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UNDERTAKING JT3.5

<u>Undertaking</u>

To provide an updated list of projects classified as used and useful now rather than part of the Darlington Refurbishment Project

<u>Response</u>

9 10 **Part A**

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11 Please refer to the attached tables:

Attachment A – The attached table includes a detailed listing of Projects included in D2-2-2,
Table 1 and includes annual In Service and OM&A expenditures. The amounts included in D2-2-2
Table 1 are based on the forecasted amounts as of May 2014 and may not align with the latest
OPG approved Business Case.

Attachment B – The attached table includes detailed descriptions of the used and useful partial in
 service additions represented by the in-service amounts found in Attachment A.

Part B

The following summarizes the basis for used and useful of all of the assets to be placed in-service in the rate period per Exhibit D2-2-2.

Darlington Operations Support Building (OSB) Refurbishment will be used and
 useful in providing office space for operations support staff, technical services, security
 systems, IT, telephone network hub etc. to the station when it is placed in service to
 electricity ratepayers in 2015.

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31 D2O (Heavy Water) Storage Facility will be used and useful for storing heavy water 32 and for managing heavy water drums when it is placed in service as the first unit is 33 dewatered prior to refurbishment. Partial in-service amounts will be immediately used 34 and useful as these services are required for ongoing TRF and station operations.

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Darlington (DN) Auxiliary Heating System will be used and useful in providing reliable
 back-up steam to the station when it is placed in service in 2015. Back up steam is
 needed to prevent potential equipment damage due to freezing when all four Darlington
 units are shut down.

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Water and Sewer became used and useful as each phase was placed in service in
2012, 2013, and 2014 in providing a reliable domestic and fire water supply to the station
and replacing the existing sewage services to the station.

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Electrical Power Distribution System will be used and useful in providing reliable
 electrical power to the existing and new buildings at the station as each phase is placed
 in service in 2013 and 2014. It will replace the existing system which has degraded over
 time.

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50 Darlington Energy Complex became used and useful when it was placed in service in

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1 2013 in providing space for training including reactor mock-up, warehouse space for

2 tooling and materials, and office space. Additional in-service amounts in 2013 and 2014

include the surrounding site servicing including roads and street-scaping.

Re-tube and Feeder Replacement (RFR) Island Support Annex will become used and useful when it was placed in service in 2016 and used by Refurbishment staff to execute the Refurbishment project and in support of Darlington online and outage maintenance activities.

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Other Campus Plan Projects will become used and useful once placed in-service and used to support station projects and outages, as well as refurbishment work. The GM facility is currently being used by Station staff due to the fact that the Operations Support Building is being refurbished as well as nuclear project staff working on Refurbishment and non-refurbishment projects. Other facilities, including Salt Shed, parking improvements, and contractor facility will support station needs, including outages and Nuclear Portfolio projects.

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Safety Improvement Opportunities are projects that OPG must complete prior to the first unit refurbishment as part of the Environmental Assessment for the Refurbishment and continued operations of Darlington and will become used and useful by the station once placed in-service as these are safety enhancements to the existing station. These projects include:

- Third Emergency Power Generator will be used and useful in meeting an EA
 commitment to CNSC by providing improved availability and reliability of the
 Emergency Power System at the station when it is placed in service in 2015. It
 will be able to withstand a higher level seismic event than the Design Basis
 Earthquake.
 - 2. **Containment Filtered Venting System** will be used and useful once placed in service in 2015. Partial in-service amounts of \$2M will be used and useful immediately as it allows for a controlled, filtered release of airborne activity to the environment from Containment to prevent failure from over-pressurization during severe accidents.
 - 3. **Powerhouse Steam Venting System** will be used and useful in meeting the safety improvement EA commitment to CNSC when it is placed in service in 2015. It will improve the reliability of powerhouse venting to prevent damage to safety related systems, structures, and components in the event of piping failure.
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 4. Shield Tank Over Pressure Protection will be used and useful once placed in 39
 39 service in 2015. Partial in-service amounts of \$3.5M will be used and useful 40 immediately as it prevents shield tank failure from over-pressurization under 41 severe Beyond Design Bases Accidents (BDBA).
- 5. Emergency Service Water Buried Services will be used and useful once
 placed in service in 2015. The installation of a parallel buried line of piping will
 continue to supply cooling water to selected safety related systems when normal
 water supplies are unavailable for the removal of decay heat and preventation of
 subsequent process failure, which may result in release of raidiation to the public.
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48 **Other Miscellaneous Station Modification** includes services to island the unit to

- enable refurbishment, including Fuel Bay Heat Exchange Replacement and Inpection 1
- Facility, Emergency Service Water Pipe and Component Replacement, Negative Pressure Containment Modifications, Heavy Water Management System Modifications,
- 2 3 4 and Primary Heat Transport Pump Motor Replacement. These will be placed in-service
- 5 when complete.
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