	DNGS Primary Heat Transport Pressure and Inventory Control: Clean Sludge Deposits from Pressurizer	OPEN	Refurb
38	33300	TS0100-8	000156	DNGS Primary Heat Transport Pressure and Inventory Control: Repair/Replace Bleed Cooler	OPEN	Refurb
39	33400	TS0110-2	001467	Inspect Representative SDC MOVs	OPEN	Refurb
40	33400	TS0110-8	001471	Repack Manual Valves (x32)	OPEN	Refurb
41	33400	TS0110-7	001467	Repack All MOVs (x52)	OPEN	Refurb
42	33400	TS0110-13	001467	Contingency for MOVs	OPEN	Refurb
43	33400	TS0110-15	001471	Contingency for Manual Valves	OPEN	Refurb
44	33800	TS0090-4	001233	Inspect Collection Tank, Vent Condenser Tank, and Collection Tank Coolers on U2	OPEN	Refurb
45	33800	TS0090-14	001233	Contingency - Extend Collection Tank Inspection to the Rest of the Units	OPEN	Refurb
46	34100	TS0070-3	000797	Contingency - End Shield Cooling Expansion Tanks	OPEN	Refurb
47	34100	TS0070-1	000797	Inspect End Shield Cooling Expansion Tanks	OPEN	Refurb
48	34300	TS0150-2	001441	Inspect Civil Structure of Emergency Coolant Injection Storage Tank	OPEN	Refurb
49	34300	TS0150-8	001441	Contingency - ECI Water Storage Tank	OPEN	Refurb
50	34410	TS0460-13	002741	DNGS Irradiated Fuel Bay Systems: Replacement of HX's for LE	OPEN	Refurb
51	35220	TS0400-8	002608	Reactor Area Bridges and Carriages: Replace all Power Cables for RA Bridges and Carriages	OPEN	Refurb
52	35220	TS0400-9	002609	Reactor Area Bridges and Carriages: Replace all Signal Cables for RA Bridges and Carriages	OPEN	Refurb
53	35220	TS0400-11	002613	Reactor Area Bridges and Carriages: Coarse Bridge Motor and Coarse Carriage Motor Replacement	OPEN	Refurb
54	35220	TS0400-12	002615	Reactor Area Bridges and Carriages: Limit Switches used in Conjunction w/RA Bridge and Carriage Equipment	OPEN	Refurb
55	35220	TS0400-13	002903	Reactor Bridges and Carriages: Replacement of Ball Screws and Jack Assemblies	OPEN	Refurb
56	35220	TS0400-14	002914	Reactor Area Bridges and Carriages: Carriage Speed Reducers	OPEN	Refurb
57	35220	TS0400-19	002920	Reactor Area Bridges and Carriages: RAB Cross Shaft and Pillow Block Bearings	OPEN	Refurb
58	35220	TS0400-22	002909	Reactor Area Bridges and Carriages: Replacement of X and Y Drive Components	OPEN	Refurb
59	35700	TS0430-8	002718	FH Trolley: Replace all PTK Chains, PTK Cables, and All Support Rolls	OPEN	Refurb
60	38300	TS0290-5	001017	Vapour Recovery Valves	OPEN	Refurb
61	38300	TS1370-2	001011	Vapour Recovery - Part 3: Refurbish/Overhaul all the Dryers	OPEN	Refurb
62	41800	TS0680-1	000585	Moisture Separator Reheater: Internal Inspection of System MOVs	OPEN	Refurb
63	41800	TS0680-4	000583	Moisture Separator Reheater: Overhaul Non-Return Valves	OPEN	Refurb
64	44100	TS0610-2	001505	Main Condensate System: Baseline Inspection of One Bank of LP Heaters	OPEN	Refurb
65	44100	TS0610-3	001510	Main Condensate System: UT Inspection of the Condenser Support Struts	OPEN	Refurb
66	44100	TS0610-17	001505	Main Condensate System: LP Heaters - expanded inspections with repair as required (Contingency)	OPEN	Refurb

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# **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
67	44100	TS0610-18	001510	Main Condensate System: FAC of all condenser support struts in Unit 2 Refurb outage - repair as required and expand inspections to subsequent units as appl.	OPEN	Refurb
68	44100	TS0610-22	001510	Main Condensate System: Deflection Plate Installation on support struts around CSDVs (Contingency)	OPEN	Refurb
69	49200	TS0480-1	003524	Replace EPG2 Degraded Gas Generator	OPEN	Refurb
70	50000	TS0980-2	002050	Low and Medium Voltage Cables Replacement: Perform Aging Assessment for Selected Low Voltage Cables	OPEN	Refurb
71	51500	TS0570-20	001296	Main Power Output System: For the MOT Transformers - Overhaul/Replacement of the MOT 500kV Bushings (Unit 2 only)	OPEN	Refurb
72	51500	TS0570-21	001296	Main Power Output System: MOT Transformers - Possibilty of Additional Work Required in the Transformer	OPEN	Refurb
73	51500	TS0570-22	001305	Main Power Output System: UST Transformers - Complete Inspection at Beginning of Refurb Outage	OPEN	Refurb
74	51500	TS0570-23	001296	Main Power Output System: MOT Transformers - Actions to remanufactre the Transformers (Contingency)	OPEN	Refurb
75	51500	TS0570-24	001305	Main Power Output System: UST Transformers - Actions to remanufactre the Transformers (Contingency)	OPEN	Refurb
76	51500	TS0570-7	001323	Main Power Output System: Replace multiple components for the MOT, UST and SST at the transformer terminal & switchyard (Unit 2 only - see the component list below)	OPEN	Refurb
77	53300	TS0170-1	000337	Emergency Power System: Replacement of the Motor Starters Feeding the Vault Coolers for Unit 2 only	OPEN	Refurb
78	53500	TS0540-1	000049	Class II Power System: Perform a Normal MCC Clean Test	OPEN	Refurb
79	57000	TS0990-1	003160	Electrical Penetration (Signal and Power) Modules Replacement: Critical Containment Penetrations Locations	OPEN	Refurb
80	63700	TS0220-5	000304	Darlington Reactor Regulating: Replace All RRS Flux Detectors	OPEN	Refurb
81	63700	TS0220-15	000402	Darlington Reactor Regulating: Reactivity Worth Check	OPEN	Refurb
82	68200	TS0240-7	000779	Replacement of Flow Elements	OPEN	Refurb
83	68200	TS0350-5	003439	SDS1 Trip Computer Modification	OPEN	Refurb
84	68200	TS0350-7	003441	SDS1 Display / Test Computer Modification	OPEN	Refurb
85	68231	TS0240-10	000785	Shutdown System 1 Process: Replace All 228 Vertical Flux Detectors	OPEN	Refurb
86	68300	TS0260-8	000847	Shutdown System 2 Process: Replace all SDS2 In-Core Flux Detectors	OPEN	Refurb
87	68300	TS0350-6	003440	SDS2 Trip Computer Modification	OPEN	Refurb
88	68300	TS0350-8	003442	SDS2 Display / Test Computer Modification	OPEN	Refurb
89	69000	TS0360-2	000729	I/O Subsystem Cabling and Transfer of Control Relay Condition Assessment	OPEN	Refurb
90	69000	TS0360-8	003461	Replace WIBA terminal connectors (Contingency)	OPEN	Refurb
91	72000	TS0630-3	000557	Service Water System: Replacement of LPSW NV's during VBO	OPEN	Refurb
92	72000	TS0880-25	001964	Bundled Commodity Group: Emergency Service Water System - Replacement of FP 4000 and Bristol Canada 5453 Series	OPEN	Refurb
93	72800	TS0180-1	002726	Replacement/Repair of Buried Piping on Service Water Systems	OPEN	Refurb
94	73200	SI0040-1	002458	Powerhouse Steam Venting System	OPEN	Refurb
95	73720	TS0280-1	002192	Vault Cooler Coil Refurbishment	OPEN	Refurb
96	75100	TS0650-3	002503	Compressed Air System: Manual Disphragm Valves	OPEN	Refurb
97		TS1570-1	003485	VAULT COOLING FAN MOTOR REPLACEMENT	OPEN	Refurb
98		TS2250-1	000014	32110-NV37 / 32510-NV11 INSPECTION	OPEN	Refurb
99	9000	TS0950-13		Minor Modifitcations: AA/CA/SA Logic Module Modification	OPEN	Station

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## **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
100	9000	TS0950-14	000393	Minor Modifitcations: AA/CA/SA Logic Module Modification	OPEN	Station
101	20000	TS0510-18	000078	DNGS Structures: Repair/Replacement of Civil Structures Located in Reactor Auxiliary Bay (RAB) (Contingency)	OPEN	Station
102	20000	TS0510-19	000083	DNGS Structures: Repair/Replacement of Civil Structures Located in Central Service Area (Contingency)	OPEN	Station
103	20000	TS0510-20	000087	DNGS Structures: Repair or Replacement of Turbine Supporting Structures for All 4 Units	OPEN	Station
104	20000	TS0510-25	000079	DNGS Structures: Repair/Repalcement of Civil Structures Located in Fuelling Facilities Auxiliary Areas (Contingency)	OPEN	Station
105	20000	TS0510-26	000084	DNGS Structures: Repair/Replacement of Civil Structures Located in Turbine Hall and Turbine Auxiliary Bay (Contingency)	OPEN	Station
106	20000	TS0510-27	000085	DNGS Structures: Repair/Repalcement of Civil Structures Located in Central Service Area (CSA) Buildings	OPEN	Station
107	20000	TS0510-30	000086	DNGS Structures: Repair/Replacement of Civil Structures Located in Central Control Area (Contingency)	OPEN	Station
108	21000	TS0120-4	000167	Darlington Airlocks And Transfer Chambers: Replacement of All the Flow Regulating Valves	OPEN	Station
109	21000	TS0120-5	000244	Darlington Airlocks And Transfer Chambers: Replacement of the Pressure Regulating Valves	OPEN	Station
110	21000	TS0120-6	000246	Darlington Airlocks And Transfer Chambers: Replacement of Pneumatic Actuators	OPEN	Station
111	21000	TS0120-7	000258	Darlington Airlocks And Transfer Chambers: Repalcement of Control Valves	OPEN	Station
112	21000	TS0120-8	002057	Darlington Airlocks And Transfer Chambers: Replacement of Check Valves	OPEN	Station
113	21000	TS0120-1	002050	Darlington Airlocks and Transfer Chambers: Inspection/Assessment of the Power and Control Cables	OPEN	Station
114	21000	TS0120-9	002052	Darlington Airlocks and Transfer Chambers: Inspection/Assessment of the Power and Control Cables (Contingency)	OPEN	Station
115	22000	TS0510-21	000084	DNGS Structures: Re-Roofing for the Whole Powerhouse	OPEN	Station
116	22000	TS1710-1	000087	Inspect Turbine Support Structure Spring Sets - Trombik Supports	OPEN	Station
117	31810	TS0240-3	000762	Shutdown System 1 Process: Replace the Seals and Sealant for 32 Shutoff Rods in 4 Units	OPEN	Station
118	32000	TS0080-1	000003	Inspect One Moderator Pump	OPEN	Station
119	32000	TS0080-2	000063	Inspect Temperature Elements	OPEN	Station
120	32000	TS0080-3	000713	Remove and Inspect One CG Recombiner Outlet Cooler	OPEN	Station
121 122	32000 32000	TS0080-5 TS0080-6	000721	Replace Level Switches LS254/255/256/257 on All Units Replace Pressure Regulating Valve 63230-PRV4	OPEN OPEN	Station Station
123	32000	TS0080-0	000104	Replace the U3 and U4 Recombination Units	OPEN	Station
124	32000	TS0080-8	000059	Repace MCR/SCA Handswitches Associated w/Moderator System	OPEN	Station
125	32000	TS0080-9	000715	Refurbish Valves V39 and V40 on All Units	OPEN	Station
126	32000	TS1070-1	000111	Moderator and Auxiliaries System - Part 2: Repalce Obsolete  Moderator Auxiliary Pump Set Vibration Monitoring  Transmitters	OPEN	Station
127	32100	TS0880-8	000063	Bundled Commodity Group: Moderator Auxiliaries System - Replacement of Temperature Elements	OPEN	Station
128	33000	TS0880-44	001128	Bundled Commodity Group: Primary Heat Transport Pressure Inventory Control - Continue Replacement of SGM Signal Converters	OPEN	Station

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# **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
129	33100	TS0090-6	001225	Inspect One MOV on PHT Purification Circuit	OPEN	Station
130	33100	TS0090-10	001223	Replace Gaskets and Replace Balance Line Orifice Plates as Required in All 4 Units	OPEN	Station
131	33100	TS0090-11	001420	Perform Reverse Engineering for Bach Simpson PHT Level Indicators	OPEN	Station
132	33100	TS1030-1	001424	Primary Heat Transport and Auxiliaries System - Part 2: Replace Helium Cover Gas	OPEN	Station
133	33100	TS1030-2	001152	Primary Heat Transport and Auxiliaries System - Part 2: Replace PHT Pump Motor Filters	OPEN	Station
134	33100	TS1030-3	001208	Primary Heat Transport and Auxiliaries System - Part 2: Resolve Obsolescense Issue for PHT Pump Motor Vibration Signal Conditioning Modules	OPEN	Station
135	33100	TS1030-4	001151	Primary Heat Transport and Auxiliaries System - Part 2: Test the PHT Jacking Oil Pump Motors, Replace Bearing, and Perform Minor Refurbishment Every 15 years	OPEN	Station
136	33100	TS1030-5	001207	Primary Heat Transport and Auxiliaries System - Part 2: PE/CE Resolve Obsolescence of PHT Pump Vibration Tranducers	OPEN	Station
137	33100	TS1030-6	001260	Primary Heat Transport and Auxiliaries System - Part 2: Complete PE Evaluation for Replacement PHT Pump Motor Speed Transmitter	OPEN	Station
138	33300	TS0100-4	000161	DNGS Primary Heat Transport Pressure and Inventory Control: Inspection of System AOVs	OPEN	Station
139	33300	TS0100-1	000153	DNGS Primary Heat Transport Pressure and Inventory Control: Characterize The Sludge Pressurizer	OPEN	Station
140	33300	TS1090-1	000283	Primary Heat Transport Pressure and Inventory Control - Part 2: Replace PIC Pressureizer Heaters	OPEN	Station
141	33300	TS1090-2	000228	Primary Heat Transport Pressure and Inventory Control - Part 2: Implement PMO Recommendations for PIC Pressureizer PIC Controllers	OPEN	Station
142	33320	TS0490-1	000154	Bleed Condenser Inspection	OPEN	Station
143	33330	TS0330-1	000284	Replace All Pressurizer Heaters Rectifiers	OPEN	Station
144	33330	TS0340-1	000283	Replace All Pressurizer Heaters	OPEN	Station
145	33400	TS0880-18	001478	Bundled Commodity Group: Shutdown Cooling System - Replacement of Hand Controllers	OPEN	Station
146	33400	TS0880-20	001489	Bundled Commodity Group: Shutdown Cooling System - Replacement of Temperature Controllers	OPEN	Station
147	33400	TS0880-30	001475	Bundled Commodity Group: Shutdown Cooling - Replacement of Vibration Tranducers	OPEN	Station
148	33410	TS0110-5	003094	Instrument Tubing for Shutdown System	OPEN	Station
149	33410	TS0110-6	001489	Replacement of Temperature Controllers	OPEN	Station
150 151	33410 33410	TS0110-9 TS0110-10	001475 001478	Replacement of Transducers Replacement of Hand Controllers	OPEN OPEN	Station Station
151	33410	TS0110-10	001478	Replace D10A Hand Switches in MCR	OPEN	Station
153	33410	TS0110-12	003494	Replace the Vibration Monitoring Instrumentation	OPEN	Station
154	33410	TS0110-16	001465	Contingency for HX	OPEN	Station
155	33800	TS0880-2	001420	Bundled Commodity Group: Primary Heat Transport Auxiliaries System - Replacement of Bach Simpson PHT Level Indicators	OPEN	Station
156	34100	TS1550-1	000803	CCA 803 End Shield Cooling - Replace/Inspect 34110-PV50 & PV51	OPEN	Station
157	34200	TS0210-15	000366	Negative Pressure Containment: Rebuild or Replace All 3 Pumps (Contingency)	OPEN	Station
158	34200	TS0210-17	000371	Negative Pressure Containment: Replace NPC Vacuum System TK 1-3 (Contingency)	OPEN	Station
159	34200	TS0210-1	000364	Negative Pressure Containment: Inspection of Main Vacuum Pumps	OPEN	Station
160	34200	TS0210-2	000366	Negative Pressure Containment: Inspection of Vacuum System Recirculation Pump	OPEN	Station
161	34200	TS0210-3	000370	Negative Pressure Containment: Inspect HX2 in the Next 5 Years	OPEN	Station

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## **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
162	34200	TS0210-4	000371	Negative Pressure Containment: Inspect the Internals of TK1-4 using a Fibrescope	OPEN	Station
163	34200	TS0210-9	000449	Negative Pressure Containment: Initiate ECR for Containment Activity Monitor Replacement	OPEN	Station
164	34200	TS0210-13	000485	Negative Pressure Containment: Upgrade Containment Leakage Rate Test Equipment	OPEN	Station
165	34200	TS0210-19	000375	Negative Pressure Containment: Inspect All Type I and Type II Diaphragms	OPEN	Station
166	34200	TS0880-17	000446	Bundled Commodity Group: Negative Pressure Containment - One Time Replacement of Hand Switches	OPEN	Station
167	34200	TS1170-1	003202	Negative Pressure Containment - Part 2: Replacement of Equipment	OPEN	Station
168	34200	TS1170-2	000377	Negative Pressure Containment - Part 2: Repalce Lower Seal Ring	OPEN	Station
169	34300	TS0150-5	003491	Inspection of NVs < 3"	OPEN	Station
170	34300	TS0150-14	001600	Contingency for ECI Equipment Room Sump Pit	OPEN	Station
171	34300	TS0880-1	001558	Bundled Commodity Group: Emergency Coolant Injection	OPEN	Station
172	34300	TS0880-31	001670	Bundled Commodity Group: Emergency Coolant Injection - Replacement of Hand Switches	OPEN	Station
173	34320	TS0150-1	001456	Internal Inspection 10 Representative Valves	OPEN	Station
174	34320	TS0150-3	001600	Inspection of the Sump Pit	OPEN	Station
175	34320	TS0150-6	001454	Motor Replacement for Heating Water Cooling Pump	OPEN	Station
176	34320	TS0150-9	001452	Replace Lubricating Pump/Motor Set	OPEN	Station
177	34320	TS0150-10	001534	Clean The Filter and Replace It	OPEN	Station
178	34320	TS0150-11	001558	Replacement of All Indicators	OPEN	Station
179	34320	TS0150-12	001670	Replace Handswitches	OPEN	Station
180	34320	TS0150-13	001683	Replacement - Replacement of All Temperature Transmitters	OPEN	Station
181	34320	TS1120-1	002093	Emergency Coolant Injection - Part 2: Update HPU Overhaul PM for ECI System	OPEN	Station
182	34320	TS1120-2	002094	Emergency Coolant Injection - Part 2: Update the HPU Overhaul PM to Replace the ECI System ACC's	OPEN	Station
183	34400	TS0880-39	003227	Bundled Commodity Group: DNGS Irradiated Fuel Bay Systems - Replacement of Temperature Controllers	OPEN	Station
184	34400	TS0880-40	003214	Bundled Commodity Group: DNGS Irradiated Fuel Bay Systems - Replacement of Bach Simpson Flow Indicators	OPEN	Station
185	34400	TS0880-41	003216	Bundled Commodity Group: DNGS Irradiated Fuel Bay Systems - Replacement of Flow Transmitters and Temperature Transmitters	OPEN	Station
186	34400	TS0880-42	003229	Bundled Commodity Group: DNGS Irradiated Fuel Bay Systems - Replacement of Bach Simpson Temperature Meters	OPEN	Station
187	34410	TS0460-1	002738	DNGS Irradiated Fuel Bay Systems: Inspection of Filter Units (Contingency)	OPEN	Station
188	34410	TS0460-2	002739	DNGS Irradiated Fuel Bay Systems: Inspection of Current Condition of the Flexible Gasket (Contingency)	OPEN	Station
189	34410	TS0460-3	002742	DNGS Irradiated Fuel Bay Systems: Inspection of Current Condition of the Flexible Gasket - Next Walkdown of IFB System	OPEN	Station
190	34410	TS0460-4	003227	DNGS Irradiated Fuel Bay Systems: Procure Replacements for Temperature Controllers	OPEN	Station
191	34410	TS0460-5	002745	DNGS Irradiated Fuel Bay Systems: Replacement of all Pump Motors for LE	OPEN	Station
192	34410	TS0460-6	003213	DNGS Irradiated Fuel Bay Systems: Identify and Procure Replacement of Flow Meters	OPEN	Station
193	34410	TS0460-7	003214	DNGS Irradiated Fuel Bay Systems: Identify replacements for the Flow Indicators	OPEN	Station

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# **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
194	34410	TS0460-8	003216	DNGS Irradiated Fuel Bay Systems: Conduct a Study to Indentify Replacements for Flow Transmitters	OPEN	Station
195	34410	TS0460-9	003220	DNGS Irradiated Fuel Bay Systems: Procure 4 Spare Check Valves	OPEN	Station
196	34410	TS0460-10	003229	DNGS Irradiated Fuel Bay Systems: Procure Replacements for the Bach Simpson Model-1624 Temperature Meters	OPEN	Station
197	34410	TS0460-11	002738	DNGS Irradiated Fuel Bay Systems: Possibility of Replacement of all the Filter Units (Contingency)	OPEN	Station
198	34410	TS0460-12	002739	DNGS Irradiated Fuel Bay Systems: Possibility of Replacement of IX Columns (Contingency)	OPEN	Station
199	34410	TS0460-14	002744	DNGS Irradiated Fuel Bay Systems: MMOD Required to Modify P3 P6	OPEN	Station
200	34410	TS0460-15	002739	DNGS Irradiated Fuel Bay Systems: Preparation of the Ion Exchange Column	OPEN	Station
201	34410	TS0460-16	002745	DNGS Irradiated Fuel Bay Systems: Procure 1 Spare Motor for EOL for Each CID	OPEN	Station
202	34710	TS0260-3	000853	Shutdown System 2 Process: Replace LISS Poison Tank Ball Position Level Alarm System	OPEN	Station
203	34800	TS0200-3	000438	Liquid Zone Control System: Replace the Recombination Units	OPEN	Station
204	34800	TS0200-6	000187	Liquid Zone Control System: Replacement of Some Valves (Contingency)	OPEN	Station
205	34800	TS0880-5	000190	Bundled Commodity Group: Liquid Zone Control System - Replacement of Rosemount Transmitters	OPEN	Station
206	34810	TS0200-1	000190	Liquid Zone Control System: Replace Rosemount Transmitters	OPEN	Station
207	34810	TS0200-2	000414	Liquid Zone Control System: Complete Aging Assessment of Zone Control Units	OPEN	Station
208	34880	TS1250-1	000292	Annulus Gas System - Part 2: Moisture Probe Replacements	OPEN	Station
209	35000	TS0950-36	003227	Minor Modifitcations: Replacement Of Iradiated Fuel Bay Temperature Controllers	OPEN	Station
210	35100	TS0380-1	002022	New Fuel Transfer: Electric Motor Operated Actuators	OPEN	Station
211	35100	TS0380-5	001828	New Fuel Transfer: Motor Operated Valves	OPEN	Station
212	35100	TS0380-6	002022	New Fuel Transfer: Obtain Spares	OPEN	Station
213	35210	TS0450-2	002681	FM Head: Charge Tube Axial Assembly and Charge Tube Axial Input Drive	OPEN	Station
214	35210	TS0450-3	002683	FM Head: Ram Assembly and Ram Input Drive	OPEN	Station
215	35210	TS0450-8	002684	FM Head: Fuelling Machine Head Magazine and Drives	OPEN	Station
216	35210	TS0450-9	002685	FM Head: Fuelling Machine Head Homing and Locking Assembly	OPEN	Station
217	35210	TS0450-10	002840	FM Head: Motors Mounted on the Fuelling Machine Head	OPEN	Station
218	35210	TS0450-12	002373	FM Head: Inspect all Ancillary Ports (Contingency)	OPEN	Station
219	35220	TS0400-10	002610	Reactor and Service Area Bridges and Carriages: Perform an Engineering Study of the Junction Box Assemblies	OPEN	Station
220	35220	TS0400-16	003122	Reactor and Service Area Bridges and Carriages: Perform an Obsolescence Study and Procure and Replace all Relays	OPEN	Station
221	35220	TS0400-17	002614	Reactor and Service Area Bridges and Carriages: Replace and Procure General Purpose Relays Used for Bridge Control Units	OPEN	Station
222	35220	TS0400-20	002610	Reactor and Service Area Bridges and Carriages: Inpsect JB's and Replace All Liquid Connectors	OPEN	Station
223	35220	TS0400-23	002903	Service Area Bridges and Carriages: Replacement of One SAB Ball Screw and Jack Assembly	OPEN	Station
224	35230	TS0410-1	002601	D2O Auxiliaries: Several Types (3 Cat ID's) of Solenoid Valves	OPEN	Station
225	35230	TS0410-2	003056	D2O Auxiliaries: Replace Air Actuated Valve	OPEN	Station

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# **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
226	35230	TS0410-3	003166	D2O Auxiliaries: One Type of Solenoid Valves	OPEN	Station
227	35230	TS0410-4	002555	D2O Auxiliaries: D2O Cooler (Contingency)	OPEN	Station
228	35230	TS0410-5	002555	D2O Auxiliaries: Tube Replacement May Be Required (Contingency)	OPEN	Station
229	35230	TS0410-6	002570	D2O Auxiliaries: Replace 24 Pumps/Seals/Motors	OPEN	Station
230	35230	TS0410-7	002592	D2O Auxiliaries: Trolley Power Cabling to the D2O/Air/FI Equipment (Contingency)	OPEN	Station
231	35230	TS0410-8	002592	D2O Auxiliaries: Cable Replacement May Be Required (Contingency)	OPEN	Station
232	35230	TS0410-9	002593	D2O Auxiliaries: Performance Testing of the Trolley Control Cabling	OPEN	Station
233	35230	TS0410-10	002593	D2O Auxiliaries: Cable Replacement May Be Required (Contingency)	OPEN	Station
234	35250	TS0390-3	003058	FH Air Auxiliary: Trolley Based Mechanical Air Dryer Including Towers	OPEN	Station
235	35250	TS0390-4	003057	FH Air Auxiliary: Air Compressor/Motors	OPEN	Station
236	35250	TS0390-5	003059	FH Air Auxiliary: Replacement of Aftercoolers	OPEN	Station
237	35260	TS0440-1	002605	FH Flow Injection: Flow Control Valves in the Flow Injection Circuit	OPEN	Station
238	35260	TS0440-2	002606	FH Flow Injection: Actuator Motors for Remote Connectors on the Flow Injection System	OPEN	Station
239	35260	TS0440-3	003061	FH Flow Injection: Air Operated Valves on the Flow Injection System	OPEN	Station
240	35260	TS0440-4	003063	FH Flow Injection: Non Return Valves on the Flow Injection System	OPEN	Station
241	35260	TS0440-5	003064	FH Flow Injection: Physical Inspection of Fixed Connectors	OPEN	Station
242	35260	TS0440-6	003064	FH Flow Injection: Refurbishment of Fixed Connectors (Contingency)	OPEN	Station
243	35320	TS0470-1	002019	IF Transfer: Disassemble and Inspect the Defected Conveyors	OPEN	Station
244	35320	TS0470-2	002019	IF Transfer: Replacement of Speed Reducers	OPEN	Station
245	35320	TS0470-3	001870	IF Transfer: Disassemble the Air Actuated Valve, Check Condition, and Replace the O-Ring and Seals	OPEN	Station
246	35320	TS0470-4	002021	IF Transfer: Replace all Acuators and Speed Reducers	OPEN	Station
247	35320	TS0470-5	002026	IF Transfer: Interbay Door - Inspect the Sprocket, Door, Door Guide Rails, and Wheel for Wear and Damage	OPEN	Station
248	35320	TS0470-6	002026	IF Transfer: Perform Overhaul of the Interbay Doors	OPEN	Station
249	35320	TS0470-7	002699	IF Transfer: Port Pressure Switch for the Fuel Reception Bay	OPEN	Station
250	35320	TS0470-8	002900	IF Transfer: Leak Collection Tanks (Contingency)	OPEN	Station
251	35320	TS0470-9	001860	IF Transfer: Purchase Life Time Spare Parts and Valve from ITT	OPEN	Station
252	35320	TS0470-10	001899	IF Transfer: Replacement of all Check Valves	OPEN	Station
253	35320	TS0470-11	002024	IF Transfer: Replacement of Shuttle Cylinders	OPEN	Station
254	35320	TS0470-12	002900	IF Transfer: Replacement of all Leak Collection Tanks (Contingency)	OPEN	Station
255	35700	TS0430-1	002712	FH Trolley: Fixed Power Cables	OPEN	Station
256	35700	TS0430-2	002713	FH Trolley: Perform a Visual Inspection and Megger Testing on Cables and Connections	OPEN	Station
257	35700	TS0430-5	002931	FH Trolley: Trolley Catenary Supports	OPEN	Station
258	35700	TS0430-9	002710	FH Trolley: Procure and Replace all Terminal Blocks in the Trolley	OPEN	Station
259	35700	TS0430-15	002930	FH Trolley: Replacement of Catenary Mechanical Components (Contingency)	OPEN	Station
260	35700	TS0430-3	002905	FH Trolley: Powertrack Cable Riser and Coupling Frame Assembly	OPEN	Station
261	35700	TS0430-4	002930	FH Trolley: Mechanical Components of the Catenary	OPEN	Station
262	35700	TS0430-6	002712	FH Trolley: Change Fixed Power Cables from Trolley (Contingency)	OPEN	Station
263	35700	TS0430-7	002713	FH Trolley: Fixed Signal Cables (Contingency)	OPEN	Station

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## **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
264	35700	TS0430-10	002716	FH Trolley: Source and Replace Trolley Coarse, Fine and Lock Motors	OPEN	Station
265	35700	TS0430-11	002717	FH Trolley: Change Rectifier Assembly	OPEN	Station
266	35700	TS0430-14	002905	FH Trolley: Repair and/or Reinforce the Riser and Coupling Frame Welds (Contingency)	OPEN	Station
267	35700	TS0430-16	002931	FH Trolley: Inspection of the Frame and Attachment Hardware for Corrosion (Contingency)	OPEN	Station
268	35700	TS0430-17	002938	FH Trolley: Replace Trolley Drive Wheels and Coarse and Fine Drive Gear Box	OPEN	Station
269	35700	TS0430-18	002712	FH Trolley: Replace all Catenary Power Cables	OPEN	Station
270	35700	TS0430-19	002713	FH Trolley: Replace all Catenary Signal Cables	OPEN	Station
271	35710	TS1330-1	003533	FH Trolley Additional Scope: Rails which the Fuelling machine Trolleys Drive	OPEN	Station
272	36100	TS0670-3	001004	Main Steam	OPEN	Station
273	36100	TS1150-1	000995	Main Steam - Part 2: Flowscan and Overhaul Boiler Blowdown	OPEN	Station
274	36100	TS1150-2	001004	Main Steam - Part 2: Inspection of Boiler Steam Isolation Valves	OPEN	Station
275	36400	TS0670-5	000593	Main Steam: Overhaul/Replace Containment Isolation Valves	OPEN	Station
276	36700	TS0270-5	002135	Steam Generator Emergency Cooling System (SGECS): Overhaul/Replace 367110-NV23, NV28 and 72800-NV136, NV138 (Contingency)	OPEN	Station
277	36700	TS0880-3	002126	Bundled Commodity Group: Steam Generator Emergency Cooling System - Replacement of Existing Bach Simpson Indicators	OPEN	Station
278	36700	TS0880-6	002129	Bundled Commodity Group: Steam Generator Emergency Cooling System - Replacement of Main Steam Temperature Transmitters	OPEN	Station
279	36700	TS0880-15	002112	Bundled Commodity Group: Steam Generator Emergency Cooling System	OPEN	Station
280	36700	TS0880-27	002115	Bundled Commodity Group: Steam Generator Emergency Cooling System - Replacement of all Main Steam Pressure Alarm Units	OPEN	Station
281	36710	TS0270-1	002112	Steam Generator Emergency Cooling System (SGECS): Replace Hand Switches	OPEN	Station
282	36710	TS0270-2	002115	Steam Generator Emergency Cooling System (SGECS): Replace All Main Steam Pressure Alarm Units	OPEN	Station
283	36710	TS0270-3	002126	Steam Generator Emergency Cooling System (SGECS): Replace the Existing Bach Simpson Indicators	OPEN	Station
284	36710	TS0270-4	002129	Steam Generator Emergency Cooling System (SGECS): Replace Main Steam Temperature Transmitters	OPEN	Station
285	36710	TS0270-6	002135	Steam Generator Emergency Cooling System (SGECS): Inspect 36710-NV23, NV28 and 72800-NV136, NV138	OPEN	Station
286	38300	TS0290-4	001138	Vapor Recovery: Repalce Limit Switches	OPEN	Station
287	38300	TS1220-1	001132	Vapour Recovery - Part 2: Replace Vapour Dryer Heater Components	OPEN	Station
288	38300	TS1220-2	001015	Vapour Recovery - Part 2: Replace 012/034-38350- PV3/4/14/15, and 1/2/3/4-38310-PV2/21/19/129 w/A New Design	OPEN	Station
289	38300	TS1220-3	001019	Vapour Recovery - Part 2: Monitor Performance of New Moisture Elements	OPEN	Station
290	41800	TS0680-6	000585	Moisture Separator Reheater: Expand Scope of Inspection of MOVs and Repair as Required	OPEN	Station
291	43000	TS0590-17	000698	Boiler Feedwater System: Pressure Regualting Valves	OPEN	Station
292	43000	TS0880-23	000656	Bundled Commodity Group: Boiler Feed Water System - Replacement of Flow Controllers	OPEN	Station
293	43000	TS0590-1	000148	Boiler Feedwater System: Pneumatic Pressure Controllers	OPEN	Station
	43000	TS0590-2		Boiler Feedwater System: Lube Oil Pumps for ABFPs	OPEN	Station

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## **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
295	43000	TS0590-3	000671	Boiler Feedwater System: Internal Inspection of Gland Seal Strainers (Contingency)	OPEN	Station
296	43000	TS0590-5	000755	Boiler Feedwater System: Overhaul of Actuators Not Being Upgraded	OPEN	Station
297	43000	TS0590-6	000756	Boiler Feedwater System: Perform Internal Inspection of a Representative Sample of 43000-NVs	OPEN	Station
298	43000	TS0590-9	000937	Boiler Feedwater System: MBFP Auxiliary Oil Pumps	OPEN	Station
299	43000	TS0590-10	000937	Boiler Feedwater System: Pump Motor Bearings	OPEN	Station
300	43000	TS0590-11	000938	Boiler Feedwater System: Gland Seal Water Pumps	OPEN	Station
301	43000	TS0590-12	000939	Boiler Feedwater System: BFP Main Lube Oil Pumps	OPEN	Station
302	43000	TS0590-13	003177	Boiler Feedwater System: Replace Level Swithces That Provide Logic Input for the Boiler Feedwater Gland Seal Water Collection Tank	OPEN	Station
303	43000	TS0590-15	000677	Boiler Feedwater System: MCR and SCA Hand Switches	OPEN	Station
304	43000	TS0590-16	000678	Boiler Feedwater System: Alarm Unit Switches	OPEN	Station
305	43000	TS0590-19	000680	Boiler Feedwater System: BFP Speed Transducers	OPEN	Station
306	43000	TS0590-20	000753	Boiler Feedwater System: Main Boiler Feed Pumps	OPEN	Station
307	43000	TS0590-21	003200	Boiler Feedwater System: Air Check Valves	OPEN	Station
308	43000	TS0590-23	000871	Boiler Feedwater System: Manual Bypass Valves	OPEN	Station
309	43000	TS0590-27	000938	Boiler Feedwater System: Overhaul Gland Seal Water Pumps	OPEN	Station
310	43000	TS0590-28	000755	Boiler Feedwater System: Overhaul and Replacement of MOVs	OPEN	Station
311	43000	TS0590-29	000755	Boiler Feedwater System: Upgrade Obsolete Limitorque SMC Actuators	OPEN	Station
312	43000	TS0590-31	000939	Boiler Feedwater System: Replace Pumps and Couplings	OPEN	Station
313	43200	TS0590-18	000131	Boiler Feedwater System: Replace All Heat Exchangers	OPEN	Station
314	43200	TS0590-22	000671	Boiler Feedwater System: Gland Seal Strainer Replacement (Contingency)	OPEN	Station
315	44000	TS0610-1	001502	Main Condensate System: Internal Inspectino of a Sample of NVs (Contingency)	OPEN	Station
316	44000	TS0610-16	001502	Main Condensate System: Overhaul/Replacement of Main CE Pump Discharge Check Valves	OPEN	Station
317	44000	TS0880-24	001567	Bundled Commodity Group: Main Condensate System - Replacement of Electronic Controllers	OPEN	Station
318	44000	TS0610-4	001511	Main Condensate System: Main Condesate CEP Isolation Valves	OPEN	Station
319	44000	TS0610-5	001647	Main Condensate System: Replace Heater Drains Level Switches	OPEN	Station
320	44000	TS0610-6	002439	Main Condensate System: Replacement of Valves Before Restart of Refurbishment	OPEN	Station
321	44000	TS0610-7	002790	Main Condensate System: Condition Assessment of Valves for Both Dearator Relief Valves and Feedwater	OPEN	Station
322	44000	TS0610-8	001539	Main Condensate System: Change Request for Bearing Replacements and Motor Operator Overhauls	OPEN	Station
323	44000	TS0610-9	001619	Main Condensate System: Replace all Electronic Controller 64453 PC90 (D/A Pressure Control)	OPEN	Station
324	44000	TS0610-10	001567	Main Condensate System: Replace all Electronic Controller	OPEN	Station
325	44000	TS0610-11	002444	Main Condensate System: Replace Unit 4 Heater Gaskets	OPEN	Station
326	44000	TS0610-12	002448	Main Condensate System: Obtain Spares for Obsolete Transmitters	OPEN	Station
327	44000	TS0610-13	002871	Main Condensate System: Overhaul/Replacement of all Elastomers for MV4	OPEN	Station
328	44000	TS0610-19	001511	Main Condensate System: Replace all 36 CEP/MVs	OPEN	Station
329	44000	TS0610-20	002790	Main Condensate System: Replace/Repair DA and Heater AOVs	OPEN	Station
330	44000	TS1060-1	001645	Main Condensate System - Part 2: Main Condensate Heater Drains Level Control Valves	OPEN	Station

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## **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
331	44500	TS0880-26	001619	Bundled Commodity Group: Main Condensate System - Replacement of Electronic Controllers	OPEN	Station
332	48100	TS1080-2	000566	Moisture Separator Reheater - Part 2: MSR Crit 1 2 Solenoid Valves	OPEN	Station
333	48100	TS1080-3	003521	Moisture Separator Reheater - Part 2: Level Controllers in MSR	OPEN	Station
334	49100	TS0580-1	003525	DNGS Standby Generators	OPEN	Station
335	49100	TS0580-2	001383	DNGS Standby Generators: Update Bill of Materials w/An Available Pressure Switch	OPEN	Station
336	49100	TS0580-3	001354	DNGS Standby Generators: Replace Bladder in the Accumulator	OPEN	Station
337	50310	TS0530-2	000141	Darlington Class I Power: Re-Enable The MCR Annunciation and Repair/Replace the MDS	OPEN	Station
338	50320	TS0540-2	000047	Class II Power System: UPS Replacement	OPEN	Station
339	50320	TS1050-1	000057	Class II Power System - Part 2: Replace Class II 45 VDC Group 1 Power Supplies	OPEN	Station
340	50330	TS0550-1	001531	Class III Power System: OH180 Recommended Maintenance	OPEN	Station
341	50340	TS0560-6	003244	Class IV Power System: Complete the Tapchanger Bypass Modification	OPEN	Station
342	50340	TS0560-2	000204	Class IV Power System: Fuses in 13.8kV VT and in 120/208 VAC FDP-s	OPEN	Station
343	50340	TS0560-3	001732	Class IV Power System: Revise NK38-CMI-53230-10001	OPEN	Station
344	50340	TS0560-4	000245	Class IV Power System: Implement the OH180 Recommended Maintenance	OPEN	Station
345	50340	TS0560-5	003126	Class IV Power System: Replace the Pressure Devices on the Transformer and Revise Model Work Order 1971220 Used for the Transformer Maintenance	OPEN	Station
346	50340	TS0560-8	000201	Class IV Power System: Create inspection of These Blocking Switches	OPEN	Station
347	50390	TS0170-2	003044	Emergency Power System: Replacement of the Hand Switches	OPEN	Station
348	51000	TS0570-1	000073	Main Power Output System: Concrete Dykes for Tranformers (Contingency)	OPEN	Station
349	51000	TS0570-3	001296	Main Power Output System: Implement Recommendation of the Dielectric Study of the MOT Transformers	OPEN	Station
350	51000	TS0570-5	001305	Main Power Output System: Tranformer Oil Coolers	OPEN	Station
351	51000	TS0570-6	001313	Main Power Output System: Implement Recommendation of the Dielectric Study of the Transformers	OPEN	Station
352	51000	TS0570-8	001287	Main Power Output System: Replace all IPB Cooling Dampers	OPEN	Station
353	51000	TS0570-9	001312	Main Power Output System: Replace all UST and SST VT Fuses	OPEN	Station
354	51000	TS0570-10	001314	Main Power Output System: Replace All IPB Pneumatic Cylinders	OPEN	Station
355	51000	TS0570-11	001315	Main Power Output System: Replace All IPB Solenoid Valves	OPEN	Station
356	51000	TS0570-12	001316	Main Power Output System: Replace All IPB Temperature Switches	OPEN	Station
357	51000	TS0570-13	001317	Main Power Output System: Replace All IPG Position Switches	OPEN	Station
358	51000	TS0570-14	001318	Main Power Output System: Order Set of Spares for the Generator Auto Synchronizing Unit and Replace All 600 Volt Fuses on the VTs	OPEN	Station
359	51000	TS0570-15	001320	Main Power Output System: Replace All LPSW to IPB Flow Switches	OPEN	Station
360	51000	TS0570-16	001322	Main Power Output System: Replace All IPB Pressure Switch	OPEN	Station

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## **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
361	51000	TS0570-17	000073	Main Power Output System: Repair Dyke Area and Rail Tracks Based on the Inspection (Contingency)	OPEN	Station
362	51000	TS0570-19	001292	Main Power Output System: Replace all Voltage Transformers	OPEN	Station
363	52500	TS0570-25	001313	Main Power Output System: SST TRANSFORMERS - Midlife Overhaul/Replacement of 500kV Bushings and Intrusive Inspection	OPEN	Station
364	52500	TS0570-26	001313	Main Power Output System: SST Transformers - Actions to remanufactre the Transformers (Contingency)	OPEN	Station
365	53200	TS0560-9	001732	Class IV Power System: Replace the Control Cabineton the Side of the Transformer	OPEN	Station
366	56000	TS1200-1	003529	Building Electrical Serices - Part 2: Replace Existing Fluorescent Lighting	OPEN	Station
367	56100	TS0910-1	003529	Fluorescent Lamp Fixtures	OPEN	Station
368	60215	TS0730-1	002617	Public Address Equipment System	OPEN	Station
369	60215	TS0920-1	002617	Replace PA System	OPEN	Station
370	60252	TS0140-1	000507	Emergency Communications System: Replacement of 2 Battery Chargers	OPEN	Station
371	60252	TS0140-2	000760	Emergency Communications System: Upgrade/Replacement of Emergency Communications System	OPEN	Station
372	62100	TS0120-2	000134	Darlington Airlocks And Transfer Chambers: Replacement of non EQ Pressure Switches on Containment Airlocks, Transfer Chamber, and Confinement Bulkheads	OPEN	Station
373	63106	TS0130-1	002850	Replacement of Impulse Line Tubing	OPEN	Station
374	63500	TS0420-2	002382	FH Control: Replace the FH Control Computer	OPEN	Station
375	63500	TS0420-3	002382	FH Control: Perform Study on Need of Computer Replacement to Reach Life Extension Target of 2050	OPEN	Station
376	63500	TS0420-4	002384	FH Control: Replace The Power Supplies of FH Control Computer (FHCC)	OPEN	Station
377	63500	TS0420-5	002384	FH Control: Replacement of All Power Supplies (FH ACE System, I/O System, FHCC, etc.)	OPEN	Station
378	63500	TS0420-6	003531	FH Control: FH Control Computer - Interprocessor Communication	OPEN	Station
379	63500	TS0420-7	003531	FH Control: Replace all Ethernet Interface and Associated Components	OPEN	Station
380	63500	TS0420-8	003532	FH Control: Review the Spare Situation for Peripheral Interface	OPEN	Station
381	63500	TS0420-9	003532	FH Control: Repair Defective Spares or Purchase Modules Not Covered by Project 16-33815 (Contingency)	OPEN	Station
382	63500	TS0420-10	003532	FH Control: Replacement of Various Peripheral Devices	OPEN	Station
383	63500	TS0420-11	003532	FH Control: Perform Study on Need to Replace Various Peripheral Devices (Contingency)	OPEN	Station
384	63500	TS0420-12	003532	FH Control: Repalce Various Peripheral Devices (Contingency)	OPEN	Station
385	63500	TS0420-13	002383	FH Control: Replace the I/O Subsystem and Associated Components and Cables	OPEN	Station
386	63500	TS0420-14	003083	FH Control: Replair the Defective ACE MFMs	OPEN	Station
387	63500	TS0420-15	003083	FH Control: Reprogram FPGA of All FH ACE Multi-Function Modules	OPEN	Station
388	63500	TS0420-18	002381	FH Control: Identify and Purchase Replacement Control Relays	OPEN	Station
389	63500	TS0420-19	003531	FH Control: Procurement of Life-Time Spares for DZ11 Serial Multiplexer Module for Interprocessor Communication	OPEN	Station
390	63500	TS0420-21	002383	FH Control: Procurement of Life-Time Spares for the Multiplexer	OPEN	Station
391	63500	TS0420-22	003083	FH Control: Procurement of Life-Time Spares for FH ACE	OPEN	Station

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## **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
392	63500	TS0420-23	003531	FH Control: Procurement of Life-Time Spare for the Ethernet Interface Module	OPEN	Station
393	63700	TS0220-7	000393	Darlington Reactor Regulating: Replace all Logic Control and 'Too Many Adjusters Driving Out' Modules	OPEN	Station
394	63700	TS0220-10	000409	Darlington Reactor Regulating: Replace Control Absorber Clutch Power Supplies	OPEN	Station
395	63700	TS0220-11	000407	Darlington Reactor Regulating: Existing PM's to Replace Subcomponents	OPEN	Station
396	67989	TS0740-1	003490	Radiation Monitors and Samplers: Replace Labserco Tritium	OPEN	Station
397	67989	TS0740-2	003493	Radiation Monitors and Samplers: Replace Liquid Effluent Monitoring System	OPEN	Station
398	67989	TS0740-3	000489	Radiation Monitors and Samplers: Replace Radiation Monitors and Detectors	OPEN	Station
399	67989	TS0740-4	000490	Radiation Monitors and Samplers: Repalce Computers and Modicons for the Stack Monitor System	OPEN	Station
400	67989	TS0740-5	000494	Radiation Monitors and Samplers: Annual Calibtration for 16 Liquid Effluent Gamma Monitor	OPEN	Station
401	67989	TS0740-6	002272	Radiation Monitors and Samplers: Panel Gas Chromatograph	OPEN	Station
402	67989	TS0740-7	002641	Radiation Monitors and Samplers: Replace R22 Devices	OPEN	Station
403	68000	TS0350-2	003435	Replacement of the SDS2 Trip Computer (Item #1)	OPEN	Station
404	68000	TS0350-3	003436	Replacement of the SDS2 Trip Computer (Item #1)	OPEN	Station
405	68000	TS0350-4	003437	Replacement of the SDS2 Trip Computer (Item #1)	OPEN	Station
406	68200	TS0240-2	002789	Shutdown System 1 Process: Replace Shutoff Rod Clutch Power Supplies on all Units	OPEN	Station
407	68200	TS0240-4	000777	Shutdown System 1 Process: Replace and Procure Ion Chamber Detectors for Life Extension	OPEN	Station
408	68200	TS0240-5	000790	Shutdown System 1 Process: Replace Relay Cards and Diodes	OPEN	Station
409	68200	TS0240-9	000783	Shutdown System 1 Process: Replace Ion Chamber Amplifiers	OPEN	Station
410	68300	TS0260-4	000856	Shutdown System 2 Process: Replace all Electronic Amplifiers	OPEN	Station
411	68300	TS0260-7	002942	Shutdown System 2 Process: Identify an Acceptable Replacement for the LISS Flow Indicators	OPEN	Station
412	69000	TS0360-1	003459	DC&M Computer Spares - High Priority Miscellaneous Equipment Replacement	OPEN	Station
413	69000	TS0360-4	000709	DC&M Computer Spares - Class II ATS Relay Replacement	OPEN	Station
414	69000	TS0360-5	000732	DC&M Computer Spares - Keyboards and Electronics Assessment	OPEN	Station
415	69000	TS0360-6	003467	DC&M Computer Spares - Miscellaneous Equipment	OPEN	Station
416	69000	TS0360-9	003462	DC&M Computer Spares - Keyboard and Electronics Replacement	OPEN	Station
417	69100	TS0360-3	000710	Computer Spares Acquisition Strategy and Implementation: Replace the DCC, CP, and SEM CPUs	OPEN	Station
418	71000	TS0600-1	000910	Circulating Water System: Perform CCW Screen Was Pumps Condition Assessment (Contingency)	OPEN	Station
419	71000	TS0600-2	000972	Circulating Water System: Inspection of Vacuum Priming Tanks (Contingency)	OPEN	Station
420	71000	TS0600-3	000916	Circulating Water System: Vacuum Priming Pump Condition Assessment (Contingency)	OPEN	Station
421	71000	TS0600-4	000999	Circulating Water System: Inspect CD Waterbox Isolation MOVs	OPEN	Station
422	71000	TS0600-5	001000	Circulating Water System: Performance Engineering, Water Management Section to Evaluate a Successful Execution of WO 2106838 (Contingency)	OPEN	Station
423	71000	TS0600-10	001000	Circulating Water System: Frazil Ice Recirculation Protection Gate (Contingency)	OPEN	Station

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# **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
424	72000	TS0630-4	000558	Service Water System: Replacement of LPSW Check Valve 0-72100-NV409	OPEN	Station
425	72000	TS0630-5	003151	Replacement of copper lines on Service Water Systems	OPEN	Station
426	72100	TS0630-1	003142	Service Water System: Inspections on PULSW Motorized Bypass Valve (Contingency)	OPEN	Station
427	72100	TS0630-2	000609	Service Water System: Inspect and Reassess LPSW Travelling Screens (Contingency)	OPEN	Station
428	72200	TS0620-1	000517	Recirculating Cooling Water System	OPEN	Station
429	72300	TS0630-9	003142	Service Water System: Overhaul/ Replacement of MV51 (Contingency)	OPEN	Station
430	72800	TS0180-7	002090	Overhaul of Valves/Actuators	OPEN	Station
431	72800	TS0180-8	002667	Overhaul or Replace EWS Steam Generator Injection Valves	OPEN	Station
432	72800	TS0180-2	002726	Investigate New Technologies in Industry for Pipe Repair	OPEN	Station
433	72800	TS0180-4	002038	Resolve Obsolescence of Vibration Transducers for ESW Pumps	OPEN	Station
434	72800	TS0180-5	002038	Replace Vibration Monitoring System	OPEN	Station
435	72800	TS0180-6	001964	Replace Pressure Controllers	OPEN	Station
436	72800	TS0180-9	002735	Overhaul of 012-72800-MV112, 034-72800-MV292 and 1 to 4-72800-MV129, MV131 Actuators	OPEN	Station
437	72800	TS1270-1	001965	Emergency Service Water - Part 2: Replace Unit 0 Supply Pressure Control PCVs and Their Isolating Valves	OPEN	Station
438	72800	TS1270-2	001966	Emergency Service Water - Part 2: Inspect/Replace the TRV Temperature Element	OPEN	Station
439	73100	TS0690-1	003495	Powerhouse Heating And Construction Boiler: Copmprehensive Inspection of the Deaerator	OPEN	Station
440	73100	TS0690-2	003508	Powerhouse Heating And Construction Boiler: Boilerhouse Project Construction - Replacement of Level Control Components	OPEN	Station
441	73100	TS0690-3	003512	Powerhouse Heating And Construction Boiler: Boilerhouse Project Construction - Replacement/Refurbishment of the Entire Boilerhouse Building Structure	OPEN	Station
442	73100	TS0690-4	003516	Powerhouse Heating And Construction Boiler: Boilerhouse Project Construction - Repalcement of All Heat Tracing Lines	OPEN	Station
443	73100	TS0690-5	003520	Powerhouse Heating And Construction Boiler: Boilerhouse Project Construction - Initiate PM Program for Transformer Oil Samples	OPEN	Station
444	73100	TS0690-6	002322	Powerhouse Heating And Construction Boiler: Boilerhouse Project Construction - Overhaul and Ensure Fully Functional Valves	OPEN	Station
445	73100	TS0690-7	002330	Powerhouse Heating And Construction Boiler	OPEN	Station
446	73100	TS0690-8	002325	Powerhouse Heating And Construction Boiler: Boilerhouse Project Construction - Replacement of Piping	OPEN	Station
447	73100	TS0690-9	002329	Powerhouse Heating And Construction Boiler: Boilerhouse Project Construction - Replacement of PCs	OPEN	Station
448	73100	TS0690-10	003517	Powerhouse Heating And Construction Boiler: Boilerhouse Project Construction - Replacement of All Pipe Supports/Brakcets	OPEN	Station
449	73100	TS0690-11	003518	Powerhouse Heating And Construction Boiler: Boilerhouse Project Construction - Replacement of Steam Trap Internals	OPEN	Station
450	73100	TS0880-9	002187	Bundled Commodity Group: Reactor Vault Fuelling Duct Atmosphere Cooling - Replacement of all TEs	OPEN	Station
451	73100	TS1180-1	002320	Powerhouse Heating and Construction Boiler - Part 2: Inspect Steam MOVs	OPEN	Station
452	73100	TS1180-2	002320	Powerhouse Heating and Construction Boiler - Part 2: Overhaul/Replace Valves (Contingency)	OPEN	Station

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## **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
453	73200	TS0700-3	002527	Powerhouse Heating and Ventilation: Inspection of Select Dampers	OPEN	Station
454	73200	TS0700-1	002517	Powerhouse Heating and Ventilation: Conduct Inspection/Replacement to Quanitfy Degradtion of the Outage Replacement Dampers	OPEN	Station
455	73200	TS0700-2	002526	Powerhouse Heating and Ventilation: Replacement of ACUs	OPEN	Station
456	73200	TS0700-4	002547	Powerhouse Heating and Ventilation: Update Related PMs and Procedures	OPEN	Station
457	73200	TS0700-5	002541	Powerhouse Heating and Ventilation: Overhaul/Replacement of all the PRVs	OPEN	Station
458	73200	TS0700-6	003312	Powerhouse Heating and Ventilation: Conduct Inspection of the Morotized Dampers	OPEN	Station
459	73200	TS0700-7	002521	Powerhouse Heating and Ventilation: Inspections on Select Dampers (Contingency)	OPEN	Station
460	73200	TS0700-8	003320	Powerhouse Heating and Ventilation: Reaplce Signal Selectors)	OPEN	Station
461	73200	TS0700-9	002517	Powerhouse Heating and Ventilation: Replacement of Dampers (Contingency)	OPEN	Station
462	73200	TS0700-10	002527	Powerhouse Heating and Ventilation: Replacement of Dampers (Contingency)	OPEN	Station
463	73200	TS0700-11	003312	Powerhouse Heating and Ventilation: Contingency for Item #6	OPEN	Station
464	73200	TS0700-12	003320	Powerhouse Heating and Ventilation: Replacement of Dampers (Contingency)	OPEN	Station
465	73220	TS1240-1	002458	Powerhouse Ventilation-B (PSVS) - Part 2: Refurbishment of Dampers	OPEN	Station
466	73700	TS0880-21	002193	Bundled Commodity Group: Reactor Vault Fuelling Duct Atmosphere Cooling - Replacement of all TCs	OPEN	Station
467	73700	TS0880-22	003473	Bundled Commodity Group: Reactor Vault Fuelling Duct	OPEN	Station
468	73720	TS0280-8	003071	Reactor Vault And Fuelling Duct Atmosphere Cooling: Perform Investigation on Components	OPEN	Station
469	73720	TS0280-2	002193	Reactor Vault And Fuelling Duct Atmosphere Cooling: Replace all TCs in all Units	OPEN	Station
470	73720	TS0280-3	002187	Reactor Vault And Fuelling Duct Atmosphere Cooling: Replace all Temperature Elements (TE)	OPEN	Station
471	73720	TS0280-4	002191	Reactor Vault And Fuelling Duct Atmosphere Cooling: Replace, Calibrate, and Function Test the Temperature Trnasmitters	OPEN	Station
472	73720	TS0280-6	003071	Reactor Vault And Fuelling Duct Atmosphere Cooling: Address Limit Switches on Dampers and Inspect Mechanical Linkages in Dampers	OPEN	Station
473	73720	TS0280-9	003071	Reactor Vault And Fuelling Duct Atmosphere Cooling: Repalcement of All Back Draft Dampers	OPEN	Station
474	73750	TS0160-1	000310	Emergency Filtered Air Discharge System: Inspect Motor Operated Valves	OPEN	Station
475	73750	TS0160-2	000360	Emergency Filtered Air Discharge System	OPEN	Station
476	73750	TS0160-3	000350	Emergency Filtered Air Discharge System: Update PMO for Maintenance Strategy	OPEN	Station
477	73750	TS0160-4	000703	Emergency Filtered Air Discharge System: Update PMO Database to Include Maintenance Strategy	OPEN	Station
478	73750	TS0160-5	000332	Emergency Filtered Air Discharge System: Setup Maintenacne Activities and Update PMO	OPEN	Station
479	73750	TS0160-6	000339	Emergency Filtered Air Discharge System: Replacement of 4 Moisture Probes and Transmitters for EFADS	OPEN	Station
480	73750	TS0160-7	000701	Emergency Filtered Air Discharge System: Setup Maintenacne Activities and Update PMO	OPEN	Station
481	73750	TS0160-8	002071	Emergency Filtered Air Discharge System: Initiate ECR to Replace EFADS Computer and Associated Components	OPEN	Station

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# **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
482	73750	TS0160-9	000310	Emergency Filtered Air Discharge System: Overhauling or Replacement for the MOVs (Contingency for Item #1)	OPEN	Station
483	73800	TS0710-12	002274	Air Conditioning System-Miscellaneous Buildings: Inspection/Replacement of the Dampers (C 1/2 Equip Rms) (Contingency)	OPEN	Station
484	73800	TS0710-13	002275	Air Conditioning System-Miscellaneous Buildings: Inspection/Replacement of the Dampers (RB A/C Systems) (Contingency)	OPEN	Station
485	73800	TS0710-1	002285	Air Conditioning System-Miscellaneous Buildings: Flammable Storage Building	OPEN	Station
486	73800	TS0710-2	002286	Air Conditioning System-Miscellaneous Buildings: Control Valve Pneumatic Dampers (Contingency)	OPEN	Station
487	73800	TS0710-3	002287	Air Conditioning System-Miscellaneous Buildings: Safety Related ACU LPSW/Glycol Control Valves (Contingency)	OPEN	Station
488	73800	TS0710-4	002266	Air Conditioning System-Miscellaneous Buildings: Moisture Switches	OPEN	Station
489	73800	TS0710-5	002290	Air Conditioning System-Miscellaneous Buildings: Moisutre Switches	OPEN	Station
490	73800	TS0710-6	002261	Air Conditioning System-Miscellaneous Buildings: Inspection and Functional Checks for TSs	OPEN	Station
491	73800	TS0710-7	002253	Air Conditioning System-Miscellaneous Buildings: Replacement of ACU	OPEN	Station
492	73800	TS0710-8	002264	Air Conditioning System-Miscellaneous Buildings: Control Equipment Under SCI 73940 (RB A/C Systems)	OPEN	Station
493	73800	TS0710-9	002267	Air Conditioning System-Miscellaneous Buildings: Replace Obsolete Moisture Transmitters	OPEN	Station
494	73800	TS0710-10	002262	Air Conditioning System-Miscellaneous Buildings: Implement PMIDs for Temperature Controllers	OPEN	Station
495	73800	TS0710-11	002276	Air Conditioning System-Miscellaneous Buildings: Digital Output Controller (CI 1/2 Equip Rms)	OPEN	Station
496	73800	TS0710-14	002285	Air Conditioning System-Miscellaneous Buildings: Replace/Refurbish Dampers (Contingency)	OPEN	Station
497	73800	TS0710-15	002286	Air Conditioning System-Miscellaneous Buildings: Replace/Refurbish Dampers (Contingency)	OPEN	Station
498	73800	TS0710-16	002266	Air Conditioning System-Miscellaneous Buildings: Replace/Refurbish Dampers (Contingency)	OPEN	Station
499	73800	TS0710-17	002274	Air Conditioning System-Miscellaneous Buildings: Replace/Refurbish Dampers (Contingency)	OPEN	Station
500	73800	TS0710-18	002274	Air Conditioning System-Miscellaneous Buildings: Replace/Refurbish Dampers (Contingency)	OPEN	Station
501	73800	TS0720-1	002227	Miscellaneous Building And Structures Heating And Ventilation: Replace Modulating Dampers for EPS Building	OPEN	Station
502	73800	TS0720-2	002229	Miscellaneous Building And Structures Heating And Ventilation: Replace Control Valve	OPEN	Station
503	73800	TS0720-3	002233	Miscellaneous Building And Structures Heating And Ventilation: Replace the Air Intake Balancing Dampers for EPS EWS Control Equipment Rooms	OPEN	Station
504	73800	TS0720-4	002234	Miscellaneous Building And Structures Heating And Ventilation: Replace the Fire Dampers Serving the Flammable Storage Area	OPEN	Station
505	73800	TS0720-5	002232	Miscellaneous Building And Structures Heating And Ventilation: Replace Control Relays	OPEN	Station
506	73800	TS0720-6	002238	Miscellaneous Building And Structures Heating And Ventilation: Replace Transformers on the Power Supply	OPEN	Station
507	73800	TS0720-7	002982	Miscellaneous Building And Structures Heating And Ventilation: Position Switches of Fire Dampers and Ventilation Dampers	OPEN	Station
508	73800	TS0720-8	002986	Miscellaneous Building And Structures Heating And Ventilation: Inspections on Dampers	OPEN	Station

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# **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
509	73800	TS0720-9	002986	Miscellaneous Building And Structures Heating And Ventilation: Replacement of Dampers in Chlorination Room in the WTP (Contingency)	OPEN	Station
510	73900	TS0190-3	001842	Darlington HVAC System For Main Control Room & Secondary Control Area: Sample Inspection/Replacement to Quantify Degradations and Determine Scope of Outage Replacement	OPEN	Station
511	73900	TS0190-2	002396	Darlington HVAC System For Main Control Room & Secondary Control Area: Inspection and Cleaning of 0-73930-HX4	OPEN	Station
512	73900	TS0190-4	001864	Darlington HVAC System For Main Control Room & Secondary Control Area: 12-year Replacement PM Implemented for the PRV's	OPEN	Station
513	73900	TS0190-5	001867	Darlington HVAC System For Main Control Room & Secondary Control Area: Sample Inspection/Replacement to Quantify Degradations and Determine Scope of Outage Replacement	OPEN	Station
514	73900	TS0190-6	001878	Darlington HVAC System For Main Control Room & Secondary Control Area: MV Component Numbers	OPEN	Station
515	73900	TS0190-8	001978	Darlington HVAC System For Main Control Room & Secondary Control Area: Sample Inspection/Replacement to Quantify Degradations and Determine Scope of Outage Replacement	OPEN	Station
516	73900	TS0190-9	002240	Darlington HVAC System For Main Control Room & Secondary Control Area: Return Humidification System Returned to Service	OPEN	Station
517	73900	TS0190-10	002396	Darlington HVAC System For Main Control Room & Secondary Control Area: Humidification System Returned to Service	OPEN	Station
518	73900	TS0190-11	002396	Darlington HVAC System For Main Control Room & Secondary Control Area: Clean/Replace the Listed Heat Exchanger Coil Internals	OPEN	Station
519	73900	TS0190-12	002407	Darlington HVAC System For Main Control Room & Secondary Control Area: Replace Electrostatic Precipitator and Add to F1/F2 Maintenance PM Once Installed	OPEN	Station
520	73900	TS0190-13	003478	Darlington HVAC System For Main Control Room & Secondary Control Area: Replacement of All Valve Assemblies During Refurb Outage	OPEN	Station
521	73900	TS0190-14	001842	Darlington HVAC System For Main Control Room & Secondary Control Area: Replace Fire Dampers Found Degraded	OPEN	Station
522	74000	TS0640-1	000096	Water Treatment Plant: Inspection of the WTP Structure	OPEN	Station
523	74000	TS0640-2	001187	Water Treatment Plant: Inspection of 2 Tanks w/4 Immersion Heaters	OPEN	Station
524	74000	TS0640-3	001192	Water Treatment Plant: Replacement of the WTP PLCs for EOL	OPEN	Station
525	74000	TS0640-4	001184	Water Treatment Plant: Replace External Insulation and Inner Rubber Liner in Each of the Three Filters	OPEN	Station
526	74000	TS0640-5	001185	Water Treatment Plant: Internally Reline Each of the Ion Exchangers	OPEN	Station
527	74000	TS0640-6	001196	Water Treatment Plant: Replace 10 NPS C.S Overhead Exhaust Lines	OPEN	Station
528	74000	TS0640-8	001187	Water Treatment Plant: Replace Immersion Heaters	OPEN	Station
529	75100	TS0650-4	001057	Compressed Air System: Implement OH180 Recommended Maintenance as per NK38-CORR-60800-0284309	OPEN	Station
530	78000	TS0660-1	000469	Fire Protection System: Replace the Obsolete Conventional Fire Alarm Panels	OPEN	Station
531	78300	TS0660-2	000707	Fire Protection System: Replace Diaphragm of the Foam Concentraet Tanks	OPEN	Station

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# **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
532	79700	TS0300-1	001774	Replace the Aactive Liquid Waste Collection Tank Liners	OPEN	Station
533	79720	TS1040-1	<del></del>	Active Liquid Waste System - Part 2: CSA Active Liquid Waste Collection System Pneumatic Valves	OPEN	Station
534		TS1690-1	002608	Replacement of Power cables for the Service Area Bridges and Carriages	OPEN	Station
535		TS1690-2	002609	Replacement of Signal Cables for the Service Area Bridges and Carriages	OPEN	Station
536		TS1690-3	002909	Replacement of all X and Y drive components for Service Area Bridges and Carriages	OPEN	Station
537		TS1690-4	003026	Procurement of 4 spare motors for the Service Area Bridges and Carriages	OPEN	Station
538		TS1690-5	002903	Procurement of 4 spare Ball screw and Jack assemblies for the Reactor Area Bridges	OPEN	Station
539		TS1690-6	002903	Procurement of 8 spare Ball Screw and Jack Assemblies for the Service Area Bridges	OPEN	Station
540		TS1810-1	002257	Miscellaneous A/C: Create PM for fan function and calibration check	OPEN	Station
541		TS1860-1	001008	Negative Pressure Containment: Piping condition assessment	OPEN	Station
542		TS1910-1	001162	Main HT Hand Controllers	OPEN	Station
543		TS1920-1	001258	Main HT Pump Motor Mount Labyrinth Air Pressure Switches	OPEN	Station
544		TS1960-1	000526	Service Water: Initiate PM for LPSW Pump Motors	OPEN	Station
545		TS1980-1	000863	SDS2: Prepare NICR for Conductivity Analyzer	OPEN	Station
546		TS2000-1	002580	Startup Instrumentation: PE evaluation for alarm module	OPEN	Station
547		TS2040-1	002711	FH Trolley: Clean, inspect and adjust brakes	OPEN	Station
548		TS2100-1	002749	IFB: Inspect strainers	OPEN	Station
549		TS2260-1	001535	Inspect nozzles of 0-34330-HX1 and HX2	OPEN	Station
550		TS2280-1	003085	DUCTWORK INSPECTION DURING COIL REPLACEMENT	OPEN	Station
551	21000	TS0120-3	000142	Darlington Airlocks And Transfer Chambers: Replacement of Seals on Emergency Doors	CLOSED	
552	30000	TS0880-4	001683	Bundled Commodity Group: Emergency Coolant Injection - Replacement of Temperature Transmitters	CLOSED	
553	31700	TS0210-12	000466	Negative Pressure Containment: Replacement of All Reactivity Mechanism Deck (RMD) Seals	CLOSED	
554	31770	TS0220-16	000402	Darlington Reactor Regulating: Inspection of Worm Gear Boxes	CLOSED	
555	32000	TS1070-2	000023	Moderator and Auxiliaries System - Part 2: Inspection of Manual Valves	CLOSED	
556	32000	TS0880-10	000721	Bundled Commodity Group: Moderator an Auxiliary System - Replace Level Switches	CLOSED	
557	32000	TS0880-12	000059	Bundled Commodity Group: Moderator an Auxiliary System - Replace MCR/SCA Hand Switches	CLOSED	
558	32000	TS0880-32	000104	Bundled Commodity Group: Moderator Auxiliaries System - Replacement of Pressure Regulating Valve	CLOSED	
559	33000	TS0880-43	001253	Bundled Commodity Group: Primary Heat Transport Auxiliaries System - Replacement of Hand Switches	CLOSED	
560	33000	TS0880-46	000285	Bundled Commodity Group	CLOSED	
561	33100	TS0100-3	002844	DNGS Primary Heat Transport Pressure and Inventory Control: One-Time Inspection of Piping System	CLOSED	
562	33100	TS0090-5		Inspect MOV Inter-Gate Overpressure Lines	CLOSED	
563	33100	TS0090-15		Contingency - Overhaul/Replace MOVs	CLOSED	
564	33200	TS0090-3		Inspect One Representative PHT Purification Strainer	CLOSED	
565	33300	TS0100-9	002844	DNGS Primary Heat Transport Pressure and Inventory Control: Replacement of Pipe Sections for 33310 - L62, L37, and 33320	CLOSED	
566	33300	TS0100-10	000161	DNGS Primary Heat Transport Pressure and Inventory Control: Replacement of Select AOVs	CLOSED	
567	33400	TS0110-4	003075	Inspect Flow Orifices (x28)	CLOSED	
568	33400	TS0880-14	001479	Bundled Commodity Group: Shutodwn Cooling System	CLOSED	

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## **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
569	33410	TS0110-1	001465	Video Inspection of Shell Side	CLOSED	
570	33410	TS0110-3	001468	Internal Inspection of 4 Representative Check Valves	CLOSED	
571	33410	TS0110-14	001468	Contingency for Check Valves	CLOSED	
572	34100	TS0070-2	000860	Inspect Piping of End Shield Cooling System	CLOSED	
573	34100	TS0070-4	000860	Contingency - Piping Associated with End Shield Cooling	CLOSED	
574	34200	TS0210-5	000450	Negative Pressure Containment: Inspection of NVs	CLOSED	
575	34200	TS0210-6	000462	Negative Pressure Containment: Inspection of the Flow Indicator	CLOSED	
576	34200	TS0210-7	000375	Negative Pressure Containment: Replace All Type I and II Diaphragms	CLOSED	
577	34200	TS0210-10	003481	Negative Pressure Containment: Performance Test on Pumps	CLOSED	
578	34200	TS0210-11	000413	Negative Pressure Containment: Replacement of O-Ring and Gasket in Vacuum Ducts (VD)	CLOSED	
579	34200	TS0210-14	000364	Negative Pressure Containment: Overhaul Other 2 Pumps (Contingency)	CLOSED	
580	34200	TS0210-16	000370	Negative Pressure Containment: Overhaul All HXs	CLOSED	
581	34200	TS0210-18	003481	Negative Pressure Containment: Overhaul Pumps Based on Performance Test (Contingency)	CLOSED	
582	34200	TS0880-28	000383	Bundled Commodity Group: Negative Pressure Containment - Replacement Current Alarm Units	CLOSED	
583	34200	TS1390-1	000446	Negative Pressure Containment - Part 2: Replace Handswitches in MCR/SCA	CLOSED	
584	34300	TS0150-7	003491	Contingency - Check Valves < 3"	CLOSED	
585	34300	TS0150-15	001456	Contingency - Check Valves > 3"	CLOSED	
586	34320	TS0150-4	001675	Inspection for All the Junction Boxes of ECI	CLOSED	
587	34320	TS0770-1	001696	ECI Pressure Breakdown Flow Elements	CLOSED	
588	34710	TS0260-1	002964	Shutdown System 2 Process: Perform Video/Visual Inspection on 1-34710-TK4	CLOSED	
589	34800	TS0200-4	000187	Liquid Zone Control System: Replace 34810-V152 in All Units w/Valve Qualified for Pressure Boundary Use	CLOSED	
590	34800	TS0200-5	000414	Liquid Zone Control System: Replace Liquid Zone Units (Contingency)	CLOSED	
591	35100	TS0380-2	002023	New Fuel Transfer: DC Motor Controllers	CLOSED	
592	35100	TS0380-3	002034	New Fuel Transfer: Cable Carrier Power Cable	CLOSED	
593	35100	TS0380-4	002035	New Fuel Transfer: Cable Carrier Signal Cable	CLOSED	
594	35210	TS0450-1	002403	FM Head: Perform a Fatigue Analysis of the Suspension Assembly	CLOSED	
595	35210	TS0450-4	002894	FM Head: Perform an Analysis to Determine if the Operating Cycles are Exceeded	CLOSED	
596	35210	TS0450-5	002371	FM Head: Cal Facility Electrical Components	CLOSED	
597	35210	TS0450-6	002894	FM Head: Replacement of Pressure Boundary Components of All FM's (Contingency)	CLOSED	
598	35210	TS0450-7	002373	FM Head: Replace Ancillary Ports Components	CLOSED	
599	35210	TS0450-13	002403	FM Head: Replacement of Suspension Assembly (Contingency)	CLOSED	
600	35220	TS0400-1	002613	Reactor and Service Area Bridges and Carriages: Coarse Bridge Motors and Coarse Carriage Motors - Inspection of One Motor (Contingency)	CLOSED	
601	35220	TS0400-2	002903	Reactor and Service Area Bridges and Carriages: Inspection of Ball Screws and Rebuild Jack Assembly	CLOSED	
602	35220	TS0400-3	002914	Reactor and Service Area Bridges and Carriages: Obsolescence Investigation and Disassembly of One Speed Reducer	CLOSED	
603	35220	TS0400-4	002906	Reactor and Service Area Bridges and Carriages: Fatigue Analysis on Steel Structures of RAB and SAB Columns	CLOSED	
604	35220	TS0400-5	002909	Reactor and Service Area Bridges and Carriages: Inspection of RAB Interconnecting Shafts, RAB Column Encoder and X Drive Racks, SAB Column Encoder Racks and Carriage Drive Pinions (Contingency)	CLOSED	

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# **CCA Field Activities**

		SCI	DSR	CCA	Field Activity	Current Status	Current Owner
Motorsy Brakes not Included (Contingency)	605	35220	TS0400-6	002920		CLOSED	
Structures of RAB and SAB Columns (Contingency)	606	35220	TS0400-7	003026	1	CLOSED	
	607	35220	TS0400-15	002906		CLOSED	
S3250   T50390-1   003059   FH Air Auxiliary: Aftercooler Unit in the Air Auxiliary System   CLOSED	608	35220	TS0400-21	003026		CLOSED	
CLOSED	609	35250	TS0390-1	003059	FH Air Auxiliary: Aftercooler Unit in the Air Auxiliary System	CLOSED	
612   35700   T50430-12   003082   FH Trolley: Replace 4 Motors that Drive 4 Shielding Doors in the FFAA Areas   the FFAA Areas   TFOHEY: Replace 4 Motors that Drive 4 Shielding Doors in the FFAA Areas   TFOHEY: Missally Inspect the Coupling Frame Bumper Bars   CLOSED   Drive Gear Box (Contingency)   CLOSED   T50430-20   002905   TFOHEY: Missally Inspect the Coupling Frame Bumper Bars   CLOSED   for Wear (Contingency)   TS0430-20   002905   Main Steam: Internal Inspection on Non-Return Valve   CLOSED	610	35250	TS0390-2	003060	FH Air Auxiliary: Reciever in the Air Auxiliary System	CLOSED	
612   35700   T50430-12   003082   FH Trolley: Replace 4 Motors that Drive 4 Shielding Doors in the FFAA Areas   the FFAA Areas   TFOHEY: Replace 4 Motors that Drive 4 Shielding Doors in the FFAA Areas   TFOHEY: Missally Inspect the Coupling Frame Bumper Bars   CLOSED   Drive Gear Box (Contingency)   CLOSED   T50430-20   002905   TFOHEY: Missally Inspect the Coupling Frame Bumper Bars   CLOSED   for Wear (Contingency)   TS0430-20   002905   Main Steam: Internal Inspection on Non-Return Valve   CLOSED	611	35250	TS0390-6	003060	FH Air Auxiliary: Air Receivers (Contingency)	CLOSED	
	-				FH Trolley: Replace 4 Motors that Drive 4 Shielding Doors in	CLOSED	
For Wear (Contingency)	613	35700	TS0430-13	002938		CLOSED	
616         36100         TS0670-4         000595         Main Steam: Inspection of Steam Generator Containment CLOSED           617         36400         TS0670-2         00593         Main Steam: Inspection of Steam Generator Containment CLOSED           618         38300         TS0290-1         001017         Vapor Recovery: Inspect a Sample of Vapor Recovery Valves         CLOSED           619         38300         TS1370-1         001011         Vapour Recovery - Part 3: Replace all the Dryers         CLOSED           620         38300         TS1370-3         001016         Vapour Recovery - Part 3: Inspect, Test, and Overhaul/Repalce AOVs           621         41800         TS0680-3         000574         Moisture Separator Reheater: Internal Inspection of Two Moisture Separator Drain NVs           622         41800         TS0680-3         000574         Moisture Separator Reheater: Internal Inspection of One Strainer per Unit           623         41800         TS0680-5         000584         Moisture Separator Reheater: Replace Manual Valves         CLOSED           624         41800         TS0680-8         000574         Moisture Separator Reheater: Expand Scope of Inspection of Nose Strainers to CloseD Include Inspection of the Other Strainer         CLOSED Include Inspection of MOVs         CLOSED Include Inspection of MOVs           625         41800         TS059	614	35700	TS0430-20	002905		CLOSED	
617         36400         TS0670-2         000593         Main Steam: Inspection of Steam Generator Containment         CLOSED           618         38300         TS0290-1         001017         Vapor Recovery: Inspect a Sample of Vapor Recovery Valves         CLOSED           619         38300         TS1370-1         001011         Vapour Recovery - Part 3: Replace all the Dryers         CLOSED           620         38300         TS1370-3         001016         Vapour Recovery - Part 3: Inspect, Test, and Overhaul/Repalce AOVs           621         41800         TS0680-2         003479         Moisture Separator Breater: Internal Inspection of Two Moisture Separator Paria NVs         CLOSED           622         41800         TS0680-3         000574         Moisture Separator Reheater: Internal Inspection of One Strainer per Unit         CLOSED           623         41800         TS0680-5         000584         Moisture Separator Reheater: Extend Scope of Inspection of NVs and Repair as Required         CLOSED           624         41800         TS0680-8         000574         Moisture Separator Reheater: Expand Scope of Strainers to Include Inspection of the Other Strainer         CLOSED           625         41800         TS0680-9         000584         Moisture Separator Reheater: Expand Scope of Valve         CLOSED           627         43000	615	36100	TS0670-1	000595	Main Steam: Internal Inspection on Non-Return Valve	CLOSED	
Isolation PVs	616	36100	TS0670-4	000595	Main Steam: Overhaul/Repalce Non-Return Valve	CLOSED	
19   38300   TS1370-1   001011   Vapour Recovery - Part 3: Replace all the Dryers   CLOSED	617	36400	TS0670-2	000593	· · · · · · · · · · · · · · · · · · ·	CLOSED	
Sason	618	38300	TS0290-1	001017	Vapor Recovery: Inspect a Sample of Vapor Recovery Valves	CLOSED	
AOVS  AOVS  AOVS  AOVS  AOUS	619	38300	TS1370-1	001011	Vapour Recovery - Part 3: Replace all the Dryers	CLOSED	
Moisture Separator Drain NVS  150680-3 000574 Moisture Separator Reheater: Internal Inspection of One Strainer per Unit Strainer per Unit Strainer per Unit 150680-5 000584 Moisture Separator Reheater: Replace Manual Valves (Contingency)  150680-7 003479 Moisture Separator Reheater: Extend Scope of Inspection of CLOSED NVs and Repair as Required Nvs and Repair as Required Noisture Separator Reheater: Expand Scope of Strainers to Include Inspection of the Other Strainer OctoSED Noisture Separator Reheater: Expand Scope of Valve Replacement Noisture Separator Reheater: Expand Scope of Valve CLOSED Replacement Noisture Separator Reheater: Expand Scope of Valve Replacement Noisture Separator Reheater: Expand Scope of Strainers to CLOSED Noisture Separator Reheater: Expand Scope of Strainers to CLOSED Noisture Separator Reheater: Expand Scope of Strainers to CLOSED Noisture Separator Reheater: Expand Scope of Inspection of Movs (CLOSED Noisture Separator Reheater: Expand Scope of Inspection of Movs (CLOSED Noisture Separator Reheater: Expand Scope of Inspection of Movs Autority Replacement Separator Reheater: Expand Scope of Inspection of Inspection of Movs Autority Replacement Separator Reheater: Expand Scope of Inspection of Inspection of Movs Autority Replacement Separator Reheater: Expand Scope of Inspection of Inspection of Inspecti	620	38300	TS1370-3	001016		CLOSED	
Strainer per Unit  Moisture Separator Reheater: Expand Scope of Inspection of Nys and Repair as Required  Moisture Separator Reheater: Expand Scope of Strainers to Include Inspection of the Other Strainer  Moisture Separator Reheater: Expand Scope of Strainers to Include Inspection of the Other Strainer  Moisture Separator Reheater: Expand Scope of Strainers to Include Inspection of the Other Strainer  Moisture Separator Reheater: Expand Scope of Strainers to Include Inspection of the Other Strainer  Moisture Separator Reheater: Expand Scope of Valve Replacement  CLOSED Rosea Scope of Valve Replacement Internat Inspection of MoVs Replacement Internal Inspection of Manual Scope of Valve Replacement Internal Inspection of Manual Scope of Valve Replacement Internal Inspection of Manual Scope of Valve Scope of	621	41800	TS0680-2	003479	· · · · · · · · · · · · · · · · · · ·	CLOSED	
Contingency    Closed   Clos	622	41800	TS0680-3	000574	· · · · · · · · · · · · · · · · · · ·	CLOSED	
NVs and Repair as Required  625 41800 TS0680-8 000574 Moisture Separator Reheater: Expand Scope of Strainers to Include Inspection of the Other Strainer  626 41800 TS0680-9 000584 Moisture Separator Reheater: Expand Scope of Valve Replacement  627 43000 TS0590-4 000755 Boiler Feedwater System: Internal Inspection of MOVS (Contingency)  628 43000 TS0590-7 000871 Boiler Feedwater System: Internal Inspection of Manual Bypass Valves (Contingency)  629 43000 TS0590-8 000893 Boiler Feedwater System: Internal Inspection of Manual Gate Valves (Contingency)  630 43000 TS0590-14 003194 Boiler Feedwater System: Internal Inspection of Internal NVS CLOSED  631 43000 TS0590-24 000893 Boiler Feedwater System: Internal Inspection of Internal NVS CLOSED  632 43000 TS0590-26 003194 Boiler Feedwater System: Manual Gate Valves CLOSED  633 43000 TS0590-30 000755 Boiler Feedwater System: Refurbishment/Replacements of 43000-NVs (RS)  634 43000 TS0880-11 000678 Bundled Commodity Group: Boiler Feedwater System (SGECS) CLOSED  635 43000 TS0880-15 000687 Bundled Commodity Group: Boiler Feedwater System (SGECS) CLOSED  636 43000 TS0880-45 000687 Replacement of MCR and SCA Hand Switches  637 Replacement of Analog Position Transmitter	623	41800	TS0680-5	000584	· · · · · · · · · · · · · · · · · · ·	CLOSED	
Include Inspection of the Other Strainer	624	41800	TS0680-7	003479	· · · · · · · · · · · · · · · · · · ·	CLOSED	
Replacement  Replacement  Replacement  Replacement  Replacement  Replacement  Replacement  Replacement  Replacement  Roman TS0590-4  Roman TS0590-7  Roman TS0590-7  Roman TS0590-7  Roman TS0590-8  Roman TS0590-8  Roman TS0590-8  Roman TS0590-14  Roman TS0590-15  Roman TS0590-16  Roman TS0590-16	625	41800	TS0680-8	000574	· · · · · · · · · · · · · · · · · · ·	CLOSED	
(Contingency)  628 43000 TS0590-7 000871 Boiler Feedwater System: Internal Inspection of Manual Bypass Valves (Contingency)  629 43000 TS0590-8 000893 Boiler Feedwater System: Internal Inspection of Manual Gate Valves (Contingency)  630 43000 TS0590-14 003194 Boiler Feedwater System: Internal Inspection of Internal NVs CLOSED  631 43000 TS0590-24 000893 Boiler Feedwater System: Manual Gate Valves CLOSED  632 43000 TS0590-26 003194 Boiler Feedwater System: Refurbishment/Replacements of 43000-NVs (RS)  633 43000 TS0590-30 000755 Boiler Feedwater System: Replace Obsolete Guelph Engineering Valve Bodies/Yokes  634 43000 TS0880-11 000678 Bundled Commodity Group: Boiler Feedwater System (SGECS) Replacement of MCR and SCA Hand Switches  636 43000 TS0880-45 000687 Bundled Commodity Group: Boiler Feedwater System (SGECS) - CLOSED Replacement of Analog Position Transmitter	626	41800	TS0680-9	000584	· · · · · · · · · · · · · · · · · · ·	CLOSED	
Bypass Valves (Contingency)  629 43000 TS0590-8 000893 Boiler Feedwater System: Internal Inspection of Manual Gate CLOSED  630 43000 TS0590-14 003194 Boiler Feedwater System: Internal Inspection of Internal NVs CLOSED  631 43000 TS0590-24 000893 Boiler Feedwater System: Manual Gate Valves  632 43000 TS0590-26 003194 Boiler Feedwater System: Refurbishment/Replacements of 43000-NVs (RS)  633 43000 TS0590-30 000755 Boiler Feedwater System: Replace Obsolete Guelph Engineering Valve Bodies/Yokes  634 43000 TS0880-11 000678 Bundled Commodity Group: Boiler Feedwater System (SGECS) CLOSED  635 43000 TS0880-16 000677 Bundled Commodity Group: Boiler Feedwater System (SGECS) CLOSED  636 43000 TS0880-45 000687 Bundled Commodity Group: Boiler Feedwater System (SGECS) CLOSED  637 Replacement of MCR and SCA Hand Switches  638 Replacement of Analog Position Transmitter	627	43000	TS0590-4	000755	· · · · · · · · · · · · · · · · · · ·	CLOSED	
Valves (Contingency)  630 43000 TS0590-14 003194 Boiler Feedwater System: Internal Inspection of Internal NVs CLOSED  631 43000 TS0590-24 000893 Boiler Feedwater System: Manual Gate Valves CLOSED  632 43000 TS0590-26 003194 Boiler Feedwater System: Refurbishment/Replacements of 43000-NVs (RS)  633 43000 TS0590-30 000755 Boiler Feedwater System: Replace Obsolete Guelph CLOSED Engineering Valve Bodies/Yokes  634 43000 TS0880-11 000678 Bundled Commodity Group: Boiler Feedwater System (SGECS) CLOSED  635 43000 TS0880-16 000677 Bundled Commodity Group: Boiler Feedwater System (SGECS) CLOSED Replacement of MCR and SCA Hand Switches  636 43000 TS0880-45 000687 Bundled Commodity Group: Boiler Feedwater System (SGECS) CLOSED Replacement of Analog Position Transmitter	628	43000	TS0590-7	000871	· · · · · · · · · · · · · · · · · · ·	CLOSED	
631 43000 TS0590-24 000893 Boiler Feedwater System: Manual Gate Valves CLOSED 632 43000 TS0590-26 003194 Boiler Feedwater System: Refurbishment/Replacements of 43000-NVs (RS) 633 43000 TS0590-30 000755 Boiler Feedwater System: Replace Obsolete Guelph CLOSED Engineering Valve Bodies/Yokes 634 43000 TS0880-11 000678 Bundled Commodity Group: Boiler Feedwater System CLOSED 635 43000 TS0880-16 000677 Bundled Commodity Group: Boiler Feedwater System (SGECS) - CLOSED 636 43000 TS0880-45 000687 Bundled Commodity Group: Boiler Feedwater System (SGECS) - CLOSED 637 Replacement of MCR and SCA Hand Switches 638 Replacement of Analog Position Transmitter	629	43000	TS0590-8	000893	· · · · · · · · · · · · · · · · · · ·	CLOSED	
63243000TS0590-26003194Boiler Feedwater System: Refurbishment/Replacements of 43000-NVs (RS)CLOSED63343000TS0590-30000755Boiler Feedwater System: Replace Obsolete Guelph Engineering Valve Bodies/YokesCLOSED63443000TS0880-11000678Bundled Commodity Group: Boiler Feedwater SystemCLOSED63543000TS0880-16000677Bundled Commodity Group: Boiler Feedwater System (SGECS) - Replacement of MCR and SCA Hand Switches63643000TS0880-45000687Bundled Commodity Group: Boiler Feedwater System (SGECS) - Replacement of Analog Position Transmitter	630	43000	TS0590-14	003194		CLOSED	
63243000TS0590-26003194Boiler Feedwater System: Refurbishment/Replacements of 43000-NVs (RS)CLOSED63343000TS0590-30000755Boiler Feedwater System: Replace Obsolete Guelph Engineering Valve Bodies/YokesCLOSED63443000TS0880-11000678Bundled Commodity Group: Boiler Feedwater SystemCLOSED63543000TS0880-16000677Bundled Commodity Group: Boiler Feedwater System (SGECS) - Replacement of MCR and SCA Hand Switches63643000TS0880-45000687Bundled Commodity Group: Boiler Feedwater System (SGECS) - Replacement of Analog Position Transmitter	631	43000	TS0590-24	000893	Boiler Feedwater System: Manual Gate Valves	CLOSED	
63343000TS0590-30000755Boiler Feedwater System: Replace Obsolete Guelph Engineering Valve Bodies/YokesCLOSED63443000TS0880-11000678Bundled Commodity Group: Boiler Feedwater SystemCLOSED63543000TS0880-16000677Bundled Commodity Group: Boiler Feedwater System (SGECS) - Replacement of MCR and SCA Hand SwitchesCLOSED63643000TS0880-45000687Bundled Commodity Group: Boiler Feedwater System (SGECS) - Replacement of Analog Position TransmitterCLOSED	-			<del></del>	Boiler Feedwater System: Refurbishment/Replacements of		
63443000TS0880-11000678Bundled Commodity Group: Boiler Feedwater SystemCLOSED63543000TS0880-16000677Bundled Commodity Group: Boiler Feedwater System (SGECS) - CLOSED63643000TS0880-45000687Bundled Commodity Group: Boiler Feedwater System (SGECS) - CLOSEDReplacement of Analog Position TransmitterCLOSED	633	43000	TS0590-30	000755	Boiler Feedwater System: Replace Obsolete Guelph	CLOSED	
635 43000 TS0880-16 000677 Bundled Commodity Group: Boiler Feedwater System (SGECS) - CLOSED  Replacement of MCR and SCA Hand Switches  636 43000 TS0880-45 000687 Bundled Commodity Group: Boiler Feedwater System (SGECS) - CLOSED  Replacement of Analog Position Transmitter	634	43000	TS0880-11	000678		CLOSED	
636 43000 TS0880-45 000687 Bundled Commodity Group: Boiler Feedwater System (SGECS) - CLOSED Replacement of Analog Position Transmitter	-				Bundled Commodity Group: Boiler Feedwater System (SGECS) -		
	636	43000	TS0880-45	000687	Bundled Commodity Group: Boiler Feedwater System (SGECS) -	CLOSED	
	637	44000	TS0610-15	002870	·	CLOSED	

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## **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
638	44000	TS0610-21	002444	Main Condensate System: Repalcement of all Heater Gaskets (Contingency)	CLOSED	
639	44300	TS0610-14	001498	Main Condensate System: Replacement of Lube Oil Coolers for CEP Motors	CLOSED	
640	48100	TS1080-1	000585	Moisture Separator Reheater - Part 2: Inspection of Each Moisture Separator Reheater MOV Type	CLOSED	
641	48100	TS1080-4	000585	Moisture Separator Reheater - Part 2: Overhaul/Replace Isolation Valves (Contingency)	CLOSED	
642	50000	TS0980-1	002050	Low and Medium Voltage Cables Replacement: Assess Potential Locations	CLOSED	
643	50310	TS0530-3	000144	Darlington Class I Power: Replace DSBYs Based on Inspection Results (Contingency)	CLOSED	
644	50340	TS0560-1	000201	Class IV Power System: Replace Corroded Blocking Switches on All 4 Units	CLOSED	
645	50340	TS0560-7	000201	Class IV Power System: Replace All Blocking Switches	CLOSED	
646	51000	TS0880-7	001318	Bundled Commodity Group: Main Power Output System - Replacement of all 600 Volt Fuses on the VTs	CLOSED	
647	51500	TS0570-2	001292	Main Power Output System: Replace all De-Ionizing Grids on the Isolated Phase Bus	CLOSED	
648	51500	TS0570-4	001301	Main Power Output System: Replace Entire Cooling Control System on the MOT, UST and SST transformers	CLOSED	
649	51500	TS0570-18	001292	Main Power Output System: Replace Surge Arrestors	CLOSED	
650	53000	TS0880-38	003044	Bundled Commodity Group: Emergency Power System - Replacement of Hand Switches	CLOSED	
651	53500	TS0540-3	000048	Class II Power System: Obtain Loading Data for Item (4) Tranformers	CLOSED	
652	53500	TS0540-4	000048	Class II Power System: Replace Item (4) Transformers	CLOSED	
653	55400	TS0530-1	000144	Darlington Class I Power: Physical Examination of DSBYs	CLOSED	
654	63106	TS0130-2		Replacement of All FINCH Venturi Flow Elements	CLOSED	
655	63500	TS0420-16	003083	FH Control: Replacement of the FH ACE System and Associated Components and Cables	CLOSED	
656	63700	TS0220-1	000308	Darlington Reactor Regulating: Inspection of the Spiroid Gear Set	CLOSED	
657	63700	TS0220-2	000402	Darlington Reactor Regulating: Replace Gear Boxes Based on Results of D1111 (Contingency)	CLOSED	
658	63700	TS0220-13	000308	Darlington Reactor Regulating: Replace Spiroid Gear Set (Contingency)	CLOSED	
659	63700	TS0220-4	000308	Darlington Reactor Regulating: Review the Phase I Outputs of COG Project on Clandria Vessels	CLOSED	
660	63700	TS0220-6	000308	Darlington Reactor Regulating: Replace Adjuster Rods Sealant and Seals	CLOSED	
661	63700	TS0220-8	000402	Darlington Reactor Regulating: Replace All O-Ring	CLOSED	
662	63700	TS0220-9	000402	Darlington Reactor Regulating: Replace Control Absorber Rods Seals	CLOSED	
663	63700	TS0220-12	000412	Darlington Reactor Regulating: Replace All Electronic Amplifiers for Both In-Core Flux Detectors and Ion Chambers	CLOSED	
664	63700	TS0220-14	000308	Darlington Reactor Regulating: Review the Phase I Outputs of COG Project	CLOSED	
665	66100	TS0370-2	001212	Legacy HFE Issues in the MCR	CLOSED	
666	68000	TS0350-9	003444	Replacement of the SDS2 Trip Computer (Item #1)	CLOSED	
667	68000	TS0350-10	003446	Replacement of the SDS2 Trip Computer (Item #1)	CLOSED	
668	68000	TS0350-11	003447	Replacement of the SDS2 Trip Computer (Item #1)	CLOSED	
669	68000	TS0350-12		Replacement of the SDS2 Trip Computer (Item #1)	CLOSED	
670	68000	TS0350-13		Replacement of the SDS2 Trip Computer (Item #1)	CLOSED	
671	68000	TS0350-14		Replacement of the SDS2 Trip Computer (Item #1)	CLOSED	
672	68000	TS0350-15	003453	Replacement of the SDS2 Trip Computer (Item #1)	CLOSED	
673	68000	TS0350-16		Replacement of the SDS2 Trip Computer (Item #1)	CLOSED	
674 675	68000 68000	TS0350-17 TS0350-18		Replacement of the SDS2 Trip Computer (Item #1)  Replacement of the SDS2 Trip Computer (Item #1)	CLOSED CLOSED	
0/3	00000	130330-10	003430	inchiacement of the 3032 Trip Computer (Item #1)	CLUSED	

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### **CCA Field Activities**

	SCI	DSR	CCA	Field Activity	Current Status	Current Owner
676	68200	TS0240-1	002037	Replacement of Instrument Lines during Refurbishment	CLOSED	
677	68200	TS0240-6	000776	Shutdown System 1 Process: Replace all Rod Ready Switches	CLOSED	
678	68200	TS0240-8	000766	Shutdown System 1 Process: Replace Flux Detector Amplifiers	CLOSED	
679	68300	TS0260-9	002964	Shutdown System 2 Process: Repalce 34710-TK4 (Contingency)	CLOSED	
680	68300	TS0260-2	000861	Shutdown System 2 Process: Replace all SDS2 Orifice Flow Elements	CLOSED	
681	68300	TS0260-5	003037	Shutdown System 2 Process: Recommended Actions of SDS2 Intrument Tubing	CLOSED	
682	68300	TS0260-6	000886	Shutdown System 2 Process: Replacement of All SDS2 Ion Chamber Detectors	CLOSED	
683	69000	TS0360-10	003463	Misc Computor Equipment (Item #1)	CLOSED	
684	69000	TS0360-11	003464	Misc Computor Equipment (Item #1)	CLOSED	
685	69000	TS0360-12	003465	Misc Computor Equipment (Item #1)	CLOSED	
686	69000	TS0360-13	003466	Misc Computor Equipment (Item #1)	CLOSED	
687	69000	TS0360-14	003467	Misc Computor Equipment (Item #1)	CLOSED	
688	69000	TS0360-15	003468	Misc Computor Equipment (Item #1)	CLOSED	
689	69000	TS0360-16	003469	Misc Computor Equipment (Item #1)	CLOSED	
690	71000	TS0600-6	000910	Circulating Water System: Screen Wash Pumps (Contingency)	CLOSED	
691	71000	TS0600-7	000972	Circulating Water System: Vacuum Priming Tanks	CLOSED	
692	71000	TS0600-9	000999	Circulating Water System: CD Waterbox Isolation MOVs	CLOSED	
693	71000	TS0600-11	000916	Circulating Water System: Replace Vacuum Priming Pumps (Contingency)	CLOSED	
694	72000	TS0880-13	000517	Bundled Commodity Group: Recirculating Cooling Water System	CLOSED	
695	72100	TS0630-10	000609	Service Water System: Overhaul/Replacement of Screens (Contingency)	CLOSED	
696	72800	TS0180-3	002032	Perform an Internal Inspection of ESW Piston Check Valves	CLOSED	
697	73720	TS0280-5	002209	Reactor Vault And Fuelling Duct Atmosphere Cooling: Rebuild all Dampers	CLOSED	
698	73720	TS0280-7	002192	Reactor Vault And Fuelling Duct Atmosphere Cooling: Install Chillers for LPSW to the Vault Coolers	CLOSED	
699	75100	TS0650-1	001089	Compressed Air System: Repalce Breathing Air System NVs	CLOSED	
700	75100	TS0650-2	002429	Compressed Air System: Repalce Dryers	CLOSED	
701	79700	TS0310-1	001778	Internal Inspection of ALW Ion Exchange Columns	CLOSED	
702	79700	TS0310-2	001779	Perform Internal Inspection of ALW Filtration	CLOSED	
703	79700	TS1040-3	001573	Active Liquid Waste System - Part 2: Repalce the ALW PV Solenoid Valves	CLOSED	
704		TS1380-1	000446	BUNDLED COMMODITY - PART 2	CLOSED	
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1	<u>UNDERTAKING JT2.8</u>
2	
3	<u>Undertaking</u>
4	
5	To provide, on a confidential basis, the calculation that resulted in a 5 percent reduction
6	in contingency in the response to Board Staff interrogatory 31(b).
7	
8	
9	<u>Response</u>
10	
11	Confidential Response

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1	UNDERTAKING JT2.9
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3	<u>Undertaking</u>
4	
5	To confirm whether a breakout of contingencies, management reserve, interest and
6	escalation from the total Darlington budget is shown in the business case, and if not, to
7	make best efforts to provide it.
8	
9	
10	<u>Response</u>
11	
12	Confidential Response

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6 7 8

9 10 11 Response

**Undertaking** 

Please find below an estimate of OPG's cost for the current application.

(\$k)	2010	2011	2012	2013 Bridge Year	2014 Test Year
Expert Witness costs	0	1,216	316	474	130
Legal costs	0	0	43	213	750
Consultants' costs	0	130	125	512	290
Incremental operating expenses associated with staff resources allocated to this application.	0	0	0	0	0
Incremental operating expenses associated with other resources allocated to this application. Please identify resources involved.	0	0	0	100	200
Intervenor costs	0	0	0	200	1,600
TOTAL	\$ -	\$ 1,346	\$ 484	\$ 1,498	\$ 2,970

**UNDERTAKING JT2.13** 

To make best efforts to provide details on the company's costs for this application.

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14 Notes

Notes to the Table:

- (a) Costs presented in the table are associated with OPG's EB-2013-0321 rate application.
- (b) Data for Historical Years (2010, 2011 and 2012) is consistent with Ex. F3-1-3, Table 1. Actual costs are shown for 2013 and projections are shown for 2014.
- (c) External Witness costs incurred in 2011 and 2012 are associated with studies and reports that the OEB, in its EB-2010-0008 Decision with Reasons dated March 10, 2011, directed OPG to complete. These studies and reports were completed in 2011 and 2012 as OPG had originally planned to file a rate application in 2012. The 2011 costs shown in the above table are \$70.0k higher than the number shown in Ex. L-6.9-1 Staff-134 due to accruals reversal on contracts not related to the EB-2013-0321 rate application.
- (c) OPG has interpreted the phrase "incremental operating expenses associated with staff resources allocated to this application" to mean expenses incurred by Regulatory Affairs that are beyond the Regulatory Affairs Department's approved budget. As indicated in the table, no such incremental expenses were allocated to this application.
- (d) Incremental operating expenses associated with other resources allocated to this application consist of projected Section 30 expenses. Some of these expenses were accrued in 2013 as the application was filed on September 27, 2013.
- (e) Intervenor costs are projections and some of these costs were accrued in 2013 as the application was filed on September 27, 2013.

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#### **UNDERTAKING JT2.16**

#### **Undertaking**

To confirm whether a report exists related to the electricity utility HR metrics data, and provide it or explain why it will not be provided.

#### Response

There is no "HR Metrics" study or report.

The Electric Utility HR Metrics Group referenced at Ex. F3-1-1, pp. 14 - 15 benchmarks HR Functions across utilities based on a standard definition of the function. OPG participates in this HR benchmarking annually and submits data electronically. The raw data from all of the submitting organizations is then summarized and provided to the participating organizations along with some high level analysis.

The summary allows participating organizations to review the data and report any errors in the data or analysis. Reported errors are then corrected in the raw blinded data and participating organizations are given access to the updated database. Participating organizations are then free to use the data in the system in any way they deem to be useful / appropriate.

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1	UNDERTAKING JT2.18
2	
3	Undertaking
4	
5	To advise what percentage of the 10,375 headcount appears on the sunshine list.
6	
7	
8	<u>Response</u>
9	
10	There were 7,958 OPG employees reported in the 2013 Public Sector Salary Disclosure
11	list.
12	
13	7,958 / 10,375 = 77%
14	N
15	Note that 10,375 is OPG's headcount target at year end 2016 and relates only to regular
16	employees from ongoing operations, while 7,958 is a historical number as of year-end
17	2013 and relates to all employees of OPG.

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**UNDERTAKING JT2.19** 1 2 3 **Undertaking** 4 5 To provide a reconciliation of the OPG sunshine list with the people actively employed 6 by the company at the time the list was produced. 7 8 9 Response 10 11 OPG has provided the requested reconciliation in the attached list which identifies 12 employees who were reported under the 2013 Public Sector Salary Disclosure Act and 13 are above \$200,000. The attached list indicates employees who are no longer with OPG 14 with an asterisk. 15 As of April 24<sup>th</sup>, 2014, 471 employees who were reported under the 2013 Public Sector 16 Salary Disclosure Act are no longer with OPG. 17 18 19 As of April 24<sup>th</sup>, 2014, 39 employees who were reported under the 2013 Public Sector 20 Salary Disclosure Act AND above \$200,000 are no longer with OPG.

JT2.19

Attachment 1 Page 1 of 8

Salary Paid	<u>Surname</u>	Given Name	Position
\$1,714,000.04	MITCHELL	THOMAS	President & Chief Executive Officer
\$915,850.96	* ROBBINS * MURPHY	WAYNE	Chief Nuclear Officer
\$903,970.54	MORITI	JOHN DONN M	Executive Vice President, Strategic Initiatives
\$664,974.28	* <u>HANBIDGE</u> * CHIAROTTO	DONN W. FRANK	Senior Vice President & Chief Financial Officer Senior Advisor Joint Ventures
\$605,838.56 \$593,399.66	TREMBLAY	PIERRE F.	President Canadian Nuclear Partners
\$531,669.69	PASQUET	PAUL	Senior Vice President
\$520,591.56	ELLIOTT	WILLIAM	Senior Vice President Senior Vice President, Nuclear Engineering & Chief Nuclear Engineer
\$514,030.50	BOLAND	BRUCE	Senior Vice President, Nuclear Engineering & Chief Nuclear Engineer Senior Vice President Commercial Operations & Environment
\$514,030.30 \$510,174.98	JAGER	GLENN	Chief Nuclear Officer
\$503,688.77	GRIFFITHS	MICHAEL	Control Room Shift Supervisor
3497,344.62	KOKUS	TONY	Senior Thermal Station Engineer/Officer
3468,892.21	KEENAN	BARBARA	Senior Vice President People, Culture & Chief Ethics
5449,400.40	DUNCAN	BRIAN	Senior Vice President Darlington
5449,319.04	GINTHER	CHRISTOPHER	Senior Vice President, Law & General Counsel
6437,916.74	REINER	DIETMAR E.	Senior Vice President Nuclear Refurbishment
426,994.00	ALLEN	MICHAEL	Deputy Site Vice President
3411,841.25	MARTIN	SCOTT	Senior Vice President Business & Administration Services
406,944.06	GRANVILLE	SEAN	Senior Vice President
405,533.64	HEARD	ROBIN	Vice President Finance, Chief Controller & Chief Accounting Officer
393,824.92	PHILLIPS	BRYCE	Senior Vice President, Pickering
377,063.25	* PECKHAM	MICHAEL	Vice President, Projects & Modifications
375,107.98	WOODS	STEVE	Vice President Fleet Operations & Maintenance
368,900.89	* SWEETNAM	ALBERT	Executive Vice President, Nuclear Projects
358,008.15	* DERMARKAR	FRED	Vice President Engineering Strategy
351,126.00	CLIVER	STEPHUN	Chief Supply Officer
349,801.85	MARTELLI	MIKE	Senior Vice President Hydro Thermal Operations
344,698.10	BHAGWANDIN	DANNY	Control Room Shift Supervisor
342,358.90	HYSON	WILLIAM	Control Room Shift Supervisor
339,692.42	MARCUZZI	RENZO	Vice President Electricity Sales & Trading
326,912.89	GUGLIELMI	FRANCESCO	Director Operations & Maintenance
326,489.70	* POWER	DONALD J.	Vice President Investment Planning
322,754.05	CROZZOLI	CARLO	Senior Vice President Corporate Business Development & Chief Risk Off
320,971.60	SKREPNEK	EDWARD	Control Room Shift Supervisor
320,636.67	KIM	JONG DEA	Chief Information Officer
318,266.32	EVANS	HENRY	Authorized Nuclear Operator
316,743.61	WARDROP	CRAIG	Director
314,857.45	WILKINS	KEN	Authorization Training Supervisor
314,432.53	THERRIEN	PIERRE	Authorized Nuclear Operator
308,559.40	SHIEVER	ALAN	Vice President Learning & Development
306,886.97	YOUNG	CHRIS M.	Vice President Hydro Thermal Project Execution
305,752.02	KING	CATRIONA	Vice President Corporate Secretary & Executive Operations
304,471.82	ARSENAULT	IVAN	Authorization Training Supervisor
304,156.55	RAMJIST	STEPHEN	Director Operations & Maintenance
303,646.08	BARRETT	ANDREW P.	Vice President Regulatory Affairs
302,363.42	SIMOES	ALBERTO	Contract - Senior Advisor
300,879.00	RIVIERE	COLVIN	Control Room Shift Supervisor
300,369.41	SAVAGE	MIKE	Control Room Shift Supervisor
298,951.32	HOSEIN	RON	Shift Manager
5298,587.54	BURKE	PAUL J.	Vice President Integrated Revenue Planning
298,380.18	KING	PETER	Manager, Operations Production
297,882.60	RUNKOWSKI	CHRISTIAN	Authorized Nuclear Operator
297,459.97	SPEKKENS	PAUL	Vice President, Science & Technology
3297,039.33	GILBERT	KEN	Director Operations & Maintenance
296,962.93	LOUGHEED	MARTIN	Shift Manager
295,844.43	MCCORD	ROSS	Manager, Operations Production
3295,100.00	* POLLIERI	LOU	Vice President Assurance & Chief Audit Executive
292,797.13	MCLACHLIN	ANDY	Authorized Nuclear Operator
291,890.41	FITZSIMMONS	JASON	Vice President Health, Safety, Employee & Labour Relations
291,005.94	GEOFROY	RICHARD	Control Room Shift Supervisor
290,348.15	SIRACUSA	JOE	Vice President Engineering & Technical Services
289,982.85	HAWLEY	CHRIS	Authorization Training Supervisor
288,496.05	BOUCKLEY	BARRY	Shift Manager
287,778.05	ARNONE	MARK	Vice President Refurbishment Execution
287,637.52	PARENT	GÉRALD	Shift Manager
286,905.12	HENRY	ROSS	Control Room Shift Supervisor
5286,811.98	TOMPSON	KERRY	Vice President Talent Management / Business Change
200 500 00	SCOTT-DIXON	CHRIS	Shift Manager
5286,592.02		DATUD	C1:0 M
5286,592.02 5286,371.70 5286,327.61	MACDIARMID WAYTOWICH	DAVID RICHARD	Shift Manager Shift Manager

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\$284,781.33	QUIRT	CHRISTOPHER	Shift Manager
\$284,611.84	MOECK	ANDY	Shift Manager
\$283,949.93	ERZETIC SHAVER	JOSEPHINA THOMAS	Vice President Corporate Business Development Authorized Nuclear Operator
\$283,925.46 \$283,896.35	SEGUIN	PAUL	Assistant Operations Manager
\$283,567.33	ROBINSON	BILL	Senior Vice President, Nuclear Projects
\$283,395.46	KIES	GORDON	Authorization Training Supervisor
\$282,781.20	RAMPHAL	MARLENE	Manager, Operations Production
\$282,546.10	TEMPLE	GLENN	Vice President Real Estate & Services
\$281,631.69	SPEER	BRIAN	Shift Manager
\$281,297.04	FLORIS	WALTER	Authorized Nuclear Operator
\$280,762.94	DESANTIS	LOUIE	Authorization Training Supervisor
\$280,094.67	POWELL	ROBERT	Director, Work Management
\$280,075.85	<u>JACKOWSKI</u> KHANSAHEB	ROBERT ZARIR	Assistant Operations Manager Manager Operations Programs
\$279,772.97 \$279,128.09	NOAKES	JOHN	Shift Manager
\$278,860.72	BEVACQUA	VAL	Senior Manager Fuel Handling
\$278,651.25	SCHRYER	ROGER	Authorization Training Supervisor
\$277,720.68	MAUTI	JOHN	Vice President Business Planning & Reporting
\$277,278.32	CLAIRMAN	CARA L.	Vice President
\$276,233.48	HEPBURN	KENNETH	Control Room Shift Supervisor
\$276,026.99	EATOCK	JEFFREY	Shift Manager
\$275,549.87	LEACH	SEAN	Authorization Training Supervisor
\$275,227.79	GREGORIS	STEVE	Manager, Operations Production
\$275,097.03	SHANTZ MCDONALD	LORNE JOHN	Control Room Shift Supervisor Shift Manager
\$274,953.41 \$274,014.43	SMITH	STEPHANIE	Assistant Operations Manager
\$274,007.25	CARTER	LES	Manager Performance Engineering
\$272,947.36	KNUTSON	MARK	Director
\$271,931.70	PILIARIK	MATT	Authorized Nuclear Operator
\$271,675.58	KHAN	ADNAN	Control Room Shift Supervisor
\$271,039.29	DINGLE	JAMES	Control Room Shift Supervisor
\$270,598.57	BAIRD	KEVIN	First Line Manager, Inspection & Maintenance
\$269,174.56	NAEEM	OMAIR	Section Manager, Licensing
\$268,720.42	SENIOR	DONALD	Department Manager, Outage
\$268,532.07	OWEN SHAH	ANDREW MANISHKUMAR	Control Room Shift Supervisor  Electrical & Control Technician First Line Manager Assistant
\$267,177.61 \$266,537.38	COLLINS	DAVID	Authorized Nuclear Operator
\$265,926.93	POWERS	STEPHANIE	Vice President, Inspection & Maintenance Services
\$265,673.62	KUNTZ	GARY	Authorization Training Supervisor
\$265,513.26	BROWN	RON C.	Authorized Nuclear Operator
	DITOWIN		
\$264,781.66	SWAMI	LAURIE	Vice President Nuclear Services
\$264,781.66 \$264,743.91	SWAMI HALKET	LAURIE CRAIG	Vice President Nuclear ServicesVice President Total Rewards
\$264,743.91 \$264,096.17	SWAMI HALKET OWENS	LAURIE CRAIG BILL	Vice President Total Rewards Director, Work Management
\$264,743.91 \$264,096.17 \$263,576.79	SWAMI HALKET OWENS SICOLI	LAURIE CRAIG BILL JOE	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46	SWAMI HALKET OWENS SICOLI BAGSHAW	LAURIE CRAIG BILL JOE STEVE	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG	LAURIE CRAIG BILL JOE STEVE MARGARET	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V.	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V.	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE GRANT MILLS GOBIN	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,996.55	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE GRANT MILLS GOBIN DROST	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,996.55 \$258,326.97	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor
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\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,836.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,996.55 \$258,326.97 \$258,278.99 \$257,851.53	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON * HOWARD OWENS	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL KEITH DAVE	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor Director Design Engineering First Line Manager, Control/Mechanical
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\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,996.55 \$258,326.97 \$258,278.99 \$257,851.53 \$257,850.16 \$257,413.84 \$257,377.05	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON * HOWARD OWENS KARIM * SIDFORD JESSOP	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL KEITH DAVE MOHAMED COLLEEN RICHARD	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor Director Design Engineering First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Vice President Chief Investment Officer Director
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,996.55 \$258,326.97 \$258,278.99 \$257,851.53 \$257,850.16 \$257,413.84 \$257,377.05 \$256,836.09	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON * HOWARD OWENS KARIM * SIDFORD JESSOP * TARREN	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL KEITH DAVE MOHAMED COLLEEN RICHARD PETER	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor Director Design Engineering First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Vice President Chief Investment Officer
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,996.55 \$258,326.97 \$258,278.99 \$257,851.53 \$257,850.16 \$257,413.84 \$257,377.05	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON * HOWARD OWENS KARIM * SIDFORD JESSOP * TARREN LAURICH EADIE	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL KEITH DAVE MOHAMED COLLEEN RICHARD	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor Director Design Engineering First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Vice President Chief Investment Officer Director Manager Engineering Program Integration Shift Manager First Line Manager, Inspection & Maintenance
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,996.55 \$258,326.97 \$258,278.99 \$257,851.53 \$257,851.66 \$257,413.84 \$257,377.05 \$256,836.09 \$256,836.09	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON * HOWARD OWENS KARIM * SIDFORD JESSOP * TARREN LAURICH EADIE JAMES	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL KEITH DAVE MOHAMED COLLEEN RICHARD PETER RALPH BRADLEY RICHIE	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor Director Design Engineering First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Vice President Chief Investment Officer Director Manager Engineering Program Integration Shift Manager First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,996.55 \$258,326.97 \$258,278.99 \$257,851.53 \$257,851.66 \$257,413.84 \$257,377.05 \$256,836.09 \$256,445.32 \$256,348.13 \$256,167.83 \$255,759.04	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON HOWARD OWENS KARIM * SIDFORD JESSOP TARREN LAURICH EADIE JAMES MCCARTHY	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL KEITH DAVE MOHAMED COLLEEN RICHARD PETER RALPH BRADLEY RICHIE ERIC	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor Director Design Engineering First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Vice President Chief Investment Officer Director Manager Engineering Program Integration Shift Manager First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor Vice President Commercial Contracts
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$259,993.77 \$259,967.10 \$259,753.80 \$258,996.55 \$258,326.97 \$258,278.99 \$257,851.53 \$257,850.16 \$257,413.84 \$257,377.05 \$256,836.09 \$256,445.32 \$256,348.13 \$256,348.13 \$255,759.04 \$254,708.54	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON HOWARD OWENS KARIM * SIDFORD JESSOP TARREN LAURICH EADIE JAMES MCCARTHY MATTHEWS	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL KEITH DAVE MOHAMED COLLEEN RICHARD PETER RALPH BRADLEY RICHIE ERIC JOHN	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor Director Design Engineering First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Vice President Chief Investment Officer Director Manager Engineering Program Integration Shift Manager First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor Vice President Commercial Contracts First Line Manager, Control/Mechanical
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,996.55 \$258,326.97 \$258,278.99 \$257,851.53 \$257,851.16 \$257,413.84 \$257,377.05 \$256,836.09 \$256,445.32 \$256,348.13 \$256,167.83 \$255,759.04 \$254,708.54 \$254,189.35	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON * HOWARD OWENS KARIM * SIDFORD JESSOP * TARREN LAURICH EADIE JAMES MCCARTHY MATTHEWS MAZZA	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL KEITH DAVE MOHAMED COLLEEN RICHARD PETER RALPH BRADLEY RICHIE ERIC JOHN MARIO	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor Director Design Engineering First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Vice President Chief Investment Officer Director Manager Engineering Program Integration Shift Manager First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor Vice President Commercial Contracts First Line Manager, Control/Mechanical Vice President Commercial Contracts First Line Manager, Control/Mechanical Vice President Strategy & Business Support
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,996.55 \$258,326.97 \$258,278.99 \$257,851.53 \$257,850.16 \$257,413.84 \$257,377.05 \$256,836.09 \$256,445.32 \$256,348.13 \$256,167.83 \$255,759.04 \$254,189.35 \$253,999.61	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON * HOWARD OWENS KARIM * SIDFORD JESSOP * TARREN LAURICH EADIE JAMES MCCARTHY MATTHEWS MAZZA ZADEH	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL KEITH DAVE MOHAMED COLLEEN RICHARD PETER RALPH BRADLEY RICHIE ERIC JOHN MARIO HOOSHANG	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor Director Design Engineering First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Vice President Chief Investment Officer Director Manager Engineering Program Integration Shift Manager First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor Vice President Commercial Contracts First Line Manager, Control/Mechanical Vice President Strategy & Business Support Director Market Operations
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,296.55 \$258,26.97 \$258,278.99 \$257,851.53 \$257,851.16 \$257,413.84 \$257,377.05 \$256,836.09 \$256,836.09 \$256,445.32 \$256,445.32 \$256,445.32 \$256,167.83 \$255,759.04 \$254,708.54 \$254,708.54 \$254,108.35 \$253,898.63	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG  * TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON * HOWARD OWENS KARIM * SIDFORD JESSOP * TARREN * LAURICH EADIE JAMES MCCARTHY MATTHEWS MAZZA ZADEH BUTCHER	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL KEITH DAVE MOHAMED COLLEEN RICHARD PETER RALPH BRADLEY RICHIE ERIC JOHN MARIO HOOSHANG NICOLLE	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor Director Design Engineering First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Vice President Chief Investment Officer Director Manager Engineering Program Integration Shift Manager First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor Vice President Commercial Contracts First Line Manager, Control/Mechanical Vice President Strategy & Business Support Director Market Operations Vice President Corporate Strategy & Planning
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,296.55 \$258,326.97 \$258,278.99 \$257,851.53 \$257,851.16 \$257,413.84 \$257,377.05 \$256,836.09 \$256,485.32 \$256,445.32 \$256,445.32 \$256,445.32 \$256,167.83 \$255,759.04 \$254,708.54 \$254,708.54 \$254,708.54 \$253,898.63 \$253,444.99	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON * HOWARD OWENS KARIM * SIDFORD JESSOP * TARREN LAURICH EADIE JAMES MCCARTHY MATTHEWS MAZZA ZADEH BUTCHER GERRARD	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL KEITH DAVE MOHAMED COLLEEN RICHARD PETER RALPH BRADLEY RICHIE ERIC JOHN MARIO HOOSHANG NICOLLE ROBERT	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor Director Design Engineering First Line Manager, Control/Mechanical Vice President Chief Investment Officer Director Manager Engineering Program Integration Shift Manager First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor Vice President Commercial Contracts First Line Manager, Control/Mechanical Vice President Strategy & Business Support Director Market Operations Vice President Corporate Strategy & Planning
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,996.55 \$258,326.97 \$258,278.99 \$257,851.53 \$257,851.16 \$257,413.84 \$257,377.05 \$256,836.09 \$256,485.32 \$256,485.32 \$256,485.32 \$256,445.32 \$256,167.83 \$255,759.04 \$254,708.54 \$254,189.35 \$253,999.61 \$253,444.99 \$252,859.02	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON * HOWARD OWENS KARIM * SIDFORD JESSOP * TARREN LAURICH EADIE JAMES MCCARTHY MATTHEWS MAZZA ZADEH BUTCHER GERRARD LACIVITA	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL KEITH DAVE MOHAMED COLLEEN RICHARD PETER RALPH BRADLEY RICHIE ERIC JOHN MARIO HOOSHANG NICOLLE ROBERT KEN	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor Director Design Engineering First Line Manager, Control/Mechanical Vice President Chief Investment Officer Director Manager Engineering Program Integration Shift Manager First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor Vice President Commercial Contracts First Line Manager, Control/Mechanical Vice President Strategy & Business Support Director Market Operations Vice President Corporate Strategy & Planning Director Trading & Origination
\$264,743.91 \$264,096.17 \$263,576.79 \$261,826.46 \$261,264.05 \$260,806.14 \$260,633.17 \$259,993.77 \$259,967.10 \$259,753.80 \$258,296.55 \$258,326.97 \$258,278.99 \$257,851.53 \$257,851.16 \$257,413.84 \$257,377.05 \$256,836.09 \$256,485.32 \$256,445.32 \$256,445.32 \$256,445.32 \$256,167.83 \$255,759.04 \$254,708.54 \$254,708.54 \$254,708.54 \$253,898.63 \$253,444.99	SWAMI HALKET OWENS SICOLI BAGSHAW TIMBERG * TULETT GRACE GRANT MILLS GOBIN DROST THOMPSON * HOWARD OWENS KARIM * SIDFORD JESSOP * TARREN LAURICH EADIE JAMES MCCARTHY MATTHEWS MAZZA ZADEH BUTCHER GERRARD	LAURIE CRAIG BILL JOE STEVE MARGARET MARTIN V. ALLAN FRASER STEPHEN RANDOLPH CHRISTOPHER RUSSELL KEITH DAVE MOHAMED COLLEEN RICHARD PETER RALPH BRADLEY RICHIE ERIC JOHN MARIO HOOSHANG NICOLLE ROBERT	Vice President Total Rewards Director, Work Management Production Supervisor - Shift Engineer Authorized Nuclear Operator Assistant General Counsel Deputy Site Vice President Control Room Shift Supervisor Senior Manager Fuel Handling Vice President Business & Services First Line Manager, Control/Mechanical Control Room Shift Supervisor Authorization Training Supervisor Director Design Engineering First Line Manager, Control/Mechanical Vice President Chief Investment Officer Director Manager Engineering Program Integration Shift Manager First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor Vice President Commercial Contracts First Line Manager, Control/Mechanical Vice President Strategy & Business Support Director Market Operations Vice President Corporate Strategy & Planning

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\$252,147.13	KEELING	JIM	Control Room Shift Supervisor	
\$251,809.03	SINGH	CHARANJIT	Director Accounting	
\$251,718.85	STEWART	JEFFREY	Authorized Nuclear Operator	
\$251,693.54	REID	ALLAN	Plant Manager, Hydro	
\$251,581.48 \$251,219.35	POPPE BULL	KURT SCOTT	Authorized Nuclear Operator Authorization Training Supervisor	
\$250,403.17	WONG	RICHARD L.	Assistant Treasurer	
\$250,223.04	BANNON	GLEN	First Line Manager, Control/Mechanical	
\$250,147.77	BAMBRICK	RON	Authorization Training Supervisor	
\$249,761.04	PETTIFER	RUSSELL	First Line Manager, Control/Mechanical	
\$249,697.54	* DOUGLAS	NEIL	Authorization Training Supervisor	
\$248,789.10	SCRUTON	CHRIS	First Line Manager, Control/Mechanical	
\$248,525.22	DOBRESCU	MARTIN	Authorization Training Supervisor	
\$248,167.05	* RYDER	SHANE	Director Operations & Maintenance	
\$247,258.82	STOCK	SANDY	Director Station Engineering	
\$247,201.48	STEWART	MIKE	Authorized Nuclear Operator	
\$247,164.76	AITKEN	ROBERT	First Line Manager, Control/Mechanical	
\$246,807.38	FRAWLEY DOBRICH	ROBERT NORM	Authorized Nuclear Operator Shift Manager	
\$246,718.29 \$246,223.39	MCFARLANE	MICHAEL	Director Refurbishment Interface & Vacuum Building Outage	
\$244,983.92	WONG	TOM W.	Section Manager, As Low As Reasonably Achievable	
\$244,940.57	REUBER	BARBARA	Vice President Environment	
\$244,930.53	QUALTROUGH	WILLIAM	Section Manager Operations Training	
\$244,825.90	VAN DEN BREKEL	NICK	Manager Strategic Planning	
\$244,783.10	EVERDELL	RICK A.	Director, Project Management	
\$244,480.16	KUCIKS	JOHN	Field Shift Operating Supervisor	
\$244,441.65	COOPER	KEN	First Line Manager, Control/Mechanical	
\$243,751.62	DEVLIN	EDMUND	Control Room Shift Supervisor	
\$243,620.25	GABEL	BRIAN	Work Coordinator	
\$243,609.24	HAIRE	KEN	Authorized Nuclear Operator	
\$242,943.95	GIORGI	SEBASTIAN	Authorization Training Supervisor	
\$242,326.55	NORRAD	DAN	Senior Manager Centre-Led Functional Area Manager – Outage	
\$241,887.03	ALLEN	JOHN DOUGLAS	First Line Manager, Control/Mechanical	
\$241,307.31	MACKIN	ROSS	Authorized Nuclear Operator	
\$241,302.79	GALUSZKA	ANDREW	Control Room Shift Supervisor	
\$241,257.32	HAUSER	GARY	First Line Manager, Control/Mechanical	
\$240,900.97	WYMAN	DAVID	Department Manager, Outage	
\$240,877.32	ROGERS	DAVID	Shift Manager	
\$240,740.04	PABANI	SHAMIM	Director, Taxation	
\$240,662.88	GIGLIOTTI	TIMOTHY J.	Director	
\$240,551.08	BOSS MIRSCH	RON MICHAEL	Authorization Training Supervisor First Line Manager, Inspection & Maintenance	
\$239,875.29 \$239,831.72	* MANN	LARRY	First Line Manager, Control/Mechanical	
\$239,795.30	* MCHALE	IOHN	Authorization Training Supervisor	
\$239,481.49	BRIXHE BERCIK	STEVE	First Line Manager, Control/Mechanical	
\$239,192.82	KHAN	MOHAMMED H.	First Line Manager, Control/Mechanical	
\$238,995.60	BONNIER	LYLE	Authorized Nuclear Operator	
\$238,510.56	* STEVENS	PHILIP	Plant Manager, Lambton Generating Station	
\$238,399.69	TEICHMAN	ANDREW	Vice President Corporate Strategy & Planning	
\$238,361.20	LEE	JOHN S.	Vice President - Treasurer	
\$238,359.29	HANRAHAN	SHAWN	First Line Manager, Inspection & Maintenance	
\$238,008.67	* MCDONNELL	PAUL	Control Room Shift Supervisor	
\$237,962.74	WHYTE	JAMES	Director Maintenance	
\$237,752.59	BHALOO	ALNOOR	Director Station Engineering	
\$237,036.42	JOHNSTON	ANTHONY	Authorized Nuclear Operator	
\$236,591.42	MITCHELL	NEIL A.	Vice President	
\$236,578.67	COPE	ANDY	First Line Manager, Control/Mechanical	
\$236,417.00	BRENNAN	JASON	Authorization Training Supervisor	
\$236,250.07	BALLAGH	SHAYN	Control Room Shift Supervisor	
\$236,179.13	GILLARD	BRIAN	First Line Manager, Control/Mechanical	
\$236,056.20 \$235,792,83	<u>NEGENMAN</u> HEFFORD	ANDREW JOHN	Section Manager, Outage Plant Manager, Thermal	
\$235,792.83 \$235,721.96	DANIEL	CARL	Director Station Engineering	
\$235,721.96	JOHNSTONE	GORD	Authorized Nuclear Operator	
\$235,645.04	MATHIAS	CARLTON	Assistant General Counsel	
\$234,511.15	ROSS	GARY	Authorization Training Supervisor	
\$234,311.13	CHOW	RICHARD	Inspection & Maintenance Technician First Line Manager Assistant	
\$234,187.10	GRAMMELHOFER	PETER	Authorization Training Supervisor	
\$234,056.63	MORELAND	IIM	Plant Manager, Hydro	
\$234,050.99	* MUNSHI	VINOD	System Window Coordinator	
\$233,837.38	CONNERS	BILL	First Line Manager, Control/Mechanical	
\$233,645.54	MCDONALD	JORDON	First Line Manager, Inspection & Maintenance	

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\$233,225.86	MURRAY	PETER J.	Plant Manager, Hydro
\$233,057.49	GHINET	JOE	Control Room Shift Supervisor
\$232,995.77	HARPER	BRIAN	Authorization Training Supervisor
\$232,726.99	CARMICHAEL	CARLA	Vice President, Nuclear Finance
\$232,149.61	KUSIK	LAWRENCE	Authorized Nuclear Operator
\$232,062.97	BRAATEN	MELANIE	Vice President Business Partners
\$231,928.95	POLLETT	SHAWN	First Line Manager, Construction
\$231,824.13	GAMBLE	BRENT	Shift Emergency Response Manager
\$231,293.29	ELLISON	SCOTT	Authorized Nuclear Operator
\$231,290.09	CAREW	KATHLEEN GERARD	Control Room Shift Supervisor
\$230,797.97	DOHERTY MITCHELL	LAURENCE	First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical
\$230,561.25 \$230,451.09	BERNDT	BRIAN	Authorization Training Supervisor
\$230,431.09	STEEVES	TONY	First Line Manager, Control/Mechanical
\$230,139.45	BROWN	ROY	Project Director
\$230,061.87	PROCTOR	STEVEN K.	Contract - Technical Specialist
\$229,941.73	HANSEN	JEFFREY L.	Plant Manager, Nanticoke Generating Station
\$229,683.54	MCGEE	BRIAN	Deputy Site Vice President
\$229,668.67	LAM	WEI-HING	Project Manager, Field Campaigns
\$229,315.46	VIEGAS	KENNETH	Authorized Nuclear Operator
\$229,267.33	DUTTON	JEFFREY	Authorized Nuclear Operator
\$228,878.03	HEY	BRAD	Supervising Nuclear Operator First Line Manager Assistant
\$228,385.00	HOORNWEG	JACQUELINE	Vice President, Corporate Relations & Communications
\$228,248.51	NUTTALL	PATRICK	Authorization Training Supervisor
\$227,841.49	JONES	GRAHAM	Authorized Nuclear Operator
\$227,786.07	SUGIYAMA	SHIG	Supervising Nuclear Operator First Line Manager Assistant
\$227,668.56	HOLT	JAMES	Control Room Shift Supervisor
\$227,601.96	NADEAU	PAUL	Vice President Security & Emergency Services
\$227,181.24	D'SOUZA	NEELA	Control Room Shift Supervisor
\$227,137.49	KISHOR	PAHALAD	Mechanical Technician First Line Manager Assistant
\$226,975.79	MORRIS	CHRIS	Authorized Nuclear Operator
\$226,784.37	MASURKEVITCH	DAVID	Field Shift Operating Supervisor
\$226,325.24	ROB	ART	Plant Manager, Hydro
\$226,286.21	HOOD NICHOLSON	ROB	First Line Manager, Control/Mechanical
\$226,232.96 \$226,163.58	NICHOLSON HUSAIN	AARON JAFFAR	First Line Manager, Inspection & Maintenance Director
\$226,027.11	DAVIS	THOMAS	Authorization Training Supervisor
\$226,027.11 \$225,957.62	DAVIS TREACY	THOMAS CATHERINE	Authorization Training Supervisor Vice President Business Partners
\$226,027.11 \$225,957.62 \$225,707.98	DAVIS TREACY RANDALL	THOMAS CATHERINE KENNETH SCOTT	Authorization Training Supervisor Vice President Business Partners Authorized Nuclear Operator
\$226,027.11 \$225,957.62 \$225,707.98 \$225,680.96	DAVIS TREACY	THOMAS CATHERINE KENNETH SCOTT BRIAN	Authorization Training Supervisor Vice President Business Partners Authorized Nuclear Operator Authorized Nuclear Operator
\$226,027.11 \$225,957.62 \$225,707.98 \$225,680.96 \$225,633.42	DAVIS TREACY RANDALL EADE * KITOWSKI	THOMAS CATHERINE KENNETH SCOTT BRIAN RAY	Authorization Training Supervisor Vice President Business Partners Authorized Nuclear Operator Authorized Nuclear Operator Production Supervisor - Shift Engineer
\$226,027.11 \$225,957.62 \$225,707.98 \$225,680.96	DAVIS TREACY RANDALL EADE	THOMAS CATHERINE KENNETH SCOTT BRIAN	Authorization Training Supervisor Vice President Business Partners Authorized Nuclear Operator Authorized Nuclear Operator
\$226,027.11 \$225,957.62 \$225,707.98 \$225,680.96 \$225,633.42 \$225,445.30	DAVIS TREACY RANDALL EADE * KITOWSKI FONG	THOMAS CATHERINE KENNETH SCOTT BRIAN RAY JACK	Authorization Training Supervisor Vice President Business Partners Authorized Nuclear Operator Authorized Nuclear Operator Production Supervisor - Shift Engineer Director, Planning & Evaluations
\$226,027.11 \$225,957.62 \$225,707.98 \$225,680.96 \$225,633.42 \$225,445.30 \$225,365.82	DAVIS TREACY RANDALL EADE * KITOWSKI FONG HAY	THOMAS CATHERINE KENNETH SCOTT BRIAN RAY JACK DON	Authorization Training Supervisor Vice President Business Partners Authorized Nuclear Operator Authorized Nuclear Operator Production Supervisor - Shift Engineer Director, Planning & Evaluations First Line Manager, Control/Mechanical
\$226,027.11 \$225,957.62 \$225,707.98 \$225,680.96 \$225,633.42 \$225,445.30 \$225,365.82 \$225,303.34	DAVIS TREACY RANDALL EADE * KITOWSKI FONG HAY BERKERS	THOMAS CATHERINE KENNETH SCOTT BRIAN RAY JACK DON DAVID	Authorization Training Supervisor Vice President Business Partners Authorized Nuclear Operator Authorized Nuclear Operator Production Supervisor - Shift Engineer Director, Planning & Evaluations First Line Manager, Control/Mechanical Authorized Nuclear Operator
\$226,027.11 \$225,957.62 \$225,707.98 \$225,680.96 \$225,633.42 \$225,445.30 \$225,365.82 \$225,303.34 \$225,037.73	DAVIS TREACY RANDALL EADE * KITOWSKI FONG HAY BERKERS SVAROVSKY NIXON BALAN	THOMAS CATHERINE KENNETH SCOTT BRIAN RAY JACK DON DAVID GENE GARRY MARCEL	Authorization Training Supervisor Vice President Business Partners Authorized Nuclear Operator Authorized Nuclear Operator Production Supervisor - Shift Engineer Director, Planning & Evaluations First Line Manager, Control/Mechanical Authorized Nuclear Operator Section Manager, Outage First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor
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\$226,027.11 \$225,957.62 \$225,707.98 \$225,680.96 \$225,683.42 \$225,445.30 \$225,365.82 \$225,303.34 \$225,037.73 \$224,986.13 \$224,723.28 \$224,628.75 \$224,584.82 \$224,517.94 \$224,517.94 \$224,517.94 \$224,377.24 \$224,341.04 \$224,300.10 \$224,162.49 \$224,143.96 \$223,692.27 \$223,524.22 \$223,592.37 \$222,933.97 \$222,933.97 \$222,720.90 \$222,592.79 \$222,592.79 \$222,592.79	DAVIS TREACY RANDALL EADE  * KITOWSKI FONG HAY BERKERS SVAROVSKY NIXON BALAN MULLINS ST. DENIS BRAZIER WOODS MACIEJKO POOLE DILLON WOLFE HOFFMAN DODO BHARDWAJ * BAGATTO * CHEVRIER MUTHUSWAMY BARNES SCOTT CAMERON GRAY CORAZZA PEARSON	THOMAS  CATHERINE  KENNETH SCOTT  BRIAN  RAY  JACK  DON  DAVID  GENE  GARRY  MARCEL  KEITH  THOMAS A.  DONALD  PETER  JASON  FRANK  PATRICK  SHAUN  EDWARD  MUTIZWA  NEERAJ  LUIGI  BRIAN  SUKUMAR  DOUGLAS  DAVID  JOSEPH  SHERRI  STEPHEN  DALE T.	Authorization Training Supervisor Vice President Business Partners Authorized Nuclear Operator Authorized Nuclear Operator Production Supervisor - Shift Engineer Director, Planning & Evaluations First Line Manager, Control/Mechanical Authorized Nuclear Operator Section Manager, Outage First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor First Line Manager, Inspection & Maintenance Authorized Nuclear Operator Director Authorized Nuclear Operator Authorized Nuclear Operator Work Coordinator Contracts Coordinator Authorized Nuclear Operator Work Coordinator First Line Manager, Operator Work Coordinator Authorized Nuclear Operator Work Coordinator Contracts Coordinator Authorized Nuclear Operator First Line Manager, Control/Mechanical Trades Supervisor - Maintenance Control Room Shift Supervisor Authorization Training Supervisor Section Manager Operators First Line Manager, Training Programs
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\$226,027.11 \$225,957.62 \$225,707.98 \$225,680.96 \$225,633.42 \$225,345.30 \$225,365.82 \$225,303.34 \$225,037.73 \$224,986.13 \$224,723.28 \$224,528.82 \$224,551.02 \$224,517.94 \$224,577.24 \$224,577.24 \$224,377.24 \$224,341.04 \$224,341.04 \$224,343.00.10 \$224,162.49 \$224,143.96 \$223,692.27 \$223,524.22 \$223,599.34 \$223,524.22 \$223,599.34 \$223,092.57 \$222,720.90 \$222,592.79 \$222,523.62 \$222,509.59 \$222,447.34	DAVIS TREACY RANDALL EADE  * KITOWSKI FONG HAY BERKERS SVAROVSKY NIXON BALAN MULLINS ST. DENIS BRAZIER WOODS MACIEJKO POOLE DILLON WOLFE HOFFMAN DODO BHARDWAJ * BAGATTO * CHEVRIER MUTHUSWAMY BARNES SCOTT CAMERON GRAY CORAZZA PEARSON JARRETT SCRINKO	THOMAS CATHERINE KENNETH SCOTT BRIAN RAY JACK DON DAVID GENE GARRY MARCEL KEITH THOMAS A. DONALD PETER JASON FRANK PATRICK SHAUN EDWARD MUTIZWA NEERAJ LUIGI BRIAN SUKUMAR DOUGLAS DAVID JOSEPH SHERRI STEPHEN JEFFREY	Authorization Training Supervisor Vice President Business Partners Authorized Nuclear Operator Production Supervisor - Shift Engineer Director, Planning & Evaluations First Line Manager, Control/Mechanical Authorized Nuclear Operator Section Manager, Outage First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor First Line Manager, Inspection & Maintenance Authorized Nuclear Operator Director Authorized Nuclear Operator Authorized Nuclear Operator Work Coordinator Contracts Coordinator Authorized Nuclear Operator Work Coordinator Vice President Shared Financial Services Authorized Nuclear Operator First Line Manager, Control/Mechanical Trades Supervisor - Maintenance Control Room Shift Supervisor Authorized Nuclear Operator Authorized Nuclear Operator First Line Manager, Control/Mechanical Trades Supervisor - Maintenance Control Room Shift Supervisor Authorized Nuclear Operator First Line Manager, Operators Training Control Room Shift Supervisor Section Manager Operations Training Control Room Shift Supervisor Authorized Nuclear Operator First Line Manager, Training Programs Field Shift Operating Supervisor Vice President Hydro Thermal Operations Finance
\$226,027.11 \$225,957.62 \$225,707.98 \$225,680.96 \$225,683.42 \$225,445.30 \$225,365.82 \$225,303.34 \$225,037.73 \$224,986.13 \$224,723.28 \$224,628.75 \$224,584.82 \$224,521.02 \$224,517.94 \$224,345.70 \$224,345.70 \$224,345.70 \$224,345.70 \$224,345.70 \$224,345.70 \$224,345.70 \$224,345.70 \$224,345.70 \$224,369.27 \$223,509.34 \$223,358.31 \$223,092.57 \$222,593.97 \$222,525.33 \$222,525.362 \$222,592.79 \$222,525.362 \$222,590.59 \$222,447.34 \$222,390.00	DAVIS TREACY RANDALL EADE  * KITOWSKI FONG HAY BERKERS SVAROVSKY NIXON BALAN MULLINS ST. DENIS BRAZIER WOODS MACIEIKO POOLE DILLON WOLFE HOFFMAN DODO BHARDWAI * BAGATTO * CHEVRIER MUTHUSWAMY BARNES SCOTT CAMERON GRAY CORAZZA PEARSON JARRETT SCRINKO FRALICK	THOMAS  CATHERINE  KENNETH SCOTT  BRIAN  RAY  JACK  DON  DAVID  GENE  GARRY  MARCEL  KEITH  THOMAS A.  DONALD  PETER  JASON  FRANK  PATRICK  SHAUN  EDWARD  MUTIZWA  NEERAJ  LUIGI  BRIAN  SUKUMAR  DOUGLAS  DAVID  JOSEPH  SHERRI  STEPHEN  DALE T.  STEPHEN  JEFFREY  CHRISTOPHER	Authorization Training Supervisor Vice President Business Partners Authorized Nuclear Operator Production Supervisor - Shift Engineer Director, Planning & Evaluations First Line Manager, Control/Mechanical Authorized Nuclear Operator Section Manager, Outage First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor First Line Manager, Inspection & Maintenance Authorized Nuclear Operator Authorized Nuclear Operator Authorized Nuclear Operator Work Coordinator Contracts Coordinator Authorized Nuclear Operator Work Coordinator Vice President Shared Financial Services Authorized Nuclear Operator First Line Manager, Control/Mechanical Trades Supervisor - Maintenance Control Room Shift Supervisor Authorized Nuclear Operator Authorized Nuclear Operator Authorized Nuclear Operator Authorized Nuclear Operator Section Manager Operations Training Control Room Shift Supervisor Authorized Nuclear Operator First Line Manager, Training Programs Field Shift Operating Supervisor Vice President Hydro Thermal Operations Finance Plant Manager, Thermal
\$226,027.11 \$225,957.62 \$225,707.98 \$225,680.96 \$225,633.42 \$225,345.30 \$225,365.82 \$225,303.34 \$225,037.73 \$224,986.13 \$224,723.28 \$224,528.82 \$224,551.02 \$224,517.94 \$224,577.24 \$224,577.24 \$224,377.24 \$224,341.04 \$224,341.04 \$224,343.00.10 \$224,162.49 \$224,143.96 \$223,692.27 \$223,524.22 \$223,599.34 \$223,524.22 \$223,599.34 \$223,092.57 \$222,720.90 \$222,592.79 \$222,523.62 \$222,509.59 \$222,447.34	DAVIS TREACY RANDALL EADE  * KITOWSKI FONG HAY BERKERS SVAROVSKY NIXON BALAN MULLINS ST. DENIS BRAZIER WOODS MACIEJKO POOLE DILLON WOLFE HOFFMAN DODO BHARDWAJ * BAGATTO * CHEVRIER MUTHUSWAMY BARNES SCOTT CAMERON GRAY CORAZZA PEARSON JARRETT SCRINKO	THOMAS CATHERINE KENNETH SCOTT BRIAN RAY JACK DON DAVID GENE GARRY MARCEL KEITH THOMAS A. DONALD PETER JASON FRANK PATRICK SHAUN EDWARD MUTIZWA NEERAJ LUIGI BRIAN SUKUMAR DOUGLAS DAVID JOSEPH SHERRI STEPHEN JEFFREY	Authorization Training Supervisor Vice President Business Partners Authorized Nuclear Operator Production Supervisor - Shift Engineer Director, Planning & Evaluations First Line Manager, Control/Mechanical Authorized Nuclear Operator Section Manager, Outage First Line Manager, Inspection & Maintenance Unit 0 - Training Supervisor First Line Manager, Inspection & Maintenance Authorized Nuclear Operator Director Authorized Nuclear Operator Authorized Nuclear Operator Work Coordinator Contracts Coordinator Authorized Nuclear Operator Work Coordinator Vice President Shared Financial Services Authorized Nuclear Operator First Line Manager, Control/Mechanical Trades Supervisor - Maintenance Control Room Shift Supervisor Authorized Nuclear Operator Authorized Nuclear Operator First Line Manager, Control/Mechanical Trades Supervisor - Maintenance Control Room Shift Supervisor Authorized Nuclear Operator First Line Manager, Operators Training Control Room Shift Supervisor Section Manager Operations Training Control Room Shift Supervisor Authorized Nuclear Operator First Line Manager, Training Programs Field Shift Operating Supervisor Vice President Hydro Thermal Operations Finance

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Attachment 1 Page 5 of 8

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\$221,649.35	MOSCHELLA	MIKE	First Line Manager, Construction	
\$221,408.44	ST. MARTIN	AL	Authorized Nuclear Operator	
\$221,397.87	BARRY	FRANCIS	Inspection & Maintenance Technician First Line Manager Assistant	
\$221,263.70 \$220,885.78	<u>LEKSINSKI</u> LALONDE	PAUL DARWIN	Control Room Shift Supervisor Field Shift Operating Supervisor	
\$220,844.10	ROOPCHAN	ROBIN	Director Financial Communications & Strategy	
\$220,757.83	DEHAAS IAN		Authorized Nuclear Operator	
\$220,618.97	GAULTON RAYMOND		First Line Manager, Control/Mechanical	
\$220,497.50	VALCOFF VICTOR		Authorized Nuclear Operator	
\$220,405.82	* MCRAE	ERIC	Production Supervisor - Shift Engineer	
\$220,095.72	* MACMILLAN	PETER	Senior Counsel	
\$220,040.19	SLOOS	KELVIN	Control Room Shift Supervisor	
\$219,592.28	MCVEITY	DARLENE	Vice President Business Partners	
\$219,068.16	RUSSELL	GORDON	First Line Manager, Control/Mechanical	
\$218,862.02 \$218,689.40	WILLIAMS MACEACHERON	STEPHEN K. RICHARD	Authorized Nuclear Operator Director Nuclear Regulatory Affairs	
\$218,605.60	BHARDWAJ	ALOK	Authorized Nuclear Operator	
\$218,584.38	HOLMES	KEVIN	Supervising Nuclear Operator First Line Manager Assistant	
\$218,442.82	EDWARDS	BRIAN	Authorization Training Supervisor	
\$218,275.55	MCPHERSON	SAMUEL	Authorized Nuclear Operator	
\$218,252.73	DEPAULO	RANDY	Section Manager, Outage	
\$217,991.67	BELFRY	STEVE	Authorized Nuclear Operator	
\$217,960.98	* SASAKI	LAUREN	Assistant General Counsel	
\$217,935.56	GALLANT	JAMIE	First Line Manager, Control/Mechanical	
\$217,887.87	ROBERTS	JEFF	First Line Manager, Control/Mechanical	
\$217,814.30	WINNITOY MATEU	BRETT JAUME	Authorized Nuclear Operator First Line Manager, Control/Mechanical	
\$217,667.55 \$217,497.18	JOHNSON	PETER	Authorized Nuclear Operator	
\$217,497.16	LADAK	LUBNA	Director Controllership	
\$217,152.04	COULIS	STACY LYNN	Certified Unit "O" Control Room Operator	
\$216,741.01	GOETZ	MICHAEL	Authorized Nuclear Operator	
\$216,564.83	BROWN	CATHERINE	Field Shift Operating Supervisor	
\$216,379.82	DUDECK	GARRY	Section Manager, Outage	
\$216,352.83	GAGNON	JARRETT	First Line Manager, Control/Mechanical	
\$216,284.91	OSUTEI	NARH	First Line Manager, Control/Mechanical	
\$216,249.47	VIKNANEK * SMITH	DAVID	Field Shift Operating Supervisor	
\$216,152.61	* SMITH	RAYMOND	Authorized Nuclear Operator	
		OINCHHA	•	
\$216,104.80	LIU	QINGHUA KENT DOLICI AS	Electrical & Control Technician	
\$216,104.80 \$216,058.02	LIU HARRIS	KENT DOUGLAS	Electrical & Control Technician Vault Supervisor	
\$216,104.80 \$216,058.02 \$216,040.27	LIU HARRIS CREARY	KENT DOUGLAS JEFF	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor	
\$216,104.80 \$216,058.02 \$216,040.27 \$215,807.92	LIU HARRIS	KENT DOUGLAS	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor Authorized Nuclear Operator	
\$216,104.80 \$216,058.02 \$216,040.27	LIU HARRIS CREARY BENNETT	KENT DOUGLAS JEFF RICHARD F.	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor	
\$216,104.80 \$216,058.02 \$216,040.27 \$215,807.92 \$215,678.16	LIU HARRIS CREARY BENNETT BALAZ	KENT DOUGLAS JEFF RICHARD F. JOE DOUGLAS SHELDON	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor Authorized Nuclear Operator Field Shift Operating Supervisor	
\$216,104.80 \$216,058.02 \$216,040.27 \$215,807.92 \$215,678.16 \$215,671.23 \$215,663.80 \$215,383.06	LIU HARRIS CREARY BENNETT BALAZ COSBURN KEAN OSBORNE	KENT DOUGLAS JEFF RICHARD F. JOE DOUGLAS SHELDON DEAN	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor Authorized Nuclear Operator Field Shift Operating Supervisor First Line Manager, Civil Maintenance First Line Manager, Control/Mechanical Authorization Training Supervisor	
\$216,104.80 \$216,058.02 \$216,040.27 \$215,807.92 \$215,671.23 \$215,663.80 \$215,383.06 \$215,236.52	LIU HARRIS CREARY BENNETT BALAZ COSBURN KEAN OSBORNE CRICHTON	KENT DOUGLAS JEFF RICHARD F. JOE DOUGLAS SHELDON DEAN JAMES D.	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor Authorized Nuclear Operator Field Shift Operating Supervisor First Line Manager, Civil Maintenance First Line Manager, Control/Mechanical Authorization Training Supervisor System Window Coordinator	
\$216,104.80 \$216,058.02 \$216,040.27 \$215,807.92 \$215,678.16 \$215,671.23 \$215,663.80 \$215,383.06 \$215,236.52 \$214,985.64	LIU HARRIS CREARY BENNETT BALAZ COSBURN KEAN OSBORNE CRICHTON SINCLAIR	KENT DOUGLAS JEFF RICHARD F. JOE DOUGLAS SHELDON DEAN JAMES D. STEPHEN	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor Authorized Nuclear Operator Field Shift Operating Supervisor First Line Manager, Civil Maintenance First Line Manager, Control/Mechanical Authorization Training Supervisor System Window Coordinator Authorized Nuclear Operator	
\$216,104.80 \$216,058.02 \$216,040.27 \$215,807.92 \$215,678.16 \$215,671.23 \$215,663.80 \$215,383.06 \$215,236.52 \$214,985.64 \$214,913.02	LIU HARRIS CREARY BENNETT BALAZ COSBURN KEAN OSBORNE CRICHTON SINCLAIR BASSAN	KENT DOUGLAS JEFF RICHARD F. JOE DOUGLAS SHELDON DEAN JAMES D. STEPHEN LOVLEEN	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor Authorized Nuclear Operator Field Shift Operating Supervisor First Line Manager, Civil Maintenance First Line Manager, Control/Mechanical Authorization Training Supervisor System Window Coordinator Authorized Nuclear Operator Director Talent & Business Change	
\$216,104.80 \$216,058.02 \$216,040.27 \$215,807.92 \$215,678.16 \$215,671.23 \$215,663.80 \$215,383.06 \$215,236.52 \$214,985.64 \$214,913.02 \$214,880.61	LIU HARRIS CREARY BENNETT BALAZ COSBURN KEAN OSBORNE CRICHTON SINCLAIR BASSAN VLCKO	KENT DOUGLAS JEFF RICHARD F. JOE DOUGLAS SHELDON DEAN JAMES D. STEPHEN LOVLEEN ROBERT	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor Authorized Nuclear Operator Field Shift Operating Supervisor First Line Manager, Civil Maintenance First Line Manager, Control/Mechanical Authorization Training Supervisor System Window Coordinator Authorized Nuclear Operator Director Talent & Business Change Mechanical Technician	
\$216,104.80 \$216,058.02 \$216,040.27 \$215,807.92 \$215,678.16 \$215,671.23 \$215,663.80 \$215,383.06 \$215,236.52 \$214,985.64 \$214,913.02 \$214,880.61 \$214,711.90	LIU HARRIS CREARY BENNETT BALAZ COSBURN KEAN OSBORNE CRICHTON SINCLAIR BASSAN VLCKO HORNE	KENT DOUGLAS JEFF RICHARD F. JOE DOUGLAS SHELDON DEAN JAMES D. STEPHEN LOVLEEN ROBERT CHRISTOPHER	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor Authorized Nuclear Operator Field Shift Operating Supervisor First Line Manager, Civil Maintenance First Line Manager, Control/Mechanical Authorization Training Supervisor System Window Coordinator Authorized Nuclear Operator Director Talent & Business Change Mechanical Technician First Line Manager, Inspection & Maintenance	
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\$216,104.80 \$216,058.02 \$216,040.27 \$215,807.92 \$215,678.16 \$215,671.23 \$215,663.80 \$215,383.06 \$215,236.52 \$214,985.64 \$214,913.02 \$214,880.61 \$214,711.90	LIU HARRIS CREARY BENNETT BALAZ COSBURN KEAN OSBORNE CRICHTON SINCLAIR BASSAN VLCKO HORNE DEWAR	KENT DOUGLAS JEFF RICHARD F. JOE DOUGLAS SHELDON DEAN JAMES D. STEPHEN LOVLEEN ROBERT CHRISTOPHER	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor Authorized Nuclear Operator Field Shift Operating Supervisor First Line Manager, Civil Maintenance First Line Manager, Control/Mechanical Authorization Training Supervisor System Window Coordinator Authorized Nuclear Operator Director Talent & Business Change Mechanical Technician First Line Manager, Inspection & Maintenance	
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\$216,104.80 \$216,058.02 \$216,040.27 \$215,807.92 \$215,678.16 \$215,671.23 \$215,663.80 \$215,236.52 \$214,985.64 \$214,913.02 \$214,880.61 \$214,711.90 \$214,667.55 \$214,607.93 \$214,554.80 \$214,332.55 \$214,246.43	LIU HARRIS CREARY BENNETT BALAZ COSBURN KEAN OSBORNE CRICHTON SINCLAIR BASSAN VLCKO HORNE DEWAR BRANDER WILLSON SCOTT * KINTZI	KENT DOUGLAS JEFF RICHARD F. JOE DOUGLAS SHELDON DEAN JAMES D. STEPHEN LOVLEEN ROBERT CHRISTOPHER MICHAEL WAYNE JAMIE STEPHEN ANDY	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor Authorized Nuclear Operator Field Shift Operating Supervisor First Line Manager, Civil Maintenance First Line Manager, Control/Mechanical Authorization Training Supervisor System Window Coordinator Authorized Nuclear Operator Director Talent & Business Change Mechanical Technician First Line Manager, Inspection & Maintenance Authorized Nuclear Operator First Line Manager, Control/Mechanical Mechanical Technician First Line Manager Assistant Authorized Nuclear Operator Senior Technical Engineer/Officer	
\$216,104.80 \$216,058.02 \$216,040.27 \$215,807.92 \$215,678.16 \$215,671.23 \$215,663.80 \$215,236.52 \$214,985.64 \$214,913.02 \$214,880.61 \$214,711.90 \$214,667.55 \$214,607.93 \$214,554.80 \$214,332.55 \$214,246.43 \$214,235.49	LIU HARRIS CREARY BENNETT BALAZ COSBURN KEAN OSBORNE CRICHTON SINCLAIR BASSAN VLCKO HORNE DEWAR BRANDER WILLSON SCOTT * KINTZI JONES	KENT DOUGLAS JEFF RICHARD F. JOE DOUGLAS SHELDON DEAN JAMES D. STEPHEN LOVLEEN ROBERT CHRISTOPHER MICHAEL WAYNE JAMIE STEPHEN ANDY DAN G.	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor Authorized Nuclear Operator Field Shift Operating Supervisor First Line Manager, Civil Maintenance First Line Manager, Control/Mechanical Authorization Training Supervisor System Window Coordinator Authorized Nuclear Operator Director Talent & Business Change Mechanical Technician First Line Manager, Inspection & Maintenance Authorized Nuclear Operator First Line Manager, Control/Mechanical Mechanical Technician First Line Manager Assistant Authorized Nuclear Operator Senior Technical Engineer/Officer First Line Manager, Control/Mechanical	
\$216,104.80 \$216,058.02 \$216,040.27 \$215,807.92 \$215,678.16 \$215,678.16 \$215,663.80 \$215,236.52 \$214,985.64 \$214,913.02 \$214,880.61 \$214,711.90 \$214,667.55 \$214,607.93 \$214,554.80 \$214,332.55 \$214,246.43 \$214,235.49 \$214,150.59	LIU HARRIS CREARY BENNETT BALAZ COSBURN KEAN OSBORNE CRICHTON SINCLAIR BASSAN VLCKO HORNE DEWAR BRANDER WILLSON SCOTT * KINTZI JONES GUTHRIE	KENT DOUGLAS  JEFF RICHARD F.  JOE DOUGLAS SHELDON DEAN JAMES D. STEPHEN LOVLEEN ROBERT CHRISTOPHER MICHAEL WAYNE JAMIE STEPHEN ANDY DAN G. SCOTT	Electrical & Control Technician Vault Supervisor Authorization Training Supervisor Authorized Nuclear Operator Field Shift Operating Supervisor First Line Manager, Civil Maintenance First Line Manager, Control/Mechanical Authorization Training Supervisor System Window Coordinator Authorized Nuclear Operator Director Talent & Business Change Mechanical Technician First Line Manager, Inspection & Maintenance Authorized Nuclear Operator First Line Manager, Control/Mechanical Mechanical Technician First Line Manager Assistant Authorized Nuclear Operator Senior Technical Engineer/Officer First Line Manager, Control/Mechanical Director	
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\$212,852.27	ARCHER	KEVIN	First Line Manager, Control/Mechanical
\$212,806.71	MCKAY	ROB	First Line Manager, Control/Mechanical
\$212,720.78	MCKENZIE	SCOTT	Work Coordinator
\$212,710.61	TETI	ROSARIO	System Window Coordinator
\$212,630.72	MCCABE VAN GOG	BOB	Field Shift Operating Supervisor
\$212,488.24 \$212,370.45	* FINDLAY	BILL DAVE	Electrical & Control Technician Field Shift Operating Supervisor
\$212,370.43	BAKER	ALAN	Authorization Training Supervisor
\$212,305.60	HENDERSON	COLIN	Authorized Nuclear Operator
\$212,236.33	HAMADE	DAVID	Vice President Enterprise Risk Management
\$212,163.32	D'ALIMONTE	ENZO	Director, Fuels
\$212,066.15	WELLS	WAYNE	First Line Manager, Contract Administrator
\$211,978.32	HOHENDORF	RICHARD J.	Senior Manager Computers & Control Design
\$211,966.98	BARRADAS WILSON	JOANNE DON	Director Transaction Processing - Corporate Financial Processing Services
\$211,923.91 \$211,655.15	JAMIESON	IAN	Director Inspection Maintenance Services Engineering Authorized Nuclear Operator
\$211,493.59	RIOUX	YVES	Authorized Nuclear Operator  Authorized Nuclear Operator
\$211,490.36	BARBER	CHRIS	Certified Unit "O" Control Room Operator
\$211,375.39	HARRIS	JAMES	Authorized Nuclear Operator
\$211,363.89	* RADFORD	DOUGLAS	Director Centre-Led Functional Area Manager Maintenance
\$211,081.43	HOYLE	BOB	Certified Unit "O" Control Room Operator
\$210,967.49	HARRIGAN	BERNARD	Authorized Nuclear Operator
\$210,953.45	BLAKE IOSEPH	GREG CARLYLE	Authorized Nuclear Operator First Line Manager Control (Mechanical
\$210,749.24 \$210,722.32	MAHARAJ	KESHWAR	First Line Manager, Control/Mechanical Electrical & Control Technician First Line Manager Assistant
\$210,722.32	MALONEY	RONALD	First Line Manager, Construction
\$210,547.10	SERVOS	LAWRENCE	First Line Manager, Radiation Control
\$210,382.01	TRELINSKI	MIKE	Senior Technical Expert
\$210,253.19	MORRILL	BRENT	Director, Nuclear Oversight
\$210,244.89	MAK	WILLIAM	First Line Manager, Contract Administrator
\$210,223.98	BURGER	MARTIN	System Window Coordinator
\$210,160.91	* MOORE	GORD WILLIAM	Thermal Operating Supervisor
\$210,052.25 \$209,978.50	TOLTON	PAUL	Production Supervisor - Shift Engineer Director
\$209,978.30	WOOD	FLOYD	Mechanical Technician First Line Manager Assistant
\$209,958.81	KOWALSKI	ANDREW	Authorized Nuclear Operator
\$209,908.59	KRUEGER	JOHN	Authorized Nuclear Operator
\$209,821.07	RAE	CRAIG	Authorized Nuclear Operator
\$209,700.78	* ZIEMAN	JAMES	Operations Specialist
\$209,662.82	RAULJI	NARENDRASINH	Mechanical Technician First Line Manager Assistant
\$209,518.24		DANIEL	Unit 0 - Training Supervisor First Line Manager, Control/Mechanical
¢200 F07 (2	PETRAS	DOCC	
\$209,507.62 \$209,503,83	STEVENS	ROSS	
\$209,503.83	STEVENS DE LACOUR	JEFFERSON	Supervising Nuclear Operator First Line Manager Assistant
\$209,503.83 \$209,333.82	STEVENS		
\$209,503.83	STEVENS DE LACOUR PASIEKA	JEFFERSON PAULENE	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS	JEFFERSON PAULENE TIM PAUL J. JONATHAN	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "O" Control Room Operator
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "O" Control Room Operator Authorized Nuclear Operator
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "O" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Authorized Nuclear Operator
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,273.76 \$208,958.73 \$208,721.73	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "0" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73 \$208,721.73 \$208,670.77	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "O" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,273.76 \$208,958.73 \$208,721.73	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "0" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73 \$208,721.73 \$208,670.77 \$208,647.60	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "O" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73 \$208,721.73 \$208,670.77 \$208,647.60 \$208,555.16	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG HENDERSON VAUTOUR SUKHU	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE PETE ERIC PARMANAND	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "O" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical Authorized Nuclear Operator Electrical & Control Technician First Line Manager Assistant First Line Manager, Control/Mechanical
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73 \$208,721.73 \$208,670.77 \$208,647.60 \$208,555.16 \$208,521.78 \$208,495.20 \$208,495.20	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG HENDERSON VAUTOUR SUKHU BELANGER	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE PETE ERIC PARMANAND ANDRE	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "0" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical Authorized Nuclear Operator Electrical & Control Technician First Line Manager Assistant First Line Manager, Control/Mechanical
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73 \$208,721.73 \$208,670.77 \$208,647.60 \$200,555.16 \$208,521.78 \$208,495.20 \$208,485.84	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG HENDERSON VAUTOUR SUKHU BELANGER POPE	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE PETE ERIC PARMANAND ANDRE JONATHON	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "0" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical Authorized Nuclear Operator Electrical & Control Technician First Line Manager Assistant First Line Manager, Control/Mechanical Electrical & Control Supervisor Authorized Nuclear Operator
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73 \$208,721.73 \$208,670.77 \$208,647.60 \$208,555.16 \$208,521.78 \$208,495.20 \$208,495.20 \$208,489.04 \$208,485.84 \$208,482.39	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG HENDERSON VAUTOUR SUKHU BELANGER POPE HABIB	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE PETE ERIC PARMANAND ANDRE JONATHON RIYAZ	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "O" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical Authorized Nuclear Operator Electrical & Control Technician First Line Manager Assistant First Line Manager, Control/Mechanical Electrical & Control Supervisor Authorized Nuclear Operator Project Director
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73 \$208,721.73 \$208,670.77 \$208,647.60 \$208,555.16 \$208,555.16 \$208,521.78 \$208,495.20 \$208,485.84 \$208,485.84 \$208,482.39 \$208,484.45	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG HENDERSON VAUTOUR SUKHU BELANGER POPE HABIB FITZGERALD	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE PETE ERIC PARMANAND ANDRE JONATHON RIYAZ KENNETH	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "O" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical Authorized Nuclear Operator Electrical & Control Technician First Line Manager Assistant First Line Manager, Control/Mechanical Electrical & Control Supervisor Authorized Nuclear Operator Project Director First Line Manager, Control/Mechanical
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73 \$208,721.73 \$208,670.77 \$208,647.60 \$208,555.16 \$208,555.16 \$208,495.20 \$208,489.04 \$208,485.84 \$208,482.39 \$208,484.45 \$208,048.27	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG HENDERSON VAUTOUR SUKHU BELANGER POPE HABIB FITZGERALD RANDS	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE PETE ERIC PARMANAND ANDRE JONATHON RIYAZ KENNETH ANDREW	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "O" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical Authorized Nuclear Operator Electrical & Control Technician First Line Manager Assistant First Line Manager, Control/Mechanical Electrical & Control Supervisor Authorized Nuclear Operator Project Director
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73 \$208,721.73 \$208,670.77 \$208,647.60 \$208,555.16 \$208,555.16 \$208,521.78 \$208,495.20 \$208,485.84 \$208,485.84 \$208,482.39 \$208,484.45	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG HENDERSON VAUTOUR SUKHU BELANGER POPE HABIB FITZGERALD	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE PETE ERIC PARMANAND ANDRE JONATHON RIYAZ KENNETH	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "O" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical Authorized Nuclear Operator Electrical & Control Technician First Line Manager Assistant First Line Manager, Control/Mechanical Electrical & Control Supervisor Authorized Nuclear Operator Project Director First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73 \$208,721.73 \$208,670.77 \$208,647.60 \$208,555.16 \$208,521.78 \$208,495.20 \$206,489.04 \$208,485.84 \$208,482.39 \$208,448.49 \$208,448.49 \$208,048.27 \$207,977.33 \$207,962.55	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG HENDERSON VAUTOUR SUKHU BELANGER POPE HABIB FITZGERALD RANDS BLAIR MUELLER CHRISTIDIS	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE PETE ERIC PARMANAND ANDRE JONATHON RIYAZ KENNETH ANDREW PAULINE DAVID NICK	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "0" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical Authorized Nuclear Operator Electrical & Control Technician First Line Manager Assistant First Line Manager, Control/Mechanical Electrical & Control Supervisor Authorized Nuclear Operator Project Director First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Authorized Nuclear Operator Health Physicist Mechanical Technician
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73 \$208,721.73 \$208,670.77 \$208,647.60 \$200,555.16 \$208,521.78 \$208,495.20 \$208,489.04 \$208,485.84 \$208,482.39 \$208,448.45 \$208,048.27 \$207,987.49 \$207,977.33 \$207,962.55 \$207,870.73	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG HENDERSON VAUTOUR SUKHU BELANGER POPE HABIB FITZGERALD RANDS BLAIR MUELLER CHRISTIDIS MOIR	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE PETE ERIC PARMANAND ANDRE JONATHON RIYAZ KENNETH ANDREW PAULINE DAVID NICK JEREMY	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "O" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical Authorized Nuclear Operator Electrical & Control Technician First Line Manager Assistant First Line Manager, Control/Mechanical Electrical & Control Supervisor Authorized Nuclear Operator Project Director First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Authorized Nuclear Operator Health Physicist Mechanical Technician Authorized Nuclear Operator
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73 \$208,721.73 \$208,670.77 \$208,647.60 \$208,555.16 \$208,521.78 \$208,495.20 \$208,495.20 \$208,489.04 \$208,485.84 \$208,482.39 \$208,484.45 \$208,048.27 \$207,987.49 \$207,977.33 \$207,962.55 \$207,870.73 \$207,864.82	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG HENDERSON VAUTOUR SUKHU BELANGER POPE HABIB FITZGERALD RANDS BLAIR MUELLER CHRISTIDIS MOIR WILSON	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE PETE ERIC PARMANAND ANDRE JONATHON RIYAZ KENNETH ANDREW PAULINE DAVID NICK JEREMY DAVID	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "0" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical Authorized Nuclear Operator Electrical & Control Technician First Line Manager Assistant First Line Manager, Control/Mechanical Electrical & Control Supervisor Authorized Nuclear Operator Project Director First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Authorized Nuclear Operator Health Physicist Mechanical Technician Authorized Nuclear Operator Nuclear Operator
\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,150.79 \$208,958.73 \$208,670.77 \$208,647.60 \$208,555.16 \$208,555.16 \$208,5521.78 \$208,495.20 \$208,489.04 \$208,485.84 \$208,482.39 \$208,484.45 \$208,482.39 \$208,482.39 \$208,489.04 \$207,977.33 \$207,962.55 \$207,977.33 \$207,962.55 \$207,864.82 \$207,870.73	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG HENDERSON VAUTOUR SUKHU BELANGER POPE HABIB FITZGERALD RANDS BLAIR MUELLER CHRISTIDIS MOIR WILSON PRIEST	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE PETE ERIC PARMANAND ANDRE JONATHON RIYAZ KENNETH ANDREW PAULINE DAVID NICK JEREMY DAVID MARK	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "O" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical Authorized Nuclear Operator Electrical & Control Technician First Line Manager Assistant First Line Manager, Control/Mechanical Electrical & Control Supervisor Authorized Nuclear Operator Project Director First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Authorized Nuclear Operator Health Physicist Mechanical Technician Authorized Nuclear Operator Nuclear Operator Authorized Nuclear Operator
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\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$209,273.76 \$208,752.73 \$208,670.77 \$208,647.60 \$208,555.16 \$208,521.78 \$208,495.20 \$208,489.04 \$208,482.39 \$208,484.84 \$208,482.39 \$208,448.45 \$208,048.27 \$207,987.49 \$207,977.33 \$207,962.55 \$207,864.82 \$207,755.03 \$207,736.34 \$207,652.73 \$207,652.73	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG HENDERSON VAUTOUR SUKHU BELANGER POPE HABIB FITZGERALD RANDS BLAIR MUELLER CHRISTIDIS MOIR WILSON PRIEST JOHNSON SCHIAFONE DUNBAR	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE PETE ERIC PARMANAND ANDRE JONATHON RIYAZ KENNETH ANDREW PAULINE DAVID NICK JEREMY DAVID MARK ADAM DANIELE GLENN C.	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "0" Control Room Operator Authorized Nuclear Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical Authorized Nuclear Operator Electrical & Control Technician First Line Manager Assistant First Line Manager, Control/Mechanical Electrical & Control Supervisor Authorized Nuclear Operator Project Director First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Authorized Nuclear Operator Health Physicist Mechanical Technician Authorized Nuclear Operator Authorized Nuclear Operator Authorized Nuclear Operator Electrical & Control Technician Authorized Nuclear Operator Electrical & Control Technician Authorized Nuclear Operator
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\$209,503.83 \$209,333.82 \$209,307.34 \$209,295.95 \$209,273.76 \$208,958.73 \$208,721.73 \$208,670.77 \$208,647.60 \$208,555.16 \$208,521.78 \$208,495.20 \$206,489.04 \$208,485.84 \$208,482.39 \$208,448.25 \$208,048.27 \$207,987.49 \$207,977.33 \$207,962.55 \$207,864.82 \$207,755.03 \$207,736.34 \$207,652.73 \$207,652.73 \$207,652.51 \$207,552.390	STEVENS DE LACOUR PASIEKA SWAREK ARTHURS CLEMITS STEELE LIDDLE ZALUSKI MATTINA LONG HENDERSON VAUTOUR SUKHU BELANGER POPE HABIB FITZGERALD RANDS BLAIR MUELLER CHRISTIDIS MOIR WILSON PRIEST JOHNSON SCHIAFONE DUNBAR MCGEACHY	JEFFERSON PAULENE TIM PAUL J. JONATHAN ANDREW CLIFFORD CRAIG NICOLO MIKE PETE ERIC PARMANAND ANDRE JONATHON RIYAZ KENNETH ANDREW PAULINE DAVID NICK JEREMY DAVID MARK ADAM DANIELE GLENN C. KEVIN	Supervising Nuclear Operator First Line Manager Assistant Assistant General Counsel Nuclear Operator Authorized Nuclear Operator Certified Unit "0" Control Room Operator Authorized Nuclear Operator Senior Engineer/Scientist/Technical Officer Inspection & Maintenance Technician First Line Manager, Control/Mechanical Authorized Nuclear Operator Electrical & Control Technician First Line Manager Assistant First Line Manager, Control/Mechanical Electrical & Control Supervisor Authorized Nuclear Operator Project Director First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical First Line Manager, Control/Mechanical Authorized Nuclear Operator Health Physicist Mechanical Technician Authorized Nuclear Operator Authorized Nuclear Operator Authorized Nuclear Operator Electrical & Control Technician Authorized Nuclear Operator Electrical & Control Technician Authorized Nuclear Operator Electrical & Control Technician Electrical & Control Technician

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Attachment 1 Page 7 of 8

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\$207,381.03	BUDHLALL	DAVE	Field Shift Operating Supervisor
\$207,243.62	KENNEDY	DANA	Authorized Nuclear Operator
\$207,221.74	TRAN	THONG	Senior Design Engineer
\$207,014.96	RAMLOCHAN	FRANK	Mechanical Technician
\$206,933.01 \$206,909.68	CHOU MCLEOD	JACK MARK	Real Time Markets Supervisor Authorized Nuclear Operator
\$206,699.49	ELLIOTT	PAUL	First Line Manager, Control/Mechanical
\$206,689.99	MACKIE	RICHARD	Director
\$206,405.19	HEATH	LISA	Authorization Training Supervisor
\$206,375.02	STEPHENS	TODD	First Line Manager, Control/Mechanical
\$206,244.78	* ARAUJO	ADELINO CORRIEA	Mechanical Technician
\$206,164.97	HUNSBURGER	ROB	Authorization Training Supervisor
\$206,057.57	SANASI	JAI	Project Leader
\$206,002.91	* THUOT	DENNIS	Authorized Nuclear Operator
\$205,935.45	LIVSEY	DANIEL	First Line Manager, Inspection & Maintenance
\$205,903.08	RAMSARRAN	SUNIL	Electrical & Control Technician
\$205,892.38 \$205,838.90	MONTGOMERY CZAJKOWSKI	ROBERT DARRYL	Work Coordinator Inspection & Maintenance Technician First Line Manager Assistant
\$205,830.28	O'HAGAN	MICHAEL	First Line Manager, Inspection & Maintenance
\$205,681.81	STEWART	KEN	First Line Manager, Facility Services (Pickering/Darlington)
\$205,675.85	* COULAS	BRIAN	Director Refurbishment Engineering
\$205,604.62	CHETCUTI	VICTOR	First Line Manager, Radiation Control
\$205,582.14	* MORRISON	JACK	System Window Coordinator
\$205,569.33	GREGORY	HANK	Authorization Training Supervisor
\$205,538.01	WHELAN	JAMES	Authorized Nuclear Operator
\$205,431.27	PARK	JEREMY	Authorized Nuclear Operator
\$205,366.39	WILLIAMS	JOEL	Authorized Nuclear Operator
\$205,227.06	WOODWARD	SEAN	First Line Manager, Control/Mechanical
\$205,004.56	ALI LEMKAY	SHAZAM	Electrical & Control Technician
\$204,841.80 \$204,699.86	DE ROOSE	KEVIN ADAM	Section Manager Operations Training Control Room Shift Supervisor
\$204,641.90	TIRABORRELLI	FRANK	Work Coordinator
\$204,611.89	FRANCE	ROB	First Line Manager, Control/Mechanical
\$204,501.90	LUI	KIN FAI	First Line Manager, Control/Mechanical
\$204,440.03	LOUGHREY	SHAWN	First Line Manager, Control/Mechanical
\$204,383.65	SHAH	SUSHIL	Director Asset & Transmission Management
\$204,266.14	CHILDERHOSE	TODD	Authorized Nuclear Operator
\$204,238.96	HENDERSON	COLE	Shift Emergency Response Manager
\$204,180.31	VAUGHAN	GEORGE	First Line Manager, Control/Mechanical
\$204,023.31	BARNES	STEPHEN	Certified Unit "O" Control Room Operator
\$204,009.75	GIANNANTONIO	FABIO	Field Shift Operating Supervisor
\$203,939.59 \$203,898.45	<u>SEGU</u> THOTTUMKAL	JASVINDER VINODU	Field Shift Operating Supervisor First Line Manager, Control/Mechanical
\$203,813.62	WOPEREIS	IIM	First Line Manager, Control/Mechanical
\$203,747.72	WAINMAN	MARK	Inspection & Maintenance Technician First Line Manager Assistant
\$203,625.07	CLINTON	STEPHEN	Supervising Nuclear Operator First Line Manager Assistant
\$203,614.11	PARKS	SABINE	Director Controllership
\$203,595.85	PIERCE	DOUG	Certified Unit "O" Control Room Operator
\$203,315.51	ANDERSON	DAVID T.	First Line Manager, Control/Mechanical
\$203,200.80	TERRO	MAHMOD	Project Engineer/Officer
\$203,176.20	LANGEVINE	MAURICE	Electrical & Control Technician
\$203,110.98	THOMAS	STEPHEN	Field Shift Operating Supervisor
\$202,955.94	HARRISON DEWAR	KENNETH	Real Time Markets Supervisor Supervising Nuclear Operator First Line Manager Assistant
\$202,947.31	* LE BLANC	STEVE	Supervising Nuclear Operator First Line Manager Assistant First Line Manager, Control/Mechanical
\$202,923.59 \$202,880.06	D'SILVA	BERNIE MILBURN	Mechanical Technician
\$202,638.86	GRECO	FERNANDO	First Line Manager, Control/Mechanical
\$202,625.70	LORENCEZ	CARLOS	Director
\$202,590.20	SHIEL	BRENDAN	Electrical & Control Technician First Line Manager Assistant
\$202,569.59	FAWNS	REGINALD	First Line Manager, Control/Mechanical
\$202,544.32	SCARFO	MIKE	Work Coordinator
\$202,516.99	EVANS	DOUG	First Line Manager, Inspection & Maintenance
\$202,511.32	WROBEL	MARTIN	First Line Manager, Radiation Control
\$202,454.00	MALEK	IMTIAZ	Director
\$202,444.10	REINERT	PHIL	Vice President Supply Services Ontario Power Generation Projects
\$202,399.69	POLLARD	ALAN	First Line Manager, Control/Mechanical
\$202,372.70	WALSH	DAVID P.	Authorization Training Supervisor
\$202,299.86	STONE	GARETH	Certified Unit "O" Control Room Operator
\$202,280.89 \$202,139.34	<u>FILLIER</u> LEDWARD	TIMOTHY MICHAEL	Authorized Nuclear Operator Supervising Nuclear Operator First Line Manager Assistant
\$202,024.68	TALEVI	MICHAEL	Mechanical Technician/Technologist
\$201,894.63	RANKINE	DAVE	Training Technician - Conventional Safety
カムひょ.ひうせ.い.)			

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\$201,852.64	LOVERIDGE	CHARLES	Certified Unit "O" Control Room Operator
\$201,839.85	SCHREIBER	PAUL	Authorized Nuclear Operator
\$201,811.78	SMITH	ROBIN	Authorized Nuclear Operator
\$201,786.32	SANKER	LATCHMAN	First Line Manager, Control/Mechanical
\$201,727.57	DESPRES	ARTHUR	Manager Refurbishment Operations & Maintenance Programs
\$201,707.46	MAINGOT	JAMES	Authorized Nuclear Operator
\$201,467.54	KUBICKI	TODD THOMAS	Field Shift Operating Supervisor
\$201,390.10	SMITH	CLIFFORD	First Line Manager, Control/Mechanical
\$201,311.63	D'SOUZA	BERTIE	First Line Manager, Control/Mechanical
\$201,254.99	PARKER	PAUL	Mechanical Technician
\$201,225.90	ARAUJO	JAMES	First Line Manager, Radiation Control
\$201,189.40	ROBERTS	CHARLES	Director Information Technology Projects & Outsourced Services
\$201,088.53	LOVELAND	GLENN	First Line Manager, Control/Mechanical
\$201,046.27	HAMMERSTROM	WILLIAM	Authorized Nuclear Operator
\$200,943.01	KETO	GERALD	Director
\$200,937.08	MARTIN	ROY	Director - Nuclear Safety
\$200,811.05	WELLER	BRADLEY	First Line Manager, Control/Mechanical
\$200,740.25	BELL	BRIAN	Director Market Affairs
\$200,635.90	BIRD	DAVID	Shift Emergency Response Manager
\$200,390.43	* DETSIKAS	MARY	Authorized Nuclear Operator
\$200,180.20	MITCHELL	GERRY	System Window Coordinator
\$200,081.65	COBER	JOHN	Authorized Nuclear Operator
\$200,041.09	DAWSON	JAMES	Vault Supervisor

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1	<u>UNDERTAKING JT2.20</u>
2	
3	Undertaking
4	
5	To provide the communication plan for roll-out of BT program.
6	
7	
8	Response
9	
10	See Attachment 1.

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# BT Engagement & Communications Overview

March 27, 2012

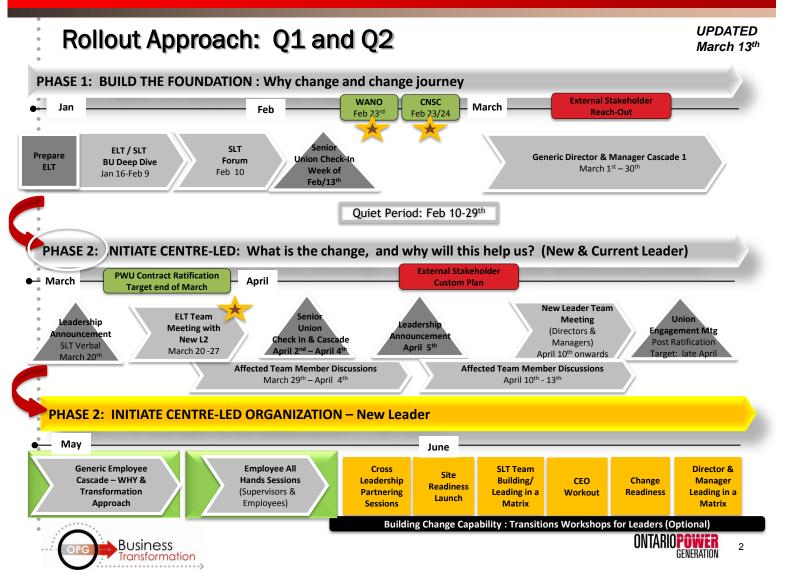


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JT2.20

Attachment 1

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# Four Steps to Initiating Centre-Led Org

Step 1: Leadership Selections Confirmed and Announced to SLT March 5<sup>th</sup> - March 20<sup>th</sup> Step 2: Launch Top Level Organization and Leaders to Everyone March 29 to April 13<sup>th</sup> (April 5<sup>th</sup> Announcement) Step 3: Prepare
Directors/Managers
(non-union staff) on
the "What" Organization
Structure and Plan
April 10<sup>th</sup> to April
30<sup>th</sup>

Step 4: Roll out to Employees on the What - Organization Structure and Plan

Date to be determined





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# Step 2: Launch Top Level Organization and Leaders to Everyone

Timeframe: March 29<sup>th</sup> — April 13<sup>th</sup>

Objective	Tactic	Owner	Timing	Topic Areas
Finalize BU Communication Plan: Affected Team Member Discussions		HR Partner to support ELT and Builder (Support from Change & Comms)	March 27 <sup>th</sup>	•Detailed BU communication plan for affected team member discussions (see slide 5)
Custom BU Plan for Affected Team Members: Communication to directly affected team members  Principles: Communicate to directly affected team members before the announcement (Mon/Tues) Current leader owns the communication to their team, followed by the new leader If no individual is impact, say that and tailor cascade accordingly	1x1's  Refer to Key Messages Document	Current SLT member to impacted team leads and teams New Leader Follows up	Thurs- Wed March 29 <sup>th</sup> – April 4 <sup>th</sup>	•Concept of a Centre-Led Organization •New leaders that have been appointed to the new centre-led structure •Starting to align teams under new centre-led function •Organization will transition to the centre-led organization in May •What is changing for them •What is not changing  •The resources and teams supporting operations or plants; •Accountabilities of teams at this point in time are not changing. Employees will continue to perform the same job duties they were performing before this change. •For employees who are part of a team transitioning to centre-led, there will be no change to their accountabilities, their direct manager, or their work location. • As we continue to define and refine the change initiatives to help OPG become more efficient and effective, we will work with employees and their representatives. •Announcement will be sent from Tom Mitchell on April 5 <sup>th</sup> •New Leader will follow-up with you •What you can say to your teams right now •Ask to keep this information confidential





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### **Customer BU Plan: Affected Team Leader Discussions**

Developed by HR Partner to support ELT and Builder (support from change/comms)

# Communicate to people directly impacted: Mar 29th - Apr 4th

- Current leader talks to direct reports/leaders who are transferring out
- New Leader talks with new direct reports/leaders who are transferring in
- •Current L2's talk to current direct report team about changes to the team: leadership changes if any, team changes
- Transferring leaders talk to their immediate teams (not extended teams yet, unless they are small and will feel the impact. Keep discussions with broader teams/union staff to closer to announcement)



# Announcement - Apr/5<sup>th</sup>

# Follow-up with organizations post announcement: Apr 10th-13th

- New L2 Leader communicates with direct report team
- New L2 communicates with extended team (email/group meeting)
- L3/L4's to their teams on what it means where appropriate

**Note:** Communication prior to announcement should focus on those directly impacted, not extended organizations until post announcement. Communications with represented staff prior to announcement should be limited to staff who will be directly impacted as a result of the change.





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Attachment 1 Page 6 of 7

# Step 2: Launch Top Level Organization and Leaders to Everyone

Timeframe: March 29th - April 13th

Objective	Tactic	Owner	Timing	Topic Areas
Discussion with Senior Union Leaders	Meeting	Jason	April 2 <sup>nd</sup>	Overview of communication materials and April 5 <sup>th</sup> announcement
Follow-up with Chief Stewards/UD's	1x1	Comms Owners (TBD)	April 3 <sup>rd</sup> and 4 <sup>th</sup>	Key messages from the April 5 <sup>th</sup> announcement
Announcement of new organization	Email Website Org Charts EE Q&A Submit questions	Tom	Thurs Apr 5 <sup>th</sup>	Concept of Centre-Led Organization Structure and the significant functional organization changes What is changing and what is not changing Brief overview of quick wins/early implementation initiatives Next steps
BU/Function Announcement	Email  Template will be provided	(Support from Builder, Comms, Change)	Post April 5 <sup>th</sup> Announcement	•Reinforce Corporate key messages (provided in template) •Thank teams that will be transferring out of the BU and highlight benefits now they are apart of centre-led and the continued support •Welcome teams that will be transferring in to the BU/function and highlight benefits now they are apart of centre-led and the continued support •Announce changes within the BU/function •Announce any new L3 roles •Thank leadership team who will be driving this transition forward •Provide an overview of BU specific quick wins/early implementation initiatives •Remind people again of the importance of delivering a strong 2012 business plan, deliver the commitments and continue to ensure safe, reliable operations and strong project execution
Custom BU Plan: Leaders communicate more broadly to teams	Email/ Meetings Refer to Key Messages Document	Current SLT Member New SLT Member	W/O Apr 10 <sup>th</sup> - 13 <sup>th</sup>	Reiterate what is changing  The resources and teams supporting operations or plants;  Accountabilities of teams at this point in time are not changing. Employees will continue to perform the same job duties they were performing before this change.  For employees who are part of a team transitioning to centre-led, there will be no change to their accountabilities, their direct manager, or their work location.  As we continue to define and refine the change initiatives to help OPG become more efficient and effective, we will work with employees and their representatives.  Organization will transition to the centre-led organization in May.  6  Deliver a strong 2012 business plan, continue to deliver the commitments, and continue to ensure safe reliable operations and strong project execution.

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# Step 3: Prepare Directors/Managers on the "What" Organization Structure and Plan (New L2 Leaders Team Meetings with Dir/Mgrs)

Timeframe: April 10th – April 30th

### Objectives:

- · Provide an overview of the OPG top level organization design and the benefits of moving to centre-led model.
- Overview of ALL L2 organizations by function/business unit, with a focus of key BU dependencies.
- Overview the May transition organization for the specific function, and early initiatives the function/BU will be working on
- Provide an opportunity to dialogue about what is changing, the implications, next steps and their role.

Format: Presentation/Custom design based on Business Unit/Function requirements

### **Employee Cascade Implications:**

- Cascade may happen for employees after PWU ratification or once ELT/L2's are notified this can happen
- In the meantime, generic Q&A for all employees and key messaging will be provided online at the time of announcement

**Support:** Change Support will partner with Builders and Communications to support the rollout

### **Common Content Areas:**

- Integrated Model, Centre-led
- Top level organization structure
- L2 structure by Function/BU
- Benefits of the change
- Phases and status of the change

# **Custom Content Areas: by Business Unit / Function**

- Overview to April transition org for specific function
- Address key BU dependencies
- Discuss early initiatives
- What is changing/Not & next steps
- Benefits of the change

# L2 Specific Details: (customized by L2 leader)

- L2 initiatives
- What it means for a specific team
- Key next steps and actions





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1	UNDERTAKING JT2.21
2	
3	<u>Undertaking</u>
4	
5	To provide or give the reference to the BT corporate scorecard.
6	
7	
8	<u>Response</u>
9	
10	The following response was provided at the conference (see Day 2 Transcript pp. 119-
11	120):
12	
13	I am just wondering, before we break, we were asked earlier about the BT
14	corporate scorecard, or the BT scorecard, and when we were dealing with
15	the subsequent question we turned it up. So that is Exhibit L, tab 1.2,
16	schedule 17, page 3 of 6. So that page within the corporate balance
17	scorecard is the BT scorecard.

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1	UNDERTAKING JT2.22
2	
3	<u>Undertaking</u>
4	
5	To file the document Entitled "A Leader's Guide to Culture."
6	
7	
8	Response
9	The subject decomposition assisted as Attachment 4
10	The subject document is provided as Attachment 1.

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# **Power Forward:**

# The Way We Do Things at OPG

Leader's Guide to Culture

Rev: Jul 2013

Use this resource with your team to build understanding of what it means to live our Values and Behaviours and how each of us as leaders can make a difference.

Welcome 2

**3** OPG Mission, Values and Behaviours

**Behaviours Descriptions** 

**6-10** Your Role Expectations & Tools to Use

Ways to Power Forward 1

12 Appendices (Tools)



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[2]

# Welcome



As one of our leaders, you play a critical role in transforming our business. With your continued support, we can involve employees in making sustainable change that will build a strong future for OPG.

Our Values and Behaviours define the culture we need to be a high performing organization and achieve our Mission to be Ontario's low cost electricity generator of choice. I have said that our transformation is 90% cultural, and it will take each one of us to make a difference. Shifting our culture means everyone shifting his or her behaviours. It starts with ourselves, first and foremost. Many of you have started to take action. You may be wondering what is expected of you in a leader role to impact culture change? I have three calls to action:

- First Be a role model. Demonstrate our Values and Behaviours in your day-to-day work. Understand that the expectations that people have of us as leaders is to walk our talk. Be humble, we will not always get it right but we need to be transparent on what we are learning and clear a path for others to do the same.
- Second Build understanding with your team. Help your employees understand what our Values and Behaviours mean in their daily work. Have conversations with them. Point out examples and share stories of your team putting them into action.
- Lastly Tell me what you need from me to make this culture change. What barriers or roadblocks are you facing in making this change and where do you need my help to make the Behaviours stick? Please share your ideas by sending me an e-mail.

Use this leader's guide to support you in my call to action. Let's transform our culture and collectively make our Values and Behaviours the way we do things at OPG.



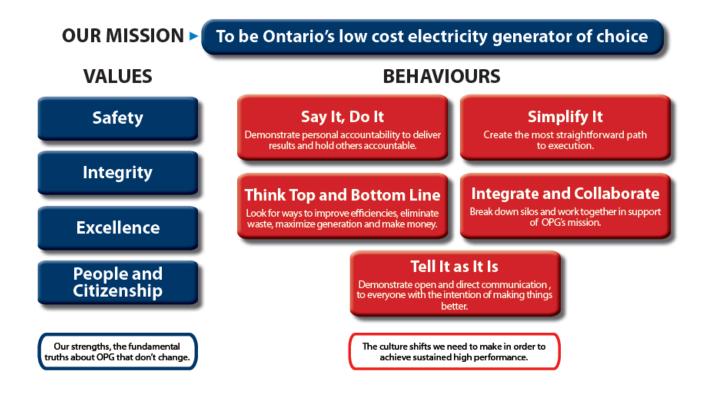


[3]

# Mission, Values and Behaviours

Our Mission is to be Ontario's low cost electricity generator of choice. Safety, Integrity, Excellence, People & Citizenship are our OPG Values. They are the fundamental truths about OPG that don't change. They are our strengths that guide our behaviour and decision making, and point the way to business conduct that results in successful individuals and a successful company.

Our Behaviours are the cultural shifts we need to make to be a high performing company and continue to deliver on our Mission. These Behaviours – Say It, Do It, Simplify It, Think Top and Bottom Line, Integrate and Collaborate and Tell it As It Is – strengthen and support OPG's Values and are essential to making sustainable change at OPG.



As we transform our business, demonstrating the OPG Behaviours is critical to achieving sustained change. This guide emphasises our Behaviours, and provides ways each of us can make them real and everyday.



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[4]

# **Behaviours Descriptions**

OPG Behaviours for All Employees at OPG clarifies the expectations regardless of our role, job or group.

# **OPG** Behaviours

### the way all employees do things around here

Below are the behaviours expected from all employees regardless of role, iob, or aroup - they quide all of us at OPG.

# Say It, Do It

Demonstrate personal accountability to deliver results and hold others accountable.

- · Deliver on commitments with a consistent focus
- on safety and quality.

  Expect others to deliver on their commitments and results.
- Surface issues and identify problems in a timely manner and recommend solutions where required.
- Own mistakes and failures, and learn from them to improve the next time.
- Understand the risks and implications of decisions and actions: ask if you don't know

- · Compromise safety requirements, or eliminate the safety verification process.
- Blame others instead of owning mistakes.
- Work around people who aren't delivering on their commitments.
- not delivering on a commitment.

### Simplify It

Create the most straight forward path to execution.

#### **√** IT IS

- · Simplify work practices and procedures within your control; input to simplify ones that aren't.
- · Identify issues, barriers or perceived low value work within processes or procedures and where possible suggest solutions.
- Influence and challenge the status quo when something doesn't make sense, or is overly

#### X IT ISN'T

· Compromise or sacrifice quality or

### Think Top and **Bottom Line**

Look for ways to improve efficiencies, eliminate waste, maximize generation and make money.

- Identify ways to do things better and more efficiently.
- Understand there is a limited amount of money, and act accordingly
- Recognize that all the small costs add up to a larger overall cost.
- Understand how your actions and decisions impact operations
- Understand the challenges of our industry and what it means for OPG

#### X IT ISN'T

- Behave as if there is an endless pot of money and time.
- Spend money and time on "Nice to haves" vs. "Need to haves".

#### Integrate and **Collaborate**

Break down silos and work together in support of OPG's mission.

#### **√** IT IS

- Work collaboratively to problem solve issues, work through conflict and learn together.
- Keep others informed and ensure quality handoffs and knowledge transfer.
- Consider the impact of actions and decisions on others within and beyond the team
- · Proactively build strong working relationships across teams and geographies.

#### X IT ISN'T

- Operate in silos Behave with an "Us" vs. "Them"
- mentality. Perform tasks in isolation of the
- bigger picture and team. Build your own solution without
- considering others' needs and impact to others.
- Solely rely on email as a key means to build working relationships.

#### Tell It as It Is

Demonstrate open and direct communication to everyone with the intention of making things better.

- Speak the truth in a constructive, factual and respectful manner, without blame or judgement.
- Receive feedback openly from peers, direct reports and bosses.
- Deliver both good news and bad news
- Respectfully call out others on inconsistent

### X IT ISN'T

- Avoid difficult discussions
- · Use a process or procedure in place of a difficult discussion
- . Use silence as a way to disagree.
- Be defensive.
- · Talk behind others' backs.

**VALUES** 

Safety • Integrity • Excellence • People & Citizenship

April 2013





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[5]

# Behaviours Descriptions (cont.)

Building on the Behaviours for All Employees, there are leader expectations for those in the role of FLM/Supervisor.

# **OPG** Behaviours

### the way flm/supervisors do things around here

Building on the **all employees** behaviours, below are the added expectations for those in the critical role of **flm/supervisor** at OPG.

### Say It, Do It

Demonstrate personal accountability to deliver results and hold others accountable.

#### √ IT IS

- Set clear expectations, observe work execution provide feedback on performance.
- Hold others to their commitments and results, recognize when they deliver, and challenge when they don't.
- Ensure staff have the appropriate decision authority aligned to their role.
- Provide input to decisions, and once a decision is made, own and support the decision, and execute the plan of action.
- Plan and organize work to ensure that work is completed efficiently, and monitor for timely and accurate completion.

#### X IT ISN'T

- Make commitments that you cannot keep.
- Do others' work rather than hold them accountable.
- Create governance for everyone to follow because a few people aren't delivering.

# Create the most straight forward path to execution.

#### **√** IT IS

Simplify It

- Work to change procedures that are perceived as barriers or low value work for staff.
- Ask your staff only for the work necessary to get the job done; eliminate work that isn't.
- Acknowledge and empower skill of the craft/discipline where it makes sense rather the set procedures.

#### X IT ISN'T

- Be more prescriptive than required.
- Create governance or procedures to address an exception, where there is low risk, or in response to an individual mistake.

#### Think Top and Bottom Line

Look for ways to improve efficiencies, eliminate waste, maximize generation and make money.

#### / IT IS

- Operate within your means, including budget and resources.
- Be conscious of your team's productivity and take action to make it better.
- Understand and demonstrate the importance of valuing and developing people.
- Understand what it takes to maintain OPG's license to operate within each of our communities, and take actions accordingly.

#### X IT ISN'T

- Cut corners that may lead to safety or other unacceptable risks.
- Spend too much time and effort on things that have very little benefit.

# Integrate and Collaborate

Break down silos and work together in support of OPG's mission.

#### / IT IS

- Actively work with and involve the right people in decisions and solutions affecting them, sharing early and often.
- Break down silos to promote cross-team cooperation.
- Define success in terms of the whole team.
- Be visible and demonstrate that you are approachable in day-to-day interactions with others

#### X IT ISN'T

- Place your responsibility for making difficult decisions on others.
- Refuse to make a decision until consensus is achieved.

## Tell It as It Is

Demonstrate open and direct communication to everyone with the intention of making things better.

### **√** IT IS

- Take responsibility to speak up.
- Confront the brutal facts and sensitive issues early on.
   Be open and honest about what you can and
- Be open and nonest about what you can and can't say.
- Promote two-way discussion and test for buy-in and understanding.

#### 🗶 IT ISN'T

- Sit on bad news, sugar coat the message.
- Use feedback as an excuse to be rude or disrespectful to others.
- Manage conflict or difficult situations by email.

#### **VALUES**

Safety • Integrity • Excellence • People & Citizenship



Ways to Get Started

- Provide your team with copies of the All Employee What It Is and What It Isn't.
- Discuss what it means to demonstrate them in your work group.
- Build them into your meetings (formal and informal), and share examples of the Behaviours you see. Repeat often.
- Ask your team to share their ideas on practical ways to stay focused on the Behaviours in their daily work.



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[6]

# Your Role Expectations—Lead the Way

The things you do every day with everyone you deal with are opportunities to demonstrate our Values and Behaviours. Our Values are a source of pride from OPG, and as a leader, demonstrating this pride and continuing to live the Values are important to lead the way. Our Behaviours require us to change – employees, peers and others will watch if you are demonstrating the Behaviours and reinforcing them with others. If we all do our part, collectively we will role model what is important for how we do things at OPG.

### How Can You Lead the Way?

1)	By how you break it down	Have you broken down what the Behaviours mean in your team's day-to-day work, and what they can do to demonstrate the Behaviours?
2)	By how you make decisions	Do your decisions align with our Values and Behaviours?
3)	By what you talk about and the questions you ask	Do you ask questions that invite open discussion of issues and opportunities and do you reinforce the Values and Behaviours in your discussion?
4)	By your reactions to critical incidents	Do you stick to our Values and Behaviours when under stress and dealing with issues?
5)	By what you recognize	Do you recognize people who are demonstrating our Values and Behaviours?
6)	By your pride	Do you demonstrate your pride in the job well done and in working for OPG?

# **Tools You Can Use**

The tools in this guide are designed to be used in two ways:

- On your own, to reflect on the leadership impact you are making in modeling our Behaviours.
- With your team/crew to build their understanding of what our Behaviours mean and involve them on how to implement the Behaviours in their daily work.

It is recommended you begin with using the tools to reflect personally on how you are demonstrating the OPG Behaviours and then use the tools with your team/crew.

The OPG Behaviours tools are:

- 1. Progress Check check in on progress for making the Behaviours the way we do things at OPG.
- 2. What it Looks Like recognize and call out our Behaviours in action.
- 3. **Conversation Generator** have positive and meaningful team conversations about what the Behaviours mean.
- 4. Embed in Your Work Programs link the Behaviours and actions required for work program success



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[7]

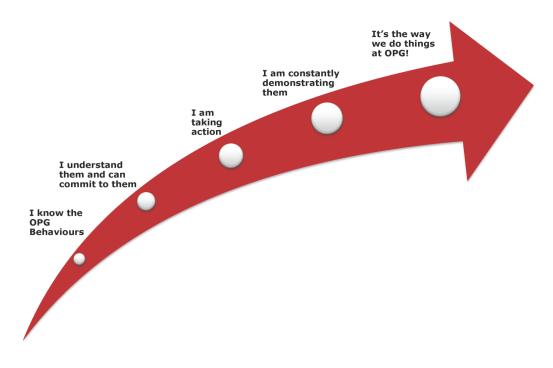
# Tools You Can Use (cont.)

### **OPG Behaviours: Progress Check** To reflect on your personal progress of modeling how we do things at OPG. To do a progress check with your team/crew on where we are on our change journey of living **Purpose** our Behaviours. To identify as a team/crew what we can do to place our Behaviours at the centre of the way we do things at OPG. A copy of the OPG Behaviours, What it Is and What it Isn't **Materials** A copy of the Culture Change Progress Check Tool 15 minutes **Time Needed** Indicate what stage you are currently at on the culture change curve below. 2. Reflect / discuss: a. Why you think you are at this stage. What are your reasons / examples that lead you to believe this is where you are at? Steps b. What strengths can be leveraged more? What are the gaps? c. What actions can you take to move to the next stage? What support is needed?

3. Summarize the 1-2 actions you are committed to taking to move towards the next stage.

### **Culture Progress Check – see the Appendix for a full-page version:**

CTRL + Click Jump to Appendix





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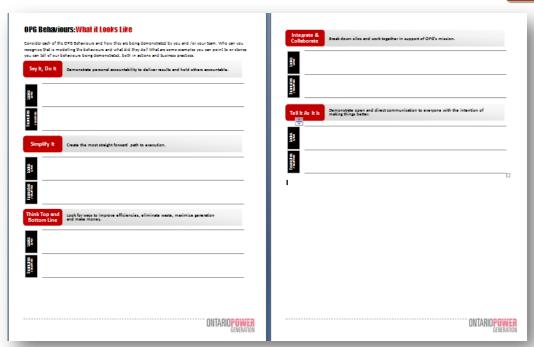
[8]

# Tools You Can Use (cont.)

### **OPG Behaviours: What it Looks Like** • To identify and call out when our Behaviours are being modelled in our daily work. To point out examples and stories of our Behaviours as we recognize them in both our actions **Purpose** and business practices. To broaden participation and generate momentum on taking action. **Materials** A copy of the What it Looks Like Tool **Time Needed** 15 minutes Choose an OPG Behaviour(s) to focus on with your team/crew. 2. Have people individually write down who comes to mind as an example of demonstrating this Behaviour and what they specifically did. Also have them jot down any stories they have about our Behaviours being depicted both in our daily actions and in our business practices. 3. Lead a roundtable discussion: **Steps** a. Ask people to talk about who it is they would like to recognize and what they did. Encourage them to be specific on what was modelled, the situation, and the impact it had. If it is someone or a team in another department, discuss how they can recognize them outside of b. Solicit stories of our Behaviours being depicted both in our daily actions and in our business practices.

### What It Looks Like Tool – see the Appendix for a full-page version:

CTRL + Click Jump to Appendix





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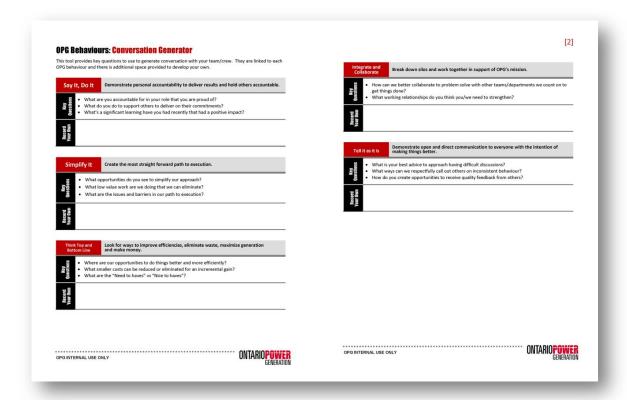
[9]

# Tools You Can Use (cont.)

### **OPG Behaviours: Conversation Generators** To generate positive and meaningful conversations with your team/crew on demonstrating our Behaviours with each other. To deepen understanding of our Behaviours and share learning's that further integrate in to day-**Purpose** to-day actions. To coach others on making our Behaviours real every day. **Materials** A copy of the Conversation Generator Tool **Time Needed** 15 minutes 1. Pick an OPG Behaviour as a focus for conversation. Discuss the questions provided on the Conversation Generator tool or develop your own in the Steps space provided. 3. Summarize the 1-2 actions or insights that are important from the conversation to focus on going forward.

### Conversation Generator Tool – see the Appendix for a full-page version:







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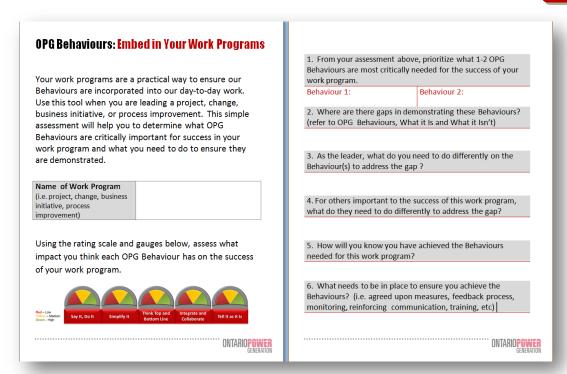
[10]

# Tools You Can Use (cont.)

### **OPG Behaviours:** Embed in Your Work Programs • To identify which Behaviours are critically important to impact the success of a work program **Purpose** To identify what Behaviours to focus on and demonstrate as the leader To identify what Behaviours others need to focus on and demonstrate to impact success. A copy of the OPG Behaviours, What it Is and What it Isn't **Materials** A copy of the Embed in Your Work Programs Tool 15 minutes **Time Needed** 1. Review the OPG Behaviours, What it Is and What it Isn't and your objectives for your work 2. Identify what Behaviours are critically important to impact success of your work program using the rating scale provided in the tool **Steps** a. Select the top 2 Behaviours that have a high impact and are most critically needed b. Reflect / discuss what you will do differently individually and as a team to align your Behaviours to your work program success. 3. Identify what needs to be in place to ensure success.

### Embed in Your Work Programs Tool – see the Appendix for a full-page version:

CTRL + Click Jump to Appendix





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[11]

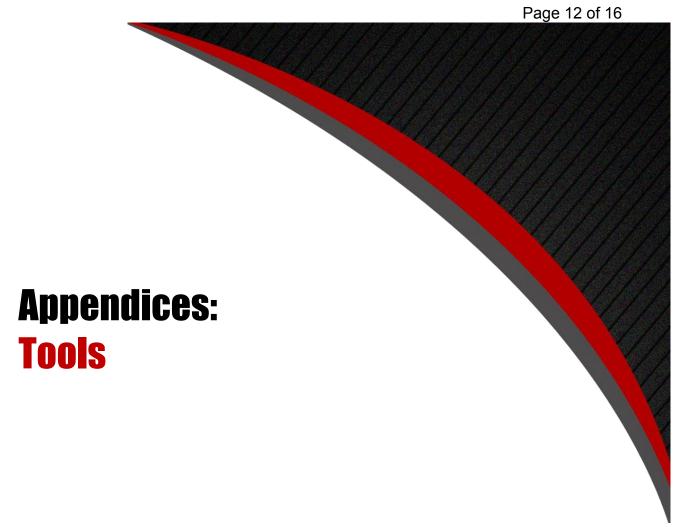
# Ways to Power Forward

The following are suggestions for ways to get started, progress and reinforce our Behaviours with your team/crew that you can do both formally and informally on a day-to-day basis.

	Fo	rmally	Inf	ormally
		. 1:many, groups, public, visible, structured event)		ew or 1:1, interpersonal, private, less visible,
	۷	. I many, groups, public, visible, structured events,		going process )
Ways to Get Started		Put OPG Behaviours as an agenda item and use the tools in this guide to help you with a structured process.  Use Behaviours as part of any meeting critique tool you use.  Put up OPG Behaviours posters in your work location.  Feature a story of someone or your team/crew modelling the Behaviours in existing communication channels.  Give people permission to make a change you want to see.	0 0 00 0	Identify and record a personal leadership commitment or action plan that that is directly focused on the Behaviour(s).  Add a copy of the OPG Behaviours to a highly visible spot as a regular reminder (e.g., your notebook, at your work station)  Engage those that show an immediate interest. Encourage and give permission to debate, discuss, and disagree to shift the culture to active participation.  Use the language from our Values and Behaviours every day.  Take some risk and be uncomfortable to learn
Move to	_	Have a team event where Behaviours are a		and align to the Behaviours.  Connect the dots between Behaviours and
Ways to Progress		focus/theme.		expected outcomes.
FIUGICSS		Create a team plan for implementing Behaviours in		Get feedback from someone you respect how
	_	your work unit and integrate into your business plan.		you are demonstrating the Behaviours and
		Identify work programs where Behaviours play a critical role and identify actions to take to ensure		what opportunities you can work on.  Coach a team member using the Behaviours as
		behaviour change is successful.		a focus for development.
		Inquire into mistakes / problems / challenges / to		Call out Behaviour that is inconsistent or
		ensure lessons learned are applied going forward.		ineffective.
		Do a "stop, start, continue" assessment with your		
		team/crew to determine what Behaviours need focus.		
		Include in performance appraisals discussions (PPR)		
		- both "what" results (task) and "how"		
Ways to		Have a practice to recognise individual employees		Recognize someone privately for demonstrating
Reinforce		and/or a whole work unit for demonstrating an OPG		an OPG Behaviour.
		Behaviour effectively (in a way that picks up on their preference around recognition). Follow up on PPR		Catch people (employees, peers and others) doing something right around our OPG
		discussions and performance appraisals.		Behaviours and tell them.
		Put OPG Behaviours as an agenda item on tailboard		
	_	/ team meetings.		
		Provide team/crew with examples of behaviour		
		change so they can recognize the good examples. Incorporate into workplace observation and		
	ַ	coaching.		



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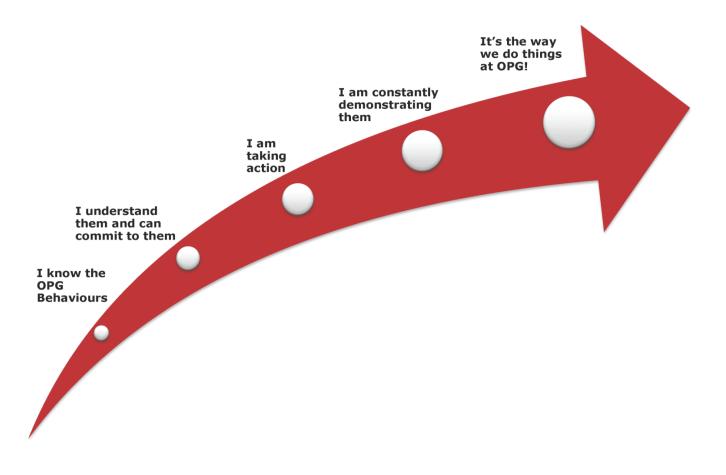




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# **OPG Behaviours: Culture Progress Check**

Use the continuum below to reflect on and discuss your current position on the culture change curve.





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# **OPG Behaviours: What It Looks Like**

Consider each of the OPG Behaviours and how they are being demonstrated by you and /or your team. Who can you recognize that is modelling the behaviours and what did they do? What are some examples you can point to or stories you can tell of our behaviours being demonstrated, both in actions and business practices.

Say It, Do It	Demonstrate personal accountability to deliver results and hold others accountable.
Looks Like	
Examples/Stories	
Simplify It	Create the most straight forward path to execution.
Looks Like	
Examples/Stories	
Think Top and Bottom Line	Look for ways to improve efficiencies, eliminate waste, maximize generation and make money.
Looks Like	
Examples/Stories	
Integrate and Collaborate	Break down silos and work together in support of OPG's mission.
Looks Like	
Examples/Stories	
Tell it as it is	Demonstrate open and direct communication to everyone with the intention of making things better.
Looks Like	
Examples/Stories	



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# **OPG Behaviours: Conversation Generator**

This tool provides key questions to use to generate conversation with your team/crew. They are linked to each OPG behaviour and there is additional space provided to develop your own.

benaviour and there	is additional space provided to develop your own.
Say It, Do It	Demonstrate personal accountability to deliver results and hold others accountable.
	What are you accountable for in your role that you are proud of?
<b>Looks Like</b>	What do you do to support others to deliver on their commitments?
	What's a significant learning have you had recently that had a positive impact?
Examples/Stories	
Simplify It	Create the most straight forward path to execution.
	What opportunities do you see to simplify our approach?
<b>Looks Like</b>	<ul><li>What low value work are we doing that we can eliminate?</li></ul>
	What are the issues and barriers in our path to execution?
Examples/Stories	
Think Top and	Look for ways to improve efficiencies, eliminate waste, maximize generation
<b>Bottom Line</b>	and make money.
	Where are our opportunities to do things better and more efficiently?
Looks Like	What smaller costs can be reduced or eliminated for an incremental gain?
	What are the "Need to haves" vs "Nice to haves"?
Examples/Stories	
Integrate and Collaborate	Break down silos and work together in support of OPG's mission.
	How can we better collaborate to problem solve with other teams/departments we count on
Looks Like	to get things done?
	What working relationships do you think you/we need to strengthen?
Examples/Stories	
Tell it as it is	Demonstrate open and direct communication to everyone with the intention of making things better.
	What is your best advice to approach having difficult discussions?
<b>Looks Like</b>	What ways can we respectfully call out others on inconsistent behaviour?
	How do you create opportunities to receive quality feedback from others?
Examples/Stories	



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# **OPG Behaviours: Embed in Your Work Programs**

Your work programs are a practical way to ensure our Behaviours are incorporated into our day-to-day work. Use this tool when you are leading a project, change, business initiative, or process improvement. This simple assessment will help you to determine what OPG Behaviours are critically important for success in your work program and what you need to do to ensure they are demonstrated.

#### Name of Work Program

(i.e. project, change, business initiative, process improvement)

Using the rating scale and gauges below, assess what impact you think each OPG Behaviour has on the success of your work program.



 From your assessment above, prioritize what 1-2 OPG Behaviours are most critically needed for the success of your work program.

Behaviour 1: Behaviour 2:

- 2. Where are there gaps in demonstrating these Behaviours? (refer to OPG Behaviours, What it Is and What it Isn't)
- 3. As the leader, what do you need to do differently on the Behaviour(s) to address the gap?
- 4. For others important to the success of this work program, what do they need to do differently to address the gap?
- 5. How will you know you have achieved the Behaviours needed for this work program?
- What needs to be in place to ensure you achieve the Behaviours? (i.e. agreed upon measures, feedback process, monitoring, reinforcing communication, training, etc)



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1	UNDERTAKING JT2.23
2	
3	<u>Undertaking</u>
4	
5	To provide information on final performance under each of the metrics in the 2013
6	balance scorecard, subject to confidentiality issues.
7	
8	
9	<u>Response</u>
10	
11	The requested information is provided in Attachment 1, "Corporate Balanced Scorecard
12	<ul><li>Projected Results as of January 20, 2014."</li></ul>

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### Corporate Balanced Scorecard – Projected Results as of January 20, 2014

Corporate Balanced Scorecard – Projected Results as of January 20, 2014  Corporate 2013 Balanced Scorecard – Forecast  (Ret							l Jan20, 2014
Weight	Key Performance Indicators	Threshold	Target	Maximum	Projected Y/E Results	YE Score	Weighted Score
10%	Safety, Environment, Reliability and Code of Conduct Deliver front-line/core services						
	AIR: All Injury rate (Target = CEA Top Quartile)	1.57	0.89	0.36	0.61	1.26	
10%	<ul> <li>Safety focus areas:</li> <li>Improvement in the area of Work Protection Code</li> <li>Continued focus on Situational Awareness</li> <li>No significant events that impact OPG's reputation</li> </ul>				Below Threshold	0.0	0.00
30%	Financial Performance - Reduce costs & improve OPG financial health						
7%	EBITDA (\$M) (-10%, +15%)	948	1,053	1,211	\$1,302M	1.50	0.11
5%	Headcount – Ongoing Operations (+173, -252)	10,550	10,377	10,125	10,048	1.50	0.08
15%	Operating OM&A expenditures (\$M) (+5%, -10%)	2,735	2,605	2,344	\$2,491M	1.22	0.18
3%	Support Services Operating OM&A expenditures (\$M) (+5%, -10%)	643.7	613	551.7	\$575M	1.31	0.04
35%	Fleet Operating Performance - Control costs while delivering front- line/core services						
25%	Nuclear: TW.h	45.99	47.99	48.99	44.69	0.0	0.0
2.5%	Thermal: Start Guarantee rate	85%	94%	97%	97%	1.50	0.04
7.5%	Hydro: Availability (%)	89.5%	91.6%	93.5%	91.6%	1.00	0.08
25%	<b>Project Performance -</b> Support Ontario's Long Term Energy plan and deliver front-line/core services						
8%	OPG Business Transformation Strategy					1.00	0.08
4%	Niagara Tunnel	Meet project	milestones	and		1.25	0.05
4%	Lower Mattagami	measures spe	ecific to each	project –		0.94	0.04
2%	Atikokan conversion	See Attached				0.59	0.01
7%	Nuclear Refurbishment					1.06	0.07
100%							0.77
absolute. Th	ures form the basis on which our overall corporate performance will be assessed but ne Board and President reserve the right to determine the Corporate Score. In exerci- to the Corporate Score or individual scorecard items.				•		

Page 1

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## **2013 Corporate Balanced Scorecard – Forecast Project Performance Measures**

	13 Corporate Balanced Scorecard – Project rformance Measures (Revised Jan 20, 2014)	Threshold	Target	Maximum	Projected Y/E Results	YE Score (Below /Target/Above)
Bu	siness Transformation					1.0 – Adjusted by CEO
A.	Fully Implement the Centre Led Organization (30%)	Both results are at or better than Threshold <sup>(Note 1)</sup>	Both results are at or better than Target <sup>(Note 1)</sup>	Both results are at or better than Maximum <sup>(Note 1)</sup>		·
1.	ELT acceptance of the Deployment Impact Assessment (15%)	May 31	April 30	March 31 plus CEO assessment of cross- BU collaboration	Actual completion date - March 20 <sup>th</sup> , 2013 CEO assessment confirmed max	1.25
	ELT acceptance of Deployment Readiness Assessment (15%)	June 30	May 31	April 30 plus CEO assessment of cross- BU collaboration	Completed May 8 <sup>th</sup> , 2013. CEO assessment confirmed target	
	Transforming the way we work (50%):			1		
1.	Key transformational initiatives meet the key milestones indicating progress on transformation. (30%)  * Key transformational initiatives identified by Builders' input of 1 or 2 key BT initiatives for each BU	20 of 30 milestones met as scheduled	25 of 30 milestones met as scheduled	All 30 milestones met as scheduled	29 completed as scheduled.	1.4
2.	Business Transformation is embedded in our business practice and culture.  a) Business planning appropriately reflects BT initiatives and goals (10%)		CEO Assessment		CEO Assessment Confirmed as target	1
	b) Transition plan in place to reduce oversight and integration aspects of BT and move key support functions of BT team back to functions and support BU's as business as usual (i.e. change mgmt, HR support) (10%)	Transition Plan in place for 2014 by Dec. 31, 2013	Minimized oversight of BT by Dec. 31, 2013	Transition complete by Dec. 31, 2013	Threshold - 2014 Transition plan reviewed with ELT and approved by ELT Executive sponsor on Dec 19 <sup>th</sup> 2013.	0.5
C.	Effectively managing attrition (20%)					
	Target represents the 2013 Business Plan headcount from ongoing operations (excludes DNNP and Refurbishment)	10,550	10,375	10,125	Current finance forecast of YE headcount: 10,048	1.5

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2013 Corporate Balanced Scorecard – Project Performance Measures (Revised Jan 20, 2014)	Threshold	Target	Maximum	Projected Y/E Results	YE Score (Below /Target/Above)	
Niagara Tunnel	Both results are at or better than Threshold <sup>(Note 1)</sup>	Both results are at or better than Target (Note 1)	Both results are at or better than Maximum <sup>(Note 1)</sup>			
A. Forecasted In-Service Date	June 30, 2013	May 15, 2013	March 31, 2013	9 Mar2013 - Max	1.25	
B. Forecasted Final Cost	\$1.55B	\$1.5B	\$1.45B	\$1.475B Above Target	(Based on Cost)	

Darlington Refurbishment	All results are at or better than Threshold <sup>(Note 1)</sup>	All results are at or better than Target <sup>(Note 1)</sup>	All results are at or better than Maximum <sup>(Note 1)</sup>		
A. Progression of Strategic Contracts (Fuel Handling, Steam Generator, and Turbine Generators) - adherence to schedule (SPI)	0.90	1.00	1.05	1.04 – Better than Target	1.06
<ul> <li>B. Containment Filtered Venting System (BCS approved and contract for detailed design awarded)</li> </ul>	Sep 30	Aug 31	July 31	Complete Aug 27- Better than Target	(based on Containment Filtered Venting
C. Submission of Global Assessment Report and Integrated Implementation Plan to CNSC	Dec 31	Dec 2	Nov 15	Projecting submission to the CNSC on November 15,	System)

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2013 Corporate Balanced Scorecard – Project Performance Measures (Revised Jan 20, 2014)	Threshold	Target	Maximum	Projected Y/E Results	YE Score (Below /Target/Above)
				2013. (Maximum) Achieved > 1	
D. Start of Mock-up Construction (date)	July 30	July 15	June 15	month ahead of plan. (Maximum)	
E. Scope Definition—All Approve Darlington Scope Requests <= Health of Scope 20 (Note 4)	Dec 31	Dec 2	Nov 15	All approved Darlington Scope Requests <=Health of Scope 20 achieved by November 15 (Maximum)	

#### Notes:

- 1. For these projects with multiple components, the entire project takes the score of the lowest performing component
  - If any of the tasks are below Threshold, the project does not meet Threshold
  - All tasks must be at or better than target to achieve target. If any task is below target, the project takes the score of the lowest performing task.
  - All tasks must be at or better than maximum to achieve maximum. If any task is below maximum, the project takes the score of the lowest performing task.
- 2. Threshold achievement for Niagara and Atikokan will be based on the October month end EPC contractor forecasts
- 3. Includes formwork, rebar and concrete pour, but does not include shoring removal.
- 4. Exceptions (approved by the EVP Nuclear Projects) are allowed for the following: Scope resulting from planned inspections or analysis scheduled during or after 2013, i.e. scope resulting from scheduled inspections in the 2015 VBO outage. Any new scope approved by: The Darlington Refurbishment Scope Review Board during or after 2013. Any new scope resulting from the CNSC's review and approval of the EA or ISR. "Approved" Darlington Scope Requests require approval by the Darlington Refurbishment Scope Review Board.
  - The following are the Health of Scope definitions (note the lower the score, the scope is better defined):
    - o 90 Scope will not be executed in Nuclear Refurbishment, DSR will be removed pending PSRB approval
    - o 60 Pure engineering or procedures with no likely field work (i.e. provide CNSC with reports, update procedures, etc)
    - o 50 Assessment is required to build a report for analysis
    - 40 Analyze the completed report to determine actions / path forward
    - 30 Actions to implement selected, may be a component strategy across many systems
    - o 20 Work is known at the system or project level but not component
    - 10 Work is known at the component / MEL level
    - o 5 DSR is adequately known such that it is ready for Work Order to be input on all Units
    - 4 All Work Orders input for DSR on all applicable Units or all work completed for DSR.

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Filed: 2014-05-02 EB-2013-0321 JT2.24 Page 1 of 1

1 2	UNDERTAKING JT2.24
3	<u>Undertaking</u>
5	To produce OPG's amended Code of Conduct.
6 7	
8	Response
9 10 11	The following response was provided at the conference (see Day 2 Transcript p. 61):
12	The question earlier with respect to the update of the code of conduct to
13	include transparency in the hiring practices, that is actually found in our
14	submission under SEC Interrogatory 002. So the most recent version of
15	the code of conduct is included in that sorry, being SEC Interrogatory
16	012.

Filed: 2014-05-02 EB-2013-0321 JT2.27 Page 1 of 1

1	UNDERTAKING JT2.27
2	
3	<u>Undertaking</u>
4	
5	To clarify whether first-day health and dental benefits coverage applies to new
6	employees during their probationary period.
7	
8	
9	<u>Response</u>
10	
11	Yes, health and dental benefits apply to new employees during their probationary period
12	and are effective the first day worked.

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1 <u>UNDERTAKING JT2.28</u>

2 3

## **Undertaking**

To provide available information on savings resulting from adoption of 24-month window for filing dental and health claims.

## Response

OPG expects to save approximately \$20k per year in reduced administration costs related to the processing of claims greater than two years old. Older claims are more difficult and time consuming to process.

In addition, OPG expects to realize cost savings associated with the adjudication and grievance/arbitration processes. Claims greater than two years old often do not have all of their required documentation, due to the lapse of time. This results in a challenge to the claim which then has to be adjudicated.

Furthermore, limiting the claim window to two years also reduces OPG's risk of fraudulent claims and brings OPG in line with the practices of other companies.

While the estimated cost savings associated with tightening the Health and Dental claim window are not large, there is still value to OPG in doing so.

1 2 3

> 4 5

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6 7 8

9 10 11

#### **UNDERTAKING JT2.29**

## Undertaking

To make best efforts to provide information on savings resulting from change from five to four consecutive sick days permitted without medical follow-up.

## Response

Based on the transcript at page 145, lines 19 - 27, the undertaking was actually to provide a graph, not "information on savings."

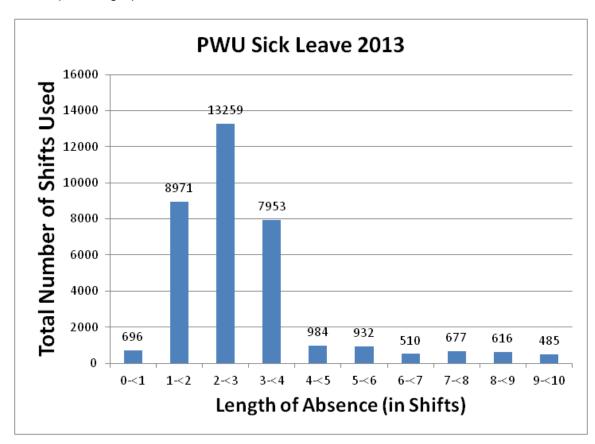
MR. CROCKER: Okay. Can you provide the same graph, or the same type of graph since you have limited it to four days?

MR. FITZSIMMONS: I would have to look at whether or not we've reproduced that graph with the imposition of this new standard.

MR. CROCKER: Okay.

MR. MILLAR: So JT2.29. I guess that is on a best-efforts basis

The requested graph is below.



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1	<u>UNDERTAKING JT2.30</u>
2	
3	<u>Undertaking</u>
4	
5	To confirm whether overtime is included in calculation of 35-hour and 40-hour FTEs.
6	
7	
8	<u>Response</u>
9	
10	Overtime is included in the calculation of the 35-hour and 40-hour FTEs.

Filed: 2014-05-02 EB-2013-0321 JT2.31 Page 1 of 1

1	<u>UNDERTAKING JT2.31</u>
2	
3	<u>Undertaking</u>
4	
5	To confirm whether 2013 actual overtime amounts can be quantified, and advise
6	whether they can be provided.
7	
8	
9	<u>Response</u>
10	The 0040 and all and Community and 0407 414
П	The 2013 actual overtime amount was \$167.1M.

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1 <u>UNDERTAKING JT2.32</u>

2 3

## **Undertaking**

4 5 6

To advise whether it is possible to provide a table showing end-of-year number of ongoing regulated regular employees, non-regular employees, Darlington refurb employees, and new-build nuclear employees.

7 8 9

## Response

10 11 12

13

14

15

OPG notes that this undertaking overlaps with the information requested by Board Staff in Undertaking JT2.33. Accordingly, OPG will provide its response to this undertaking as part of Undertaking JT2.33, which is to be provided in advance of the settlement conference.

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1	<u>UNDERTAKING JT2.36</u>
2	
3	<u>Undertaking</u>
4	
5	To provide broader Ontario public sector averages used in benchmarking analysis in
6	most recent collective bargaining process.
7	
8	_
9	<u>Response</u>
10	
11	The requested information is provided as Attachment 1.

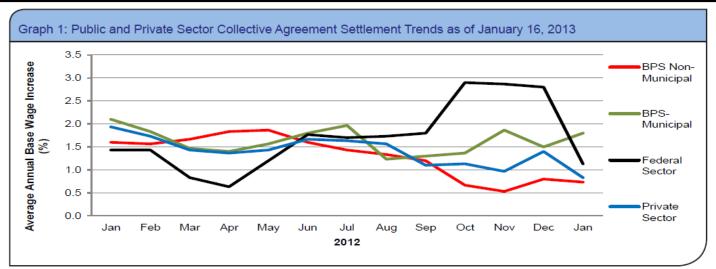
Filed: 2014-05-02 EB-2013-0321

JT2.36

Attachment 1 Page 1 of 1

# Collective Bargaining Monitoring Overview January 16, 2013





The above graph depicts the three-month moving average annual base wage increase for agreements covering 150 or more employees in the BPS Non-Municipal, the BPS Municipal, Federal and Private sectors in Ontario.

For the period of January 2012 to January 2013, the moving average annual base wage increase for the BPS Non-Municipal has declined since May and settled at 0.73% in January 2013.

The Federal sector moving average annual base wage increase continues an upward trend, peaks in October and edges down in January 2013.

The moving average annual base wage increase for the Private Sector has been declining and reaches its lowest point (0.83%) in January 2013.

Wage Information is based on agreements covering 150 or more employees, a sample that represents 81% of all unionized employees in Ontario. Wage information is based on agreements ratified between January 1, 2012 and January 16, 2013 as of January 16, 2013. Wage information consists of an average annual base wage increase over the duration of a collective agreement and excludes lump sum payments. For the Private sector, wage information includes COLA estimates.

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1 <u>UNDERTAKING JT2.37</u>

## **Undertaking**

To explain how the ratio of 3:1 in response to Board Staff interrogatory 121(b) was arrived at, and explain how the methodology differed from the Auditor General's.

## Response

The employer/employee contribution ratio is generally calculated using employer contributions to Current Service Cost and the total employee contributions. Based on the OPG Pension Plan Report to Members 2012, p. 2, this ratio has been approximately 3:1 since 2009.

The Auditor General calculated the employer/employee contribution ratio using the employer contributions to Current Service Cost + Deficit Repayment + Voluntary Payment, and the total employee contributions. Including these special payments yields a higher employer/employee contribution ratio, which was approximately 5:1 for 2012.

A copy of OPG's Pension Plan Report to members 2012 is provided as Attachment 1 to this response.

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## OPG Pension Plan

# Report to Members 2012

The Ontario Power Generation Inc. (OPG) Pension Plan (Plan) 2012 Report to Members is intended to provide members with information about the operation and status of the Plan. This report includes information on the Plan's membership profile, funding, investment performance, and governance structure. The assets of the Plan (Fund) have performed well during the economic challenges of recent years but longer retirement periods and historically low interest rates are driving up pension liabilities. OPG is committed to keeping you informed and providing a sustainable pension throughout your retirement.

#### Plan Facts at a Glance

Asset Value	= \$10.3 billion as at December 31, 2012						
Rate of Return	<ul><li>One year return of 9.4%</li><li>Ten year (2003 - 2012) annualized return of 7.4%</li></ul>						
Membership Profile	Active Members 11,201  Retired Members 8,266  Beneficiaries in Receipt of Pension 2,016  Former Employees with Deferred Pension 899						

#### **Important Notice**

All the terms of the OPG registered pension plan (Plan) are set out exclusively in the Plan text, as amended and filed with the Financial Services Commission of Ontario. While this Report summarizes certain terms of the Plan, this Report does not change or supplement the Plan text in any manner whatsoever. Accordingly, the Plan text will govern exclusively in all cases should any questions or differences arise. The Plan is separate from the OPG supplementary pension plan. This Report contains no information relating to the OPG supplementary pension plan.



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## **Funding of the OPG Pension Plan**

With over \$10 billion in assets, the Plan is well positioned to pay pensions for many years. However, pension plans are required to take into consideration all obligations over a much longer time horizon. When we look at the projected asset values and pension liabilities over the long term, the Plan is in a deficit position (liabilities are larger than assets) and OPG, like many other employers, is taking steps to close the gap.

because o

OPG analyzes the financial position of the Plan on an ongoing basis and files a valuation with the Financial Services Commission of Ontario every three years. The valuation is conducted by an external actuary. The valuation report prepared by the Plan actuary determines whether the Plan is in a surplus or a deficit position. These determinations are made using three different approaches:

 on a going concern basis (which assumes the Plan is continued indefinitely);

- on a **solvency basis** (which assumes a termination of the Plan and the settlement of the Plan's liabilities as at the date of the report. As permitted by applicable law, this calculation is subject to adjustments (1) to exclude the value of indexation (inflation adjustment) and (2) to take into account the changes in the values of assets and liabilities over a five year period (smoothing)); and
- on a wind-up basis (which assumes a termination of the Plan and the settlement of the Plan's liabilities as at the date of the report, without any adjustments).

The Plan's most recent actuarial valuation report was prepared as at January 1, 2011. That report showed that the Plan has a deficit on a going concern basis and a small surplus on a solvency basis (see table below).

The next valuation will be prepared as at January 1, 2014.

Going Concern	January 1, 2011 (\$ millions)	Solvency	January 1, 2011 (\$ millions)
Actuarial Value of Assets	\$9,638	Solvency Assets (smoothed)	\$9,283
Actuarial Liability	\$10,193	Solvency Liabilities (smoothed)	\$9,280
Unfunded Liability	<u>(\$555)</u>	Solvency Excess	<u>\$3</u>

OPG is making special contributions to the Plan of \$65 million per year, over a period of 15 years to eliminate the going concern deficit of \$555 million in accordance with applicable laws.

The law requires that contributions be made to pension plans on a going concern basis and on a solvency basis – but not on a wind-up basis. The Plan's deficit, calculated on a wind-up basis, was approximately \$5.7 billion as at January 1, 2011.

The contributions to the Plan by OPG and its employees over the five year period 2009-2013 are:

(\$millions)	2009		2010		2011		2012		<b>2013</b> (est.)	
<b>Employee Contribution</b>	\$83		\$82		\$80		\$75		\$72	
<ul> <li>Current Year Service</li> </ul>	\$72	25%	\$75	25%	\$74	26%	\$73	26%	\$72	24%
<ul><li>Transfers In</li></ul>	\$11		\$7		\$6		\$2		n/a	
Employer Contribution	\$264		\$270		\$300		\$370		\$300	
<ul><li>Current Service Cost</li></ul>	\$212	75%	\$219	75%	\$218	74%	\$225	75%	\$233	76%
<ul><li>Deficit payment</li></ul>	\$28		\$28		\$65		\$65		\$65	
<ul><li>Voluntary payment</li></ul>	\$24		\$23		\$17		\$80		\$2	

- Power Workers' Union-represented employees contribute 5% of pensionable earnings up to \$50,100, plus 7% of pensionable earnings in excess of \$50,100
- Society of Energy Professionals-represented and Management Group employees contribute 7% of pensionable earnings.

The payments out of the Plan over the five year period 2009-2013 are:

(\$millions)	2009	2010	2011	2012	<b>2013</b> (est.)
Benefit Payments	\$346	\$360	\$387	\$420	\$440
Transfers/Lump Sum Payments	\$100	\$62	\$97	\$163	n/a
Expenses	\$32	\$33	\$36	\$35	\$36

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## **OPG Pension Plan**

# Report to Members 2012

## **Growth of Liabilities**

As at the last valuation, OPG's pension liabilities were larger than pension assets and are growing at a faster pace than the assets. The value of the Fund's assets continually changes based on market performance. Similarly, the value of the Plan's liabilities continually changes with long term Canadian interest rates as the primary driver. If the growth of the Fund's assets matches or exceeds the growth in the Plan's liabilities, the Plan's funded status will remain stable or improve. If, however, the Plan's liabilities grow faster than the Fund's assets, the Plan's funded status will worsen.

As long term Canadian interest rates decline, as has happened steadily over the past decade, the Plan's liabilities increase (and have increased significantly over the past several years). In a declining interest rate environment, the Fund requires more assets today to pay for the Plan's future benefit payments. This situation is one of the contributing factors that has led to the Plan's deficits that we see today.

## **Investment Performance**

% Annual Returns	2006	2007	2008	2009	2010	2011	2012	10 yr annualized
OPG Pension - Total Fund	12.3	2.0	(17.4)	15.0	12.2	6.9	9.4	7.4
Benchmark	12.7	1.7	(19.0)	16.1	12.4	5.7	9.8	7.3
Value Added	(0.4)	0.3	1.6	(1.1)	(0.2)	1.2	(0.4)	0.1

The Fund rate of return for 2012 was 9.4%, which is slightly below the benchmark target of 9.8%.

The Fund's performance is measured against the performance of a benchmark. The Fund's benchmark return reflects the returns of market indices for each asset class category in which the Fund is invested, weighted proportionally by the benchmark asset mix of the Fund. The chart above provides the investment returns compared to the established market benchmark by year.

In 2012, the Fund realized a total return of 9.4 percent, underperforming the benchmark return of 9.8 percent. This relative underperformance was primarily the result of the overweight to bonds, offset by strong results from real estate and foreign equities. On a ten-year annualized basis, the Fund is in line with its benchmark.

As at December 31, 2012, the Fund held approximately 18 percent of its investments in real return bonds. The vast majority of these bonds are guaranteed by the Government of Canada and the return on these bonds closely matches the rate of inflation. This matching partially protects the Plan against increases in the Plan's cost of future pension benefits due to inflation. During 2012, the Fund's bond portfolio, which consists primarily of real return bonds and long-term nominal government bonds, returned 3.9 percent.

There are a limited number of real return bonds and long-term bonds available in the market. As a result, beginning in the second quarter of 2010, the Fund implemented a bond overlay strategy. This strategy consists of entering into financial contracts in order to extend the average maturity dates in, and increase the inflation sensitivity of, the bond portfolio, thereby increasing the matching of the liabilities of the Plan with the assets in the Fund.

JT2.37

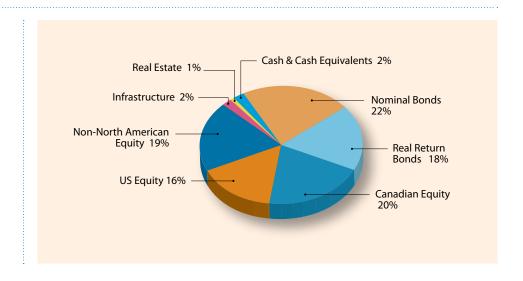
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## **Asset Mix**

This chart shows the Plan's asset mix as at December 31, 2012. The Fund continues to invest in global infrastructure and real estate and as such, the allocations to these asset classes are expected to increase over the next several years.

esp. because



#### Governance

The OPG Pension Plan is governed by the Ontario Pension Benefits Act, and the Federal Income Tax Act. The Plan text also forms part of the Collective Agreement for The Society and the Power Workers' Union. OPG as "Administrator" of the Plan acts through its Board of Directors (Board). We measure ourselves against standards for governance, internal controls and risk management that reflect best practices and the highest standards.

The governance structure defines the roles and accountabilities of those who manage the Plan. The Board has delegated various responsibilities to:

- the Board's Compensation and Human Resources Committee relating to the administration of the benefits, including Plan design; and
- the Board's Audit and Finance Committee relating to the administration of the Plan's assets.

The Board's Audit and Finance Committee appoints senior OPG management to the Pension Committee, which has been delegated the responsibility to supervise the operations of the Plan, manage the Plan assets and implement policies and procedures.

## **Additional Information**

2012 financial information for the Plan's assets and an electronic copy of this Report are available:

- on OPG's intranet at: HumanResources>Benefits>PensionPlan; and
- on the pensioners' website at https://pensioners.opg.com.

Pensioners and beneficiaries can obtain a password for the pensioners' website by e-mailing Pensioner Services at: pensionerservice@opg.com.



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**UNDERTAKING JT2.38** 1 2 3 **Undertaking** 4 5 6 To confirm whether data is available to populate the table in CCC 24, attachment 5 for 2014 and 2015 based on forecasts, and if so, to update the table with those numbers. 7 8 9 Response 10 A forecast of the 2014 and 2015 performance incentive ("AIP") payout cost was included 11 12 in the 2013 - 2015 Business Plan, which is the basis of the pre-filed evidence at Ex. F4.4.1, Table 1. The attached chart has been updated to include this information. 13 14 15 The Nuclear Station Specific Results Bonus is not specifically broken out in the business plan. OPG does not have a forecast of the total number of employees expected to earn 16 17 an incentive payment in the test period.

Performance Year	ar Performance Incentive Plan Employee Category Total Incentive		Total Incentive Payments	Total Number of Employees in receipt of Incentive Payments
	Annual Incentive Plan ("AIP")	Management Group	\$24M	1428
	Award for Performance ("AFP")	Society	\$8M	4069
	Goalsharing	PWU	\$7M	7321
2009	Nuclear Station Specific Results Bonus	Management Group	\$0.33M	30
	Nuclear Station Specific Results Bonus	PWU	\$1.6M	170
	Nuclear Station Specific Results Bonus	Society	\$0.88M	105
	2009 Total		\$41.81M	13123
	AIP	Management Group	\$30.26M	1448
	AFP	Society	\$9.7M	4020
	Goalsharing	PWU	\$8M	7213
2010	Nuclear Station Specific Results Bonus	Management Group	\$0.08M	8
	Nuclear Station Specific Results Bonus	PWU	\$1.61M	179
	Nuclear Station Specific Results Bonus	Society	\$0.88M	93
	2010 Total	<u>'</u>	\$50.53M	1296
	AIP	Management Group	\$28.97M	1293
	Goalsharing	PWU	\$7.9M	6929
	Nuclear Station Specific Results Bonus	Management Group	\$0.37M	36
2011	Nuclear Station Specific Results Bonus	PWU	\$1.76M	179
	Nuclear Station Specific Results Bonus	Society	\$0.92M	94
	2011 Total	Joseph	\$39.92M	8533
	AIP	Management Group	\$27.4M	1230
	Nuclear Station Specific Results Bonus	Management Group	\$0.44M	34
2012	Nuclear Station Specific Results Bonus	PWU	\$1.89M	179
	Nuclear Station Specific Results Bonus	Society	\$0.99M	90
	2012 Total	,	\$30.72M	1533
	AIP	Management Group	· ·	1186
	Nuclear Station Specific Results Bonus	Management Group	\$0.39M	35
2013	Nuclear Station Specific Results Bonus	PWU	\$1.88M	185
	Nuclear Station Specific Results Bonus	Society	\$1.11M	101
	2013 Total		\$22.52M	150
	AIP	Management Group	\$29.1M	N/A
	Nuclear Station Specific Results Bonus	Management Group	N/A	N/A
2014 PLAN	Nuclear Station Specific Results Bonus	PWU	N/A	N/A
	Nuclear Station Specific Results Bonus	Society	N/A	N/A
	2014 PLAN Tota	<u> </u>	\$29.1M	,
	AIP	Management Group	\$29.1M	N/A
	Nuclear Station Specific Results Bonus	Management Group	N/A	N/A
2015 PLAN	Nuclear Station Specific Results Bonus	PWU	N/A	N/A
ZUIJ PLAN	Nuclear Station Specific Results Bonus	Society	N/A	N/A
	2015 PLAN Tota		\$29.1M	IN/A

#### Notes:

Total Incentive Payments reflect the value of awards earned in the Performance Year, however these amounts are accrued and paid out in the following year (i.e. The 2009 Incentive Payments were actually paid out in 2010);

AFP was suspended effective 2011;

Goalsharing was suspended effective 2012

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#### **UNDERTAKING JT2.40**

## **Undertaking**

To add a "total" column to the table in response to board staff interrogatory 124, removes the "2007" column, and cross-add from 2008 to 2015 to the "total" column.

## Response

A modified version of Ex. L-6.8-1 Staff-124, Chart 1 is provided below. In addition to removing the "2007 column" and incorporating the requested "total" column, the modified chart also reflects the updated forecast of 2014 - 2015 pension and OPEB costs presented in Ex. L-6.8-1 Staff-112.

In the EB-2010-0008 Decision With Reasons (page 91), the OEB approved the continued use of the accrual method for determining supplementary pension plan ("SPP") and other post retirement benefit ("OPRB") costs in setting OPG's payment amounts. The circumstances with respect to OPG's SPP and OPRB costs and their recovery have not changed since EB-2010-0008.

On an accrual basis, SPP and OPRB costs are incurred and recognized in accordance with generally accepted accounting principles when the related employee service is considered to be rendered and the benefit is considered to be earned, not when the actual benefit payments are made to retirees in the future. It is the earning of the benefit which results in the cost. Reflecting these costs in payment amounts at the time the costs arise results in an appropriate matching of costs and benefits, thereby avoiding intergenerational equity issues as consistent with generally accepted regulatory principles.

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## Modified Chart 1 OPRB and SPP Amounts<sup>1</sup>

\$M	2008 Actual <sup>2</sup>	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Plan	2015 Plan	Total
Actual/Projected Costs	157.9	120.4	136.1	175.6	203.0	231.3	184.6	192.9	1,401.7
Recoverable Costs	114.0	155.3	153.9 <sup>3</sup>	172.0 <sup>4</sup>	203.0	231.3	184.6	192.9	1,407.0
Actual/Projected Benefit Payments	44.2	43.1	43.4	48.4	57.9	61.2	64.9	71.3	434.4
Recoverable Costs Less Actual/Projected Benefit Payments	69.8	112.2	110.5	123.6	145.1	170.1	119.7	121.6	972.6

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<sup>1</sup> Amounts for 2008-2013 exclude those for the newly regulated hydroelectric assets; amounts for 2014 and 2015 include them. Amounts for all years do not include those related to the Nuclear Waste Management Organization.

Organization.

<sup>2</sup> Amount for recoverable costs represents 9/12 of the annual amount, as the EB-2007-0905 payment amounts came into effect on April 1, 2008. Amounts for actual costs and benefit payments are for the full year.

year. <sup>3</sup> Represents 12/21 of the sum of 2008 and 2009 amounts, as the EB-2007-0905 payment amounts became effective April 1, 2008 and applied throughout 2010.

<sup>&</sup>lt;sup>4</sup> Represents 2/21 of the sum of 2008 and 2009 amounts, plus 10/12 of the 2011 amount, as the EB-2010-0008 payment amounts were effective March 1, 2011