

1 **NUCLEAR BASE AND DNNP OPERATIONAL READINESS**
2 **OM&A COSTS**

3
4 **1.0 PURPOSE**

5 This evidence presents Base OM&A expenses for OPG’s nuclear facilities and the Darlington
6 New Nuclear Program (“DNNP”) facilities, and DNNP Operational Readiness OM&A costs for
7 the historical period, bridge year, and IR term.

8
9 **2.0 OVERVIEW**

10 ***OPG Nuclear Facilities Base OM&A***

11 The OPG nuclear facilities Base OM&A expenses for 2020-2031 are provided in Ex. F2-2-1,
12 Table 1a. This Application seeks approval of OPG Nuclear facilities Base OM&A expenses of
13 \$840.4M in 2027, \$850.7M in 2028, \$898.4M in 2029, \$916.8M in 2030, and \$1,225.4M in
14 2031. Compared to the 2022-2026 period, Base OM&A expenses over the IR term are
15 approximately 30% lower.

16
17 The 2025-2031 Business Plan recognizes the changes in workforce needs as OPG shifts from
18 an organization that was planning for a significant downsizing to one entering a period of
19 significant investment. During the IR term, Pickering Units 5-8 will be undergoing a
20 refurbishment with Unit 5 return to service planned for May 2031. As such, the Base OM&A
21 expenses over the IR term leading up to, during, and beyond the four unit refurbishment
22 outage, represent a reduction relative to the 2025 and 2026 bridge years due to the
23 refurbishment outage after September 2026. The Base OM&A expenses remain stable for
24 most of the IR term, with an increase in costs in 2031 mainly due to the Pickering Unit 5 return
25 to service.

26
27 During the period from 2022-2024, the Company shifted from planning for Pickering shutdown
28 by the end of 2025 to enabling extended operations to September 2026 and beginning to plan
29 for refurbishing Pickering Units 5-8 thereafter. This shift required a responsive workforce plan
30 to meet these changing business needs, while anticipating an increased risk of attrition over

1 the remaining life of the station. As of 2022, Nuclear Operations OM&A funded Full-Time
2 Equivalent (‘‘FTEs’’) were beginning to attrite to levels lower than those planned in EB-2020-
3 0290, particular in the PWU-represented Term Employee¹ categories, which if left
4 unaddressed, would have led to inadequate staffing levels to meet operational needs. With the
5 implementation of responsive workforce strategies, by 2023, FTE levels aligned more closely
6 to the original planned resourcing requirements identified in EB-2020-0290. By 2024, FTEs
7 had increased to levels necessary for the extension of Pickering operations to 2026, to
8 maintain site continuity through the planned Pickering refurbishment outage, and to meet
9 ongoing operational and regulatory requirements. A further discussion of OPG’s workforce
10 strategies can be found at Ex. F4-3-1, Section 5.

11
12 The Nuclear Operations OM&A funded FTE levels over the 2025 and 2026 bridge years
13 support meeting operational needs leading up to the refurbishment outage, while considering
14 anticipated attrition over the remaining life of the station. This period is followed by a forecast
15 reduction of 27.5% in FTEs in 2027 over 2025, as the resources are redeployed to support
16 refurbishment and other areas of the business (Ex. F2-1-1, Table 2a). Staffing levels are then
17 expected to remain stable through 2030 during the refurbishment outage, and then increase
18 in 2031 due to the Pickering Unit 5 return to service. As a result of the refurbishment outage,
19 OPG also expects a reduction to non-regular FTEs over the IR term as compared to the 2025
20 and 2026 bridge years.

21
22 Like other parts of the organization, OPG nuclear facilities Base OM&A expenses
23 have experienced elevated inflationary cost increases since EB-2020-0290, including
24 higher labour cost escalation reflecting bargaining process outcomes, including as a result
25 of the repeal of the *Protecting a Sustainable Public Sector for Future Generations Act,*
26 *2019* (‘‘Bill 124’’), as discussed in Ex. F4-3-1, Section 6.2.

27
28 OPG’s plan for both the station and support organizations demonstrates a continued focus on
29 workforce planning and resourcing, cost controls and work reduction or elimination through

¹ Term employee is a Classification of PWU-represented employee who could be hired instead of regular staff in circumstances where employees were likely to be laid off as a result of the planned shutdown of Pickering.

1 streamlining workflows. OPG continues to implement various fleet-wide and site-specific
2 initiatives for its nuclear business aimed at driving continuous improvement and achieving cost
3 efficiencies (Ex. F2-1-1, Section 3.4).

4
5 ***DNNP Facilities OM&A***

6 The DNNP facilities Base OM&A expenses for 2026-2031 are provided in Ex. F2-1-1, Table
7 1b. This Application seeks approval of DNNP facilities Base OM&A expenses of \$4.3M in 2027,
8 \$5.0M in 2028, \$5.3M in 2029, \$34.4M in 2030, and \$119.0M in 2031.

9
10 The requested Base OM&A funding for both Operations & Project Support organizations and
11 the station primarily reflects the planned costs for DNNP Unit 1 beginning operations in late
12 October 2030. These planned amounts reflect the anticipated staffing structure for the station
13 based on a minimum complement strategy, leveraging the BWRX-300 plant design to optimize
14 the workforce required to operate and maintain the plant. The design aspects supporting
15 DNNP's more efficient operating and maintenance costs include: passive fail-safe systems
16 with minimal control room and field actions required, plant design simplification through the
17 elimination of systems and components in comparison to traditional Boiling Water Reactors,
18 and where possible, minimizing the variability in training, procedures, and parts. The design
19 facilitates automation of operation, testing and monitoring of plant systems and components.

20
21 The planned staffing structure also reflects that staff will be trained and qualified on a wider
22 scope of tasks, leveraging broadened job classifications negotiated for PWU-represented
23 roles. The streamlined operating model also reflects the greater resourcing flexibility
24 negotiated with the union in support of maintenance outages for DNNP operations. Finally, the
25 operating model will benefit from an integrated modern suite of technology that will efficiently
26 address DNNP facilities' needs (Ex. D3-1-1).

27
28 The planned base OM&A expenses for the DNNP facilities also include allocations for
29 Operations and Project Support functional groups, aligned with OPG's cost allocation
30 methodology (Ex. F3-1-4).

1 Under OPG's cost allocation methodology, Operations & Project Support costs can be
2 attributed to the DNNP facilities in three ways, as further detailed in the Elenchus Research
3 Associates report (Ex. F3-4-1, Attachment 1):

- 4
- 5 1. Direct assignment of specific resources to the DNNP facilities;
- 6 2. Direct assignment of specific resources to the nuclear business as a whole, the costs of
7 which are in turn allocated amongst the nuclear facilities including to the DNNP facilities
8 using a cost driver; and
- 9 3. Allocation of costs across OPG's business, which are typically allocated to the individual
10 OPG operating facilities, including the DNNP facilities, using an applicable cost driver.

11 ***DNNP Operational Readiness OM&A***

12 In advance of DNNP facilities operations, resources will be leveraged to ensure readiness to
13 safely, reliably and effectively operate these first-of-a-kind units once they are online (Section
14 4.0). DNNP Operational Readiness OM&A expenses over the IR term are provided in Ex. F2-
15 1-1, Table 1b. This Application seeks OEB approval for DNNP Operational Readiness OM&A
16 expenses of \$45.9M for 2027, \$46.3M for 2028, \$40.0M for 2029, \$40.2M for 2030, and \$0.0M
17 for 2031.

18 **3.0 BASE OM&A BACKGROUND**

19 Base OM&A funds the operations and maintenance of the nuclear stations, in support of:

- 20
- 21
- 22 • the safe operation of the plants;
- 23 • the ongoing production of electricity from the operating nuclear units;
- 24 • improving the reliability of the nuclear assets; and
- 25 • ensuring compliance with applicable legislation and nuclear regulatory requirements.

1 **3.1 Base OM&A Description by Function and Resource Type**

2 The Base OM&A costs for OPG nuclear facilities and DNNP facilities over the IR term are
3 presented by Nuclear Station and Operations and Project Support in Ex. F2-2-1, Table 1a and
4 1b. The Nuclear Station and Operations and Project Support functions are described in
5 Attachment 1 to this exhibit. Exhibit F2-2-1, Table 1a breaks out the Capacity Refurbishment
6 Variance Account eligible nuclear facilities Base OM&A expenses, consisting of the Fuel
7 Channel Life Extension Project, Pickering Extended Operations, and Optimization of Pickering
8 Shutdown Enabling Costs (Ex. F2-1-1).²

9
10 Details of station Base OM&A costs by function and the allocation of Operations and Project
11 Support costs between Pickering, Darlington and DNNP facilities for 2027-2031, are provided
12 in Ex. F2-2-1, Tables 10-14. For OPG nuclear facilities, the majority of station base OM&A
13 costs during the IR term are in the Operations and Maintenance functions, reflecting the
14 significance of these core activities to ongoing station performance. As shown in Ex. F2-2-1,
15 Table 1a, within Operations and Project Support, the majority of costs are Enterprise
16 Engineering and Integrated Fleet Management, primarily for ensuring plant safety, reliability
17 and training. In 2031, the majority of DNNP facilities station Base OM&A costs are in the
18 Operations and Maintenance functions, reflecting the significance of these core activities to
19 ongoing station performance, and within Operations and Project Support the majority of costs
20 are in Enterprise Engineering and Integrated Fleet Management, primarily for ensuring plant
21 safety, reliability and training.

22
23 In addition to the operational functions described in Attachment 1, OPG nuclear facilities Base
24 OM&A also funds the following:

- 25 • The cost of staffing resources supporting the execution of planned outages, with the
26 exception of Advanced Inspection and Maintenance (formerly Inspection and Reactor
27 Innovation). The cost of Advanced Inspection and Maintenance staff involved in the
28 execution of planned outages is charged directly to outage OM&A.

² See Ex. H1-1-1 for discussion of the Capacity Refurbishment Variance Account.

- 1 • All costs for forced outages, planned derates and forced derates. Forced outages can
2 require significant effort and materials to address the cause of the outage and return a unit
3 to operation. As forced outages are unplanned events for which no budget is provided,
4 other base OM&A work must be deferred to accommodate them (see Ex. F2-4-1 for further
5 details on outage costing).
- 6 • An inventory obsolescence provision to account for potential losses from inventory that
7 may become obsolete, unsellable, or unusable in the future.

8
9 Base OM&A cost information for nuclear facilities and DNNP facilities are presented by
10 standard OPG resource types in Ex. F2-2-1, Table 2a and 2b. OPG labour (regular and non-
11 regular) is the most significant contributor to Base OM&A costs representing approximately
12 70.5% for OPG's nuclear facilities and 58.1% for DNNP facilities.

13
14 The resource types are as follows:

- 15 1. **Labour:** The salary and benefits cost of OPG full-time regular staff consisting of
16 management, Society of United Professionals and Power Workers' Union employees.
17 Base OM&A labour costs are derived using standard labour rates for job families within
18 Nuclear. In addition to base salary and statutory benefits (e.g., Employment Insurance,
19 Canada Pension Plan), these standard labour rates include a component for pension and
20 other post-employment benefits earned by employees for current service (discussed in Ex.
21 F4-3-2) as well as a component for current employee health, dental and other benefits
22 provided during employment.
- 23 2. **Non-Regular Labour:** The salary and any applicable benefits cost of OPG non-regular
24 staff consisting of Power Workers' Union Term Employee, Society of United Professionals
25 Extended Temporary Employee, and other employees hired for a fixed period of time with
26 a start and end date.
- 27 3. **Overtime:** The cost of incremental pay for work outside of core hours, for example during
28 forced outages or urgent repairs.
- 29 4. **Augmented Staff:** Costs for external personnel providing specialized expertise (e.g.,
30 engineering) to supplement internal capability and/or to fill temporary vacancies.

- 1 5. **Materials:** The costs of all consumables, replacement parts, and associated transportation
2 service costs supporting station operations (e.g., ongoing maintenance and repair work).
- 3 6. **Licence Fees:** The cost of licensing-related fees primarily paid to the Canadian Nuclear
4 Safety Commission (“CNSC”).
- 5 7. **Other Purchased Services:** The costs of specialized external services, including
6 construction and maintenance services, laundry services, and specialized technical
7 services (e.g., nuclear safety analysis, research and development, and specialized testing
8 services). A discussion of the trend in Other Purchased Services over the period 2027-
9 2031 is provided below.
- 10 8. **Other:** Costs for miscellaneous items such as variable low and intermediate level waste
11 expenses, travel, and inventory obsolescence provision.

12

13 Leading into 2024, OPG has increasingly relied on the use of Term Employees and other non-
14 regular labour for Base OM&A work, within collective agreement provisions, to effectively
15 manage staffing resources required in contemplation of the then planned Pickering shutdown.
16 In 2024, OPG made a decision to hire a number of Term Employees to regular positions within
17 operations and maintenance in the face of increased attrition and a tightening labour market
18 supply for these skillsets (Ex. F4-3-1, Section 5.1.1). Over the IR term, use of non-regular staff
19 is planned to further decrease as the Company redeploys resources from the Darlington
20 Refurbishment Program and Pickering to support its base work programs over this period. A
21 breakout of total FTEs for OPG nuclear facilities and DNNP facilities is provided in Ex. F2-1-1,
22 Table 2a and 2b, respectively, which separately identifies FTEs funded by OM&A, capital,
23 refurbishment, nuclear non energy direct and provision.³

24

25 Incremental short-term labour resources, including overtime, non-regular labour, augmented
26 staff and Other Purchased Services, are used as appropriate to operate the nuclear facilities
27 safely, reliably and efficiently. Three primary factors have traditionally driven the use of
28 incremental short-term labour resources in Nuclear: 1) to meet peak work requirements, 2) to
29 maintain coverage for key staff positions in accordance with licensing requirements, and 3) to
30 complete priority work impacted by short term or staff shortages due to factors such as

³ “Provision” refers to OPG’s accrued liabilities for nuclear decommissioning and waste management (Ex. C2-1-1).

1 temporary vacancies, permissible leaves, and vacations. The selection of incremental labour
2 resource type to employ is an ongoing resource optimization and balancing process and
3 depends on the specific circumstances driving the need for incremental resources. For
4 example, OPG uses Base OM&A overtime to maintain coverage of key positions (e.g.,
5 authorized nuclear operators) and provide backup for these staff if absent, to maintain
6 minimum staff complement on each shift.

7
8 For OPG nuclear facilities Base OM&A, the need for short term resources, including Other
9 Purchased Services, remains stable from 2027-2030 before increasing (Ex. F2-2-1, Table 2a)
10 with the return of Pickering Unit 5 to service in 2031. For DNNP facilities base OM&A,
11 incremental short-term labour resources costs are immaterial over the IR term, with Unit 1
12 commercial in service planned in October 2030 (Ex. F2-2-1, Table 2b).

13 14 **3.2 Major Objectives and Focus Areas**

15 The 2025-2031 Business Plan identifies specific objectives, focus areas and planned costs to
16 drive productivity and efficiency. These initiatives are expected to position Darlington's Total
17 Generating Cost within second quartile of industry performance toward the end of the Business
18 Plan period, while maintaining continued safe and reliable operations (Ex. F2-1-1).

19
20 In order to meet planned OM&A costs, fleet-wide initiatives have been implemented for the
21 Nuclear business, as discussed in Ex. F2-1-1, Section 3.4.2.1. These initiatives are designed
22 to help achieve the 2025-2031 Business Plan targets (Ex. F2-1-1, Section 3.3), and over the
23 IR term, will be executed by Base OM&A resources (for Darlington) and both Base OM&A and
24 Pickering Cyclical Maintenance OM&A resources (for Pickering), who will carry out ongoing
25 inspection, maintenance and regulatory compliance activities, and ensure operational
26 readiness for return to service at Pickering.⁴

⁴ Engineering, maintenance, security, and nuclear operators.

1 **3.3 Ongoing Station Support and Compliance Activities During Pickering**
2 **Refurbishment**

3 Separate from the workforce requirements for the Pickering Refurbishment, there is ongoing
4 work necessary to maintain Pickering Units 5-8 and the associated infrastructure during the
5 four unit refurbishment outage, while ensuring compliance with Licence requirements and
6 readiness to return the unit to service. The Licence incorporates a comprehensive review of
7 station operations and includes compliance requirements with regulatory standards, such as
8 protecting the health and safety of the public and the environment, maintaining national
9 security and adhering to international obligations. The Licence conditions continue to apply to
10 Pickering throughout the entire refurbishment outage. These conditions require OPG to
11 maintain applicable resources across a range of key support functions across the following
12 areas: Enterprise Engineering, Integrated Fleet Management, Environment, Health & Safety,
13 and Other Support. Base OM&A funding for such work over the IR term is inclusive of the
14 following:

- 15
- 16 • **Enterprise Engineering:** The equipment and systems at the station, whether in active
17 refurbishment or awaiting refurbishment, will require monitoring, oversight and
18 troubleshooting along with ongoing execution of aging management programs. Such
19 systems on all four units will cover areas such as nuclear and conventional safety functions,
20 security, water supply systems, radiation protection, electrical supplies including battery
21 banks, will remain in-service during the refurbishment outage.

22

23 Within the Licence, there are CNSC regulations and other requirements, including the
24 Ontario Building Code, Ontario Fire Code, *Environmental Protection Act*, American Society
25 of Mechanical Engineers Pressure Boundary Code (“ASME”) and many standards within
26 the Canadian Standards Association framework, that must continue to be adhered to
27 during the refurbishment outage. For example, the ASME code requires that safety relief
28 valves for systems and components installed to prevent over pressure events continue to
29 be replaced and tested on a routine basis to ensure high quality protection, which requires
30 engineering oversight.

31

1 The work required to meet regulations set out in the Licence and to support upkeep of the
2 equipment requires both Station and Central engineering support.

3
4 For example, most digital control computer and control systems, chemistry technical
5 support systems, periodic inspection programs, environmental qualification and pressure
6 boundary programs will remain active when the units are de-fueled and de-watered,
7 thereby requiring proper testing and maintenance for safety and regulatory compliance.
8 Nuclear operational safety requirements include maintaining and developing codes and
9 tools for Irradiated Fuel Bay stored fuel, implementing modifications and fuel management
10 studies to support fresh core operation, and ongoing compliance activities with the CNSC.
11 Other activities include fish diversion system maintenance and wildlife count reporting, and
12 groundwater contamination testing.

13
14 Furthermore, OPG will also continue membership in Conexus (formerly CANDU Owners
15 Group) with respect to Pickering. Maintaining Conexus membership throughout the
16 refurbishment outage period benefits OPG and supports “second life” operations by
17 maintaining OPG’s involvement in research and development areas of focus.

- 18
19 • **Integrated Fleet Management:** This organization carries out a number of central functions
20 including security, fleet maintenance, fleet operations including human performance and
21 stakeholder relations. These functions are integral to meeting ongoing site requirements
22 during the refurbishment outage.

23
24 Site security programs must continue, including the emergency preparedness program,
25 patrols of the protected area, performance monitoring, reporting requirements to the
26 CNSC, fire protection, and administration of material safety and other permits.

27
28 Fleet maintenance is required to support systems such as service water, instrument and
29 service air and heating, ventilation and air conditioning, which must be performed in
30 accordance with OPG maintenance program governance and federal and provincial

1 requirements. Fleet maintenance also supports on going programs such as hoisting and
2 rigging, foreign material exclusion, equipment calibration and control.

3
4 Fleet operations provides program governance and oversight for the maintenance program
5 and is the primary interface to external agencies including the World Association of Nuclear
6 Operators (“WANO”) and the CNSC. This also includes ownership, oversight and support
7 of the corporate work protection program which is required to ensure compliance with
8 OHSa and other corporate requirements.

9
10 Furthermore, OPG will also continue membership in WANO with respect to Pickering.
11 Maintaining WANO membership is fundamental to OPG’s role as a nuclear fleet operator
12 focused on ensuring excellence in operational nuclear safety.

- 13
14 • **Other Support:** The Licence and CSA Standard N286-12 require independent
15 assessments of all 46 programs applicable to OPG Nuclear Management System. The
16 nuclear oversight function will continue to complete audits and assessments on these
17 programs to assess all activities affecting Pickering. These audits and assessments will
18 continue to identify opportunities for improvement supporting safe, reliable maintenance of
19 the facility. The nuclear regulatory affairs function will continue to interface with the CNSC
20 in relation to the ongoing Licence requirements independent of the PRP.

21 22 **3.4 OPG Nuclear Facilities Base OM&A Trends**

23 The decrease in IR term Base OM&A expenses compared to the previous five-year period
24 reflects the transition of Pickering Units 5-8 to refurbishment, with all four units planned to
25 come offline in September 2026. It also reflects the permanent shutdown of Pickering Units 1
26 and 4 in the fourth quarter of 2024. The planned return to service of Unit 5 in May 2031 results
27 in a restoration of substantial Base OM&A funding for part of that year. This funding reflects
28 the substantial fixed costs involved in operating any one unit at the station. In line with these
29 factors, Pickering’s Base OM&A expenses decrease from an average of approximately \$420M
30 over the 2022-2026 period to an average of under \$20M over the 2027-2030 period before

1 partially restoring to over \$250M in 2031. These figures are inclusive of labour and other cost
2 escalation impacts over time.

3
4 Darlington's Base OM&A expenses are forecasted to have a generally stable trend, reflecting
5 ongoing station operations with the last unit, Unit 4, expect to return from refurbishment by
6 April 2026. Excluding the impact of higher materials requirements beginning in 2027,
7 associated with the return to four-unit operations, Darlington's Base OM&A expenses are
8 forecast to increase by approximately 2.75% per year over the 2024-2031 period reflecting
9 labour and other cost escalation. Planned Darlington Base OM&A expenses average just over
10 \$425M over the IR term.

11
12 Planned Base OM&A expenses for Operations & Project Support groups average
13 approximately \$440M per year over the 2027-2030 period, compared to \$550M during the
14 2022-2026 period. This approximately 20% decrease reflects the transition of Pickering Units
15 5-8 to refurbishment. Similar to the Pickering station Base OM&A expenses, the costs are
16 forecast to restore to approximately \$520M in 2031. The figures above are inclusive of labour
17 and other cost escalation impacts.

18
19 An explanation of period-over-period variances in base OM&A is provided in Ex. F2-2-2.

20 21 **3.5 DNNP Facilities Base OM&A Trends**

22 DNNP facilities Base OM&A costs are forecasted to be generally stable leading up to the
23 commercial in-service date of October 2030, with modest amounts of costs attributed from
24 Operations and Project Support Functional groups under OPG's cost allocation methodology
25 during this period. Costs then increase as the first unit that goes into service in October 2030
26 and then has its first full year of operation in 2031.

27
28 An explanation of period-over-period variances in Base OM&A is provided in Ex. F2-2-2.

1 **4.0 DNNP OPERATIONAL READINESS BACKGROUND**

2 DNNP Operational Readiness includes activities required for ensuring readiness to safely,
3 reliably and effectively operate Unit 1 once commercially in-service. These activities will cover
4 comprehensive planning efforts such as developing operational processes and procedures,
5 establishing work management functions for scheduling routine and outage maintenance,
6 planning for emergency management and fire protection, implementing plant maintenance
7 protocols, implementing comprehensive employee training programs tailored to the operation
8 and maintenance requirements of the units, creating a specialized workforce with technology-
9 specific expertise, defining oversight systems and establishing operational targets.

10
11 DNNP Operational Readiness also includes the training of the staff who will operate Unit 1
12 once it is commercially in-service, with the initial hiring cohort planned to occur in late 2026.
13 Once staff completes training, they will support Operational Readiness activities and/or
14 transition to commissioning as required by the DNNP project schedule. Commissioning is a
15 DNNP capital funded workstream. Additional cohorts will be hired closer to Unit 1 commercial
16 in-service to ensure that the planning and commissioning needs of the unit are met.

17
18 **4.1 Operational Readiness OM&A Trends**

19 DNNP Operational Readiness OM&A is forecasted to increase year-over-year by 59.5% in
20 2027, 0.9% in 2028, decrease by 13.7% in 2029, increase by 0.7% in 2030, and decrease
21 100.0% in 2031. Costs over the IR term vary as OPG prepares operational readiness for Unit
22 1 of the DNNP. The increase in 2027 compared to 2025-2026 is driven by the hiring and
23 training of future operational staff and support required to plan the operations and management
24 of the first unit. The decrease in 2029 is driven by staff transitioning from supporting operational
25 readiness to commissioning. The decrease in 2031 is driven by Unit 1 becoming operational
26 in October 2030.

- 1
- 2
- 3 **LIST OF ATTACHMENTS**
Attachment 1: Nuclear Operations Function Descriptions

ATTACHMENT 1 - NUCLEAR OPERATIONS FUNCTION DESCRIPTIONS

Since the OEB's Decision and Order in EB-2020-0290, there have been several changes to the structure of Nuclear operations.¹ For purpose of presentation of Base OM&A costs in Ex. F2-1-1, Table 1a and 1b and Ex. F2-2-1, Tables 3 to 14, Nuclear Operations functions has been segmented into Nuclear Stations, and Operations and Project Support, with the above changes applied to actuals and restated OEB-approved as if effective in 2020, unless otherwise noted below.

The following provides details on the operational functions within Nuclear Stations and Operations and Project Support.

1.0 OPERATIONAL FUNCTIONS WITHIN THE GENERATING STATIONS

At each of the generating stations (Darlington, Pickering and, as applicable in the future, DNNP facilities), operational functions are broken down into three main components: Operations and Maintenance, Work Management, and Site and Support Services, as described below. Darlington also operates the Tritium Removal Facility ("TRF").

- Operations and Maintenance is comprised of:
 - Operations, which operates the plant on a 24-hour basis. The CNSC approves the operations organizational structure, including mandating a minimum shift complement to address foreseeable emergency response requirements.
 - Maintenance, which performs:
 - Maintenance activities, which includes all activities directly related to the preventive, elective, and corrective maintenance of structures, systems, or components to address material condition issues, maintain equipment reliability, and optimize equipment life, and,

¹ These changes are summarized in Ex. A1-3-1, Attachment 1, along with the normalization of historic Nuclear OM&A categories.

- 1 • Fuel Handling, which includes all activities in support of refuelling the reactor
2 during unit operation; maintenance of the fuelling machines and related
3 systems; support of outage activities requiring the fuelling machine or
4 related systems; and management of new fuel storage.
- 5 • Work Management includes:
- 6 ○ Work Control, which ensures that corrective, elective, and preventive maintenance is
7 planned effectively and efficiently.
- 8 ○ Outage Planning, which develops specific milestones for scope definition, long lead
9 materials, schedule development, and pre-requisite work.
- 10
- 11 • Site and Support Services includes:
- 12 ○ Chemistry, which includes the operation of the chemistry lab and assistance in
13 managing plant chemistry.
- 14 ○ Common Services (Pickering), which operates and maintains station and site support
15 systems for the Pickering station, specifically management of heavy water and
16 operation of facilities such as heavy water upgraders, station containment systems and
17 radioactive waste management.
- 18 ○ Site Vice President's office.
- 19 ○ Interface with World Association of Nuclear Operators ("WANO") and other external
20 parties.
- 21 ○ Radiation Safety, which is accountable for radiation protection programming and
22 services including assistance with radiation protection during plant operation and
23 maintenance activities, and administration of the program for keeping radiation As Low
24 As Reasonably Achievable ("ALARA").
- 25 ○ Performance Improvement, which has oversight of Nuclear's corrective action program,
26 nuclear safety culture, and a self-assessment program that conducts research and
27 collects information to resolve a performance gap or to identify opportunities to
28 achieved industry excellence in specific program areas.

1 • Tritium Removal Facility

- 2 ○ Located at Darlington, the TRF provides tritium removal services to all OPG nuclear
3 stations and third party customers (see Ex. G2-1-1).

4
5 **2.0 OPERATIONAL FUNCTIONS WITHIN OPERATIONS AND PROJECT SUPPORT**

6 Operations and Project Support is accountable for providing specialized services to the
7 stations, as well as establishing the common procedural framework within which the stations
8 operate.

9
10 For the purpose of presentation of Base OM&A in Ex. F2-2-1, Tables 1a and 1b and Ex. F2-2-
11 1, Tables 3 to 14, Operations and Project Support has been segmented into the functional
12 groups shown below. The following are the key functions within each group:

13
14 Enterprise Engineering is accountable for the following:

- 15 ○ Components Engineering provides specialized technical support for nuclear station
16 components and equipment, major nuclear plant equipment (including life cycle plans
17 for steam generators and fuel channels), engineering programs, selected systems
18 (such as real-time process computers and security), chemistry, human factors
19 engineering, plant information systems, and administration of the nuclear research and
20 development program. This is a central function.
- 21 ○ Design Engineering provides design services such as, preparation of modifications;
22 parts procurement support; and expert-level support on nuclear industry codes and
23 standards for the nuclear stations and Nuclear Sustainability Services. This is a design
24 function.
- 25 ○ Engineering Strategy provides strategic support to Enterprise Engineering long range
26 planning, develops international relationships and provides strategic advice on matters
27 relating to reactor technology, represents OPG Nuclear with international nuclear
28 industry bodies and oversees Nuclear Projects executed by Enterprise Engineering.
29 Engineering Strategy also oversees the strategy for data-driven decision making in all
30 areas of Enterprise Operations, through a dedicated Data Analytics team (formerly part

1 of the Generation Strategy & Innovation group) provides insights into operations areas
2 through the application of analytics on a broad range of available data, manage data
3 governance, collaborate on architecture development, and will include the operation of
4 the Monitoring & Diagnostics Centre. This is a central function.

5 ○ Nuclear Safety provides oversight of technical support provided to the stations by the
6 Reactor Safety Engineering Departments, and specialized services in the areas of
7 Fuel, Nuclear Safety Analysis and Probabilistic Risk Assessment. This is a central
8 function.

9 ○ Station Engineering is responsible for specifying engineering requirements,
10 concurrence to schedule and acceptance of engineering products and services
11 provided to support safe operation of the plant. It also ensures the Safety Operating
12 Envelope and the Design and Licensing Basis for the plant are maintained by
13 exercising prescriptive authority for the definition of operating and outage scope of work
14 associated with these basis documents. This is a station function.

15 ○ Advanced Inspection and Maintenance (formerly Inspection and Reactor Innovation)
16 (“AIM”) is accountable for providing inspection and maintenance services to
17 supplement those carried out by station staff, where the nature of the skills or
18 equipment required makes the work more effectively managed as a centralized
19 function. The direct costs associated with the provision of inspection and maintenance
20 services during outages are included in outage OM&A costs (Ex. F2-4-1). AIM indirect
21 costs such as administration are included in base OM&A as are the provision of
22 inspection and maintenance services during normal (i.e. non-outage) operation.
23 Machine dynamics and performance testing services. This is a central function.

24
25 Integrated Fleet Management has three main functions:

26 ○ Generation Strategy & Innovation, which drives improvement across the Nuclear fleet
27 by developing, implementing and monitoring nuclear-wide programs and procedures
28 for the nuclear stations in the areas of Operations, Maintenance, Performance
29 Improvement Support and Human Performance. It is also responsible for nuclear fleet-
30 wide asset management and generation planning, to ensure a strategic and

1 streamlined approach to determining future investments considering cost, risk and
2 performance. Enterprise Innovation is also part of this organization, developing and
3 implementing value-based fleet initiatives and improvements.

- 4 ○ Security services for nuclear sites and facilities (and across OPG) and ensures
5 compliance with all CNSC security requirements. Emergency Preparedness and Fire
6 Protection services are also included within this division.
- 7 ○ Nuclear Training has the role of training personnel to safely operate, maintain and
8 improve performance of the Pickering and Darlington nuclear stations. The most
9 effective way to ensure public safety and a reliable source of electricity to the grid for
10 public safety and national security, is to ensure that the personnel that operate,
11 maintain and engineer these commercial nuclear power plants have been trained,
12 evaluated and qualified to consistently high standards. The group is responsible for all
13 Training Analysis, Design, Development, Implementation and Evaluation activities
14 associated with Nuclear Training that leads to working rights (qualifications). It is also
15 responsible for all Nuclear Plant Access Training (regular and contractor staff) and the
16 Training Information Management System for all of the OPG Nuclear Fleet.

17
18 Environment and Health & Safety (formerly in Support Services) (“EHS”) is accountable for the
19 following:

- 20 ○ The Environment, Health & Safety (“EHS”) organization develops and maintains EHS
21 managed systems, programs and initiatives that support all employees in the company.
22 The group provides expertise and operational support to OPG operations, facilities,
23 projects and functions to meet EHS compliance obligations. It acts to minimize EHS
24 risks and impacts, and advises on management of environmental issues, health and
25 safety hazards, and prevention of workplace injuries in support of a strong safety
26 culture. The group reports on OPG’s environmental and health & safety performance,
27 and performance and seeks opportunities for EHS to promote leadership and
28 innovation. Finally, it provides assessment and specialist support in the areas of
29 aquatic and terrestrial biology, contaminated land and groundwater, radiological
30 management, air and water emissions, waste and spills management, safe work

1 planning, permits and approvals, impact assessments, regulations, licenses, orders to
2 comply, climate change related impacts and legislative monitoring.

3
4 Enterprise Projects includes Nuclear Projects as well as the Enterprise Project Management
5 Office and Commercial Management & Project Assurance.

- 6 • Nuclear Projects, which is responsible for the planning, developing and execution of all
7 nuclear projects (other than the Darlington Refurbishment Program).
- 8 • Enterprise Project Management Office, which is responsible for oversight of the processes,
9 tools and project expertise necessary to deliver successful projects; serves as a source for
10 best practices, training programs and an organizational focus for improving project
11 performance across all portfolios.
- 12 • Commercial Management & Project Assurance, which is responsible for commercial
13 relationships to support effective management of contracts during the post award,
14 execution and close out phases, including Nuclear Extended Services Master Services
15 Agreements and Engineering contracts.

16
17 Project work (in contrast to base OM&A work) is discussed in Ex. D2-1-1. While the Projects
18 function is primarily funded by project OM&A and capital (Ex. F2-3-1 and Ex. D2-1-1,
19 respectively), a limited amount of operational support to the stations is funded by base OM&A.

20
21 Other Support is an aggregate of a number of smaller functions including centralized or fleet-
22 wide costs for services required to manage the Nuclear business that are not directly
23 attributable to any one plant or support organization.

- 24 ○ Nuclear Oversight accountable for independent internal audits to evaluate compliance
25 with regulatory, provincial and federal requirements and performance to industry
26 standards of excellence and examinations of plant functional areas or various plant
27 activities to evaluate the effectiveness of work practices and/or management controls.
- 28 ○ Nuclear Regulatory Affairs and Stakeholder Relations accountable for obtaining
29 required CNSC approvals in a timely manner, ensuring that OPG complies with its

- 1 licenses, regulatory requirements and commitments, and managing regulatory issues
2 while maintaining good working relations with the CNSC.
- 3 ○ Renewable Generation Operations functions providing support for the Nuclear fleet,
4 such as Energy Markets, with costs shown in Nuclear base OM&A actuals and plan.
 - 5 ○ Costs include executive officers, inventory adjustments and, as applicable, Hydro One
6 share awards expenses. Costs also include the limited amount of base OM&A in
7 Nuclear Sustainability Services.
- 8
- 9 Low and Intermediate Level Waste includes low and intermediate level waste storage and
10 disposal variable expenses for the Nuclear stations (Ex. C2-1-1).

Numbers may not add due to rounding.

Table 1a
 Base OM&A - OPG Nuclear Facilities (\$M)

Line No.	Function	2020 Actual	2021 Actual	2022 Actual	2023 Actual	2024 Actual	2025 Budget	2026 Budget	2027 Plan	2028 Plan	2029 Plan	2030 Plan	2031 Plan
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
	OPG Nuclear Facilities¹												
1	Darlington NGS	324.5	334.9	337.6	340.3	361.4	371.9	373.3	409.0	405.9	432.3	437.4	447.6
2	Pickering NGS	459.4	460.3	450.0	521.3	468.8	370.8	305.7	8.1	15.5	22.3	24.6	255.6
3	Total OPG Nuclear Facilities	783.9	795.2	787.7	861.6	830.2	742.7	679.0	417.1	421.4	454.5	462.1	703.3
	Operations and Project Support^{1,2}												
4	Enterprise Engineering	217.2	209.3	215.7	242.5	253.0	239.4	217.8	164.0	164.8	173.9	177.0	217.6
5	Integrated Fleet Management	188.2	178.9	173.6	188.5	221.9	203.3	200.3	165.8	169.5	176.1	183.1	205.2
6	Environment, Health & Safety	18.0	21.9	16.0	13.9	13.5	11.8	14.3	14.0	14.3	13.7	14.6	15.6
7	Enterprise Projects	15.5	16.9	17.7	16.1	16.4	13.2	9.5	6.4	6.9	6.5	6.4	7.0
8	Other Support	68.7	72.1	67.4	81.5	84.1	82.9	79.6	69.5	70.3	71.2	70.9	72.7
9	Low and Intermediate Level Waste	6.9	6.7	16.3	12.3	11.5	9.2	9.7	3.6	3.4	2.6	2.7	4.1
10	Total Operations and Project Support	514.4	505.8	506.6	554.8	600.4	559.8	531.2	423.3	429.2	443.9	454.7	522.2
	CRVA Eligible Costs												
11	Fuel Channel Life Extension Project	7.8	8.7	9.7	1.1	(0.1)	0.4	0.0	0.0	0.0	0.0	0.0	0.0
12	Pickering Extended Operations	7.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	Optimization of Pickering Shutdown	0.5	0.9	1.7	1.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	Total CRVA Eligible Costs	15.6	15.0	11.4	2.5	2.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
15	Total Base OM&A	1,313.9	1,316.0	1,305.7	1,418.9	1,433.5	1,303.0	1,210.2	840.4	850.7	898.4	916.8	1,225.4

Notes:

- The figures presented here for 2020 Actuals have been restated for Nuclear organizational changes and transfers from Corporate Support ((See Ex. A1-4-1 Attachment 2 and Ex. F2-2-1, Attachment 1).
- Operations and Project Support has been allocated between Darlington NGS and Pickering NGS:

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Darlington NGS	235.4	241.7	229.9	241.2	278.9	287.3	282.6	299.2	303.9	312.8	313.4	318.1
Pickering NGS	279.0	264.0	276.7	313.6	321.5	272.6	248.6	124.1	125.3	131.1	141.3	204.0

Numbers may not add due to rounding.

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 Table 1b

Table 1b
Base OM&A - DNNP Facilities (\$M)

Line No.	Function	2026 Budget	2027 Plan	2028 Plan	2029 Plan	2030 Plan	2031 Plan
		(a)	(b)	(c)	(d)	(e)	(f)
	DNNP Facilities						
1	DNNP Facilities	0.0	0.0	0.0	0.0	18.2	66.1
2	Total DNNP Facilities	0.0	0.0	0.0	0.0	18.2	66.1
	Operations and Project Support						
3	Enterprise Engineering	0.4	0.5	0.5	0.6	5.0	16.6
4	Integrated Fleet Management	0.1	0.1	0.1	0.2	4.7	25.2
5	Environment, Health & Safety	0.5	0.7	0.8	0.9	1.0	0.9
6	Enterprise Projects	1.3	1.1	1.3	1.5	1.6	1.4
7	Other Support	1.6	2.0	2.2	2.3	3.8	8.8
8	Low and Intermediate Level Waste	0.0	0.0	0.0	0.0	0.0	0.0
9	Total Operations and Project Support	3.9	4.3	5.0	5.3	16.1	52.9
10	Total Base OM&A	3.9	4.3	5.0	5.3	34.4	119.0

Numbers may not add due to rounding.

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 Table 2

Table 2a
 Base OM&A - OPG Nuclear Facilities (\$M)¹

Line No.	Resource Type	2020 Actual	2021 Actual	2022 Actual	2023 Actual	2024 Actual	2025 Budget	2026 Budget	2027 Plan	2028 Plan	2029 Plan	2030 Plan	2031 Plan	IR Term Percentage ²
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
1	Labour	791.1	756.9	708.8	785.3	834.6	847.6	805.3	570.0	587.9	628.9	638.9	860.1	69.4%
2	Non-Regular Labour³	126.1	140.5	153.0	175.9	135.9	48.4	44.5	10.1	9.3	9.8	9.9	10.4	1.0%
3	Overtime	70.4	70.4	79.1	84.3	89.6	72.8	54.5	36.4	37.9	39.0	40.5	61.6	4.6%
4	Augmented Staff	13.5	13.2	9.8	9.2	8.2	2.6	0.6	1.5	1.3	1.3	1.3	1.3	0.1%
5	Materials	105.6	101.5	106.4	110.2	114.5	90.9	82.7	53.9	52.4	55.0	56.6	85.9	6.4%
6	License Fees	31.6	34.4	33.4	37.1	40.7	38.0	35.7	23.7	24.1	24.6	25.1	30.9	2.7%
7	Other Purchased Services	130.2	151.1	159.6	143.4	164.9	166.6	154.9	117.7	110.6	111.5	115.1	146.3	12.7%
8	Other⁴	45.3	47.9	55.7	73.4	45.0	36.1	31.9	27.1	27.1	28.4	29.4	28.8	3.0%
9	Total Base OM&A	1,313.9	1,316.0	1,305.7	1,418.9	1,433.5	1,303.0	1,210.2	840.4	850.7	898.4	916.8	1,225.4	100.0%

Notes:

- 1 The figures presented here for 2020 Actuals have been restated for Nuclear organizational changes and transfers from Corporate Support ((See Ex. A1-4-1 Attachment 2 and Ex. F2-2-1, Attachment 1).
- 2 IR Term Percentage = Sum of IR Term Resource Costs divided by Sum of IR Term Base OM&A.
- 3 Non-Regular labour includes costs for term and temporary staff.
- 4 Other costs include Low & Intermediate Level Waste expenses as per Ex. F2-2-1, Table 1a, line 9.

Numbers may not add due to rounding.

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 Table 2

Table 2b
Base OM&A - DNNP Facilities (\$M)

Line No.	Resource Type	2026 Budget	2027 Plan	2028 Plan	2029 Plan	2030 Plan	2031 Plan	IR Term Percentage ¹
		(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	Labour	3.2	3.8	4.3	4.6	17.0	67.6	57.9%
2	Non-Regular Labour²	0.0	0.0	0.0	0.0	0.1	0.2	0.2%
3	Overtime	0.0	0.0	0.0	0.0	0.3	1.3	1.0%
4	Augmented Staff	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
5	Materials	0.1	0.0	0.1	0.1	2.7	9.4	7.3%
6	License Fees	0.0	0.0	0.0	0.0	0.6	4.0	2.7%
7	Other Purchased Services	0.5	0.3	0.4	0.5	11.8	30.1	25.7%
8	Other	0.1	0.1	0.1	0.2	1.8	6.4	5.2%
9	Total Base OM&A	3.9	4.3	5.0	5.3	34.4	119.0	100.0%

Notes:

- 1 IR Term Percentage = Sum of IR Term
- 2 Non-Regular labour includes costs for term and temporary staff.

Numbers may not add due to rounding.

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Exhibit F2

Tab 2

Schedule 1

Table 3

Table 3
 Combined Nuclear Base OM&A by Function (\$M)
Actual - Calendar Year Ending December 31, 2020

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations¹				
1	Operations & Maintenance	268.1	377.4	645.5	0.0
2	- Operations	90.6	124.2	214.8	
3	- Maintenance	177.5	253.2	430.7	
4	Work Management	15.4	18.6	34.1	
5	Site and Support Services	29.6	63.3	93.0	
6	Tritium Removal Facility	11.4		11.4	
7	Total Nuclear Stations	324.5	459.4	783.9	0.0
8	Operations and Project Support¹	235.4	279.0	514.4	0.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project	4.3	3.5	7.8	
10	Pickering Extended Operations		7.2	7.2	
11	Optimization of Pickering Shutdown		0.5	0.5	
12	Total CRVA Eligible Costs	4.3	11.3	15.6	0.0
13	Total Base OM&A	564.2	749.7	1,313.9	0.0

Notes:

- The figures presented here are 2020 Actuals that have been restated for Nuclear organizational changes and transfers from Corporate Support (See Ex. A1-4-1 Att. 2 and Ex. F2-2-1, Att. 1).

Numbers may not add due to rounding.

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Tab 2

Schedule 1

Table 3a

Table 3a
Combined Nuclear Base OM&A by Function (\$M)
OEB Approved¹ - Calendar Year Ending December 31, 2020

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations¹				
1	Operations & Maintenance	269.9	397.9	667.8	0.0
2	- Operations	95.9	130.8	226.8	
3	- Maintenance	174.0	267.1	441.0	
4	Work Management	18.8	21.2	40.0	
5	Site and Support Services	33.5	71.0	104.5	
6	Tritium Removal Facility	12.2		12.2	
7	Total Nuclear Stations	334.4	490.1	824.5	0.0
8	Operations and Project Support¹	218.4	307.9	526.3	0.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project	2.4	3.6	6.0	
10	Pickering Extended Operations		0.0		
11	Optimization of Pickering Shutdown		0.0		
12	Total CRVA Eligible Costs	2.4	3.6	6.0	0.0
13	Total Base OM&A	555.2	801.6	1,356.8	0.0

Notes:

- 1 The figures presented here are 2020 Plan (from EB-2016-0152, Ex. F2-2-1, Table 7) that have been restated for Nuclear organizational changes and transfers from Corporate Support (See Ex. A1-4-1 Att.2 and Ex. F2-2-1, Att.1).

Numbers may not add due to rounding.

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Tab 2

Schedule 1

Table 4

Table 4
 Combined Nuclear Base OM&A by Function (\$M)
Actual - Calendar Year Ending December 31, 2021

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations¹				
1	Operations & Maintenance	270.1	370.1	640.2	0.0
2	- Operations	90.3	118.6	208.9	
3	- Maintenance	179.8	251.5	431.3	
4	Work Management	17.8	17.2	35.0	
5	Site and Support Services	32.6	73.0	105.6	
6	Tritium Removal Facility	14.4		14.4	
7	Total Nuclear Stations	334.9	460.3	795.2	0.0
8	Operations and Project Support¹	241.7	264.0	505.8	0.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project	3.5	5.2	8.7	
10	Pickering Extended Operations		5.4	5.4	
11	Optimization of Pickering Shutdown		0.9	0.9	
12	Total CRVA Eligible Costs	3.5	11.5	15.0	0.0
13	Total Base OM&A	580.1	735.9	1,316.0	0.0

Notes:

- 1 The figures presented here are 2021 Actuals that have been restated for Nuclear organizational changes and transfers from Corporate Support (See Ex. A1-4-1 Att.2 and Ex. F2-2-1, Att.1).

Numbers may not add due to rounding.

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Tab 2

Schedule 1

Table 4a

Table 4a
 Combined Nuclear Base OM&A by Function (\$M)
OEB Approved¹ - Calendar Year Ending December 31, 2021

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations¹				
1	Operations & Maintenance	269.7	400.4	670.1	0.0
2	- Operations	95.1	127.3	222.5	
3	- Maintenance	174.6	273.0	447.6	
4	Work Management	14.6	23.2	37.8	
5	Site and Support Services	35.5	72.2	107.6	
6	Tritium Removal Facility	12.5		12.5	
7	Total Nuclear Stations	332.3	495.8	828.0	0.0
8	Operations and Project Support¹	220.7	314.8	535.4	0.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project	2.4	3.6	6.0	
10	Pickering Extended Operations		0.0		
11	Optimization of Pickering Shutdown		0.0		
12	Total CRVA Eligible Costs	2.4	3.6	6.0	0.0
13	Total Base OM&A	555.3	814.1	1,369.5	0.0

Notes:

- 1 The figures presented here are 2021 Plan (from EB-2016-0152, Ex. F2-2-1, Table 8) that have been restated for Nuclear organizational changes and transfers from Corporate Support (See Ex. A1-4-1, Att.2 and Ex. F2-2-1, Att. 1).

Numbers may not add due to rounding.

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Exhibit F2

Tab 2

Schedule 1

Table 5

Table 5
 Combined Nuclear Base OM&A by Function (\$M)
Actual - Calendar Year Ending December 31, 2022

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations¹				
1	Operations & Maintenance	267.1	365.0	632.1	0.0
2	- Operations	87.5	114.6	202.1	
3	- Maintenance	179.6	250.4	430.0	
4	Work Management	24.4	16.4	40.8	
5	Site and Support Services	34.8	68.6	103.4	
6	Tritium Removal Facility	11.4		11.4	
7	Total Nuclear Stations	337.6	450.0	787.7	0.0
8	Operations and Project Support¹	229.9	276.7	506.6	0.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project	3.9	5.8	9.7	
10	Pickering Extended Operations		0.0	0.0	
11	Optimization of Pickering Shutdown		1.7	1.7	
12	Total CRVA Eligible Costs	3.9	7.5	11.4	0.0
13	Total Base OM&A	571.4	734.3	1,305.7	0.0

Notes:

- 1 The figures presented here are 2022 Actuals that have been restated for Nuclear organizational changes and transfers from Corporate Support (See Ex. A1-4-1, Att. 2 and Ex. F2-2-1, Att. 1).

Numbers may not add due to rounding.

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 Tab 2
 Schedule 1
 Table 5a

Table 5a
 Combined Nuclear Base OM&A by Function (\$M)
OEB Approved¹ - Calendar Year Ending December 31, 2022

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations¹				
1	Operations & Maintenance	271.7	374.1	645.8	0.0
2	- Operations	94.7	111.8	206.5	
3	- Maintenance	177.0	262.3	439.3	
4	Work Management	15.9	17.9	33.7	
5	Site and Support Services	33.3	66.9	100.2	
6	Tritium Removal Facility	14.5		14.5	
7	Total Nuclear Stations	335.4	458.8	794.2	0.0
8	Operations and Project Support¹	244.3	283.7	528.0	0.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project	2.4	3.5	5.9	
10	Pickering Extended Operations		0.0	0.0	
11	Optimization of Pickering Shutdown		5.8	5.8	
12	Total CRVA Eligible Costs	2.4	9.4	11.7	0.0
13	Total Base OM&A	582.1	751.9	1,334.0	0.0

Notes:

- The figures presented here are 2022 Plan (from EB-2020-0290, Ex. F2-2-1, Table 9) that have been restated for Nuclear organizational changes and transfers from Corporate Support (See Ex. A1-4-1, Att.2 and Ex. F2-2-1, Att. 1).

Numbers may not add due to rounding.

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Exhibit F2

Tab 2

Schedule 1

Table 6

Table 6
 Combined Nuclear Base OM&A by Function (\$M)
Actual - Calendar Year Ending December 31, 2023

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations¹				
1	Operations & Maintenance	282.2	410.3	692.5	0.0
2	- Operations	90.2	123.5	213.8	
3	- Maintenance	192.0	286.8	478.8	
4	Work Management	15.6	15.6	31.2	
5	Site and Support Services	30.6	95.4	126.0	
6	Tritium Removal Facility	11.9		11.9	
7	Total Nuclear Stations	340.3	521.3	861.6	0.0
8	Operations and Project Support¹	241.2	313.6	554.8	0.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project	0.5	0.7	1.1	
10	Pickering Extended Operations		0.0	0.0	
11	Optimization of Pickering Shutdown		1.4	1.4	
12	Total CRVA Eligible Costs	0.5	2.0	2.5	0.0
13	Total Base OM&A	581.9	837.0	1,418.9	0.0

Notes:

- 1 The figures presented here are 2023 Actuals that have been restated for Nuclear organizational changes and transfers from Corporate Support (See Ex. A1-4-1, Att.2 and Ex. F2-2-1, Att. 1).

Numbers may not add due to rounding.

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 Tab 2
 Schedule 1
 Table 6a

Table 6a
 Combined Nuclear Base OM&A by Function (\$M)
OEB Approved¹ - Calendar Year Ending December 31, 2023

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations¹				
1	Operations & Maintenance	268.6	370.3	638.9	0.0
2	- Operations	86.9	108.1	195.0	
3	- Maintenance	181.7	262.2	443.8	
4	Work Management	18.0	16.0	34.0	
5	Site and Support Services	32.5	68.2	100.7	
6	Tritium Removal Facility	14.7		14.7	
7	Total Nuclear Stations	333.8	454.5	788.2	0.0
8	Operations and Project Support¹	249.9	279.5	529.4	0.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project	1.7	2.6	4.3	
10	Pickering Extended Operations		0.0		
11	Optimization of Pickering Shutdown		2.7	2.7	
12	Total CRVA Eligible Costs	1.7	5.2	7.0	0.0
13	Total Base OM&A	585.4	739.2	1,324.6	0.0

Notes:

- The figures presented here are 2023 Plan (from EB-2020-0290, Ex. F2-2-1, Table 10) that have been restated for Nuclear organizational changes and transfers from Corporate Support (See Ex. A1-4-1, Att. 2 and Ex. F2-2-1, Att.1).

Numbers may not add due to rounding.

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Exhibit F2

Tab 2

Schedule 1

Table 7

Table 7
 Combined Nuclear Base OM&A by Function (\$M)
Actual - Calendar Year Ending December 31, 2024

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations¹				
1	Operations & Maintenance	293.9	393.3	687.2	0.0
2	- Operations	104.4	120.4	224.8	
3	- Maintenance	189.5	272.9	462.4	
4	Work Management	22.6	13.7	36.4	
5	Site and Support Services	33.2	61.8	94.9	
6	Tritium Removal Facility	11.7		11.7	
7	Total Nuclear Stations	361.4	468.8	830.2	0.0
8	Operations and Project Support¹	278.9	321.5	600.4	0.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project	(0.1)	0.0	(0.1)	
10	Pickering Extended Operations		0.0	0.0	
11	Optimization of Pickering Shutdown		3.0	3.0	
12	Total CRVA Eligible Costs	(0.1)	3.0	2.8	0.0
13	Total Base OM&A	640.1	793.3	1,433.5	0.0

Notes:

- 1 The figures presented here are 2024 Actuals that have been restated for Nuclear organizational changes and transfers from Corporate Support (See Ex. A1-4-1, Att. 2 and Ex. F2-2-1, Att. 1).

Numbers may not add due to rounding.

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 Tab 2
 Schedule 1
 Table 7a

Table 7a
 Combined Nuclear Base OM&A by Function (\$M)
 OEB Approved¹ - Calendar Year Ending December 31, 2024

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations¹				
1	Operations & Maintenance	277.2	352.7	630.0	0.0
2	- Operations	90.5	103.8	194.3	
3	- Maintenance	186.7	248.9	435.7	
4	Work Management	16.6	13.3	29.9	
5	Site and Support Services	31.0	65.3	96.3	
6	Tritium Removal Facility	15.1		15.1	
7	Total Nuclear Stations	340.0	431.3	771.3	0.0
8	Operations and Project Support¹	251.0	283.2	534.2	0.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project	0.3	0.5	0.8	
10	Pickering Extended Operations		0.0		
11	Optimization of Pickering Shutdown		4.8	4.8	
12	Total CRVA Eligible Costs	0.3	5.3	5.6	0.0
13	Total Base OM&A	591.3	719.9	1,311.2	0.0

Notes:

- 1 The figures presented here are 2024 Plan (from EB-2020-0290, Ex. F2-2-1, Table 11) that have been restated for Nuclear organizational changes and transfers from Corporate Support (See Ex. A1-4-1 Att. 2 and Ex. F2-2-1, Att.1).

Numbers may not add due to rounding.

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Exhibit F2

Tab 2

Schedule 1

Table 8

Table 8
 Combined Nuclear Base OM&A by Function (\$M)
Budget - Calendar Year Ending December 31, 2025

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations				
1	Operations & Maintenance	299.7	308.8	608.5	0.0
2	- Operations	111.5	86.3	197.8	
3	- Maintenance	188.2	222.5	410.7	
4	Work Management	23.3	10.5	33.8	
5	Site and Support Services	35.6	51.4	87.0	
6	Tritium Removal Facility	13.4		13.4	
7	Total Nuclear Stations	371.9	370.8	742.7	0.0
8	Operations and Project Support	287.3	272.6	559.8	0.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project	0.4	0.0	0.4	
10	Pickering Extended Operations		0.0	0.0	
11	Optimization of Pickering Shutdown		0.0	0.0	
12	Total CRVA Eligible Costs	0.4	0.0	0.4	0.0
13	Total Base OM&A	659.6	643.3	1,303.0	0.0

Notes:

Numbers may not add due to rounding.

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Exhibit F2

Tab 2

Schedule 1

Table 8a

Table 8a
 Combined Nuclear Base OM&A by Function (\$M)
OEB Approved - Calendar Year Ending December 31, 2025

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations				
1	Operations & Maintenance	274.9	252.9	527.8	0.0
2	- Operations	90.4	59.9	150.2	
3	- Maintenance	184.6	193.0	377.6	
4	Work Management	20.0	7.4	27.4	
5	Site and Support Services	37.3	56.7	94.0	
6	Tritium Removal Facility	14.2		14.2	
7	Total Nuclear Stations	346.4	317.0	663.4	0.0
8	Operations and Project Support	238.5	177.7	416.2	0.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project	0.2	0.3	0.4	
10	Pickering Extended Operations		0.0		
11	Optimization of Pickering Shutdown		0.0		
12	Total CRVA Eligible Costs	0.2	0.3	0.4	0.0
13	Total Base OM&A	585.0	495.0	1,080.0	0.0

Numbers may not add due to rounding.

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Exhibit F2

Tab 2

Schedule 1

Table 9

Table 9
 Combined Nuclear Base OM&A by Function (\$M)
Budget - Calendar Year Ending December 31, 2026

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations				
1	Operations & Maintenance	299.6	257.4	557.0	0.0
2	- Operations	105.6	72.7	178.4	
3	- Maintenance	194.0	184.6	378.6	
4	Work Management	21.2	7.6	28.9	
5	Site and Support Services	38.7	40.7	79.4	
6	Tritium Removal Facility	13.8		13.8	
7	Total Nuclear Stations	373.3	305.7	679.0	0.0
8	Operations and Project Support	282.6	248.6	531.2	3.9
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project		0.0		
10	Pickering Extended Operations		0.0		
11	Optimization of Pickering Shutdown		0.0		
12	Total CRVA Eligible Costs	0.0	0.0	0.0	0.0
13	Total Base OM&A	655.9	554.3	1,210.2	3.9

Numbers may not add due to rounding.

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Exhibit F2

Tab 2

Schedule 1

Table 9a

Table 9a
 Combined Nuclear Base OM&A by Function (\$M)
OEB Approved - Calendar Year Ending December 31, 2026

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations				
1	Operations & Maintenance	290.0	0.0	290.0	0.0
2	- Operations	91.1		91.1	
3	- Maintenance	198.8		198.8	
4	Work Management	16.3		16.3	
5	Site and Support Services	37.0		37.0	
6	Tritium Removal Facility	14.5		14.5	
7	Total Nuclear Stations	357.7	0.0	357.7	0.0
8	Operations and Project Support	264.0	(0.0)	264.0	0.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project	0.0	0.0	0.0	
10	Pickering Extended Operations		0.0	0.0	
11	Optimization of Pickering Shutdown		0.0	0.0	
12	Total CRVA Eligible Costs	0.0	0.0	0.0	0.0
13	Total Base OM&A	621.7	(0.0)	621.7	0.0

Numbers may not add due to rounding.

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 Schedule 1
 Table 10

Table 10
 Combined Nuclear Base OM&A by Function (\$M)
Plan - Calendar Year Ending December 31, 2027

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations				
1	Operations & Maintenance	321.4	6.4	327.8	0.0
2	- Operations	110.8	6.4	117.2	
3	- Maintenance	210.6	0.0	210.6	
4	Work Management	32.7	0.0	32.7	
5	Site and Support Services	40.5	1.7	42.2	
6	Tritium Removal Facility	14.4		14.4	
7	Total Nuclear Stations	409.0	8.1	417.1	0.0
8	Operations and Project Support	299.2	124.1	423.3	4.3
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project		0.0		
10	Pickering Extended Operations		0.0		
11	Optimization of Pickering Shutdown		0.0		
12	Total CRVA Eligible Costs	0.0	0.0	0.0	0.0
13	Total Base OM&A	708.2	132.2	840.4	4.3

Numbers may not add due to rounding.

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Exhibit F2

Tab 2

Schedule 1

Table 11

Table 11
 Combined Nuclear Base OM&A by Function (\$M)
Plan - Calendar Year Ending December 31, 2028

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations				
1	Operations & Maintenance	330.0	13.9	343.9	0.0
2	- Operations	112.0	11.3	123.2	
3	- Maintenance	218.0	2.6	220.6	
4	Work Management	18.9	0.0	18.9	
5	Site and Support Services	42.2	1.7	43.8	
6	Tritium Removal Facility	14.8		14.8	
7	Total Nuclear Stations	405.9	15.5	421.4	0.0
8	Operations and Project Support	303.9	125.3	429.2	5.0
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project		0.0		
10	Pickering Extended Operations		0.0		
11	Optimization of Pickering Shutdown		0.0		
12	Total CRVA Eligible Costs	0.0	0.0	0.0	0.0
13	Total Base OM&A	709.8	140.9	850.7	5.0

Numbers may not add due to rounding.

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Exhibit F2

Tab 2

Schedule 1

Table 12

Table 12
 Combined Nuclear Base OM&A by Function (\$M)
Plan - Calendar Year Ending December 31, 2029

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations				
1	Operations & Maintenance	348.1	18.0	366.1	0.0
2	- Operations	121.7	14.3	136.0	
3	- Maintenance	226.5	3.7	230.1	
4	Work Management	25.2	0.0	25.2	
5	Site and Support Services	43.3	4.3	47.6	
6	Tritium Removal Facility	15.7		15.7	
7	Total Nuclear Stations	432.3	22.3	454.5	0.0
8	Operations and Project Support	312.8	131.1	443.9	5.3
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project		0.0		
10	Pickering Extended Operations		0.0		
11	Optimization of Pickering Shutdown		0.0		
12	Total CRVA Eligible Costs	0.0	0.0	0.0	0.0
13	Total Base OM&A	745.1	153.4	898.4	5.3

Numbers may not add due to rounding.

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 Exhibit F2
 Tab 2
 Schedule 1
 Table 13

Table 13
 Combined Nuclear Base OM&A by Function (\$M)
Plan - Calendar Year Ending December 31, 2030

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations				
1	Operations & Maintenance	354.8	15.5	370.3	6.0
2	- Operations	124.1	14.6	138.7	3.3
3	- Maintenance	230.7	0.9	231.6	2.7
4	Work Management	22.5	0.0	22.5	0.4
5	Site and Support Services	44.3	9.2	53.5	11.8
6	Tritium Removal Facility	15.8		15.8	
7	Total Nuclear Stations	437.4	24.6	462.1	18.2
8	Operations and Project Support	313.4	141.3	454.7	16.1
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project		0.0		
10	Pickering Extended Operations		0.0		
11	Optimization of Pickering Shutdown		0.0		
12	Total CRVA Eligible Costs	0.0	0.0	0.0	0.0
13	Total Base OM&A	750.8	166.0	916.8	34.4

Numbers may not add due to rounding.

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 EB-2025-0297
 Exhibit F2
 Tab 2
 Schedule 1
 Table 14

Table 14
 Combined Nuclear Base OM&A by Function (\$M)
Plan - Calendar Year Ending December 31, 2031

Line No.	Function	Darlington NGS	Pickering NGS	Total OPG Nuclear Facilities	DNNP Facilities
		(a)	(b)	(c)	(d)
	Nuclear Stations				
1	Operations & Maintenance	366.3	187.4	553.7	35.6
2	- Operations	128.6	67.1	195.7	22.0
3	- Maintenance	237.7	120.3	358.0	13.6
4	Work Management	19.2	11.1	30.2	3.0
5	Site and Support Services	45.7	57.2	102.9	27.5
6	Tritium Removal Facility	16.5		16.5	
7	Total Nuclear Stations	447.6	255.6	703.3	66.1
8	Operations and Project Support	318.1	204.0	522.2	52.9
	CRVA Eligible Costs				
9	Fuel Channel Life Extension Project		0.0		
10	Pickering Extended Operations		0.0		
11	Optimization of Pickering Shutdown		0.0		
12	Total CRVA Eligible Costs	0.0	0.0	0.0	0.0
13	Total Base OM&A	765.8	459.7	1,225.4	119.0

1 **COMPARISON OF NUCLEAR BASE AND DNNP OPERATIONAL**
2 **READINESS OM&A COSTS**

3
4 **1.0 PURPOSE**

5 This evidence presents period-over-period comparisons of Base OM&A costs for OPG's
6 nuclear facilities (2020-2031) and Darlington New Nuclear Program ("DNNP") facilities, and
7 DNNP Operational Readiness OM&A costs (2026-2031), and supports the approval of these
8 costs presented in Ex. F2-2-1.

9
10 Where applicable, OPG has restated the presentation of actual (2020-2024) and EB-2020-
11 0290 Nuclear OEB-approved (2022-2026) Nuclear Stations and Operations and Project
12 Support costs for subsequent organizational changes including transfers to/from Support
13 Services organization to provide an appropriate basis of comparison with the forecast period
14 information. These transfers are further described in Ex. A1-4-1, Attachment 2.

15
16 Period-over-period changes by functional group (Nuclear Stations, Operations and Project
17 Support and Capacity Refurbishment Variance Account ("CRVA") Eligible¹ for nuclear facilities
18 are presented in Ex. F2-2-2, Table 1a and 1b.

19
20 Period-over-period changes by functional group (Nuclear Stations, Operations and Project
21 Support) for DNNP facilities and Operational Readiness costs are presented in Ex. F2-2-2,
22 Table 1c.

23
24 All comparisons to OEB-approved amounts are before any settlement or OEB disallowances
25 adjustments.

26
27 Net reportable variances and period-over-period changes by category of expense (10% or
28 greater at the function level subject to a minimum materiality limit of \$1.0M), are discussed
29 below. Key drivers of variance are identified.

¹ The CRVA is discussed in Ex. H1-1-1, Section 5.6.

1 **2.0 PERIOD-OVER-PERIOD CHANGES – IR TERM, OPG NUCLEAR FACILITIES**

2 **2027 Plan versus 2026 Budget**

3 Planned Base OM&A costs in 2027 are \$840.4M, which is \$369.8M or 30.6% lower than the
4 2026 planned Base OM&A costs of \$1,210.2M. The variance is attributable to Nuclear Stations
5 (\$261.9M or 38.6% decrease) and Operations and Project Support (\$107.9M or 20.3%
6 decrease).

7
8 The negative reportable variances by category of expense for the Nuclear Stations and
9 Operations and Project Support functional groups are driven by Pickering Units 5-8 entering
10 into the refurbishment outage.

11
12 In addition to the above, the reportable variances by category of expense are as follows:

- 13 • Work Management (\$3.8M or 13.2% increase): primarily due to the T2601 Tritium Removal
14 Facility (“TRF”) outage in 2027.

15
16 **2028 Plan versus 2027 Plan**

17 Planned Base OM&A costs are 2028 is \$850.7M, which is \$10.3M or 1.2% higher than the
18 2027 planned Base OM&A costs of \$840.4M. The variance is attributable to Operations and
19 Project Support (\$5.9M or 1.4% increase), and Nuclear Stations (\$4.4M or 1.0% increase).

20
21 The reportable variance by category of expense is as follows:

- 22 • Work Management (\$13.7M or 42.0% decrease): primarily due to having no TRF outages
23 in 2028.

24
25 **2029 Plan versus 2028 Plan**

26 Planned Base OM&A costs in 2029 are \$898.4M, which is \$47.8M or 5.6% higher than the
27 2028 planned Base OM&A costs of \$850.7M. The variance is attributable to Nuclear Stations
28 (\$33.1M or 7.9% increase) and Operations and Project Support (\$14.7M or 3.4% increase).

29 The higher OM&A costs include the impact of the 53rd fiscal week in 2029.²

² Annual labour cost budgets are calculated on a weekly basis times the number of weeks in the fiscal calendar year; most years have 52 weeks, but some years, like 2029, have 53 numbered weeks.

1 In addition to the above, the reportable variances by category of expense are as follows:

- 2 • Work Management (\$6.2M or 32.8% increase): primarily due to the T2901 TRF outage in
3 2029.

4
5 **2030 Plan versus 2029 Plan**

6 Planned Base OM&A costs in 2030 are \$916.8M, which is \$18.4M or 2.0% higher than the
7 2029 planned Base OM&A costs of \$898.4M. The variance is attributable to Operations and
8 Project Support (\$10.8M or 2.4% increase) and Nuclear Stations (\$7.5M or 1.7% increase),
9 which includes the impact of the 53rd week in 2029 and not in 2030.

10

11 In addition to the above, the reportable variances by category of expense are as follows:

- 12 • Work Management (\$2.7M or 10.7% decrease): primarily due to lower costs in 2030 from
13 the completion of the T2901 TRF outage which commences in 2029.
14 • Site and Support Services (\$5.9M or 12.3% increase): primarily due to the extended
15 training period required for nuclear operators and chemical technicians to prepare for the
16 return to service of Pickering Unit 5.

17

18 **2031 Plan versus 2030 Plan**

19 Planned Base OM&A costs in 2031 are \$1,225.4M, which is \$308.6M or 33.7% higher than
20 the 2030 planned Base OM&A costs of \$916.8M. The variance is attributable to Nuclear
21 Stations (\$241.2M or 52.2% increase) and Operations and Project Support (\$67.4M or 14.8%
22 increase), reflecting the return to service of Pickering Unit 5 in May 2031.

23

24 The reportable variances by category of expense for the Nuclear Stations and Operations and
25 Project Support functional groups are primarily driven by the return to service of Unit 5 at
26 Pickering.

27

28 **3.0 PERIOD-OVER-PERIOD CHANGES – BRIDGE YEARS**

29 **2026 Budget versus 2026 OEB-Approved**

30 Planned Base OM&A costs in 2026 are \$1,210.2M, which is \$588.5M or 94.7% higher than
31 the 2026 OEB-approved budget of \$621.7M. The variance is attributable to Nuclear Stations

1 (\$321.3M or 89.8% increase) and Operations and Project Support (\$267.2M or 101.2%
2 increase).

3

4 The reportable variances are largely due to Pickering Units 5-8 not ending commercial
5 operation in 2025 as was assumed in EB-2020-0290. In addition, all Station and Operations
6 and Project Support organizations were impacted by higher labour cost escalation than
7 forecasted in EB-2020-0290, reflecting collective bargaining process outcomes including as a
8 result of the repeal of the *Protecting a Sustainable Public Sector for Future Generations Act*,
9 2019 ("Bill 124"), as discussed in Ex. F4-3-1.

10

11 **2026 Budget versus 2025 Budget**

12 Planned Base OM&A costs in 2026 are \$1,210.2M, which is \$92.8M or 7.1% lower than the
13 2025 planned Base OM&A costs of \$1,303.0M. The variance is primarily attributable to Nuclear
14 Stations (\$63.7M or 8.6% decrease) and Operations and Project Support (\$28.6M or 5.1%
15 decrease). This largely reflects Pickering Unit 5-8 operating for 12 months in 2025 compared
16 to nine months in 2026, before entering into the refurbishment outage.

17

18 In addition to the above, the reportable variances by category of expense are as follows:

- 19 • Work Management (\$5.0M or 14.7% decrease): primarily due to costs incurred in 2025 for
20 the completion of the T2401 TRF outage.
- 21 • Environment, Health & Safety ("EHS") (\$2.4M or 20.6% increase): primarily due to
22 increased support required for environmental and compliance programs in accordance with
23 environmental legislation (Ex. A1-6-1, Section 9.0), including stormwater sampling at
24 Pickering to support environmental risk assessments, biodiversity initiatives and
25 environmental monitoring, and *Fisheries Act* Authorizations.
- 26 • Enterprise Projects (\$3.7M or 28.1% decrease): primarily due to reduced station operations
27 support at both Darlington and Pickering, partially offset by work undertaken for the
28 Enterprise-Wide Project Excellence Initiatives (Ex. D2-1-1, Section 3.5) to strengthen
29 project management.

1 **2025 Budget versus 2025 OEB-Approved**

2 Planned Base OM&A costs in 2025 are \$1,303.0M, which is \$223.0M or 24.4% higher than
3 the 2025 OEB-approved budget of \$1,080.0M. The variance is attributable to Operations and
4 Project Support (\$143.6M or 34.5% increase) and Nuclear Stations (\$79.4M or 12.0%
5 increase). All Nuclear Stations and Operations and Project Support Functions were impacted
6 by higher labour cost escalation than forecasted in EB-2020-0290, reflecting collective
7 bargaining process outcomes including as a result of the repeal of Bill 124, as discussed in Ex.
8 F4-3-1.

9

10 The reportable variances by category of expenses are as follows and are inclusive of the
11 aforementioned higher labour cost escalation, with additional drivers of variance identified
12 below where applicable:

- 13 • Operations (\$47.5M or 31.6% increase): primarily due to higher staffing levels as a result
14 of Pickering Units 5-8 not ending commercial operation in 2025, including the hiring of
15 additional Nuclear Operators in Training, bulk chemical costs price increases (e.g. helium),
16 and the operation of the demineralized water treatment plant at Darlington for which Base
17 OM&A costs were not included in the plan underpinning EB-2020-0290 (Ex. D2-1-3,
18 Section 3.1.3).
- 19 • Work Management (\$6.5M or 23.6% increase): primarily due to higher staffing levels to
20 support Pickering operations to September 2026.
- 21 • Enterprise Engineering (\$51.6M or 27.5% increase): primarily as a result of Pickering Units
22 5-8 not ending commercial operation in 2025. Throughout the refurbishment period and
23 post refurbishment, Enterprise Engineering will complete critical activities such as
24 improved monitoring, inspections, calibrations and technical assessments to address
25 maintenance needs, and sustain equipment performance and reliability.
- 26 • Integrated Fleet Management (\$73.1M or 56.1% increase): primarily as a result of
27 Pickering Units 5-8 not ending commercial operation in 2025. Throughout the
28 refurbishment period and post refurbishment, work performed includes continued
29 specialized training programs in maintenance, engineering and operations for maintaining
30 necessary qualifications for safe and reliable operations, as well as incremental support in
31 Security Services to comply with Canadian Nuclear Safety Commission requirements.

- 1 • Enterprise Projects (\$1.9M or 16.9% increase): primarily due to work undertaken for the
2 Enterprise-Wide Project Excellence Initiatives (Ex. D2-1-1, Section 3.5) to strengthen
3 project management, and increased station operations support.
- 4 • Other Support (\$13.7M or 19.8% increase): primarily due to higher staffing levels in Nuclear
5 Regulatory Affairs as a result of Pickering Units 5-8 not ending commercial operation in
6 2025 and in Energy Markets to ensure transfer of critical knowledge and skillsets due to
7 expected attrition.
- 8 • Low and Intermediate Level Waste (\$4.4M or 90.9% increase): due to higher costs rates
9 following the year-end 2021 asset retirement obligation adjustment reflecting the 2022-
10 2026 Ontario Nuclear Funds Agreement (“ONFA”) Reference Plan that was implemented
11 subsequent to EB-2020-0290.

12 13 **2025 Budget versus 2024 Actual**

14 Planned Base OM&A costs in 2025 are \$1,303.0M, which is \$130.5M or 9.1% lower than the
15 2024 actual amount of \$1,433.5M. The variance is attributable to Nuclear Stations (\$87.5M or
16 10.5% decrease), Operations and Project Support (\$40.6M or 6.8% decrease) and CRVA
17 Eligible Costs (\$2.4M or 85.2% decrease). The negative reportable variances by category of
18 expense for the Nuclear Station and Operations and Project Support functional groups are
19 largely driven by the permanent shutdown of Pickering Units 1 and 4 in 2024 and the impact
20 of the 53rd week in 2024 and not in 2025.

21
22 In addition to the above, the reportable variances by category of expense are as follows:

- 23 • TRF (\$1.7M or 14.4% increase): primarily due to higher staffing levels from previously
24 unfilled vacancies.
- 25 • Optimization of Pickering Shutdown (\$3.0M or 100% decrease): due to completion of this
26 work program in 2024.

27 28 **4.0 PERIOD-OVER-PERIOD CHANGES – HISTORICAL YEARS**

29 **2024 Actual versus 2024 OEB-Approved**

30 Actual Base OM&A costs in 2024 were \$1,433.5M, which is \$122.3M or 9.3% higher than the
31 2024 OEB-approved budget of \$1,311.2M. The variance is attributable to Nuclear Stations

1 (\$58.9M or 7.6% increase), Operations and Project Support (\$66.2M or 12.4% increase),
2 partially offset by CRVA Eligible Costs (\$2.8M or 49.5% decrease). All Nuclear Stations and
3 Operations and Project Support Functions were impacted by higher labour cost escalation than
4 forecasted in EB-2020-0290, reflecting collective bargaining process outcomes including as a
5 result of the repeal of Bill 124, as discussed in Ex. F4-3-1.

6
7 The reportable variances by category of expenses are as follows and are inclusive of the
8 aforementioned higher labour cost escalation, with additional drivers of variance identified
9 below where applicable:

- 10 • Operations (\$30.5M or 15.7% increase): primarily due to higher staffing levels as a result
11 of Pickering Units 5-8 not ending commercial operation in 2025 including the hiring of
12 additional Nuclear Operators in Training, bulk chemical costs price increases (e.g. helium),
13 and the operation of the demineralized water treatment plant at Darlington for which Base
14 OM&A costs were not included in the plan underpinning EB-2020-0290 (Ex. D2-1-3,
15 Section 3.1.3).
- 16 • Work Management (\$6.5M or 21.7% increase): primarily due to the T2401 (previously
17 named T2301 in EB-2020-0290) TRF outage being shifted to a 2024 start date.
- 18 • TRF (\$3.4M or 22.7% decrease): primarily due to lower than planned staffing levels, due
19 to more resources supporting the provision of third-party detritiation services.
- 20 • Integrated Fleet Management (\$32.4M or 17.1% increase): primarily due to higher staffing
21 levels for Training and Security and Emergency Services to support regulatory
22 requirements and continued specialized training and as a result of Pickering Units 5-8 not
23 ending commercial operation in 2025, and higher non-labour costs for tactical review needs
24 assessment, strategic oversight, and evaluation of existing programs.
- 25 • Enterprise Projects (\$2.9M or 21.3% increase): primarily due to work undertaken for the
26 Enterprise-Wide Project Excellence Initiatives (Ex. D2-1-1, Section 3.5) to strengthen
27 project management.
- 28 • Low and Intermediate Level Waste (\$6.0M or 108.2% increase): due to higher costs rates
29 following the year-end 2021 asset retirement obligation (“ARO”) adjustment reflecting the
30 2022-2026 ONFA Reference Plan.

- 1 • Optimization of Pickering Shutdown (\$1.8M or 38.2% decrease): due to the winding down
2 of the Periodic Safety Review program, in advance of completion of this work program.

3
4 **2024 Actual versus 2023 Actual**

5 Actual Base OM&A costs in 2024 were \$1,433.5M, which was \$14.6M or 1.0% higher than the
6 2023 actual amount of \$1,418.9M. The variance is attributable to Operations and Project
7 Support (\$45.6M or 8.2% increase), CRVA Eligible Costs (\$0.3M or 12.9% increase), partially
8 offset by Nuclear Stations (\$31.4M or 3.6% decrease). All Nuclear Stations and Operations
9 and Project Support Functions were impacted by higher labour cost escalation in 2024
10 reflecting collective bargaining process outcomes including as a result of Bill 124, as discussed
11 in Ex. F4-3-1. Another contributor to the increase in base OM&A is the impact of the 53rd fiscal
12 week in 2024.

13
14 The reportable variances by category of expenses are as follows and are inclusive of the
15 aforementioned higher labour cost escalation, with additional drivers of variance identified
16 below where applicable:

- 17 • Work Management (\$5.2M or 16.6% increase): due to the T2401 TRF outage (previously
18 named T2301 in EB-2020-0290) being shifted to a 2024 start date.
- 19 • Site and Support Services (\$31.0M or 24.6% decrease): due to an increased stores
20 inventory obsolescence adjustment for Pickering in 2023.
- 21 • Integrated Fleet Management (\$33.3M or 17.7% increase): due to Training and Security
22 and Emergency Services related costs for additional staffing to support regulatory
23 requirements and higher non-labour costs for tactical review needs assessment, strategic
24 oversight, and evaluation of existing programs.
- 25 • Fuel Channel Life Extension Project (\$1.3M or 112.7% decrease): due to the winding down
26 of this work program.
- 27 • Optimization of Pickering Shutdown (\$1.6M or 115.2% increase): due to the ongoing work
28 program schedule related to the Periodic Safety Review.

29
30 **2023 Actual versus 2023 OEB-Approved**

31 Actual Base OM&A costs in 2023 were \$1,418.9M, which was \$94.3M or 7.1% higher than the

1 2023 OEB-approved budget of \$1,324.6M. The variance is attributable to Nuclear Stations
2 (\$73.3M or 9.3% increase) and Operations and Project Support (\$25.4M or 4.8% increase),
3 partially offset by CRVA Eligible Costs (\$4.4M or 63.8% decrease). All Nuclear Stations and
4 Operations and Project Support Functions were impacted by higher labour cost escalation than
5 forecasted in EB-2020-0290, reflecting collective bargaining process outcomes including as a
6 result of the repeal of Bill 124, as discussed in Ex. F4-3-1.

7
8 The reportable variances by category of expenses are as follows and are inclusive of the
9 aforementioned higher labour cost escalation, with additional drivers of variance identified
10 below where applicable:

- 11 • Site and Support Services (\$25.3M or 25.1% increase): primarily due to a stores inventory
12 obsolescence adjustment for Pickering in 2023.
- 13 • TRF (\$2.8M or 19.3% decrease): due to lower than planned staffing levels, due to more
14 resources supporting the provision of third-party detritiation services.
- 15 • Enterprise Projects (\$2.1M or 14.7% increase): primarily due to increased station
16 operations support.
- 17 • Low and Intermediate Level Waste (\$7.2M or 139.3% increase): due to higher costs rates
18 following the year-end 2021 ARO adjustment reflecting the 2022-2026 ONFA Reference
19 Plan.
- 20 • Fuel Channel Life Extension Ongoing (\$3.1M or 73.6% decrease): primarily due to the start
21 of the winding down of this work program.
- 22 • Optimization of Pickering Shutdown (\$1.3M or 48.1% decrease): due to the ongoing work
23 program schedule related to the Periodic Safety Review.

24
25 **2023 Actual versus 2022 Actual**

26 Actual Base OM&A costs in 2023 were \$1,418.9M, which were \$113.2M or 8.7% higher than
27 the 2022 actual amount of \$1,305.7M. The variance is attributable to Nuclear Stations (\$73.9M
28 or 9.4% increase) and Operations and Project Support (\$48.2M or 9.5% increase). All Nuclear
29 Stations and Operations and Project Support Functions were impacted by higher labour cost
30 escalation in 2023 reflecting collective bargaining process outcomes including as a result of
31 the repeal of Bill 124, as discussed in Ex. F4-3-1.

1 The reportable variances by category of expenses are as follows and are inclusive of the
2 aforementioned higher labour cost escalation, with additional drivers of variance identified
3 below where applicable:

- 4 • Maintenance (\$48.8M or 11.4% increase): primarily driven by increased forced outage
5 days, emergent repairs at Pickering and higher non-labour costs (e.g. materials and service
6 contracts).
- 7 • Work Management (\$9.6M or 23.5% decrease): primarily due to no TRF outages taking
8 place in 2023.
- 9 • Site and Support Services (\$22.6M or 21.8% increase): primarily due to a stores inventory
10 obsolescence adjustment for Pickering in 2023.
- 11 • Enterprise Engineering (\$26.7M or 12.4% increase): primarily due to higher staffing levels
12 due to previously unfilled vacancies and to address attrition risks, and emergent CNSC
13 assessment requests.
- 14 • EHS (\$2.1M or 13.0% decrease): primarily due to COVID-19 related costs including
15 procurement of personal protective equipment and testing not planned in EB-2020-0290.
- 16 • Other Support (\$14.1M or 20.9% increase): primarily due to a cycle count provision for
17 inventory and higher regulatory licensing fees due to a refund received in 2022.
- 18 • Low and Intermediate Level Waste (\$4.0M or 24.3% decrease): due to lower waste
19 volumes at the Darlington station.
- 20 • Fuel Channel Life Extension Ongoing (\$8.6M or 88.3% decrease): due to completion of
21 Darlington Unit 3 spacer retrieval and analysis work in 2022.

22
23 **2022 Actual versus 2022 OEB-Approved**

24 Actual Base OM&A costs in 2022 were \$1,305.7M, which was \$28.3M or 2.1% lower than the
25 2022 OEB-approved budget of \$1,334.0M. The variance is attributable to Operations and
26 Project Support (\$21.4M, or 4.1% decrease) and Nuclear Stations (\$6.6M or 0.8% decrease).

27
28 The reportable variances by category of expense are as follows:

- 29 • Work Management (\$7.0M or 20.8% increase): primarily due to the T2101 TRF outage that
30 was shifted to a 2022 start date from 2021.

- 1 • TRF (\$3.1M or 21.1% decrease): primarily due to lower than planned staffing levels, due
2 to more resources supporting the provision of third-party detritiation services.
- 3 • EHS (\$2.6M or 19.1% increase): primarily due to COVID-19 related costs, including
4 procurement of personal protective equipment and testing not planned in EB-2020-0290.
- 5 • Enterprise Projects (\$2.9M or 19.3% increase): primarily due to increased station
6 operations support.
- 7 • Low and Intermediate Level Waste (\$11.5M or 241.9% increase): due to higher costs rates
8 following the year-end 2021 ARO adjustment reflecting the 2022-2026 ONFA Reference
9 Plan, partially offset by lower waste volumes.
- 10 • Fuel Channel Life Extension Ongoing (\$3.8M or 64.5% increase): due to the completion of
11 the Darlington Unit 3 spacer retrieval and analysis work, which was projected to be
12 completed in 2021 in EB-2020-0290.
- 13 • Optimization of Pickering Shutdown (\$4.2M or 71.6% decrease): due to the ongoing work
14 program schedule related to the Periodic Safety Review.

15

16 **2022 Actual versus 2021 Actual**

17 Actual Base OM&A costs in 2022 were \$1,305.7M, which was \$10.3M or 0.8% lower than the
18 2021 actual amount of \$1,316.0M. The decrease is attributable to Nuclear Stations (\$7.6M or
19 1.0% decrease) and CRVA Eligible Costs (\$3.6M or 23.9% decrease).

20

21 The reportable variances by category of expense are as follows:

- 22 • Work Management (\$5.7M or 16.4% increase): primarily due to the T2101 TRF outage that
23 was shifted from a 2021 start date to 2022.
- 24 • TRF (\$3.0M or 20.6% decrease): primarily due to lower than planned staffing levels, due
25 to more resources supporting the provision of third-party detritiation services.
- 26 • EHS (\$5.9M or 27.0% decrease): primarily due to COVID-19 related costs, including
27 procurement of personal protective equipment and testing.
- 28 • Low and Intermediate Level Waste (\$9.5M or 142.1% increase): due to higher costs rates
29 following the year-end 2021 ARO adjustment reflecting the 2022-2026 ONFA Reference
30 Plan.
- 31 • Fuel Channel Life Extension Ongoing (\$1.0M or 11.9% increase): due to the timing of the

1 Darlington Unit 3 spacer retrieval and analysis work.

- 2 • Pickering Extended Operations Enabling Costs (\$5.4M or 99.3% decrease): due to the
3 completion of this program in 2021.

4
5 **2021 Actual versus 2021 OEB-Approved**

6 Actual Base OM&A costs in 2021 were \$1,316.0M, which was \$53.5M or 3.9% lower than the
7 2021 OEB-approved amount of \$1,369.5M. The increase is attributable to Nuclear Stations
8 (\$32.8M or 4.0% decrease), Operations and Project Support (\$29.7M or 5.5% decrease) and
9 CRVA Eligible Costs (\$9.0M or 149.5% increase).

10
11 The reportable variances by category of expense are as follows:

- 12 • TRF (\$1.9M or 15.4% increase): primarily due to increased TRF operation costs.
13 • Enterprise Engineering (\$35.3M or 14.4% decrease): primarily due to lower than planned
14 staffing levels and purchased service costs.
15 • EHS (\$5.9M or 37.3% increase): primarily due to COVID-19 related costs, including
16 procurement of personal protective equipment and testing not planned in EB-2016-0152.
17 • Enterprise Projects (\$3.8M or 29.3% increase): primarily due to the ongoing work on the
18 Enterprise-Wide Project Excellence Initiatives (Ex. D2-1-1, Section 3.5) to strengthen
19 project management.
20 • Fuel Channel Life Extension Ongoing (\$2.7M or 44.5% increase): primarily due to timing
21 related to the Darlington Unit 3 spacer retrieval and analysis work.
22 • Pickering Extended Operations Enabling Costs (\$5.4M increase from \$0): primarily due to
23 reclassification of these expenditures from outage OM&A costs and project OM&A costs
24 to Base OM&A costs. Total Pickering Extended Operations initiative was completed in
25 2023 within its budget of \$307M.

26
27 **2021 Actual versus 2020 Actual**

28 Actual Base OM&A costs in 2021 were \$1,316.0M which was \$2.1M or 0.2% higher than the
29 2020 actual amount of \$1,313.9M. The increase was attributable to Nuclear Stations (\$11.4M
30 or 1.5% increase), partially offset by Operations and Project Support (\$8.7M or 1.7%
31 decrease).

1 The reportable variances by category of expense are as follows:

- 2 • Site and Support Services (\$12.6M or 13.6% increase): primarily due to increased stores
3 inventory obsolescence adjustments.
- 4 • TRF (\$3.0M or 26.5% increase): primarily due to increased TRF operation costs.
- 5 • EHS (\$3.9M or 21.5% increase): primarily due to COVID-19 related costs, including
6 procurement of personal protective equipment and testing.
- 7 • Pickering Extended Operations Enabling Costs (\$1.8M or 24.9% decrease): due to the
8 completion of this work program in 2021.

9

10 **2020 Actual versus 2020 OEB-Approved**

11 Actual Base OM&A costs in 2020 were \$1,313.9M which was \$43.0M or 3.2% lower than the
12 2020 OEB-approved amount of \$1,356.8M. The increase was attributable to Nuclear Stations
13 (\$40.7M or 4.9% decrease) and Operations and Project Support (\$11.9M or 2.3% decrease),
14 partially offset by CRVA Eligible Costs (\$9.6M or 159.4% increase).

15

16 The reportable variances by category of expense are as follows:

- 17 • Work Management (\$5.9M or 14.8% decrease), primarily due to lower than planned support
18 staff at Pickering, and moving the TRF Cryogenic Refrigeration System outage scope to the
19 T2101 outage.
- 20 • Site and Support Services (\$11.6M or 11.1% decrease), primarily due to lower than planned
21 work programs that support the stations.
- 22 • Environment, Health & Safety (\$2.7M or 17.4% increase), primarily due to COVID-19 related
23 costs, including procurement of personal protective equipment and testing.
- 24 • Low and Intermediate Level Waste (\$1.3M or 23.0% increase), due to higher costs rates
25 following the year-end 2021 ARO adjustment reflecting the 2022-2026 ONFA Reference
26 Plan.
- 27 • Fuel Channel Life Extension Ongoing (\$1.8M or 30.0% increase), primarily due to additional
28 Darlington spacer retrieval and analysis work.
- 29 • Pickering Extended Operations Enabling Costs (\$7.2M increase from \$0) primarily due to
30 reclassification of these expenditures from Outage OM&A costs and Project OM&A costs to
31 Base OM&A costs.

1 **5.0 PERIOD-OVER-PERIOD CHANGES – IR TERM, DNNP FACILITIES**

2 **2027 Plan versus 2026 Budget**

3 *DNNP Facilities Base OM&A*

4 Planned Base OM&A costs in 2027 are \$4.3M, which is \$0.5M or 11.6% higher than the 2026
5 planned Base OM&A costs of \$3.9M. The variance is attributable to Operations and Project
6 Support (\$0.5M or 11.6% increase).

7

8 There are no reportable variances by category during this timeframe.

9

10 *DNNP Operational Readiness OM&A*

11 Planned OM&A costs in 2027 are \$45.9M, which is \$17.1M or 59.5% higher than the 2026
12 planned OM&A costs of \$28.8M.

13

14 The reportable variance is driven by the hiring and training of future Operations staff and
15 support required to plan the operations and management of the DNNP Unit 1 as the
16 commercial in-service date approaches.

17

18 **2028 Plan versus 2027 Plan**

19 *DNNP Facilities Base OM&A*

20 Planned Base OM&A costs in 2028 are \$5.0M, which is \$0.7M or 15.8% higher than the 2027
21 planned Base OM&A costs of \$4.3M. The variance is attributable to Operations and Project
22 Support (\$0.7M or 15.8% increase).

23

24 There are no reportable variances by category during this timeframe.

25

26 *DNNP Operational Readiness OM&A*

27 Planned OM&A costs in 2028 are \$46.3M, which is \$0.4M or 0.9% higher than the 2027
28 planned OM&A costs of \$45.9M.

29

30 There are no reportable variances during this timeframe.

1 **2029 Plan versus 2028 Plan**

2 *DNNP Facilities Base OM&A*

3 Planned Base OM&A costs in 2029 are \$5.3M, which is \$0.3M or 6.4% higher than the 2028
4 planned Base OM&A costs of \$5.0M. The variance is attributable to Operations and Project
5 Support (\$0.3M or 6.4% increase).

6

7 There are no reportable variances by category during this timeframe.

8

9 *DNNP Operational Readiness OM&A*

10 Planned OM&A costs in 2029 are \$40.0M, which is \$6.4M or 13.7% lower than the 2028
11 planned OM&A costs of \$46.3M.

12

13 The reportable variance is driven by staff transitioning from supporting operational readiness
14 to commissioning, funded by the DNNP.

15

16 **2030 Plan versus 2029 Plan**

17 *DNNP Facilities Base OM&A*

18 Planned Base OM&A costs in 2030 are \$34.4M, which is \$29.0M or 545.1% higher than the
19 2029 planned Base OM&A costs of \$5.3M. The variance is attributable to Nuclear Stations
20 (\$18.2M or 100.0% increase) and Operations and Project Support (\$10.8M or 202.7%
21 increase).

22

23 The reportable variances by category of expense for the Nuclear Stations and Operations and
24 Project Support functional groups are driven by DNNP Unit 1 entering commercial service in
25 October 2030.

26

27 *DNNP Operational Readiness OM&A*

28 Planned OM&A costs in 2030 are \$40.2M, which is \$0.3M or 0.7% higher than the 2029
29 planned OM&A costs of \$40.0M.

30

31 There are no reportable variances during this timeframe.

1 **2031 Plan versus 2030 Plan**

2 *DNNP Facilities Base OM&A*

3 Planned Base OM&A costs in 2031 are \$119.0M, which is \$84.6M or 246.1% higher than the
4 2030 planned Base OM&A costs of \$34.4M. The variance is attributable to Nuclear Stations
5 (\$47.8M or 262.3% increase) and Operations and Project Support (\$36.7M or 227.8%
6 increase).

7

8 The reportable variances by category of expense for the Nuclear Stations and Operations and
9 Project Support functional groups are driven by a full year of commercial operation for DNNP
10 Unit 1 compared to less than three months of commercial operation in 2030.

11

12 *DNNP Operational Readiness OM&A*

13 Planned OM&A costs in 2031 are \$0.0M, which is \$40.2M or 100.0% lower than the 2030
14 planned OM&A costs of \$40.2M.

15

16 The reportable variance is driven by conclusion of operational readiness for DNNP Unit 1.

Table 1a
 Comparison of OPG Nuclear Facilities Base OM&A by Function (\$M)^{1, 2}

Line No.	Business Unit	2020 OEB Approved	(c)-(a) Change	2020 Actual	(g)-(c) Change	2021 OEB Approved	(q)-(e) Change	2021 Actual	(k)-(g) Change	2022 OEB Approved	(k)-(i) Change	2022 Actual
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
Nuclear Stations												
1	Operations & Maintenance	667.8	(22.3)	645.5	(5.2)	670.1	(29.9)	640.2	(8.2)	645.9	(13.8)	632.1
2	- Operations	226.8	(12.0)	214.8	(5.8)	222.5	(13.5)	208.9	(6.8)	206.5	(4.4)	202.1
3	- Maintenance	441.0	(10.3)	430.7	0.6	447.6	(16.3)	431.3	(1.4)	439.3	(9.3)	430.0
4	Work Management	40.0	(5.9)	34.1	1.0	37.8	(2.8)	35.0	5.7	33.7	7.0	40.8
5	Site and Support Services	104.5	(11.6)	93.0	12.6	107.6	(2.0)	105.6	(2.2)	100.2	3.2	103.4
6	Tritium Removal Facility	12.2	(0.8)	11.4	3.0	12.5	1.9	14.4	(3.0)	14.5	(3.1)	11.4
7	Total Nuclear Stations	824.5	(40.7)	783.9	11.4	828.0	(32.8)	795.2	(7.6)	794.2	(6.6)	787.7
Operations and Project Support												
8	Enterprise Engineering	236.8	(19.6)	217.2	(7.9)	244.5	(35.3)	209.3	6.4	231.1	(15.4)	215.7
9	Integrated Fleet Management	185.0	3.2	188.2	(9.2)	188.5	(9.5)	178.9	(5.4)	190.3	(16.8)	173.6
10	Environment, Health & Safety	15.3	2.7	18.0	3.9	15.9	5.9	21.9	(5.9)	13.4	2.6	16.0
11	Enterprise Projects	14.9	0.6	15.5	1.4	13.1	3.8	16.9	0.8	14.9	2.9	17.7
12	Other Support	68.7	(0.0)	68.7	3.4	67.6	4.5	72.1	(4.7)	73.6	(6.2)	67.4
13	Low and Intermediate Level Waste	5.6	1.3	6.9	(0.2)	5.8	0.9	6.7	9.5	4.8	11.5	16.3
14	Total Operations and Project Support	526.3	(11.9)	514.4	(8.7)	535.4	(29.7)	505.8	0.9	528.0	(21.4)	506.6
CRVA Eligible Costs												
15	Fuel Channel Life Extension Project	6.0	1.8	7.8	0.9	6.0	2.7	8.7	1.0	5.9	3.8	9.7
16	Pickering Extended Operations	0.0	7.2	7.2	(1.8)	0.0	5.4	5.4	(5.4)	0.0	0.0	0.0
17	Pickering Optimization of Shutdown	0.0	0.5	0.5	0.3	0.0	0.9	0.9	0.8	5.8	(4.2)	1.7
18	Total CRVA Eligible Costs	6.0	9.6	15.6	(0.6)	6.0	9.0	15.0	(3.6)	11.7	(0.3)	11.4
19	Total Base OM&A Before Adjustments	1,356.8	(43.0)	1,313.9	2.1	1,369.5	(53.5)	1,316.0	(10.3)	1,334.0	(28.3)	1,305.7
20	OEB/Settlement Adjustments^{3,4}	(56.1)	56.1	0.0	0.0	(56.2)	56.2	0.0	0.0	(40.0)	40.0	0.0
21	Total Base OM&A Including Adjustments	1,300.7	13.2	1,313.9	2.1	1,313.2	2.8	1,316.0	(10.3)	1,294.0	11.7	1,305.7

Line No.	Business Unit	2022 Actual	(e)-(a) Change	2023 OEB Approved	(e)-(c) Change	2023 Actual	(i)-(e) Change	2024 OEB Approved	(i)-(g) Change	2024 Actual	(k)-(i) Change	2025 Budget
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
Nuclear Stations												
22	Operations & Maintenance	632.1	60.5	638.9	53.7	692.5	(5.4)	630.0	57.2	687.2	(78.7)	608.5
23	- Operations	202.1	11.7	195.0	18.7	213.8	11.1	194.3	30.5	224.8	(27.1)	197.8
24	- Maintenance	430.0	48.8	443.8	34.9	478.8	(16.4)	435.7	26.7	462.4	(51.6)	410.7
25	Work Management	40.8	(9.6)	34.0	(2.8)	31.2	5.2	29.9	6.5	36.4	(2.6)	33.8
26	Site and Support Services	103.4	22.6	100.7	25.3	126.0	(31.0)	96.3	(1.4)	94.9	(7.9)	87.0
27	Tritium Removal Facility	11.4	0.5	14.7	(2.8)	11.9	(0.2)	15.1	(3.4)	11.7	1.7	13.4
28	Total Nuclear Stations	787.7	73.9	788.2	73.3	861.6	(31.4)	771.3	58.9	830.2	(87.5)	742.7
Operations and Project Support												
29	Enterprise Engineering	215.7	26.7	229.8	12.7	242.5	10.5	236.0	16.9	253.0	(13.5)	239.4
30	Integrated Fleet Management	173.6	15.0	192.2	(3.6)	188.5	33.3	189.5	32.4	221.9	(18.5)	203.3
31	Environment, Health & Safety	16.0	(2.1)	13.4	0.5	13.9	(0.4)	13.2	0.3	13.5	(1.7)	11.8
32	Enterprise Projects	17.7	(1.6)	14.1	2.1	16.1	0.3	13.5	2.9	16.4	(3.3)	13.2
33	Other Support	67.4	14.1	74.8	6.6	81.5	2.6	76.5	7.6	84.1	(1.2)	82.9
34	Low and Intermediate Level Waste	16.3	(4.0)	5.1	7.2	12.3	(0.8)	5.5	6.0	11.5	(2.3)	9.2
35	Total Operations and Project Support	506.6	48.2	529.4	25.4	554.8	45.6	534.2	66.2	600.4	(40.8)	559.8
CRVA Eligible Costs												
36	Fuel Channel Life Extension Project	9.7	(8.6)	4.3	(3.1)	1.1	(1.3)	0.8	(0.9)	(0.1)	0.6	0.4
37	Pickering Extended Operations	0.0	(0.0)	0.0	0.0	0.0	(0.0)	0.0	0.0	0.0	(0.0)	0.0
38	Optimization of Pickering Shutdown	1.7	(0.3)	2.7	(1.3)	1.4	1.6	4.8	(1.8)	3.0	(3.0)	0.0
39	Total CRVA Eligible Costs	11.4	(8.9)	7.0	(4.4)	2.5	0.3	5.6	(2.8)	2.8	(2.4)	0.4
40	Total Base OM&A Before Adjustments	1,305.7	113.2	1,324.6	94.3	1,418.9	14.6	1,311.2	122.3	1,433.5	(130.5)	1,303.0
41	OEB/Settlement Adjustments^{3,4}	(39.7)	0.0	(39.7)	39.7	0.0	0.0	(39.3)	39.3	0.0	0.0	0.0
42	Total Base OM&A Including Adjustments	1,305.7	113.2	1,284.8	134.0	1,418.9	14.6	1,271.8	161.6	1,433.5	(130.5)	1,303.0

Notes:

- Bold italic font indicates variance of 10% or greater.
- All 2020-2026 amounts (within the Actual, Budget, and OEB Approved columns) have been restated for Nuclear organizational changes and transfers from Corporate Support (See Ex. A1-4-1, Att. 2 and Ex. F2-2-1, Att. 1).
- OEB Adjustments to approved values in 2020-2021 include the annual disallowance of \$25M for nuclear base OM&A (EB-2016-0152 Decision and Order, p. 55) and the annual \$30M disallowed in compensation (EB-2016-0152 Decision and Order, p. 84). OEB adjusted values also include adjustments to low and intermediate level waste management variable expenses (EB-2016-0152 Payment Amounts Order, App. A Table 1a/2a/3a/4a/5a, note 5b and per Ex. N1).
- Per EB-2020-0290 OEB Decision and Order, Schedule A, p. 25, nuclear base OM&A costs are reduced by 3% per year over the 2022-2026 period.

Table 1b
 Comparison of OPG Nuclear Facilities Base OM&A by Function (\$M)^{1,2}

Line No.	Business Unit	2025 OEB Approved	(c)-(a) Change	2025 Budget	(g)-(c) Change	2026 OEB Approved	(g)-(e) Change	2026 Budget	(i)-(g) Change	2027 Plan	(k)-(i) Change	2028 Plan
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
Nuclear Stations												
43	Operations & Maintenance	527.8	80.7	608.5	(51.5)	290.0	267.0	557.0	(229.1)	327.8	16.0	343.9
44	- Operations	150.2	47.5	197.8	(19.4)	91.1	87.2	178.4	(61.1)	117.2	6.0	123.2
45	- Maintenance	377.6	33.1	410.7	(32.1)	198.8	179.8	378.6	(168.0)	210.6	10.0	220.6
46	Work Management	27.4	6.5	33.8	(5.0)	16.3	12.6	28.9	3.8	32.7	(13.7)	18.9
47	Site and Support Services	94.0	(7.0)	87.0	(7.7)	37.0	42.4	79.4	(37.2)	42.2	1.7	43.8
48	Tritium Removal Facility	14.2	(0.8)	13.4	0.5	14.5	(0.6)	13.8	0.6	14.4	0.4	14.8
49	Total Nuclear Stations	663.4	79.4	742.7	(63.7)	357.7	321.3	679.0	(261.9)	417.1	4.4	421.4
Operations and Project Support												
50	Enterprise Engineering	187.9	51.6	239.4	(21.6)	112.1	105.7	217.8	(53.9)	164.0	0.8	164.8
51	Integrated Fleet Management	130.2	73.1	203.3	(3.0)	82.0	118.2	200.3	(34.5)	165.8	3.7	169.5
52	Environment, Health & Safety	12.9	(1.0)	11.8	2.4	8.0	6.3	14.3	(0.2)	14.0	0.3	14.3
53	Enterprise Projects	11.3	1.9	13.2	(3.7)	9.9	(0.5)	9.5	(3.1)	6.4	0.5	6.9
54	Other Support	69.2	13.7	82.9	(3.3)	48.4	31.2	79.6	(10.1)	69.5	0.8	70.3
55	Low and Intermediate Level Waste	4.8	4.4	9.2	0.5	3.5	6.2	9.7	(6.1)	3.6	(0.2)	3.4
56	Total Operations and Project Support	416.2	143.6	559.8	(28.6)	264.0	267.2	531.2	(107.9)	423.3	5.9	429.2
CRVA Eligible Costs												
57	Fuel Channel Life Extension Project	0.4	0.0	0.4	(0.4)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	Pickering Extended Operations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	Optimization of Pickering Shutdown	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	Total CRVA Eligible Costs	0.4	0.0	0.4	(0.4)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	Total Base OM&A Before Adjustments	1,080.0	223.0	1,303.0	(92.8)	621.7	588.5	1,210.2	(369.8)	840.4	10.3	850.7
62	OEB/Settlement Adjustments ³	(32.4)	32.4		0.0	(18.6)	18.6		0.0		0.0	
63	Total Base OM&A Including Adjustments	1,047.6	255.4	1,303.0	(92.8)	603.0	607.2	1,210.2	(369.8)	840.4	10.3	850.7

Line No.	Business Unit	2028 Plan	(c)-(a) Change	2029 Plan	(e)-(c) Change	2030 Plan	(g)-(e) Change	2031 Plan
		(a)	(b)	(c)	(d)	(e)	(f)	(g)
Nuclear Stations								
64	Operations & Maintenance	343.9	22.3	366.1	4.2	370.3	183.4	553.7
65	- Operations	123.2	12.8	136.0	2.7	138.7	57.0	195.7
66	- Maintenance	220.6	9.5	230.1	1.5	231.6	126.3	358.0
67	Work Management	18.9	6.2	25.2	(2.7)	22.5	7.7	30.2
68	Site and Support Services	43.8	3.8	47.6	5.9	53.5	49.4	102.9
69	Tritium Removal Facility	14.8	0.9	15.7	0.2	15.8	0.7	16.5
70	Total Nuclear Stations	421.4	33.1	454.5	7.5	462.1	241.2	703.3
Operations and Project Support								
71	Enterprise Engineering	164.8	9.1	173.9	3.2	177.0	40.6	217.6
72	Integrated Fleet Management	169.5	6.6	176.1	7.1	183.1	22.1	205.2
73	Environment, Health & Safety	14.3	(0.6)	13.7	0.9	14.6	1.0	15.6
74	Enterprise Projects	6.9	(0.4)	6.5	(0.1)	6.4	0.6	7.0
75	Other Support	70.3	0.9	71.2	(0.3)	70.9	1.8	72.7
76	Low and Intermediate Level Waste	3.4	(0.8)	2.6	0.1	2.7	1.4	4.1
77	Total Operations and Project Support	429.2	14.7	443.9	10.8	454.7	67.4	522.2
CRVA Eligible Costs								
78	Fuel Channel Life Extension Project	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	Pickering Extended Operations	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	Optimization of Pickering Shutdown	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	Total CRVA Eligible Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	Total Base OM&A	850.7	47.8	898.4	18.4	916.8	308.6	1,225.4

Notes:

- 1 Bold italic font indicates variance of 10% or greater.
- 2 All 2020-2026 amounts (within the Actual, Budget, and OEB Approved columns) have been restated for Nuclear organizational changes and transfers from Corporate Support (See Ex. A1-4-1, Att.2 and Ex. F2-2-1, Att. 1).
- 3 Per EB-2020-0290 OEB Decision and Order, Schedule A, p. 25, nuclear base OM&A costs are reduced by 3% per year over the 2022-2026 period.

Numbers may not add due to rounding.

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 EB-2025-0297
 Exhibit F2
 Tab 2
 Schedule 2
 Table 1c

Table 1c
 Comparison of Darlington New Nuclear Program (DNNP) Facilities Base OM&A by Function (\$M)¹

Line No.	Business Unit	2026 Budget	(c)-(a) Change	2027 Plan	(e)-(c) Change	2028 Plan	(g)-(e) Change	2029 Plan	(i)-(g) Change	2030 Plan	(k)-(i) Change	2031 Plan
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	Nuclear Stations											
1	Operations & Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0	29.6	35.6
2	- Operations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	18.8	22.0
3	- Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	10.8	13.6
4	Work Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	2.6	3.0
5	Site and Support Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	11.8	15.7	27.5
6	Tritium Removal Facility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	Total Nuclear Stations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2	18.2	47.8	66.1
	Operations and Project Support											
8	Enterprise Engineering	0.4	0.0	0.5	0.1	0.5	0.0	0.6	4.4	5.0	11.6	16.6
9	Integrated Fleet Management	0.1	0.0	0.1	0.0	0.1	0.0	0.2	4.5	4.7	20.5	25.2
10	Environment, Health & Safety	0.5	0.2	0.7	0.2	0.8	0.1	0.9	0.1	1.0	(0.1)	0.9
11	Enterprise Projects	1.3	(0.2)	1.1	0.2	1.3	0.2	1.5	0.2	1.6	(0.3)	1.4
12	Other Support	1.6	0.4	2.0	0.3	2.2	0.0	2.3	1.5	3.8	5.0	8.8
13	Low and Intermediate Level Waste	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	Total Operations and Project Support	3.9	0.5	4.3	0.7	5.0	0.3	5.3	10.8	16.1	36.7	52.9
	CRVA Eligible Costs											
15	Fuel Channel Life Extension Project	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	Pickering Extended Operations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	Optimization of Pickering Shutdown	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	Total CRVA Eligible Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	Total Base OM&A Before Adjustments	3.9	0.5	4.3	0.7	5.0	0.3	5.3	29.0	34.4	84.6	119.0
20	OEB/Settlement Adjustments		0.0		0.0		0.0		0.0		0.0	
21	Total Base OM&A Including Adjustments	3.9	0.5	4.3	0.7	5.0	0.3	5.3	29.0	34.4	84.6	119.0
22	DNNP Operational Readiness	28.8	17.1	45.9	0.4	46.3	(6.4)	40.0	0.3	40.2	(40.2)	0.0

Notes:

1 Bold italic font indicates variance of 10% or greater.