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DETAILS OF OM&A PROJECTS – NUCLEAR

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1.0 PURPOSE

This evidence provides project listings and supporting information, including business case summaries, for planned OM&A project expenditures for nuclear.

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2.0 OVERVIEW

- A tiered reporting structure consistent with the OEB filing guidelines has been used to present the evidence for all OM&A projects which have budgeted expenses during the test period.
 - Tier 1 Projects with a total cost of \$20M or more. Summary level information is provided (see Ex. F2-3-3, Table 1), as well as business case summaries (Attachment 1).
 - Tier 2 Projects with a total cost of \$5M to \$20M, for which summary level information is provided (see Ex. F2-3-3, Table 2).
 - Tier 3 Projects with a total cost of less than \$5M, for which aggregated information is provided (see Ex. F2-3-3, Table 3).

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For Tier 1 projects, Ex. F2-3-3 Table 1 provides information on ten released projects with a total project cost of \$20M or more. These include five ongoing projects from EB-2010-0008, two completed projects, one deferred project and two new projects. Further details on these projects are provided in section 3.0.

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For Tier 2 projects, Ex. F2-3-3 Table 2 provides information on the 23 released projects with total project costs between \$5M and \$20M. These include seven ongoing projects from EB-2010-0008, six completed projects from EB-2010-0008 and ten new projects. Total cost of these projects is \$189.5M.

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For Tier 3 projects, Ex. F2-3-3 Table 3 provides summary level information on the 38 projects with total project costs less than \$5M. The average value of these projects is \$1.9M.

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- 1 As per Ex. F2-3-3 Table 4, there are a total of 29 projects categorized as Project Portfolio –
- 2 Unallocated. These projects are currently in the project identification or project definition
- 3 phases, and detailed expenditure information by project is not available. OPG expects that
- 4 by the test period, some of these listed projects (or other projects yet to be identified) would
- 5 move from the project identification and initiation phases into project definition or execution
- 6 phase as part of the ongoing portfolio management process. None of these projects are
- 7 currently forecast to cost more than \$20M.

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3.0 PROJECT-SPECIFIC INFORMATION - TIER 1 PROJECTS

The following information relates to projects identified in Ex. F2-3-3 Table 1.

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3.1 New Projects

- 13 Two new Tier 1 projects have been undertaken since EB-2010-0008. The objective of
- project #38933, Primary Heat Transport Liquid Relief Value Modifications to Prevent Water
- Hammer is to address valve and piping degradation caused by valve-induced water hammer.
- 16 to ensure continued relief valve functioning and over-pressure protection. The objective of
- 17 project #62449, Severe Accident Management Guidelines Implementation Improvements, is
- 18 to improve OPG's Severe Accident Management Program by incorporating the lessons
- 19 learned from the 2011 Fukushima Daiichi incident.

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3.2 Completed Projects (from EB-2010-0008)

- 22 Two Tier 1 projects have been completed as of year-end 2012 (project #38458, Darlington
- 23 EQ Discovery Work and Scope Reduction and project #40645, Pickering Steam Generator
- 24 Water Lancing). Both projects were completed for less than budget.

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3.3 Deferred/Cancelled Projects (from EB-2010-0008)

- 27 One Tier 1 project identified in the last filing (project #38935, Darlington Boiler Primary Side
- 28 Cleaning), was deferred due to other higher priority work.

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3.4 Project Cost Variances

31 As noted in Section 3.2, all completed projects were completed within budget.

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There is one ongoing Project #40641, Pickering Boiler Tab and Divider Plate Repair (P7 & P8) has an approved superseding release that exceeds the initial full release by more than 10 per cent. This project was released in March 2007, with an estimated cost of \$20.5M and a scheduled completion of year-end 2010. The project was not completed as planned in 2010 due to accessibility problems associated with higher than expected radiation fields. This resulted in a need to re-mobilize the project crew to complete the project in 2012 during the next available unit outage and develop a new approach using specialized tooling. The currently approved project cost is \$39.4M. The superseding release is included in Attachment 1.

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1 LIST OF ATTACHMENTS

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3 Attachment 1: Business Case Summaries

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ATTACHMENT 1

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Table 1 is a listing of Tier 1 projects with expenditures during the test period or Tier 1 projects completed/deferred from EB-2010-0008. The business case summaries are attached¹.

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Table 1
Business Case Summaries

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Tab No.	Project Number	Business Case Summary (BCS) Title	BSC Approval Date
1101	Ttalliboi	Buomoso suco summary (Boo) Timo	Duto
		ONGOING PROJECTS FROM EB-2010-0008	
1	38457	Darlington Environment Qualification Component Replacements	Jan-08
2	40641	Pickering B Boiler Tab & Divider Plate Repair (Pickering 7 & Pickering 8)	Dec-10
3	49248	Pickering A Locking Tabs - Boiler Divider Plate (Pickering 1 & Pickering 4)	Dec-11
4	62440	Probabilistic Risk Assessment Upgrade	Apr-12
5	62444	Fuel Channel Life Management	Oct-12
		COMPLETED PROJECTS FROM EB-2010-0008	
6	38458	Darlington Environment Qualification Discovery Work and Scope Reduction	Apr-10
7	38935	Darlington Boiler Primary Side Cleaning (follow-up to 38296)	Jun-08
8	40645	Pickering B Steam Generator Water Lancing	May-07
		PROJECTS NOT IN EB-2010-0008	
9	38933	Darlington Primary Heat Transport Liquid Relief Valve Modifications To	Jul-11
		Prevent Waterhammer	
10	62449	Severe Accident Management Guidelines Implementation Improvements	Jul-12
11	80014	Fuel Channel Life Extension Project	Nov-13

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¹ OPG has requested confidential treatment of certain business case summaries under the OEB's Practice Direction for Confidential Information.