

April 4, 2014

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Project ID: 10-60004

Dr. Stella Swanson
Chair, Joint Review Panel
Deep Geologic Repository Project

c/o Canadian Nuclear Safety Commission
280 Slater Street
Ottawa, Ontario
K1P 5S9

Dear Dr. Swanson:

**Deep Geologic Repository Project for Low and Intermediate Level Waste –
Submission of Response to Information Request EIS-12a-512**

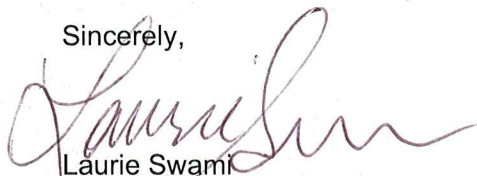
The purpose of this letter is to provide OPG's response to Information Request (IR) EIS-12a-512 from IR Package #12a (Reference 1).

Attachment 1 provides the response to the Information Request.

Attachment 2 includes an updated Tracking Table showing how all submissions to date, including those for IR Packages #12 and #12a, link to various sections in the documents submitted on April 14, 2011 (References 2 and 3), as committed for submission by April 4, 2014 in Reference 4.

If you have questions on the above, please contact Allan Webster at (905) 623-6670, ext. 3326.

Sincerely,



Laurie Swami
Vice President, Nuclear Services
Ontario Power Generation

Attach.

cc. Dr. J. Archibald – Joint Review Panel c/o CNSC (Ottawa)
Dr. G. Muecke – Joint Review Panel c/o CNSC (Ottawa)
P. Elder – CNSC (Ottawa)
D. Wilson – NWMO (Toronto)

- References:
1. JRP letter from Dr. Stella Swanson to Laurie Swami, "Information Request Package #12a from the Joint Review Panel", February 4, 2014, CD# 00216-CORR-00531-00222
 2. OPG letter from Albert Sweetnam to JRP Chair, "Submission of Information in Support of OPG's Licence Application for a Deep Geologic Repository for Low and Intermediate Level Waste", April 14, 2011, CD# 00216-CORR-00531-00090
 3. OPG letter from Albert Sweetnam to JRP Chair, "Submission of an Environmental Impact Statement for a Deep Geologic Repository for Low and Intermediate Level Waste", April 14, 2011, CD# 00216-CORR-00531-00091
 4. OPG letter from Allan Webster to Dr. Stella Swanson, "Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Response to Information Request EIS-12-512", January 22, 2014, CD# 00216-CORR-00531-00219

ATTACHMENT 1

Attachment to OPG letter, Allan Webster to Dr. Stella Swanson, "Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Response to Information Request EIS-12a-512"

April 4, 2014

CD#: 00216-CORR-00531-00227

**OPG Response to Information Request EIS-12a-512
from Joint Review Panel**

OPG Response to Information Request EIS-12a-512 from Joint Review Panel

IR#	EIS Guidelines Section	Information Request and Response
EIS 12a-512	<ul style="list-style-type: none"> • Section 14, Cumulative Effects 	<p>Information Request:</p> <p>a) <i>Attachment A, Section 3 of the IR response relates only to waste conditions. Additional assessment of the impacts of extended operation of the repository on underground safety is required. OPG is to provide a discussion of excavation safety implications including the integrity of occupied excavations. For example, the expansion of the repository to accommodate decommissioning waste would extend the underground repository operational period which may impact the effectiveness of the planned support measures (such as rock bolts, shotcrete and other surface reinforcement tools) due to processes such as corrosion. Consideration of any changes to the frequency and extent of maintenance or replacement of support measures may also be required. Describe any underground safety-related strategies for possible future expansion that OPG has undertaken to incorporate during the initial development of the DGR. OPG referred to incorporating lessons learned from international waste repositories during the hearing (Transcript Volume 15: October 3, 2013, p. 177, l. 16), as well as in IR EIS-08-366 (“concurrent room excavation and waste emplacement, versus having these activities sequential is an important design and operational consideration”).</i></p> <p>b) <i>Provide further clarification regarding Short-Term and Long-Term Safety Implications of expanding the DGR.</i></p> <p><i>This information request arises from the need to determine whether factoring decommissioning waste into plans for the construction and the operation of the DGR would affect the current safety case (without decommissioning waste). Explain whether and how OPG would plan for and implement longer-term methods and measures to ensure underground safety, environmental protection, and safety of the public from the beginning of the project, illustrating a holistic understanding of the fundamental requirements for safety and environmental protection, should the project evolve.</i></p> <p><i>Examples of issues to consider during holistic planning (in addition to the two issues explicitly addressed below) include:</i></p> <ul style="list-style-type: none"> • <i>contingencies for unexpected variation in the lateral and vertical extent of the Cobourg Formation;</i> • <i>sequencing and configuration of emplacement rooms in order to optimize efficiency, safety and environmental protection (i.e., planning backwards from the inclusion of all decommissioning waste and looking for areas of risk that would require a new or enhanced mitigation approach, as well as opportunities for efficiency, such as in the timing of placement of certain types of waste);</i> • <i>the capacity that would ultimately be required for the stormwater management pond, and any associated impacts to wetlands; include consideration of handling and safe long-term disposal of solids from the bottom of the pond; and</i>

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		<ul style="list-style-type: none"> • <i>air quality mitigation measures (contingencies that may be required for ventilation shaft emissions), given the nature of decommissioning wastes.</i> <p><i>The response to IR EIS-12-512 states that for Disruptive Scenarios, the impact remains within the risk criterion of 10-5 per year. Clarify the relative degree to which the criterion would be met for each disruptive scenario. It is understood that the clarification would be based upon a preliminary, qualitative assessment; however, it should be possible to provide an order of magnitude estimate of how close the disruptive scenarios may be to the risk criterion. The focus should be on the relative incremental risk created by inclusion of decommissioning waste. Provide an evaluation of new sources of risk (either the hazards themselves or changes in the likelihood of those hazards) that may be introduced by the inclusion of decommissioning waste.</i></p> <p><i>Provide further details regarding the implications of greater gas generation potential resulting from the increased volume of decommissioning waste. Provide information regarding the relative decrease in gas production potential that could be achieved through volume reduction, decontamination and recycling, and then use this information to estimate how much increased space would be required to accommodate predicted gas generation. It is understood that these additional details would be preliminary; however, it should be possible to provide the assumptions used to support the estimates of relative decrease of gas production potential as well as the estimates of additional space that may be necessary. Comment on how adding space to the repository would affect the overall design, integrity, and planned sequencing of the repository.</i></p> <p><i>c) Provide a graphic representation of the relative timelines of all phases of the conceptual expanded DGR to illustrate how these phases may interact and/or overlap with the phases of the DGR as described in the EIS. This graphic could be a modification of Figure 4.2-1 of the EIS. For additional clarity, also provide a version of Figure 2 from the response to IR EIS-12-512 (expansion layout) that shows the sequencing of panel and closure wall construction, waste emplacement, and temporary and/or permanent closures.</i></p> <p>Context:</p> <p><i>The IR follow up responses are required to add to the information provided in Attachment A, Section 3 of the OPG response to IR EIS-12-512 under the subheadings “Implications of Expansion on DGR Safety – Operational Safety Implications” and “Implications of Expansion on DGR Safety – Long Term Safety Implication”:</i></p> <p>OPG Response:</p> <p>The responses are provided below.</p> <p><u>(a) Safety Impacts of Extended Repository Operation</u></p> <p>Ontario Power Generation (OPG) is seeking regulatory approval for a DGR site preparation and construction licence.</p>

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		<p>The proposed DGR has a capacity of approximately 200,000 m³ (packaged volume) for operational and refurbishment low & intermediate level waste (L&ILW). Once constructed, the repository is expected to receive these wastes over a nominal 40 year time period. However, the DGR facility design has taken into consideration the potential to operate beyond this timeframe by ensuring "difficult-to-replace" structures (e.g. shaft headframes, concrete shaft liners) have a nominal 100-year design life. All other structures, systems, equipment and components of the DGR will have shorter design lives (e.g. designed to National Building Code of Canada) but have considered the need for refurbishment and/or replacement.</p> <p>The expansion of the repository to accommodate decommissioning waste would extend the repository operational period from that currently proposed. However, the expansion would not adversely impact the effectiveness of the planned underground excavations and support measures, for example, due to processes such as corrosion. Excavations have been designed for a nominal 100-year life as there is the need to consider potential extended monitoring requirements and facility decommissioning following the operational period.</p> <p>Inherent in the design is the requirement for long-term stability of the repository. This is reflected through the selection of pillar widths between emplacement rooms and adjacent panels. Also, during the operating phase, the design allows for closure of waste filled rooms through the use of closure walls or plugs. Once closed in this manner, the panel or sections of emplacement rooms are isolated from possible expansion activities.</p> <p>To ensure the integrity of occupied underground spaces through all phases of development and operation, the following ground support installation, inspection, testing and maintenance measures have been considered:</p> <ol style="list-style-type: none"> 1. Double corrosion protection for rock bolts. Bolt heads would be protected by grease caps before they are covered with shotcrete to facilitate future inspection and testing of bolts. 2. Cable bolts installed with double corrosion system such as flow-filled epoxy-coated strands or equivalent to minimize the risk of corrosion. Cathode protection systems could also be installed on all cable bolts to provide redundant corrosion protection. 3. At time of installation, selected bolts will be proof-tested and performance-tested as per recognized standard or procedure (e.g. ASTM D4435-13, BS8081:1989 or equivalent) to confirm that the bolts have been installed in accordance with specifications. If there is evidence of improper bolt installation, the load capacity of the defective bolt will be degraded and additional bolts will be installed and tested. 4. During operations there will be on-going visual inspection of the ground support systems. After approximately 20 years of operation (or sooner if visual inspection indicates problem bolts), there will be non-destructive testing of selected rock bolts and cable bolts to confirm integrity of bolts. Systematic testing would be performed in accordance with a recognized standard or procedure. 5. Rock deformation/movement (e.g. by extensometers and other instruments) will be performed throughout the

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		<p>operations phase as per the Geoscientific Verification Plan (NWMO 2014) to detect excessive rock deformation and possible overloading of rock bolts or cable bolts. Additional rock support will be installed, as required, in the event that rock deformation exceeds a predefined allowable amount of deformation.</p> <p>6. In underground areas still in service or occupied after a nominal 60 years, rock support systems would be replaced by installing new rock bolts/cable bolts as needed. The new bolts would be installed, inspected, tested and maintained in a similar manner as described above.</p> <p><u>(b) Short-Term and Long-Term Safety Implications of Expanded Repository</u></p> <p>The response is provided in three sub-sections: (b.1) holistic planning; (b.2) disruptive scenarios; and (b.3) gas generation.</p> <p>(b.1) Holistic Planning</p> <p>OPG has applied a holistic planning approach to the DGR project since the conceptual design phase. As detailed in the original EIS-12-512 response (OPG 2014), several key construction and operational aspects have been assessed for potential impacts of an expanded DGR, or the need to increase the proposed facility operational life for extended DGR monitoring and decommissioning.</p> <p>The characteristics of decommissioning waste will be assessed in detail closer to the time of decommissioning, and in advance of a decision to seek an expansion licence. As discussed in Section (c) below, this will be decades in the future. However, decommissioning waste packages are currently expected to meet the current waste acceptance criteria for the DGR. As such, outside of increasing the operational timeframe, the DGR could operate in a very similar manner to that currently proposed. The potential impacts to both the construction and operational periods, as described in EIS-12-512 (OPG 2014), took this into account.</p> <p>The following provides additional information specific to the items identified for consideration in the information request:</p> <ul style="list-style-type: none"> • <i>contingencies for unexpected variation in the lateral and vertical extent of the Cobourg Formation;</i> <p>The confidence in the Cobourg Formation for the proposed DGR has been presented based on a detailed site characterization program. This confidence will be further supported and verified through the development of the DGR. The proposed conceptual configuration of an expanded DGR shown in Figure 2 of EIS-12-512 (OPG 2014) considers features of the Cobourg Formation (e.g. dip, thickness, principle stress direction) as well as features of the proposed design (e.g. shaft locations and common services, ventilation, panel access) to minimize additional excavation and infrastructure. As indicated in Section (c) and the initial response to EIS-12-512 (OPG 2014), additional site characterization to the same level of detail as with the current application will be required to support the decision to proceed with the expansion of the DGR for decommissioning waste. To be specific, variations in the</p>

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		<p>lateral and vertical extent of the Cobourg Formation would be identified and evaluated as part of the future decision to proceed.</p> <ul style="list-style-type: none"> • <i>sequencing and configuration of emplacement rooms in order to optimize efficiency, safety and environmental protection (i.e., planning backwards from the inclusion of all decommissioning waste and looking for areas of risk that would require a new or enhanced mitigation approach, as well as opportunities for efficiency, such as in the timing of placement of certain types of waste);</i> <p>Section (c) shows two sequencing illustrations based on the early and late decision options. The exact sequencing of emplacement rooms would be, in part, dependent on the timing of decommissioning. Based on the assumed characteristics of wastes arising from decommissioning, it is not expected that a significant postclosure safety advantage would result from mixing or segregating such wastes from wastes arising from operational and refurbishment activities. The general plan of emplacement aligns with when the wastes become available. Mixed placement of wastes arising from operations and decommissioning within panels would, in such circumstances, be operationally efficient, depending on when an expansion licence might be requested. Should waste from decommissioning be received before Panel 1 is completely filled, it would be practical to place waste in these areas first.</p> <ul style="list-style-type: none"> • <i>the capacity that would ultimately be required for the stormwater management pond, and any associated impacts to wetlands; include consideration of handling and safe long-term disposal of solids from the bottom of the pond; and</i> <p>As discussed in the response to EIS-12-512 (OPG 2014), the potential expansion is not expected to result in the need for additional holding capacity of the stormwater management pond. However, should this be required, there is sufficient space on the site, moving away from the north wetland, to increase the size of the pond. As for the on-going operational management of the pond (i.e. removal of fines from the pond), it is expected that these materials will be retained within the project site or the Bruce nuclear site. Prior to removal, the fines will be sampled, analysed, and should there be a need, appropriate off-site waste management plans developed.</p> <ul style="list-style-type: none"> • <i>air quality mitigation measures (contingencies that may be required for ventilation shaft emissions), given the nature of decommissioning wastes.</i> <p>As described in the response to EIS-12-512 (OPG 2014), the waste types arising from decommissioning are expected to be fundamentally the same as the waste arising from operations and refurbishment, but the amounts of the various wastes and the key radionuclides are expected to be different. However, all waste packages must meet the DGR waste acceptance criteria.</p> <p>Where the wastes are different, such as the potential increased volume of metals, this does not impact the preclosure, or operational considerations of the DGR. Waste package off-gassing during operations is not expected to be materially different than that of operational and refurbishment waste. Air quality requirements and monitoring</p>

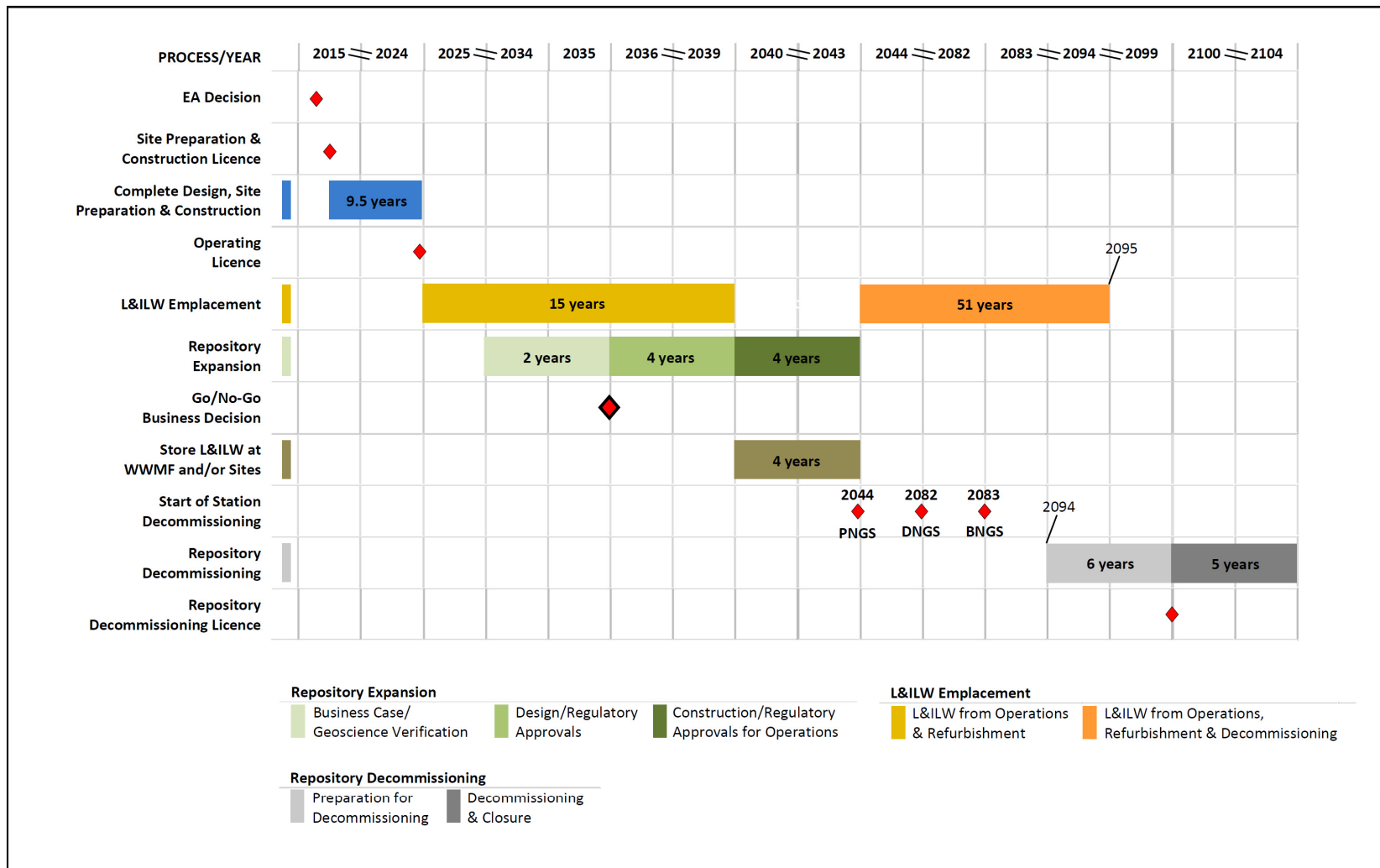
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		<p>are expected to remain the same as for the current proposed DGR, however further assessments will be performed prior to applying for an expansion licence. The current design of the ventilation systems uses the ALARA principles to keep the workers in the fresh air supply and minimizes exposure to workers through the ventilation return tunnels. Waste packages will be required to meet the waste acceptance criteria ensuring that packages are covered and there is no loose contamination.</p> <p>(b.2) Postclosure Disruptive Scenarios</p> <p>The response to IR EIS-12-512 (OPG 2014) provides preliminary, qualitative information on the implications of wastes arising from decommissioning on the Normal Evolution Scenario and on Disruptive Scenarios based on preliminary waste characteristics. This information is preliminary and would need to be further assessed with more detailed waste characterization data for waste arising from decommissioning in advance of a future expansion application. Further information on the Disruptive Scenarios is provided below.</p> <p>Table 1 below summarizes the calculated maximum doses to an adult and the dominant radionuclides (i.e. those that contribute more than 95% of the maximum dose) for each of the Disruptive Scenarios assessed for the DGR containing operational and refurbishment wastes (Section 8.7 of OPG 2011a).</p> <p>Table 1. Calculated Maximum Doses to an Adult for Disruptive Scenarios for Operational and Refurbishment Wastes</p> <table border="1" data-bbox="657 917 1883 1338"> <thead> <tr> <th data-bbox="657 917 1031 998">Disruptive Scenario</th> <th data-bbox="1031 917 1205 998">Calculation Case</th> <th data-bbox="1205 917 1535 998">Maximum Calculated Dose (mSv/a)</th> <th data-bbox="1535 917 1883 998">Dominant Radionuclide</th> </tr> </thead> <tbody> <tr> <td data-bbox="657 998 1031 1096" rowspan="2">Human Intrusion</td> <td data-bbox="1031 998 1205 1047">HI-BC</td> <td data-bbox="1205 998 1535 1047">1</td> <td data-bbox="1535 998 1883 1047">Nb-94</td> </tr> <tr> <td data-bbox="1031 1047 1205 1096">HI-GR2</td> <td data-bbox="1205 1047 1535 1096">30</td> <td data-bbox="1535 1047 1883 1096">C-14</td> </tr> <tr> <td data-bbox="657 1096 1031 1193" rowspan="2">Severe Shaft Seal Failure</td> <td data-bbox="1031 1096 1205 1144">SF-BC</td> <td data-bbox="1205 1096 1535 1144">1</td> <td data-bbox="1535 1096 1883 1144">C-14</td> </tr> <tr> <td data-bbox="1031 1144 1205 1193">SF-ED</td> <td data-bbox="1205 1144 1535 1193">80</td> <td data-bbox="1535 1144 1883 1193">C-14</td> </tr> <tr> <td data-bbox="657 1193 1031 1242">Poorly Sealed Borehole</td> <td data-bbox="1031 1193 1205 1242">BH-BC</td> <td data-bbox="1205 1193 1535 1242">< 10⁻⁶</td> <td data-bbox="1535 1193 1883 1242">Zr-93</td> </tr> <tr> <td data-bbox="657 1242 1031 1338" rowspan="2">Vertical Fault</td> <td data-bbox="1031 1242 1205 1291">VF-BC</td> <td data-bbox="1205 1242 1535 1291">< 10⁻⁶</td> <td data-bbox="1535 1242 1883 1291">Zr-93</td> </tr> <tr> <td data-bbox="1031 1291 1205 1338">VF-AL</td> <td data-bbox="1205 1291 1535 1338">< 10⁻⁶</td> <td data-bbox="1535 1291 1883 1338">Zr-93</td> </tr> </tbody> </table>	Disruptive Scenario	Calculation Case	Maximum Calculated Dose (mSv/a)	Dominant Radionuclide	Human Intrusion	HI-BC	1	Nb-94	HI-GR2	30	C-14	Severe Shaft Seal Failure	SF-BC	1	C-14	SF-ED	80	C-14	Poorly Sealed Borehole	BH-BC	< 10 ⁻⁶	Zr-93	Vertical Fault	VF-BC	< 10 ⁻⁶	Zr-93	VF-AL	< 10 ⁻⁶	Zr-93
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		<p>The waste types from decommissioning are similar to wastes arising from operations and refurbishment, but different in amounts and key radionuclides (see response to EIS-12-512, OPG 2014). The main differences in sources of risk are likely to be from the increased total DGR radionuclide inventory, the increased repository footprint, and the increased gas generation from metal.</p> <p>As noted in the response to EIS-12-512 (OPG 2014), the inventories of Ni-59, Ni-63, Fe-55, Co-60, Cl-36 and Ca-41 are expected to be significantly higher in wastes from decommissioning than in operational and refurbishment wastes. However, as the above table shows, these radionuclides are not significant contributors to the dose impacts from the Disruptive Scenarios and so an increase in their inventory is not expected to increase maximum calculated doses.</p> <p>It is anticipated that the inventory in wastes arising from decommissioning for other radionuclides will be broadly similar to that for operational and refurbishment wastes. Thus, assuming a factor of two increase in the total Zr-93 inventory including decommissioning wastes, the maximum calculated dose for the Poorly Sealed Borehole and Vertical Fault Scenarios can be expected to increase by a factor of two. It would still remain several orders of magnitude below the 1 mSv/a dose criterion for disruptive events for these scenarios.</p> <p>Similarly, based on estimates that the wastes arising from decommissioning are expected to have approximately similar amounts of C-14 and Nb-94 to that in the current licence application for wastes arising from operations and refurbishment (see response to EIS-12-512, OPG 2014), it can be expected that the maximum calculated doses associated with the Human Intrusion and Severe Shaft Seal Failure Scenarios would increase by around a factor of two for an expanded DGR. Thus the 1 mSv/a dose criterion for disruptive events would be exceeded for both these scenarios. Therefore the acceptability of results from these two scenarios needs to take into account their probability and be compared with a reference health risk value of $1 \times 10^{-5}/a$ (Section 8.1.2 of OPG 2011a).</p> <p>For the Human Intrusion Scenario, a probability of occurrence of $10^{-5}/a$ was estimated for the DGR based on the arguments presented in Section 8.7.1.3 of OPG 2011. Increasing the DGR footprint by about a factor of 2 to accommodate L&ILW from decommissioning will also increase the probability of accidental intrusion by the same factor to around $2 \times 10^{-5}/a$. Combined with the increased inventory, the expanded DGR would have around a factor of four increase in risk from Human Intrusion compared to that for the DGR without L&ILW from decommissioning. However, the estimated risks remain more than two orders of magnitude below the reference health risk value of $1 \times 10^{-5}/a$ (e.g. $2 \times 10^{-5}/a$ (probability) \times 60 mSv (dose) \times $5.7 \times 10^{-5}/mSv$ (dose health risk) = $7 \times 10^{-8}/a$ for the HI-GR2 case that assumes the intruding borehole penetrates through the repository and continues into the pressurized Cambrian Formation and is not appropriately sealed).</p> <p>For the Severe Shaft Seal Failure Scenario, the risk would increase by about a factor of two due the increased C-14 inventory for the expanded DGR, assuming the design maintained the same gas pressure basis. However, the risk from this scenario would remain below the reference health risk value of $1 \times 10^{-5}/a$ as long as the likelihood of the scenario remained less than around 0.09 per year ($1 \times 10^{-5}/a$ (risk criterion) / [$2 \text{ mSv (dose)} \times 5.7 \times 10^{-5}/mSv$ (dose health risk)]).</p>

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		<p>The probability of the base case Severe Shaft Seal Failure Scenario (i.e., the 500 m composite shaft seal permeability increasing by a factor of 100 to 1000, combined with a house positioned directly above one of the DGR shafts, can sensibly be reasoned to be much lower than 0.09 per year. For the even more conservative, and less likely, extreme degradation calculation case which assumes the entire shaft seal degrades to a hydraulic conductivity of fine silt/sand, the associate scenario likelihood must be 0.001 or less per year for an expanded DGR ($1 \times 10^{-5}/a$ (risk criterion) / [160 mSv (dose) $\times 5.7 \times 10^{-5}/\text{mSv}$ (dose health risk)]).</p> <p>(b.3) Gas Generation Implications</p> <p>Preliminary projections for wastes arising from decommissioning indicate that these wastes will contain a larger proportion of metals than in the wastes from operations and refurbishment. This would result in more gas generated from anaerobic metal corrosion within the repository in the long-term.</p> <p>The metal would be primarily LLW, and thus likely largely surface contaminated. In principle, the metal can be accommodated by either increasing the excavated volume of the repository, or alternatively by disposing the LLW metal in a surface disposal facility. However the preferred option would be to minimize the amount of metal through decontamination and recycling, and then placement of the remaining amount in an expanded DGR.</p> <p>For example, based on preliminary estimates, separation of the clean carbon steel from steam generators could reduce the steam generator metal inventory by as much as 90%. Also, replacing all the metal containers with concrete containers would reduce the decommissioning metal inventory by about 10%. Emerging decommissioning techniques are showing good potential, with some suppliers suggesting 90% metal decontamination is achievable. Since an OPG decision to emplace decommissioning waste into the DGR would not be made until 20-40 years from now (see c) below), it is reasonable to assume that advancement in technology will contribute to a meaningful reduction in the large volume of the LLW metals currently anticipated to result from decommissioning activities. Therefore the design, integrity and sequencing based on a doubling of the repository capacity, as outlined in the EIS and in the response to EIS-12-512, remains a reasonable conceptual basis.</p> <p>(c) Relative Timelines</p> <p>For clarity of the relative range of timelines associated with potential DGR expansion, OPG is providing Figures 1 and 2 in a similar format to that of EIS Figure 4.2-1 (OPG 2011b). However, Figures 1 and 2 reflect the latest assumptions about key near-term milestones in the DGR project. These figures are intended to illustrate the large range in time in which OPG may make the business decision, if necessary, to expand the DGR to accommodate additional volumes of L&ILW.</p> <p>Note that similar to the original Figure 4.2-1, the timescale across the top of each figure is truncated as necessary to best illustrate the relationship and sequence of the assumed activities with the early and late scenarios provided.</p>

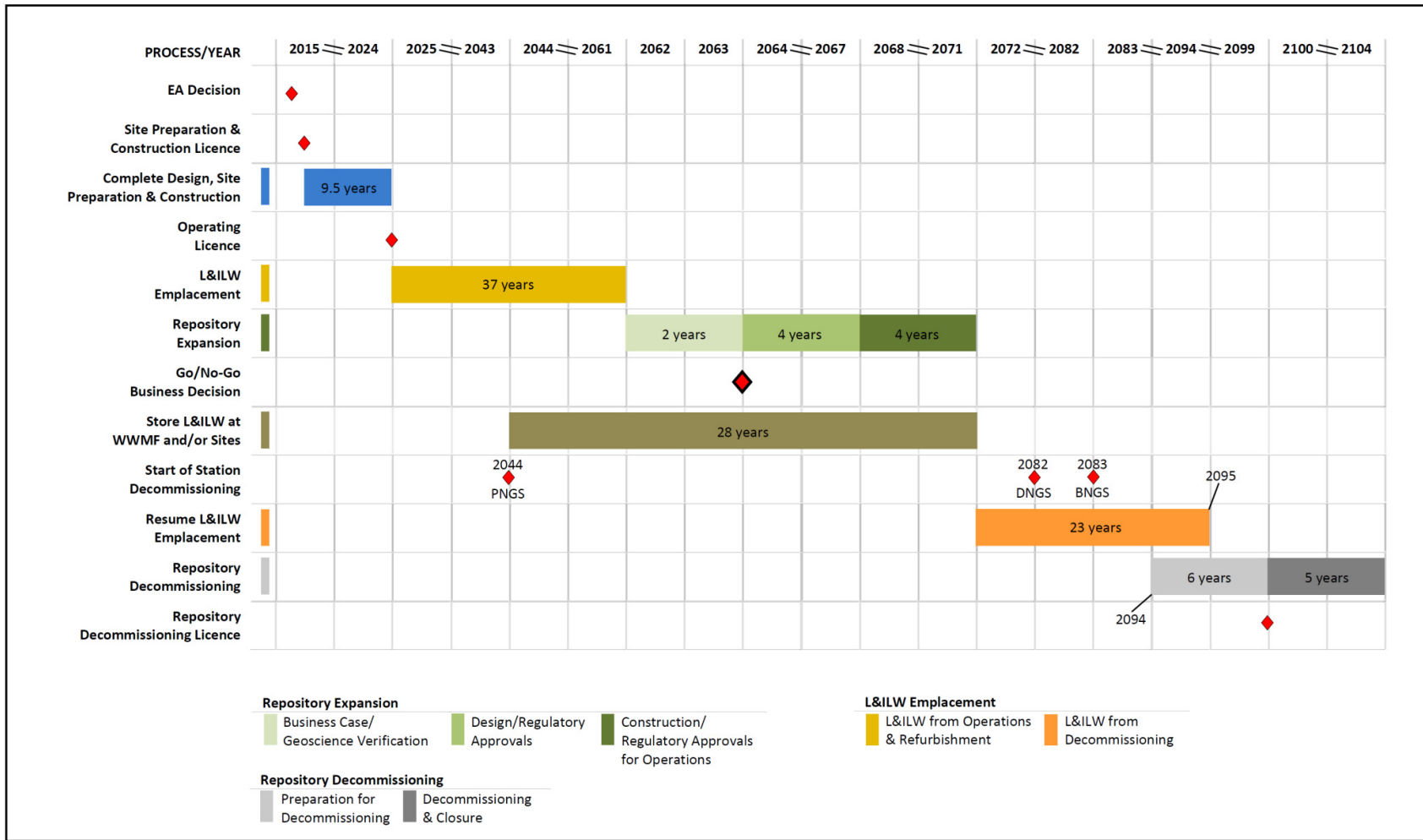
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		<p>Figure 1 illustrates an early scenario where an OPG decision to expand the DGR is made near the end of 2035. Assuming that it would take 4 years for the design/regulatory approvals process and 4 years for construction, the repository would be available to receive decommissioning L&ILW starting in 2044 which is the earliest start date for Pickering NGS decommissioning. In this scenario, decommissioning waste would not require sustained interim waste storage either at the reactor site or the Western Waste Management Facility.</p> <p>Figure 2 illustrates a late scenario where an OPG decision to expand the DGR is made in the 2060's at the end of the proposed DGR operations period. Before any work would begin on the decommissioning and closure of the DGR, OPG would consider various options for long-term management of decommissioning L&ILW and then make a decision on whether to send decommissioning wastes to the DGR. In this scenario, prior to the expansion of the DGR, Pickering decommissioning L&ILW would be placed in interim storage or alternative means for disposal identified.</p> <p>The two scenarios provided show that OPG has a broad range of time from the mid 2030's to the mid 2060's in which to make a business decision for the potential expansion to the DGR.</p> <p>Figure 3 shows the layout of the repository after expansion, as previously presented.</p> <p>Figures 4 and 5 provide illustrations for the sequencing for the above two expansion decision options. In all cases, the intent is to minimize the time that rooms remain open to avoid the need to replace ground support systems, and to isolate waste-filled emplacement rooms before expansion excavations begin. For illustrative purposes, construction periods are shown in green and operational periods shown in yellow.</p> <p>Figure 4 shows the possible sequencing of activities for the early scenario. Panel 2 is filled with operational and refurbishment L&ILW from the WWMF and isolated with closure walls. This timing corresponds with the planned timing for a business decision to expand the DGR. Waste placement ceases and Panels 3 and 4 are constructed. Upon re-initiation of waste placement following regulatory approval, L&ILW operational, refurbishment and decommissioning waste could be placed concurrently and not segregated to specific areas of the DGR where the waste type and packaging permits. The initial rooms of Panel 1 could remain available for rail-based wastes and the remainder of the repository filled to minimize the time emplacement rooms remain open (i.e. starting in Panel 1). Waste filled panels would be closed or isolated with closure walls following completion of emplacement within the panel. These considerations are illustrated in Figure 4, however, the final arrangement of emplacement would need to be reviewed as part of the expansion decision process.</p> <p>Figure 5 shows the sequencing for the late scenario. This option does not provide the opportunity for concurrent emplacement as the timing for the decision is not made until the proposed DGR is full of waste arising from operations and refurbishment. All waste filled panels would be isolated by closure walls prior to the initiation of construction. As with the proposed DGR, following construction, the waste arising from decommissioning would fill from the farthest rooms and work back towards the shafts, with closure walls following panel completion.</p>

IR#	EIS Guidelines Section	Information Request and Response
		<p>References:</p> <p>ASTM D4435-13. Standard Test Method for Rock Bolt Anchor Pull Test, ASTM International, United States.</p> <p>BS 8081:1989. Code of Practice for Ground Anchorages, British Standards Institution, Great Britain.</p> <p>NWMO. 2014. Geoscientific Verification Plan. Nuclear Waste Management Organization document NWMO DGR TR-2011-38 R001. Toronto, Canada. (CEAA Registry Doc# 1792)</p> <p>OPG. 2011a. OPG’s Deep Geologic Repository for Low and Intermediate Level Waste – Preliminary Safety Report. Ontario Power Generation report 00216-SR-01320-00001 R000. Toronto, Canada. (CEAA Registry Doc# 300)</p> <p>OPG. 2011b. OPG’s Deep Geologic Repository for Low and Intermediate Level Waste – Environmental Impact Statement. Ontario Power Generation report 00216-REP-07701-00001 R000. Toronto, Canada. (CEAA Registry Doc# 298)</p> <p>OPG. 2014. Attachment A to OPG’s response to Information Request EIS-12-512 in OPG Letter, A. Webster to S. Swanson, “Deep Geologic Repository Project for Low and Intermediate Level Waste - Submission of Response to Information Request EIS-12-512”, CD# 00216-CORR-00531-00219, January 22, 2014. (CEAA Registry Doc# 1788)</p>



Note: All dates are nominal.

Figure 1: Timeline for Project Implementation - Estimated Early Business Decision on Expansion Scenario



Note: All dates are nominal.

Figure 2: Timeline for Project Implementation - Estimated Late Business Decision on Expansion Scenario

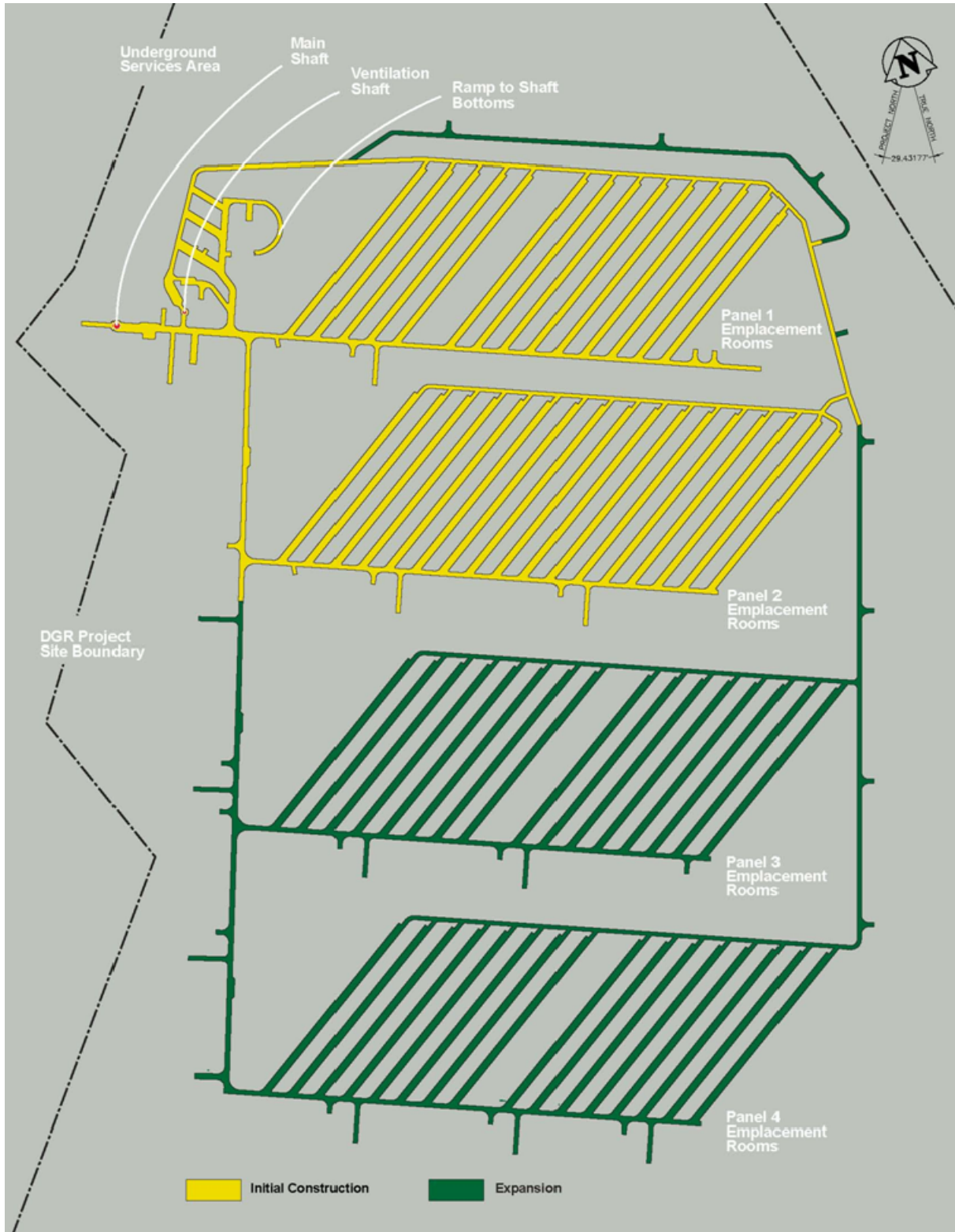


Figure 3: OPG's Deep Geologic Repository for L&ILW – Conceptual Expansion Layout

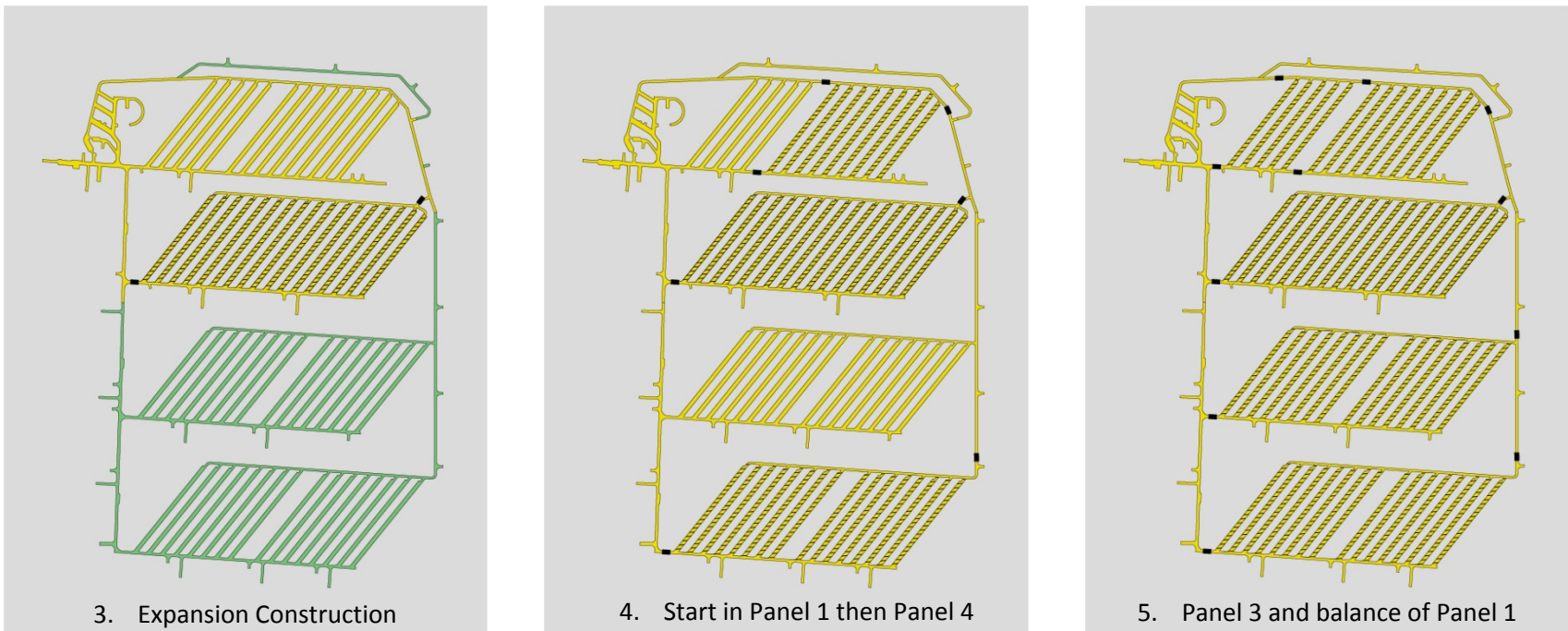
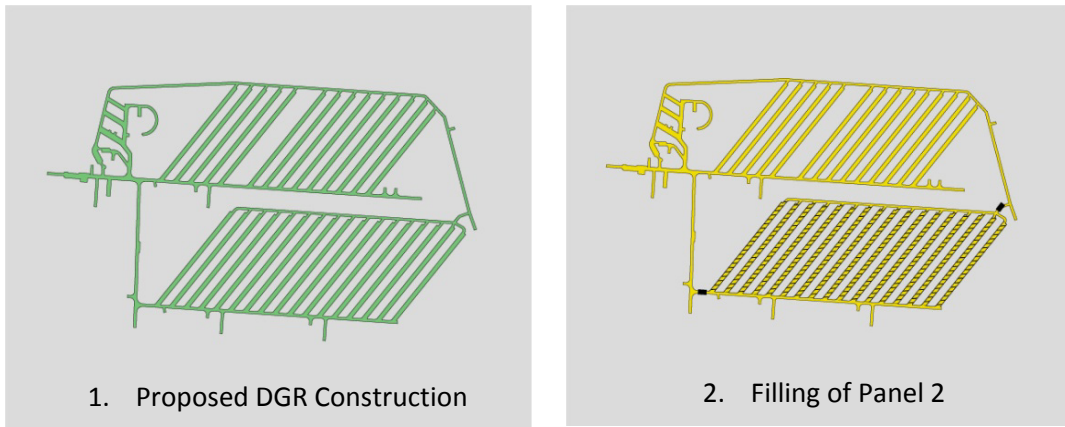


Figure 4: Early Expansion Decision Placement Sequencing

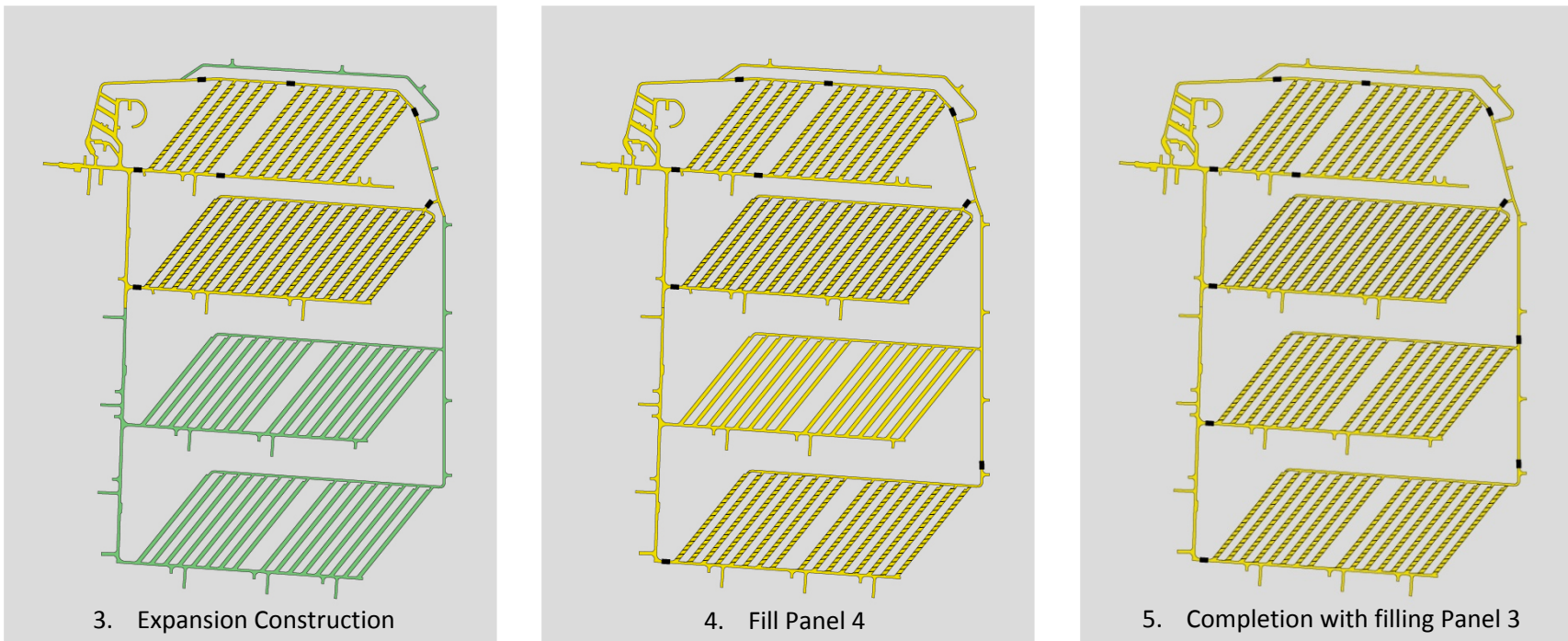
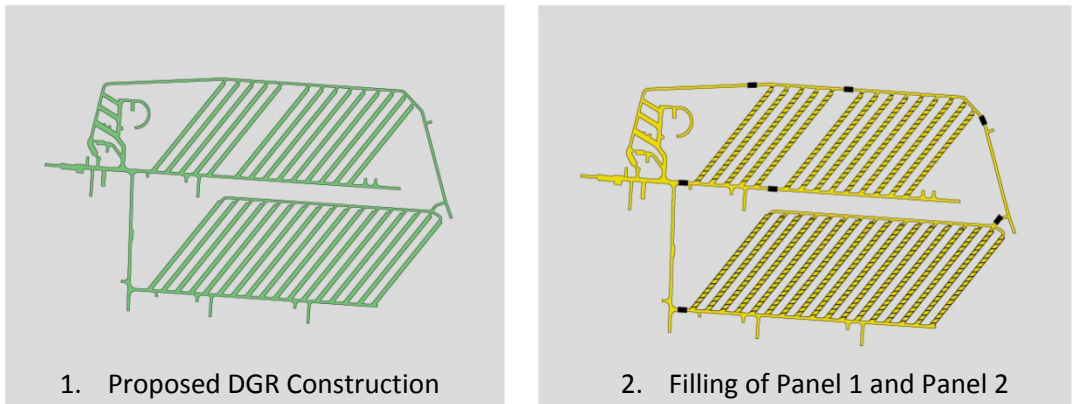


Figure 5: Late Expansion Decision Emplacement Sequencing

ATTACHMENT 2

Attachment to OPG letter, Allan Webster to Dr. Stella Swanson, "Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Response to Information Request EIS-12a-512"

April 4, 2014

CD#: 00216-CORR-00531-00227

Updated Tracking Table

OPG's L&ILW Deep Geologic Repository Project

Tracking Tables for Information Request Responses, Design Updates and Corrections

Rev.10

The attached tracking tables provide a cross-reference between information provided to the Joint Review Panel in Information Request (IR) responses, design updates and corrections in the following letters, and associated sections of documents supporting OPG's application for a site preparation and construction licence for its L&ILW DGR Project:

1. Letter from A. Sweetnam to S. Swanson, Updated Information in Support of OPG's Licence Application for a Deep Geologic Repository for Low and Intermediate Level Waste, CD# 00216-CORR-00531-00101, Feb.10, 2012
2. Letter from A. Sweetnam to S. Swanson, Corrections to the Information Submitted in Support of OPG's Licence Application for a Deep Geologic Repository for Low and Intermediate Level Waste, CD# 00216-CORR-00531-00100, Feb.10, 2012
3. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to Information Requests, CD# 00216-CORR-00531-00108, Mar.9, 2012
4. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to Information Request Package #2, CD# 00216-CORR-00531-00115, Jun.1, 2012
5. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to Information Request (IR) Package #3, CD# 00216-CORR-00531-00117, Jul.9, 2012
6. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Supplementary Material to Information Request (IR) Package #1 Responses, CD# 00216-CORR-00531-00118, Jul.10, 2012
7. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Response to Information Request (IR) No. EIS-02-36, CD# 00216-CORR-00531-00120, Jun. 28, 2012

8. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Previously Committed Responses to Information Requests, CD# 00216-CORR-00531-00126, Aug.9, 2012
9. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Responses to Undertakings from Technical Information Session #1, CD# 00216-CORR-00531-00132, Aug.15, 2012
10. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to a Sub-set of Package #4 Information Requests, CD# 00216-CORR-00531-00134, Aug.27, 2012
11. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Additional Responses to Undertakings from Technical Information Session #1, CD# 00216-CORR-00531-00136, Aug.31, 2012
12. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to a Sub-set of Package #4 Information Requests, CD# 00216-CORR-00531-00138, Sep.6, 2012
13. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to the Final Sub-set of Package #4 Information Requests, CD# 00216-CORR-00531-00143, Sep.28, 2012
14. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to a Sub-set of Package #5 Information Requests, CD# 00216-CORR-00531-00145, Oct.24, 2012
15. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to the Final Sub-set of Package #5 Information Requests, CD# 00216-CORR-00531-00146, Nov.7, 2012
16. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Acknowledgement of Package #6 Information Requests, CD# 00216-CORR-00531-00148, Oct.31, 2012
17. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to a Sub-set of Package #6 Information Requests, CD# 00216-CORR-00531-00152, Nov.29, 2012
18. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste - Submission of Responses to the Final Sub-set of Package #6 Information Requests, CD# 00216-CORR-00531-00153, Dec.12, 2012
19. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to Package # 7 Information Requests, CD# 00216-CORR-00531-00151, Dec.20, 2012
20. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Undertakings from Technical Information Session #2, CD# 00216-CORR-00531-00154, Dec.20, 2012
21. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to the First Sub-set of Package #8 Information Requests, CD# 00216-CORR-00531-00160, Feb.14, 2013
22. Letter from A. Sweetnam to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to the Second Sub-set of Package #8 Information Requests, CD# 00216-CORR-00531-00170, Feb.28, 2013

23. Letter from W. Robbins to S. Swanson, Deep Geologic Repository for Low and Intermediate Level Waste – Submission of Responses to the Final Sub-set of Package #8 Information Requests, CD# 00216-CORR-00531-00171, Mar.15, 2013
24. Letter from L. Swami to S. Swanson, Deep Geologic Repository for Low and Intermediate Level Waste – Submission of Responses to the First Sub-set of Package #9 Information Requests, CD# 00216-CORR-00531-00178, Mar.28, 2013
25. Letter from A. Webster to S. Swanson, Deep Geologic Repository for Low and Intermediate Level Waste – Submission of Responses to the Second Sub-set of Package #9 Information Requests, CD# 00216-CORR-00531-00180, Apr.15, 2013
26. Letter from A. Webster to S. Swanson, Deep Geologic Repository for Low and Intermediate Level Waste – Responses to Undertakings from Technical Information Session #3, CD# 00216-CORR-00531-00184, Apr.19, 2013
27. Letter from A. Webster to S. Swanson, Deep Geologic Repository for Low and Intermediate Level Waste – Submission of Responses to the Final Sub-set of Package #9 Information Requests, CD# 00216-CORR-00531-00179, Apr.30, 2013
28. Letter from L. Swami to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to the First Sub-set of Package #10 Information Requests, CD# 00216-CORR-00531-00185, Apr.30, 2013
29. Letter from A. Webster to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to the Final Sub-set of Package #10 Information Requests, CD# 00216-CORR-00531-00187, May 10, 2013
30. Letter from A. Webster to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Responses to the Package #11 Information Requests, CD# 00216-CORR-00531-00190, Jun.6, 2013
31. Letter from A. Webster to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Response to Information Request EIS-12-512, CD# 00216-CORR-00531-00219, Jan.22, 2014
32. Letter from L. Swami to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Response to Information Request EIS-12-511, CD# 00216-CORR-00531-00220, Jan.30, 2014
33. Letter from A. Webster to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Response to Information Request EIS-12-510, CD# 00216-CORR-00531-00225, Mar.28, 2014
34. Letter from A. Webster to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Response to Information Request EIS-12-513, CD# 00216-CORR-00531-00232, Apr.4, 2014
35. Letter from A. Webster to S. Swanson, Deep Geologic Repository Project for Low and Intermediate Level Waste – Submission of Response to Information Request EIS-12a-512, CD# 00216-CORR-00531-00227, Apr.4, 2014

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ES.2	Background	Response to Information Requests	Provides update on status of Métis Nation of Ontario (MNO) Participation Agreement	Response to IR-EIS-02-43 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
ES.6	Valued Ecosystem Components	Response to Information Requests	Provides clarification regarding the selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-46 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Fig. 1.1.1-3	Schematic of the DGR Project	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec.1.2.1	Purpose of the Project	Response to Information Requests	Provides clarification on use of DGR for low and intermediate level waste only	Response to IR-EIS-04-99 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
			Provides clarification on the predicted margin of safety to be achieved by the DGR and margin of safety from the current operation of the WWMF	Response to IR-EIS-04-149 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides additional rationale justifying the greater margin of safety of the DGR versus the existing facilities	Response to IR-EIS-09-465 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 1.2.3.2	Underground Facilities	Response to Information Requests	Provides clarification on panel room development procedures	Response to IR-EIS-03-53 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 1.2.5	Project Cost	Response to Information Requests	Provides additional details on project cost	Response to IR-EIS-05-224 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 1.5	International Agreements and Considerations	Response to Information Requests	Provides clarification on the reporting mechanism any unplanned releases from the DGR project to the United States	Response to IR-EIS-08-340 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	

Environmental Impact Statement (00216-REP-07701-00001 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on the reporting mechanism any unplanned releases from the DGR project to the United States	Response to IR-EIS-08-356 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Sec. 1.6.3	Engagement with Aboriginal Peoples	Response to Information Requests	Provides update on status of MNO Participation Agreement	Response to IR-EIS-02-43 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Sec. 1.6.4	Traditional Knowledge	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 1.6.5	Sustainable Development	Response to Information Requests	Provides clarification regarding the application of sustainability principles	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 1.6.6	Precautionary Approach	Response to Information Requests	Provides clarification regarding the application of the precautionary approach	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on how the precautionary approach provides a high level of confidence that the effects of the DGR Project will be less than the predicted effects	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 2.1.4	Key Messages	Response to Information Requests	Provides clarification on use of DGR for low and intermediate level waste only	Response to IR-EIS-04-99 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Sec. 2.2.1.2	Kincardine Endorses DGR	Response to Information Requests	Provides clarification on use of DGR for low and intermediate level waste only	Response to IR-EIS-04-99 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	

Environmental Impact Statement (00216-REP-07701-00001 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 2.2.1.3	DGR Hosting Agreement	Response to Information Requests	Provides clarification on use of DGR for low and intermediate level waste only	Response to IR-EIS-04-99 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Sec. 2.2.1.5	Community Poll	Response to Information Requests	Provides clarification on the 2005 telephone poll	Response to IR-EIS-01-31 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 2.3	Aboriginal Engagement	Response to Information Requests	Provides information on engagement post-submission	Response to IR-EIS-07-296 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 2.3.1	Saugeen Ojibway Nation Engagement	Response to Information Requests	Provides updates on status of the Jibbegmegoong burial site ceremony and monitoring protocol between the Saugeen Ojibway Nation (SON) and Ontario Hydro/OPG	Response to IR-EIS-02-42 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Sec. 2.3.2	Métis Nation of Ontario Engagement	Response to Information Requests	Provides update on status of MNO Participation Agreement	Response to IR-EIS-02-43 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
			Provides additional information on opportunities for Métis Nation of Ontario input on VECs	Response to IR-EIS-05-202 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 2.3.3	Historic Saugeen Métis Community Engagement	Response to Information Requests	Provides additional information on opportunities for Historic Saugeen Métis Community input on VECs	Response to IR-EIS-05-202 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 2.4.1	Briefings with Local Municipalities and Agencies	Response to Information Requests	Provides clarification on DGR Community Consultation Advisory Group topics of discussion during the regulatory approvals process	Response to IR-EIS-05-205 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides additional information on Community Consultation Advisory Group meetings	Response to IR-EIS-09-459 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	

Environmental Impact Statement (00216-REP-07701-00001 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 2.7	Other Public Participation	Response to Information Requests	Provides clarification on OPG's consultation with representatives from the United States	Response to IR-EIS-09-443 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 2.9.2	Input to Selection of Valued Ecosystem Components (VECs)	Response to Information Requests	Provides additional information on selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-48 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 3.1	Purpose of the Project	Response to Information Requests	Provides clarification on waste volumes	Response to IR-EIS-08-378 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information on DGR expansion plans	Response to IR-EIS-12-512 in OPG Letter dated Jan.22, 2014 [31]	1788	√
Sec. 3.2.2	Long-term Planning by OPG	Response to Information Requests	Provides clarification on alternative locations considered for DGR	Response to IR-EIS-02-40 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Sec. 3.2.5	Decision by OPG	Response to Information Requests	Provides clarification on alternative locations considered for DGR	Response to IR-EIS-02-40 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Sec. 3.3	Alternatives to the Project	Response to Information Requests	Provides clarification on evaluation of alternatives to the DGR project	Response to IR-EIS-06-277 in OPG Response to IR Package #6 Letter dated Oct.31, 2012 [16]	795	
			Provides an updated analysis of the relative risks associated with four alternative options requested by Panel	Response to IR-EIS-12-513 in OPG Response Letter dated Apr.4, 2014 [34]		√
Sec. 3.3.5.2	Technical Feasibility	Response to Information Requests	Provides clarification on OPG's proven technologies and mitigation and management methods	Response to IR-EIS-08-367 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	

Environmental Impact Statement (00216-REP-07701-00001 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 3.4	Alternative Means of Carrying Out the Project	Response to Information Requests	Provides additional information on alternative means analysis	Response to IR-EIS-03-49 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on the assessment of alternative means relative to sustainability considerations	Response to IR-EIS-06-273 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
			Provides additional information on how risk avoidance, adaptive management capacity and preparation for surprise were incorporated in the evaluation of alternative means	Response to IR-EIS-06-278 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
			Provides additional detail on waste conditioning	Response to IR-EIS-09-476 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
			Provides an updated analysis of the relative risks associated with four alternative options requested by Panel	Response to IR-EIS-12-513 in OPG Response Letter dated Apr.4, 2014 [34]		√
Sec. 3.4.1	Radioactive Waste Reduction at Source	Response to Information Requests	Provides clarification regarding waste volume reduction	Response to IR-EIS-04-121 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
			Provides clarification on plans for recycling or restricted use of waste materials	Response to IR-EIS-08-346 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Sec. 3.4.2	Choice of Site	Response to Information Requests	Provides clarification on alternative locations considered for DGR	Response to IR-EIS-02-40 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	

Environmental Impact Statement (00216-REP-07701-00001 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Table 3.4.2-1	Comparison of Siting Alternatives On and Off of the Bruce Nuclear Site	Response to Information Requests	Provides supplementary information on the reasoning behind scoring of alternatives	Response to IR-EIS-09-407 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 3.4.3.1	Repository Horizon	Response to Information Requests	Provides clarification regarding the rationale for the selection of the Cobourg Formation to host the DGR	Response to IR-EIS-03-73 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Table 3.4.3-1	Comparison of Repository Horizon Alternatives	Response to Information Requests	Provides supplementary information on the reasoning behind scoring of alternatives	Response to IR-EIS-09-407 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Fig. 3.4.5-1	Evolution of the Underground Layout	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 3.4.6.1	Waste Rock Management Area	Response to Information Requests	Provides clarification on the timeframe for temporary stockpile locations for overburden, shales and dolostones	Response to IR-EIS-05-191 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 3.4.6.2	Stormwater Management	Response to Information Requests	Provides clarification on effect of stormwater management pond on groundwater quality, provision for prolonged retention and deployment of water treatment	Response to IR-EIS-03-56 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
		Response to Undertakings	Provides additional information on the annual hydrologic information used in the modelling of the stormwater management system	Response to Undertaking TIS 14 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
			Provides additional information on the quantitative water budget for the DGR site	Response to Undertaking TIS 17 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 3.4.7.1	Excavation Methods	Response to Information Requests	Provides clarification regarding controlled drill and blast techniques for shaft sinking	Response to IR-LPSC-03-57 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
		Response to Undertakings	Provides additional information to support the reference excavation method of drill and blast versus roadheader	Response to Undertaking TIS 8 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
Sec. 3.4.10	Waste Containment	Response to Information Requests	Provides clarification on purpose and integrity of waste container	Response to IR-EIS-04-122 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
			Provides clarification regarding postclosure safety assessment assumptions with respect to integrity of waste containers	Response to IR-EIS-04-152 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
			Provides clarification of the role of waste containers	Response to IR-EIS-04-124 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides additional detail on comparative information concerning international repositories	Response to IR-EIS-09-410 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Table 3.4.10-1	Comparison of Waste Containment Alternatives	Response to Information Requests	Provides clarification of analyses of effects of backfilling repository	Response to IR-LPSC-03-56 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Table 3.4.10-2	Examples of Waste Conditioning and Containers Used Internationally	Response to Information Requests	Provides additional information related to different treatment and conditioning options and resulting waste forms used in other facilities and jurisdictions and discusses their applicability to OPG's DGR	Response to IR-EIS-03-51 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 4.4.1.2	Ventilation Shaft Area	Response to Information Requests	Provides clarification on second egress via the ventilation shaft area	Response to IR-LPSC-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 4.4.1.3	Waste Rock Management Area (WRMA)	Response to Information Requests	Provides description of construction of the waste rock management area	Response to IR-LPSC-01-28 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 4.4.1.5	Stormwater Management System	Response to Information Requests	Provides additional information on the water treatment system and plant	Response to IR-LPSC-01-27 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on effect of stormwater management pond on groundwater quality, provision for prolonged retention and deployment of water treatment	Response to IR-EIS-03-56 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional clarification on provision for deployment of water treatment	Response to IR-EIS-09-472 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
		Response to Undertakings	Provides additional information on site drainage and stormwater management	Response to Undertaking TIS 10 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
Fig. 4.4.2-1	Preliminary Layout of the Underground Repository	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 4.4.2.2	Underground Services Area	Response to Information Requests	Updates information on refuge stations	Response to IR-LPSC-01-09 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on location of portable refuge stations	Response to IR-EIS-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on use of refuge stations	Response to IR-LPSC-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 4.4.2.3	Access Tunnels	Response to Information Requests	Provides additional information on placement of waste within the two panels of the DGR	Response to IR-EIS-03-62 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on use of access tunnels as a means of secondary emergency egress	Response to IR-LPSC-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 4.4.2.4	Emplacement Rooms	Design update	Updates emplacement rooms dimensions	Item #2 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
		Response to Information Requests	Provides clarification on emplacement rooms design	Response to IR-EIS-03-61 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on emergency egress via personnel access doors placed in each emplacement room end-wall	Response to IR-LPSC-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 4.4.3.3	Communications System	Response to Information Requests	Provides clarification on location of hard-wired emergency phones underground	Response to IR-LPSC-03-59 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 4.4.3.5	Fuel Storage	Correction	Corrects the volume of the emergency power diesel storage tank	Response to IR-EIS-07-279 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 4.4.3.6	Potable, Industrial and Fire Water	Response to Information Requests	Provides additional information on traffic associated with provision of potable water	Response to IR-EIS-05-199 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 4.4.3.7	Sewage System	Response to Information Requests	Provides additional information on traffic associated with provision of sanitary facilities	Response to IR-EIS-05-199 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 4.5	Waste to be Placed in the DGR	Response to Information Requests	Provides clarification on alternative means of dealing with combustible waste	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification of categorization of wastes arriving at DGR	Response to IR-EIS-03-59 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on use of DGR for low and intermediate level waste only	Response to IR-EIS-04-99 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
			Provides clarification on categories of L&ILW to be placed in the DGR	Response to IR-EIS-04-102 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
			Provides clarification on the definitions of low-level waste, intermediate-level waste, and high-level waste	Response to IR-EIS-11-504 in OPG Response to IR Package #11 Letter dated Jun.6, 2013 [30]	1157	
Table 4.5-1	LLW Categories	Response to Information Requests	Provides clarification on alternative means of dealing with combustible waste	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Table 4.5-2	ILW Categories, including Reactor Refurbishment Waste	Response to Information Requests	Provides clarification on alternative means of dealing with combustible waste	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 4.5.1	Waste Volumes	Response to Information Requests	Provides additional detail on waste containers/packages	Response to IR-EIS-09-474 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Fig. 4.5.1-1	Relative Waste Volumes Planned for Emplacement in the DGR (emplaced volume)	Response to Information Requests	Provides clarification on waste volumes	Response to IR-EIS-08-378 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Table 4.5.1-3	Summary of Waste Acceptance Criteria	Response to Information Requests	Provides clarification on alternative means of dealing with combustible waste	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides definition of "ignitable wastes" as used in the category of wastes excluded from DGR	Response to IR-EIS-03-58 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification regarding "leachate toxic" wastes	Response to IR-EIS-04-147 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
			Provides clarification on Waste Acceptance Criteria	Response to IR-EIS-08-342 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides clarification on Waste Acceptance Criteria	Response to IR-EIS-08-343 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides clarification on Waste Acceptance Criteria	Response to IR-EIS-08-347 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides clarification on Waste Acceptance Criteria	Response to IR-EIS-08-348 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides clarification on Waste Acceptance Criteria	Response to IR-EIS-08-350 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on waste package transfer stability and providing references to additional submission resources related to the request	Response to IR-EIS-08-344 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides clarification on Waste Acceptance Criteria	Response to IR-EIS-10-488 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
			Provides clarification on waste package transfer stability	Response to IR-EIS-10-496 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
Sec. 4.5.2	Total Radionuclide Inventory of Waste	Response to Information Requests	Provides clarification on characterization of the inventory of radionuclides	Response to IR-EIS-01-05 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Updates information on characterization of uncertainty with radioactive measurements	Response to IR-EIS-01-06 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on calculating quantities of radionuclides	Response to IR-EIS-01-07 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on uncertainty associated with radionuclide inventory	Response to IR-EIS-01-20 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification for the basis of inventories for key radionuclides	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-06 and IR-EIS-01-20 Letter dated Jul.10, 2012 [6]	606	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Table 4.5.2-1	Estimated L&ILW Radionuclide Inventory at 2062	Response to Information Requests	Provides clarification on the primary waste type source for each radionuclide	Response to IR-EIS-08-345 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
		Correction	Corrects a typographic error in the listed Pu-241 inventory for Refurb L&ILW and for Total	Response to IR-EIS-08-345 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Sec. 4.7	Site Preparation and Construction	Response to Information Requests	Provides additional information on noise impacts on sleep and World Health Organization sleep disturbance threshold	Response to IR-EIS-06-258 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 4.7.1	Site Preparation	Response to Information Requests	Provides clarification on air modeling related to ground treatment equipment and the type of equipment that will be used for these activities	Response to IR-EIS-05-201 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides reference to supporting information provided in the submission on air modeling related to ground treatment equipment and the type of equipment that will be used for these activities	Response to IR-EIS-09-467 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 4.7.1.1	Land Clearing, Grubbing and Site Grading	Response to Undertakings	Provides more detailed information of the existing site conditions of the Bruce nuclear site and proposed DGR grading topography	Response to Undertaking TIS 12 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
Sec. 4.7.1.3	Site Drainage and Stormwater Management	Response to Undertakings	Provides additional information on site drainage and stormwater management	Response to Undertaking TIS 10 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides more detailed information of the existing site conditions of the Bruce nuclear site and proposed DGR grading topography	Response to Undertaking TIS 12 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
Sec. 4.7.2.1	Construction Labour	Response to Information Requests	Provides additional information on noise impacts on sleep and World Health Organization sleep disturbance threshold	Response to IR-EIS-06-258 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 4.7.4.1	Shaft Excavation	Response to Information Requests	Provides additional information on development of the shaft collar	Response to IR-EIS-01-01 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides additional information on ground improvement approaches for shaft collar and shaft sinking activities	Response to IR-LPSC-01-31 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
		Response to Undertakings	Provides additional information on the total weight of ammonia nitrate that would be used per sequenced shaft blast	Response to Undertaking TIS 3 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
Sec. 4.7.4.2	Repository Construction	Response to Undertakings	Provides additional information on the total weight of ammonia nitrate that would be used per sequenced shaft blast	Response to Undertaking TIS 3 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
Sec. 4.7.5	Construction Waste Management	Response to Information Requests	Provides clarification on the estimated range of annual output of grey water and the estimated waste rock volume	Response to IR-LPSC-01-29 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 4.7.5.2	Hazardous Materials	Response to Information Requests	Provides additional information regarding storage of explosives	Response to IR-EIS-01-02 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on storage and transportation of explosives during the site preparation and construction	Response to IR-EIS-07-280 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
			Provides additional information regarding storage of explosives	Response to IR-EIS-09-403 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 4.7.5.3	Waste Rock Management	Response to Information Requests	Provides additional information on options for waste rock management	Response to IR-EIS-02-34 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
			Provides clarification on the timeframe for temporary stockpile locations for overburden, shales and dolostones	Response to IR-EIS-05-191 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 4.7.5.4	Water Management	Response to Information Requests	Provides clarification on the calculations, assumptions and confidence limits of the estimates for maximum excavation discharge and sump water pumping	Response to IR-EIS-04-101 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides additional information on predicted water inflows	Response to IR-EIS-04-151 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides additional information on predicted water inflows	Response to IR-EIS-08-392 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Sec. 4.8.2	Above-ground Transfer of Waste and Receipt of Waste	Response to Information Requests	Provides additional information on the handling of waste packages	Response to IR-EIS-10-496 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 4.8.2.1	Description of Waste Packages	Response to Information Requests	Provides additional details on inspection and testing of waste containers	Response to IR-EIS-11-508 in OPG Response to IR Package #11 Letter dated Jun.6, 2013 [30]	1157	
Sec. 4.8.3	Underground Transfer of Waste	Response to Information Requests	Provides additional information on the handling of waste packages	Response to IR-EIS-10-496 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
Fig. 4.8.3-1	Typical Emplacement Room Configuration for LLW	Design update	Updates emplacement room dimensions	Item #2 (i.e., Fig. 6-17 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Fig. 4.8.3-2	Typical Emplacement Room Configuration for ILW	Design update	Updates emplacement room dimensions	Item #2 (i.e., Fig. 6-18 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec 4.8.5.4	Water Management	Response to Information Requests	Provides clarification on effect of stormwater management pond on groundwater quality, provision for prolonged retention and deployment of water treatment	Response to IR-EIS-03-56 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional clarification on provision for deployment of water treatment	Response to IR-EIS-09-472 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 4.8.7.10	Emergency Preparedness and Emergency Response Program	Response to Information Requests	Provides clarification on mine rescue support during operation	Response to IR-LPSC-03-61 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on emergency response and preparedness arrangements for the DGR project	Response to IR-EIS-06-269 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 4.10.1	Design Changes	Response to Information Requests	Provides clarification of expansion potential	Response to IR-EIS-04-145 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides clarification of expansion potential	Response to IR-EIS-10-494 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
			Provides additional information on DGR expansion plans	Response to IR-EIS-12-512 in OPG Letter dated Jan.22, 2014 [31]	1788	√
				Response to IR-EIS-12a-512 in OPG Letter dated Apr.4, 2014 [35]		√
Sec. 4.10.2	Additional Emplacement Rooms	Response to Information Requests	Provides clarification regarding DGR extension plans	Response to IR-EIS-04-120 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides clarification of expansion potential	Response to IR-EIS-04-145 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides clarification of expansion potential	Response to IR-EIS-10-494 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
			Provides additional information on DGR expansion plans	Response to IR-EIS-12-512 in OPG Letter dated Jan.22, 2014 [31]	1788	√

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
				Response to IR-EIS-12a-512 in OPG Letter dated Apr.4, 2014 [35]		√
Sec. 4.11.3	Decommissioning of Facilities	Response to Undertakings	Provides clarification on the rationale for the planned top soil cover of 150 mm on the waste rock pile at closure	Response to Undertaking TIS 9 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
Fig. 4.11.4-1	Extent of the Proposed Concrete Monolith	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig.13-1 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 4.11.4.2	Construction of Shaft Seal	Response to Information Requests	Provides clarification of the basis for the asphalt seal	Response to IR-EIS-03-63 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on removal of shaft infrastructure	Response to IR-LPSC-03-58 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Table 4.11.5-1	Waste Materials Arising from Decommissioning	Response to Information Requests	Provides clarification on waste materials to be removed as part of decommissioning Provides further details on waste materials arising from decommissioning following construction	Response to IR-LPSC-01-46 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Table 4.11.5-2	Projected Range of Conventional and Hazardous Wastes Arising from Decommissioning	Response to Information Requests	Provides clarification on waste materials estimated to be generated during decommissioning on yearly basis	Response to IR-LPSC-01-46 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Sec. 4.12	Abandonment and Long-Term Performance Phase	Response to Information Requests	Provides clarification on the alternative means “no institutional control necessary”	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on abandonment	Response to IR-EIS-05-181 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides clarification on abandonment	Response to IR-EIS-08-364 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides clarification on institutional controls	Response to IR-EIS-08-363 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Sec. 4.13	Malfunctions, Accidents And Malevolent Acts	Response to Information Requests	Provides an assessment of impact of potential events on the Bruce site that could affect the DGR	Response to IR-LPSC-01-41 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 4.13.3	Malevolent Acts	Response to Information Requests	Provides clarification on threats and theft as potential malevolent acts	Response to IR-EIS-05-195 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 4.14.2	Operations Phase	Response to Information Requests	Provides clarification on where Health, Safety and the Environment (HSE) as well as Communications fits within the organization chart	Response to IR-EIS-05-213 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Fig. 4.14.2-1	Operations Phase Organization	Response to Information Requests	Provides a revised Organization Chart	Response to IR-EIS-09-456 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 4.15.1.1	Control of Radiation Exposure and Contamination	Design update	Updates radiological zoning	Item #6 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	

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Sec. 4.15.2	Environmental Monitoring Programs	Response to Information Requests	Provides additional information regarding the adequacy of the radiological environmental monitoring program in light of the DGR radionuclide inventory	Response to IR-EIS-03-67 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides information on the existing near-surface groundwater monitoring activities and long-term monitoring strategy (including measurement parameters)	Response to IR-EIS-08-383 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Sec. 4.17	Fire Protection And Emergency Response	Response to Information Requests	Provides clarification on emergency response and preparedness arrangements for construction phase	Response to IR-LPSC-01-45 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on mine rescue support during construction and operation phases	Response to IR-LPSC-03-61 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on emergency response and preparedness arrangements for the DGR project	Response to IR-EIS-06-269 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 4.17.2.1	Surface Facilities	Response to Information Requests	Updates edition of NBCC	Response to IR-LPSC-01-01 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Updates edition of NFCC	Response to IR-LPSC-01-02 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 4.17.2.2	Underground Facilities	Response to Information Requests	Provides clarification on fire suppression methods	Response to IR-LPSC-01-22 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Sec. 5.1	Spatial Boundaries and Scale	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on the suitability of the study areas for the decommissioning and abandonment phases	Response to IR-EIS-05-182 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 5.3	Valued Ecosystem Components	Response to Information Requests	Provides clarification regarding the selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-46 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional information on selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-48 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional information on selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-65 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 5.3.1	Overall Approach to Selecting VECs	Response to Information Requests	Provides additional information on how the local ecosystem is adequately represented by the selected VECs	Response to IR-EIS-08-359 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
Sec. 5.3.1.1	Consideration of Traditional and Local Knowledge	Response to Information Requests	Provides additional information on selection of Aboriginal Interests Valued Ecosystem Components (VECs)	Response to IR-EIS-03-47 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 5.3.1.2	Consideration of Public Input	Response to Information Requests	Provides additional information on selection of Aboriginal Interests Valued Ecosystem Components (VECs)	Response to IR-EIS-03-47 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Table 6.1.2-1	Field Studies Undertaken in Support of the DGR Project	Response to Information Requests	Provides rationale for the field studies which were conducted in support of the DGR project for the terrestrial environment, hydrology and surface water quality, and aquatic environment	Response to IR-EIS-03-66 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.2	Geology	Response to Information Requests	Provides clarification on Cobourg Formation attributes supporting the containment and isolation of L&ILW	Response to IR-EIS-03-73 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides justification for the assessment that previously drilled (abandoned or active) boreholes identified within the Regional Study Area (RSA) will not enhance solute/contaminant transport away from the DGR	Response to IR-EIS-05-178 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides clarification on the sampling methods and field analyses performed to ensure that representative OGW samples were collected during drilling	Response to IR-EIS-08-317 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides a summary of the sulphur characterization for groundwaters and porewaters at the Bruce nuclear site, as well as the key justifications for the current assessment that sulphur waters present a low risk to the integrity of the repository and have been considered in both the design and management activities	Response to IR-EIS-08-316 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 6.2.1	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.2.4	Soil Quality	Response to Information Requests	Provides additional information on soil quality in the DGR Project Area	Response to IR-EIS-05-220 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.2.5	Overburden Geology	Response to Information Requests	Provides clarification on overburden geology in the DGR Project Area	Response to IR-EIS-03-54 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.2.5.1	Site Study Area and Project Area	Response to Information Requests	Provides additional information on Phase I and Phase II site assessments	Response to IR-EIS-05-219 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.2.6.1	Regional Stratigraphy	Response to Information Requests	Provides clarification on the 3DGF model	Response to IR-EIS-08-380 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Sec. 6.2.6.2	Site Study Area	Response to Information Requests	Provides clarification on the source and breath of information in the Geosynthesis and Descriptive Site Geosphere Model with respect to confidence in the assessment of stratigraphic continuity within the upper Ordovician shale cap rocks	Response to IR-EIS-09-416 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 6.2.6.3	Natural Resources	Response to Information Requests	Provides clarification on assessment of natural resources	Response to IR-EIS-01-24 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides additional information on the assessment of undiscovered oil, gas and mineral resources at the regional, local and site scale and also	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-24 Letter dated Jul.10, 2012 [6]	606	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			the uncertainties associated with the assessment			
Fig. 6.2.6-5	Location of Deep DGR-series and Shallow US-series Boreholes	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 6.2.7	Hydrogeology	Response to Information Requests	Provides justification for the sufficiency of hydrogeologic modelling with respect to assessing the influence of a laterally continuous permeable unit at the base of the sedimentary sequence	Response to IR-EIS-04-126 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
			Provides clarification as to why the hydraulic head in the Precambrian was not measured for the purposes of hydrogeological modeling	Response to IR-EIS-04-100 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides clarification regarding: 1) the confidence in the longevity of the abnormal pressures observed at the site, and 2) conservatism applied in the hydrogeologic and safety assessment modelling scenarios with regard to abnormal pressure evolution	Response to IR-EIS-04-113 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides justification for the parameterization of the Salina A1 Unit, and the Guelph and Cambrian formation aquifers in the hydrogeological modeling	Response to IR-EIS-04-127 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

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			Provides justification for the assessment that near-surface porosity/permeability enhancement processes will have no impact on the performance of the DGR at the site, in support of the physical and hydraulic properties employed in the hydrogeological modelling	Response to IR-EIS-05-180 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.2.7.3	Deep Groundwater System	Response to Information Requests	Provides clarification regarding the use of liquid porosity in mass transport predictions	Response to IR-EIS-03-80 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.2.7.4	Environmental Heads and Hydraulic Conductivity	Response to Information Requests	Provides clarification for the choice of the hydraulic installations (WestBay MP system) during site characterization activities	Response to IR-EIS-04-157 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides clarification on the conclusion that any future dissolution salt is expected to have no impact on the long-term integrity of the DGR	Response to IR-EIS-05-177 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.2.9	Geomechanics	Response to Information Requests	Provides clarification of the description and tabulation of Poisson's ratio parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-372 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-373 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	

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			Provides additional information on geoscientific characterization	Response to IR-EIS-08-374 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-375 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-376 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-377 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
		Response to Undertakings	Provides additional information on geoscientific characterization	Response to Undertaking TIS 15 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
Sec. 6.2.9.1	Geomechanical Properties: Rock Strength and Deformation	Response to Information Requests	Provides clarification on Cobourg Formation core strength	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on data used in determining core strength of the Georgian Bay formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on the variance in strength data for the Cobourg Formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification of evidence for the overall integrity of the Cobourg Formation at the DGR site	Response to IR-EIS-03-72 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 6.2.10	Regional Seismicity	Response to Information Requests	Provides clarification on seismic activity in Bruce region	Response to IR-EIS-03-75 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.3	Hydrology and Surface Water Quality	Response to Information Requests	Provides justification for the assessment that near-surface porosity/permeability enhancement processes will have no impact on the performance of the DGR at the site, in support of the physical and hydraulic properties employed in the hydrogeological modeling	Response to IR-EIS-05-180 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.3.1	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.3.2	Valued Ecosystem Components	Response to Undertakings	Provides supplementary information on selection of indicators for surface water quality	Response to Undertaking TIS 13 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
Sec. 6.3.5	Surface Water Quality	Response to Information Requests	Provides clarification on surface water quality	Response to IR-EIS-03-79 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.3.5.2	Water Quality in Surface Drainage Features in Site Study Area	Response to Information Requests	Provides additional information on sediment quality data	Response to IR-EIS-03-86 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional information on fish studies and aquatic habitat	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-14 Letter dated Jul.10, 2012 [6]	606	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Table 6.3.5-1	Summary of Lake Huron Water Quality Sampling Results	Response to Information Requests	Provides clarification on surface water quality in Lake Huron	Response to IR-EIS-03-79 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.3.5.3	Sediment Quality	Response to Information Requests	Provides additional information on sediment quality data	Response to IR-EIS-03-86 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional baseline information on sediment quality in the Site and Local Study Areas	Response to IR-EIS-07-295 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 6.4.1	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.4.3.1	Site Study Area and Project Area	Response to Information Requests	Provides additional information on condition and qualities of the wetlands	Response to IR-EIS-03-85 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.4.6.2	Regional and Local Study Areas	Response to Information Requests	Provides additional information on why Type E botulism mortalities in waterfowl are not influenced by the operations at the Bruce nuclear site	Response to IR-EIS-05-193 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 6.5.1	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.5.3.1	South Railway Ditch	Response to Information Requests	Provides additional information on fish studies and aquatic habitat	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-14 Letter dated Jul.10, 2012 [6]	606	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 6.5.3.2	Stream C	Response to Information Requests	Provides additional information on fish studies and aquatic habitat	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-14 Letter dated Jul.10, 2012 [6]	606	
Sec. 6.5.3.3	Lake Huron and the Embayments	Response to Information Requests	Provides additional information on fish studies and aquatic habitat	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-14 Letter dated Jul.10, 2012 [6]	606	
			Provides additional information on the suitability of MacPherson Bay as habitat	Response to IR-EIS-05-197 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.5.3.4	Other Potential Aquatic Habitat	Response to Information Requests	Provides additional information on the absence of benthic invertebrate data	Response to IR-EIS-05-198 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.6.1	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Table 6.6.2-1	VECs Selected for Radiation and Radioactivity	Response to Information Requests	Provides additional information on sensitivity to radiation of indicator species	Response to IR-EIS-05-215 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.6.4	Radioactive Releases to the Environment	Response to Information Requests	Provides clarification on fugitive emissions of H-3 species from LLSB at WWMF	Response to IR-EIS-01-08 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 6.6.4.1	Releases to Air	Response to Information Requests	Provides clarification that no additional information on specific radionuclides in particulate and noble gases is available	Response to IR-EIS-06-238 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 6.6.5	Radioactivity in the Environment	Response to Information Requests	Provides additional information on data quality objectives for the Radiological Environmental Monitoring Program at the Bruce nuclear site	Response to IR-EIS-05-214 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 6.6.5.2	Tritium in Precipitation	Response to Information Requests	Provides more recent data on tritium concentrations in precipitation in the Local Study Area	Response to IR-EIS-07-289 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 6.6.5.3	Radioactive Particulate	Response to Information Requests	Provides clarification on gross beta deposition	Response to IR-EIS-05-208 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides clarification on C-14 concentration in air	Response to IR-EIS-05-209 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 6.6.6	Radioactivity in Surface Water	Response to Information Requests	Provides additional information on data quality objectives for the Radiological Environmental Monitoring Program at the Bruce nuclear site	Response to IR-EIS-05-214 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 6.6.6.1	Tritium and Gross Beta in Surface Water	Response to Information Requests	Provides additional information on drinking water monitoring program	Response to IR-EIS-03-78 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on tritium and gross beta in surface water; list of radionuclides sampled	Response to IR-EIS-05-210 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.6.7	Radioactivity in the Aquatic Environment	Response to Information Requests	Provides additional information on data quality objectives for the Radiological Environmental Monitoring Program at the Bruce nuclear site	Response to IR-EIS-05-214 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 6.6.7.1	Radioactivity in Sediments	Response to Information Requests	Provides additional information on the annual sediment sampling program	Response to IR-EIS-03-83 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional information on sediment quality data	Response to IR-EIS-03-86 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides context for baseline for sediments	Submission of supplementary material to IR Package #3 Response to IR-EIS-03-83 in OPG Letter dated Aug.9, 2012 [8]	684	
			Provides additional data on radionuclides in sediment in the Site Study Area	Response to IR-EIS-06-238 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
Sec. 6.6.7.2	Shoreline Gamma Survey	Response to Information Requests	Provides additional information on shoreline gamma survey	Response to IR-EIS-03-87 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.6.7.3	Radioactivity in Fish	Response to Information Requests	Provides additional information on the annual fish sampling program	Response to IR-EIS-03-84 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides context for fish data baseline	Submission of supplementary material to IR Package #3 Response to IR-EIS-03-84 in OPG Letter dated Aug.9, 2012 [8]	684	
Sec. 6.6.8	Radioactivity in the Terrestrial Environment	Response to Information Requests	Provides additional information on data quality objectives for the Radiological Environmental Monitoring Program at the Bruce nuclear site	Response to IR-EIS-05-214 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 6.6.8.1	Vegetation	Response to Information Requests	Provides additional information on the annual garden fruit and vegetable and agricultural plant sampling program	Response to IR-EIS-03-88 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides context for vegetation data baseline	Submission of supplementary material to IR Package #3 Response to IR-EIS-03-88 in OPG Letter dated Aug.9, 2012 [8]	684	
Sec. 6.6.8.2	Milk	Response to Information Requests	Provides additional information on the weekly milk sampling program	Response to IR-EIS-03-88 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides context for milk data baseline	Submission of supplementary material to IR Package #3 Response to IR-EIS-03-88 in OPG Letter dated Aug.9, 2012 [8]	684	
Sec. 6.6.8.4	Radioactivity in Soil	Response to Information Requests	Provides additional information on the annual soil sampling program	Response to IR-EIS-03-82 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides context for soil baseline data	Submission of supplementary material to IR Package #3 Response to IR-EIS-03-82 in OPG Letter dated Aug.9, 2012 [8]	684	
Sec. 6.6.9	Radioactivity in Groundwater	Response to Information Requests	Provides additional information on the groundwater sampling program	Response to IR-EIS-03-81 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides context for baseline data for groundwater	Submission of supplementary material to IR Package #3 Response to IR-EIS-03-81 in OPG Letter dated Aug.9, 2012 [8]	684	

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			Provides additional information on data quality objectives for the Radiological Environmental Monitoring Program at the Bruce nuclear site	Response to IR-EIS-05-214 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides clarification on Well 231	Response to IR-EIS-06-230 in OPG Response to IR Package #6 Letter dated Oct.31, 2012 [16]	795	
			Provides clarification on Well 231	Response to IR-EIS-06-241 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 6.6.10	Radiation Doses to Members of the Public	Response to Information Requests	Provides selected examples of worker dose estimates as supporting information	Response to IR-EIS-01-27 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides qualitative assessment of radiation dose to Aboriginal groups	Response to IR-EIS-05-216 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 6.6.11	Radiation Doses to Workers	Response to Information Requests	Provides dose estimates for persons who will transfer waste packages from WWMF to DGR	Response to IR-EIS-01-28 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides selected examples of worker dose estimates as supporting information	Response to IR-EIS-01-27 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 6.6.12	Radiation Dose to Non-NEWs	Response to Information Requests	Provides clarification on radiological safety of workers during construction phase	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-25 Letter dated Jul.10, 2012 [6]	606	

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Sec. 6.7.1	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.7.2	Valued Ecosystem Components	Response to Information Requests	Provides clarification on the rationale for selection of indicators	Response to IR-EIS-08-322 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Sec. 6.7.3.1	Data Sources	Response to Information Requests	Provides clarification on data used in atmospheric modelling	Response to IR-EIS-04-131 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Sec. 6.7.3.3	Precipitation	Response to Information Requests	Provides additional information on precipitation data	Response to IR-EIS-04-131 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Sec. 6.7.5.1	Existing Air Quality in the Regional Study Area	Response to Information Requests	Provides additional information on the impact of NO _x emissions on ozone formation under regional conditions which lead to ozone exceedances	Response to IR-EIS-06-250 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 6.7.5.2	Background Air Quality	Response to Information Requests	Provides clarification on why 1-hr CO levels are exceeded by 8-hr CO levels	Response to IR-EIS-06-251 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Table 6.7.5-6	Background Air Quality	Response to Information Requests	Provides clarification on why 1-hr CO levels are exceeded by 8-hr CO levels	Response to IR-EIS-06-251 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 6.7.5.3	Existing Air Quality in the Local Study Area	Response to Information Requests	Provides additional information on air quality measurements	Response to IR-EIS-03-91 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on the rationale for selection of indicators	Response to IR-EIS-08-322 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	

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Sec. 6.8.1	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Table 6.8.4-1	Summary of Noise Levels at Off-Site Monitoring Locations	Response to Information Requests	Provides clarification of the sources of noise included	Response to IR-EIS-09-450 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Table 6.8.4-2	Existing Noise Levels at Off-Site Noise Monitoring Locations	Response to Information Requests	Provides clarification of the sources of noise included	Response to IR-EIS-09-450 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 6.9.1	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.9.7.1	Archaeological and Burial Sites	Response to Information Requests	Provides updates on status of the Jiibegmegoong burial site ceremony and monitoring protocol between SON and Ontario Hydro/OPG	Response to IR-EIS-02-42 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Sec. 6.10.1	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.10.3.1	Population and Demographics	Response to Information Requests	Provides additional information on population distribution within the Local Study Area	Response to IR-EIS-03-76 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.10.3.2	Other Human Assets (Emergency Preparedness)	Response to Information Requests	Provides additional information on population distribution within the Local Study Area	Response to IR-EIS-03-76 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.10.5.1	Housing	Response to Information Requests	Provides clarification on "private dwellings"	Response to IR-EIS-01-30 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
		Response to Undertakings	Provides additional information on the proportion of seasonal to year-round residences	Response to Undertaking SeTIS 1 from Mar.20 Technical Information Session #3 in OPG Letter dated Apr.19, 2013 [26]	968	
Sec. 6.10.5.5	Community Character	Response to Information Requests	Provides additional information on employment status of participants in the Public Attitude Research	Response to IR-EIS-05-218 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides additional information on visual assessment	Response to IR-EIS-05-226 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.10.6.1	Inverhuron Provincial Park	Response to Information Requests	Provides additional information on the terms of the Inverhuron Park lease and describes additional land outside of the Bruce nuclear site owned by OPG	Response to IR-EIS-08-337 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Table 6.10.8-2	Community Issues that Affect Feelings of Personal Health or Sense of Personal Safety	Response to Information Requests	Provides clarification on interpretation of reported data	Response to IR-EIS-03-71 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.10.8.3	Public Attitudes toward the Bruce Nuclear Site and the WWMF	Response to Information Requests	Provides analysis of confidence levels and errors associated with public attitude research data	Response to IR-EIS-03-70 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.10.8.4	Perspectives on Community Well-Being	Response to Information Requests	Provides additional information on the community well-being survey	Response to IR-EIS-03-70 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.11.2	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 6.11.4.1	Air Quality	Response to Information Requests	Provides additional information on receptor locations that best represent Métis communities	Response to IR-EIS-03-69 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.11.8.5	Cancer Incidence	Response to Information Requests	Provides additional information on rationale for the interpretation of data on cancer incidence	Response to IR-EIS-03-89 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Table 6.12-1	Summary of Existing Environment	Response to Information Requests	Provides clarification on acrolein used as an input for human health	Response to IR-EIS-01-09 in OPR Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 7.1	Assessment Methods	Response to Information Requests	Provides clarification on potential effects of the Waste Rock Management Area (WRMA) and stormwater management system on the groundwater table or near surface groundwater flow regime	Response to IR-EIS-03-57 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional information on assessment of residual adverse effects	Response to IR-EIS-03-93 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on potential effects of the Waste Rock Management Area on the local groundwater system	Response to IR-EIS-03-95 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional information on the method used in assessing significance of effects	Response to IR-EIS-08-362 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
			Provides additional information on the method used in determining level of irreversibility	Response to IR-EIS-08-362 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Table 7.1-1	Effects Criteria and Levels for Determining Significance	Response to Information Requests	Provides clarification on measures used to assess significance of residual adverse effects	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 7.2	Geology	Response to Information Requests	Provides justification for the assessment that near-surface porosity/permeability enhancement processes will have no impact on the performance of the DGR at the site, in support of the physical and hydraulic properties employed in the hydrogeological modeling	Response to IR-EIS-05-180 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides justification for the assessment that previously drilled (abandoned or active) boreholes identified within the RSA will not enhance solute/contaminant transport away from the DGR	Response to IR-EIS-05-178 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 7.2.1	Screening to Focus the Assessment	Response to Information Requests	Provides additional information on characteristics of waste rock pile runoff and potential effects	Response to IR-EIS-03-96 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on potential effects of the Waste Rock Management Area (WRMA) and stormwater management system on the groundwater table or near surface groundwater flow regime	Complete response to IR-EIS-03-57 in OPG Letter dated Aug.9, 2012 [8]	682	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 7.2.1.3	Overburden Groundwater, Shallow Bedrock Groundwater, Intermediate Bedrock Water and Deep Bedrock Water Quality	Response to Information Requests	Provides clarification on stormwater management of the DGR site	Response to IR-EIS-08-352 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Sec. 7.2.3	Significance of Residual Adverse Effects	Response to Information Requests	Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Sec. 7.3	Hydrology and Surface Water Quality	Response to Information Requests	Provides justification for the assessment that previously drilled (abandoned or active) boreholes identified within the RSA will not enhance solute/contaminant transport away from the DGR	Response to IR-EIS-05-178 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 7.3.1.1	Surface Water Quantity and Flow	Response to Information Requests	Provides additional information effects on changes in water flow and quality	Response to IR-EIS-05-190 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides additional information on effects on changes in water flow and quality	Response to IR-EIS-09-471 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 7.3.1.2	Surface Water Quality	Response to Information Requests	Provides additional information on characteristics of waste rock pile runoff and potential effects	Response to IR-EIS-03-96 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification of the use of natural variability in assessing effects	Response to IR-EIS-05-188 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides information on proposed mitigation monitoring of runoff from the waste rock pile	Response to IR-EIS-10-489 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
Sec. 7.3.2.2	Surface Water Quality	Response to Information Requests	Provides additional information on predicted effects and mitigation	Response to IR-EIS-04-130 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides additional information on surface water quality	Response to IR-EIS-05-185 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides additional information on the evaluation of nitrate concentrations	Response to IR-EIS-05-189 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides additional information on predicted effects and mitigation	Response to IR-EIS-08-391 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Table 7.3.2-2	Estimated Effects on Suspended Solids and Nitrate Concentration in Surface Water Due to Atmospheric Deposition during Construction	Response to Information Requests	Provides clarification on the calculations of the estimated effects on suspended solids and nitrate concentration in surface water due to atmospheric deposition during construction	Response to IR-EIS-04-146 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 7.3.3	Significance of Residual Adverse Effects	Response to Information Requests	Provides clarification on decision trees used in determination of significance of residual adverse effects	Response to IR-EIS-03-94 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Sec. 7.4.2.1	Plant Species; Mitigation Measures	Response to Information Requests	Provides additional information on mitigation measures	Response to IR-EIS-08-353 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
Table 7.4.2-1	Maximum Predicted Concentration at Ecological Receptors During the Site Preparation and Construction Phase	Response to Information Requests	Provides clarification on predicted air concentrations at selected ecological receptor locations	Response to IR-EIS-01-13 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 7.4.2.2	Wildlife Species	Response to Information Requests	Provides additional information on mitigation measures to prevent amphibians and reptiles from accessing the DGR site	Response to IR-EIS-10-490 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
Sec. 7.4.3	Significance of Residual Adverse Effects	Response to Information Requests	Provides clarification on decision trees used in determination of significance of residual adverse effects	Response to IR-EIS-03-94 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Sec. 7.5.1.4	VECs in Other Aquatic Habitats	Response to Information Requests	Provides additional information related to potential effects of Waste Rock Management Area (WRMA) construction and operation	Response to IR-EIS-03-55 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 7.5.3	Significance of Residual Adverse Effects	Response to Information Requests	Provides clarification on decision trees used in determination of significance of residual adverse effects	Response to IR-EIS-03-94 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Sec. 7.6.2	Identification and Assessment of Effects	Response to Information Requests	Provides clarification of the effective dose to nuclear energy workers	Response to IR-EIS-06-231 in OPG Response to IR Package #6 Letter dated Oct.31, 2012 [16]	795	
			Provides supplementary information on the stormwater management pond tritium level during the site preparation and construction and operation phases	Response to IR-EIS-10-483 in OPG Response to IR Package #10 Letter dated May 10, 2013 [29]	1048	
Sec. 7.6.2.1	Humans	Response to Information Requests	Provides additional information on radiological changes in groundwater quality	Response to IR-EIS-06-239 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 7.6.3	Significance of Residual Adverse Effects	Response to Information Requests	Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Sec. 7.7.2	Identification and Assessment of Effects	Response to Information Requests	Provides clarification on the sources included in the air modelling	Response to IR-EIS-08-324 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides clarification of the approach used in assessing effects	Response to IR-EIS-08-323 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 7.7.2.2	In-design Mitigation	Response to Information Requests	Provides additional information on dust emissions management	Response to IR-EIS-04-137 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 7.7.2.3	Likely Effects	Response to Information Requests	Provides additional information provided on emissions of compounds not selected as indicators for air quality	Response to IR-EIS-04-138 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides an explanation regarding the approach taken to identifying adverse effects	Response to IR-EIS-08-327 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Table 7.7.2-1	Air Quality In-design Mitigation	Response to Information Requests	Provides additional information on dust emissions management	Response to IR-EIS-04-137 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides clarification regarding NO _x emissions and Tier 3 emission standards associated with diesel engines	Response to IR-EIS-06-252 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
			Provides clarification of mitigation measures	Response to IR-EIS-08-328 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Table 7.7.2-2	Daily Site Preparation and Construction Phase Emissions	Response to Information Requests	Provides clarification on the emissions of NO _x , SO ₂ , and CO for the bounding case	Response to IR-EIS-01-12 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Table 7.7.2-3	Site Preparation and Construction Phase Adverse Effects to Air Quality in the Local Study Area	Response to Information Requests	Provides clarification on rationale used for determining the scenario for the bounding case for emission estimates (air quality)	Response to IR-EIS-01-12 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 7.7.2.4	Additional Mitigation Measures	Response to Information Requests	Provides additional information on dust emissions management	Response to IR-EIS-04-137 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 7.7.3	Significance of Residual Adverse Effects	Response to Information Requests	Provides clarification on decision trees used in determination of significance of residual adverse effects	Response to IR-EIS-03-94 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Fig. 7.7.3-1	Determination of Significance of Residual Adverse Effects for Air Quality	Response to Information Requests	Provides clarification on significant of residual adverse effects “decision tree” and effects of air quality on health	Response to IR-EIS-06-253 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 7.8.2.3	Likely Effects on Noise Levels	Response to Information Requests	Provides additional information on uncertainties associated with CadnaA noise model and assumptions addressing the uncertainties	Response to IR-EIS-03-97 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
		Response to Undertakings	Provides visual representation of noise modeling results	Response to Undertaking MTIS 3 from Oct.11 Technical Information Session #2 in OPG Letter dated Dec. 20, 2012 [20]	842	
Sec. 7.8.2.5	Additional Mitigation Measures	Response to Information Requests	Provides clarification on plans for mitigation of intermittent noise to be generated during site preparation and construction	Response to IR-EIS-09-454 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 7.8.3	Significance of Residual Adverse Effects	Response to Information Requests	Provides clarification on decision trees used in determination of significance of residual adverse effects	Response to IR-EIS-03-94 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Table 7.8.3-1	Effects Levels for Assigning Magnitude for Noise Levels	Response to Information Requests	Provides clarification on two definitions of low magnitude noise levels	Response to IR-EIS-05-225 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 7.9.2.2	Aboriginal Heritage Resources	Response to Information Requests	Provides updates on status of the Jibegmegoong burial site ceremony and monitoring protocol between SON and Ontario Hydro/OPG	Response to IR-EIS-02-42 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Sec. 7.9.3	Significance of Residual Adverse Effects	Response to Information Requests	Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Sec. 7.10.2.2	Other Human Assets	Response to Information Requests	Provides clarification on mine rescue support during construction and operation phases	Response to IR-LPSC-03-61 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 7.10.2.3	Employment (Likely Effects)	Response to Information Requests	Provides additional information explaining why boom and bust effects were not considered in the cumulative effects assessment	Response to IR-EIS-08-369 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Sec. 7.10.2.13	Other Social Assets	Response to Information Requests	Provides additional rationale with respect to the effects on community assets	Response to IR-EIS-08-368 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 7.11	Human Health	Response to Information Requests	Provides clarification on acrolein from an air quality perspective	Response to IR-EIS-01-09 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides additional information on acrolein standards and results in respect of the new criteria	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-09 Letter dated Jul.10, 2012 [6]	606	
			Provides additional information on acrolein standards and results in respect of the new criteria	Response to IR-EIS-05-223 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 7.12.1	Lake Huron	Response to Information Requests	Provides additional information on potential effects on Lake Huron	Response to IR-EIS-08-379 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
Sec. 7.12.3	South Railway Ditch	Response to Information Requests	Provides additional information on habitat for western chorus frog under existing conditions within the Project Area	Response to IR-EIS-05-170 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec 7.12.4	Wetland within the Project Area	Response to Information Requests	Provides additional information on snapping turtle under existing conditions within the Project Area	Response to IR-EIS-05-168 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides additional information on habitat for western chorus frog under existing conditions within the Project Area	Response to IR-EIS-05-170 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 7.14.1	Description of Predicted Changes in Climate	Response to Information Requests	Provides additional information on historic temperature and precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Table 7.14.1-1	Historic and Future Temperature Trends	Response to Information Requests	Provides additional information on historic temperature trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Table 7.14.1-2	Historic and Future Precipitation Trends	Response to Information Requests	Provides additional information on historic precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 7.14.3.2	Geology	Response to Information Requests	Provides additional geomechanical analyses to illustrate the influence of overburden removal during glacial events on barrier integrity of the Ordovician shale cap rocks	Response to IR-EIS-10-484 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
Sec. 7.15	Application of a Precautionary Approach	Response to Information Requests	Provides clarification regarding the application of the precautionary approach	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on how the precautionary approach provides a high level of confidence that the effects of the DGR Project will be less than the predicted effects	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification regarding the precautionary approach for air quality effects assessment and non-regulatory vs. regulatory frameworks	Response to IR-EIS-06-249 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 7.16	Application of Traditional Knowledge in the Assessment	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 8.1	Initiating Events	Response to Information Requests	Provides additional information on initiating event frequencies	Response to IR-EIS-01-03 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification of the likelihood of rock fall / rock burst	Response to IR-EIS-07-304 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Table 8.1-1	Summary of Initiating Events Considered	Response to Information Requests	Provides clarification of hurricane frequency	Response to IR-EIS-05-222 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 8.2.1.3	Potential Effects	Response to Information Requests	Provides clarification of the basis for the one hour public exposure duration, and of the mitigation measures. Provides also clarification that evacuation and long-term relocation do not need to be considered.	Response to IR-EIS-09-430 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 8.2.2.3	Potential Effects	Response to Information Requests	Provides additional analysis of hypothetical vertical faults	Complete response to IR-EIS-02-36 in OPG Letter dated Jun.28, 2012 [7]	581	
Sec. 8.2.3	Mitigation, Contingency Plans and Emergency Procedures	Response to Information Requests	Provides clarification on process by which analysis of initiating events is incorporated into design, training, and procedural development	Response to IR-LPSC-01-42 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on relevant radiological response programs/procedures and emergency response procedures	Response to IR-EIS-01-04 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 8.3.3.1	Fire Protection and Emergency Response	Response to Information Requests	Provides clarification on mine rescue support during operation	Response to IR-LPSC-03-61 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on emergency response and preparedness arrangements for the DGR project	Response to IR-EIS-06-269 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	

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Sec. 8.4	Malevolent Acts	Response to Information Requests	Provides a discussion of risk and consequences from aerial assault	Response to IR-EIS-08-355 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Sec. 9.2.2.4	Vertical Fault	Response to Information Requests	Provides clarification of basis for assumed faults	Response to IR-EIS-02-36 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
			Provides additional analysis of hypothetical vertical faults	Complete response to IR-EIS-02-36 in OPG Letter dated Jun.28, 2012 [7]	581	
Sec. 9.4.2	Disruptive Scenarios Results	Response to Information Requests	Provides additional analysis of hypothetical vertical faults	Complete response to IR-EIS-02-36 in OPG Letter dated Jun.28, 2012 [7]	581	
Sec. 9.4.5	Traditional Use of Land and Resources	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 10	Cumulative Effects	Response to Information Requests	Provides clarification on assessment of cumulative effects with respect to DGR workers	Response to IR-EIS-01-25 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 10.2	Cumulative Effects Assessment Method	Response to Information Requests	Provides information on how synergistic effects were considered in the effects assessment	Response to IR-EIS-08-358 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
			Provides additional information on the method used for assessing cumulative effects	Response to IR-EIS-08-361 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
Table 10.4-1	Past and Existing Project Descriptions	Response to Information Requests	Provides confirmation that the incinerator is included in the cumulative effects assessment	Response to IR-EIS-08-338 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	

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Table 10.4-2	Certain/Planned Project Descriptions	Response to Information Requests	Provides clarification on scope of WWMF upgrades	Response to IR-EIS-04-103 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Table 10.4-3	Reasonably Foreseeable Project Descriptions	Response to Information Requests	Provides clarification on cumulative effects assessment	Response to IR-EIS-04-110 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
			Provides additional information on DGR expansion plans	Response to IR-EIS-12-512 in OPG Letter dated Jan.22, 2014 [31]	1788	√
				Response to IR-EIS-12a-512 in OPG Letter dated Apr.4, 2014 [35]		√
Sec. 10.6.4	Air Quality	Response to Information Requests	Provides results of an initial assessment of the potential impact of DGR expansion on environment	Response to IR-EIS-12-512 in OPG Letter dated Jan.22, 2014 [31]	1788	√
Sec. 10.6.5	Noise Levels	Response to Information Requests	Provides results of an initial assessment of the potential impact of DGR expansion on environment	Response to IR-EIS-12-512 in OPG Letter dated Jan.22, 2014 [31]	1788	√
Sec. 10.6.6	Radiation and Radioactivity	Response to Information Requests	Provides additional information on cumulative radiological effects	Response to IR-EIS-06-232 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
			Provides additional information on cumulative doses estimates for members of the public	Response to IR-EIS-06-233 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
			Provides results of an initial assessment of the potential impact of DGR expansion on radiation exposure	Response to IR-EIS-12-512 in OPG Letter dated Jan.22, 2014 [31]	1788	√

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 11.1	Surface Water Resources	Response to Information Requests	Provides clarification regarding the application of sustainability	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 11.2	Geology and Groundwater Resources	Response to Information Requests	Provides clarification regarding the application of sustainability principles	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 11.3	Aquatic Resources	Response to Information Requests	Provides clarification regarding the application of sustainability principles	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec.12	Follow-up Program	Response to Information Requests	Provides additional information regarding the adequacy of the radiological environmental monitoring program in light of the DGR radionuclide inventory	Response to IR-EIS-03-67 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional information on follow-up monitoring during decommissioning and abandonment	Response to IR-EIS-06-235 in OPG Response to IR Package #6 Letter dated Oct.31, 2012 [16]	795	
			Provides additional information on the linkages between follow-up monitoring activities	Response to IR-EIS-08-359 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
			Provides additional information on contingency planning in the context of risk avoidance	Response to IR-EIS-09-411 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Table 12.2-1	Recommended Follow-up Monitoring	Response to Information Requests	Provides additional information regarding the adequacy of the radiological environmental monitoring program in light of the DGR radionuclide inventory	Response to IR-EIS-03-67 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on monitoring of tritium during construction	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-01 Letter dated Jul.10, 2012 [6]	606	
			Provides new information on waste rock monitoring	Response to IR-EIS-04-160 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides the rationale for location of monitoring station	Response to IR-EIS-05-174 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides additional rationale with respect to the effects on community assets	Response to IR-EIS-08-368 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
Table 13.1-1	Recommended Follow-up Monitoring for the Atmospheric Environment	Response to Information Requests	Provides clarification on the substances excluded from the proposed monitoring program	Response to IR-EIS-05-175 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 14	References – Sec.4	Response to Information Requests	Updates edition of NBCC	Response to IR-LPSC-01-01 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Updates revision number of Geoscientific Verification Plan	Response to IR-EIS-12-511 in OPG Response Letter dated Jan.30, 2014 [32]	1792	√
Appendix C, Sec. C1.1	Temporal and Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Appendix C, Sec. C2.3.1	Air Quality	Response to Information Requests	Provides clarification on acrolein used as an input for human health	Response to IR-EIS-01-09 in OPR Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides additional information on receptor locations that best represent Métis communities	Response to IR-EIS-03-69 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional information on acrolein standards and results in respect of the new criteria	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-09 Letter dated Jul.10, 2012 [6]	606	
			Provides additional information on acrolein standards and results in respect of the new criteria	Response to IR-EIS-05-223 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Appendix C, Sec. C.2.3.3.1	Members of the Public	Response to Information Requests	Provides dose estimates to aboriginal communities and seasonal users	Response to IR-EIS-06-234 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
Appendix C, Sec. C2.7.5	Cancer Incidence	Response to Information Requests	Provides additional information on rationale for the interpretation of data on cancer incidence	Response to IR-EIS-03-89 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Appendix C – Attachment 1	Human Health Risk Assessment	Response to Information Requests	Provides clarification on assessment of the inhalation risk of acrolein to persons on-site	Response to IR-EIS-01-29 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

Aquatic Environment TSD (NWMO DGR-TR-2011-01 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 2.4.2	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on the suitability of the study areas for the decommissioning and abandonment phases	Response to IR-EIS-05-182 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Fig. 3.1-1	Schematic of the DGR Project	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 4	Selection of Valued Ecosystem Components	Response to Information Requests	Provides additional information on selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-65 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Table 4-1	VECs Selected for Aquatic Environment	Response to Information Requests	Provides clarification regarding the selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-46 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 5.1.2	Field Studies	Response to Information Requests	Provides rationale for the field studies which were conducted in support of the DGR project for the aquatic environment	Response to IR-EIS-03-66 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on bass net sampling	Response to IR-EIS-07-291 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
			Provides clarification on the field study methods	Response to IR-EIS-07-291 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 5.3	Aquatic Habitat and Biota	Response to Information Requests	Provides clarification on aquatic species of natural conservation status within the Project Area	Response to IR-EIS-01-15 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

Aquatic Environment TSD (NWMO DGR-TR-2011-01 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on aquatic species of natural conservation status within the Project Area	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-15 Letter dated Jul.10, 2012 [6]	606	
			Provides clarification on benthic invertebrate surveys	Response to IR-EIS-07-291 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 5.3.1	South Railway Ditch	Response to Information Requests	Provides additional information on fish studies and aquatic habitat	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-14 Letter dated Jul.10, 2012 [6]	606	
Sec. 5.3.2	Stream C	Response to Information Requests	Provides additional information on fish studies and aquatic habitat	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-14 Letter dated Jul.10, 2012 [6]	606	
Sec. 5.3.2.4	Fish Community	Response to Information Requests	Provides clarification on fish and fish community data	Response to IR-EIS-01-14 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 5.3.3	Lake Huron and the Embayments	Response to Information Requests	Provides additional information on fish studies and aquatic habitat	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-14 Letter dated Jul.10, 2012 [6]	606	
			Provides additional information on periphyton and phytoplankton in MacPherson Bay	Response to IR-EIS-05-196 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides additional information on the suitability of MacPherson Bay as habitat	Response to IR-EIS-05-197 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	

Aquatic Environment TSD (NWMO DGR-TR-2011-01 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides additional Lake Whitefish baseline data	Response to IR-EIS-08-379 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
Sec. 5.3.4	Other Potential Aquatic Habitat	Response to Information Requests	Provides additional information on the absence of benthic invertebrate data	Response to IR-EIS-05-198 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.2.1.3	Excavation and Construction of Underground Facilities	Response to Information Requests	Provides additional information related to potential effects of Waste Rock Management Area (WRMA) construction and operation	Response to IR-EIS-03-55 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 7.4.2.2	Changes in Surface Water Quality	Response to Information Requests	Assesses the potential effects on Lake Whitefish of a 100-year storm or mechanical failure	Response to IR-EIS-08-379 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
Sec. 8.6.1	Application of Precautionary Approach in the Assessment	Response to Information Requests	Provides clarification regarding the application of the precautionary approach	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 8.6.2	Application of Traditional Knowledge in the Assessment	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Table 10.1-1	Historic and Future Temperature Trends	Response to Information Requests	Provides additional information on historic temperature trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Table 10.1-2	Historic and Future Precipitation Trends	Response to Information Requests	Provides additional information on historic precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

Aquatic Environment TSD (NWMO DGR-TR-2011-01 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 11	Significance of Residual Adverse Effects	Response to Information Requests	Provides clarification on decision trees used in determination of significance of residual adverse effects	Response to IR-EIS-03-94 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Table 11.1-1	Effects Criteria and Levels for Determining Significance	Response to Information Requests	Provides additional information on magnitude levels for determining significance	Response to IR-EIS-08-362 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
Sec. 12	Effects of the Project on Renewable and Non-Renewable Resources	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Appendix C	Fish Survey Data	Response to Information Requests	Provides clarification on fish and fish community data	Response to IR-EIS-01-14 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 2.2	Precautionary Approach	Response to Information Requests	Provides clarification regarding the precautionary approach for air quality effects assessment and non-regulatory vs. regulatory frameworks	Response to IR-EIS-06-249 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 2.4.2	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides clarification on the suitability of the study areas for the decommissioning and abandonment phases	Response to IR-EIS-05-182 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Fig. 3.1-1	Schematic of DGR Project	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 4	Selection of Valued Ecosystem Components	Response to Information Requests	Provides additional information on selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-65 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 4.1	Valued Ecosystem Components	Response to Information Requests	Provides clarification on the rationale for the selected VECs	Response to IR-EIS-08-321 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Sec. 4.2	Indicators	Response to Information Requests	Provides clarification on the rationale for selection of indicators	Response to IR-EIS-08-322 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Sec. 4.2.1	Air Quality	Response to Information Requests	Provides clarification on excluding acrolein as an air quality indicator	Response to IR-EIS-01-09 in OPR Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides additional information on acrolein standards and results in respect of the new criteria	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-09 Letter dated Jul.10, 2012 [6]	606	

Atmospheric Environment TSD (NWMO DGR-TR-2011-02 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides additional information on acrolein standards and results in respect of the new criteria	Response to IR-EIS-05-223 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 5.3.1	Data Sources	Response to Information Requests	Provides clarification on data used in atmospheric modelling	Response to IR-EIS-04-131 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Sec. 5.3.3	Precipitation	Response to Information Requests	Provides additional information on precipitation data	Response to IR-EIS-04-131 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Sec. 5.3.5	Other Meteorological and Climate Parameters	Response to Information Requests	Provides clarification of quality of on-site meteorological data	Response to IR-EIS-04-133 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Sec. 5.4.2	Existing Air Quality in the Local Study Area	Response to Information Requests	Provides additional information on air quality measurements	Response to IR-EIS-03-91 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 5.5	Noise Levels	Response to Information Requests	Provides clarification regarding the sounds of nature and monitoring baseline noise levels considered for evaluating project noise impacts	Response to IR-EIS-06-254 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Table 5.5.2-1	Summary of Noise Levels at Off-Site Monitoring Locations	Response to Information Requests	Provides clarification of the sources of noise included	Response to IR-EIS-09-450 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Table 5.5.2-2	Detailed Summary of Sound Levels Recorded at R1 in 2005	Response to Information Requests	Provides clarification of the sources of noise included	Response to IR-EIS-09-450 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	

Atmospheric Environment TSD (NWMO DGR-TR-2011-02 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Table 5.5.2-3	Detailed Summary of Sound Levels Recorded at R2 in 2005	Response to Information Requests	Provides clarification of the sources of noise included	Response to IR-EIS-09-450 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Table 5.5.2-4	Detailed Summary of Sound Levels Recorded at R3 in 2007	Response to Information Requests	Provides clarification of the sources of noise included	Response to IR-EIS-09-450 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Table 5.5.2-5	Existing Noise Levels at Off-Site Noise Monitoring Locations	Response to Information Requests	Provides clarification of the sources of noise included	Response to IR-EIS-09-450 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 7.2.3.2	Noise Levels	Response to Information Requests	Provides clarification on the blasting noise with respect to its effect on human health and mitigation	Response to IR-EIS-06-257 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 8.1	Assessment Methods	Response to Information Requests	Provides clarification of the approach used in assessing effects	Response to IR-EIS-08-323 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Sec. 8.1.1.1	Air Quality	Response to Information Requests	Provides an explanation regarding the approach taken to identifying adverse effects	Response to IR-EIS-08-327 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Sec. 8.2	Air Quality	Response to Information Requests	Provides clarification on the sources included in the air modelling	Response to IR-EIS-08-324 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides clarification on the rationale for the indicators assessed	Response to IR-EIS-08-322 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Table 8.2.2-1	Air Quality In-design Mitigation	Response to Information Requests	Provides additional information on dust emissions management	Response to IR-EIS-04-137 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

Atmospheric Environment TSD (NWMO DGR-TR-2011-02 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification of mitigation measures	Response to IR-EIS-08-328 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Sec. 8.2.3.1	Emissions	Response to Information Requests	Provides clarification on rationale used for determining the scenario for the bounding case for emission estimates (air quality)	Response to IR-EIS-01-12 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides additional information provided on emissions of compounds not selected as indicators for air quality	Response to IR-EIS-04-138 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides clarifications on SO ₂ emissions during site preparation and construction phase	Response to IR-EIS-04-140 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Table 8.2.3-1	Daily Site Preparation and Construction Phase Emissions	Response to Information Requests	Provides clarification on the emissions of NO _x , SO ₂ , and CO for a single bounding scenario of Stage 1	Response to IR-EIS-01-12 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification of modelled air emissions (i.e., blasting dust and non-combustive explosives included)	Response to IR-EIS-04-136 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides additional information on atmospheric emissions calculations	Response to IR-EIS-04-139 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 8.2.4	Additional Mitigation Measures	Response to Information Requests	Provides additional information on dust emissions management	Response to IR-EIS-04-137 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 8.3.3	Direct Effects	Response to Information Requests	Provides additional information on uncertainties associated with CadnaA noise model and assumptions addressing the uncertainties	Response to IR-EIS-03-97 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 8.3.3.2	Effects Predictions	Response to Undertakings	Provides visual representation of noise modeling results	Response to Undertaking MTIS 3 from Oct.11 Technical Information Session #2 in OPG Letter dated Dec. 20, 2012 [20]	842	
Sec. 8.3.4	Additional Mitigation Measures	Response to Information Requests	Provides clarification on plans for mitigation of intermittent noise to be generated during site preparation and construction	Response to IR-EIS-09-454 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 8.4.1	Application of a Precautionary Approach in the Assessment	Response to Information Requests	Provides clarification regarding the application of the precautionary approach	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 8.4.2	Application of Traditional Knowledge in the Assessment	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 11	Significance of Residual Adverse Effects	Response to Information Requests	Provides clarification on decision trees used in determination of significance of residual adverse effects	Response to IR-EIS-03-94 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√

Atmospheric Environment TSD (NWMO DGR-TR-2011-02 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Table 11.1.2-1	Effects Magnitude Levels for Noise	Response to Information Requests	Provides clarification on two definitions of low magnitude noise levels	Response to IR-EIS-05-225 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 12	Effects of the Project on Renewable and Non-Renewable Resources	Response to Information Requests	Provides clarification regarding the application of sustainability principles	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 13.1	Initial Scope of the Follow-up Monitoring Program	Response to Information Requests	Provides the rationale for location of monitoring station	Response to IR-EIS-05-174 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Appendix B, Table B-1	Basis for the EA	Response to Information Requests	Provides clarification on stages where blasting emissions could be expected	Response to IR-EIS-04-136 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix C	Meteorology and Climate	Response to Information Requests	Provides clarification on the rationale for the meteorological data used in the assessment	Response to IR-EIS-08-326 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Appendix C, Sec. C2	Data Sources	Response to Information Requests	Provides clarification on data used in atmospheric modelling	Response to IR-EIS-04-131 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Appendix C, Sec. C2.2	Meteorological Data Sources	Response to Information Requests	Provides clarification on QA/QC process for meteorology data; temperature data; use of 10-m and 50-m tower level readings; meteorological parameters and data sources	Response to IR-EIS-01-10 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification of meteorological data set	Response to IR-EIS-04-132 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	

Atmospheric Environment TSD (NWMO DGR-TR-2011-02 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification of quality of on-site meteorological data	Response to IR-EIS-04-133 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Appendix C, Sec. C2.3	Comparison of Dispersion Meteorology with Regional Stations	Response to Information Requests	Provides clarification on QA/QC process for meteorology data; temperature data; use of 10-m and 50-m tower level readings; meteorological parameters and data sources	Response to IR-EIS-01-10 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Appendix C, Sec. C5	Precipitation	Response to Information Requests	Provides additional information on precipitation data	Response to IR-EIS-04-131 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Appendix C, Sec. C8	Inversions and Mixing Heights	Response to Information Requests	Provides clarification of mixing heights	Response to IR-EIS-04-132 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Appendix C, C8.3	Lake Breeze and Thermal Internal Boundary Layer Phenomena	Response to Information Requests	Provides clarification on land-lake and thermal internal boundary layer phenomena	Response to IR-EIS-01-11 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Appendix D	Climate Change	Response to Information Requests	Provides more recent information on potential climate change effects on precipitation intensity	Response to IR-EIS-04-143 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
Appendix D, Table D2.3.3-1	Forecast Annual Temperature Trends	Correction	Provides updated information on forecast annual temperature trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix D, Table D2.3.3-2	Forecast Annual Precipitation Trends	Correction	Provides updated information on forecast annual precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

Atmospheric Environment TSD (NWMO DGR-TR-2011-02 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Appendix D, Table D2.3.3-3	Forecast Winter Temperature Trends	Correction	Provides updated information on forecast winter temperature trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix D, Table D2.3.3-4	Forecast Winter Precipitation Trends	Correction	Provides updated information on forecast winter precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix D, Table D2.3.3-5	Forecast Spring Temperature Trends	Correction	Provides updated information on forecast spring temperature trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix D, Table D2.3.3-6	Forecast Spring Precipitation Trends	Correction	Provides updated information on forecast spring precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix D, Table D2.3.3-7	Forecast Summer Temperature Trends	Correction	Provides updated information on forecast summer temperature trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix D, Table D2.3.3-8	Forecast Summer Precipitation Trends	Correction	Provides updated information on forecast summer precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix D, Table D2.3.3-9	Forecast Fall Temperature Trends	Correction	Provides updated information on forecast fall temperature trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix D, Table D2.3.3-10	Forecast Fall Precipitation Trends	Correction	Provides updated information on forecast fall precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

Atmospheric Environment TSD (NWMO DGR-TR-2011-02 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Appendix D, Sec. D3	Climate Trends for Use in Assessment	Correction	Provides additional information on historic temperature and precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix D, Table D3-1	Historic and Future Temperature Trends	Correction	Provides additional information on historic and future temperature trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix D, Table D3-2	Historic and Future Precipitation Trends	Correction	Provides additional information on historic and future precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix F	Air Modelling Methods	Response to Information Requests	Provides additional information on air dispersion and noise model uncertainties and treatment	Response to IR-EIS-04-112 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides clarification on the sources included in the air modelling	Response to IR-EIS-08-324 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Appendix F, Sec. F1	Air Dispersion Model	Response to Information Requests	Provides additional information on air dispersion modelling	Response to IR-EIS-03-90 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Appendix F, Table F4-2	Site Preparation and Construction Phase Air Quality Emissions Assumptions	Response to Information Requests	Provides clarification on how dust generated by the trucking and dumping of waste rock has been incorporated into the air quality model	Response to IR-EIS-04-148 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
		Correction	The "batch plant" row should be moved to first row on page F-23, above the sub-heading that reads "Excavation and Construction of Underground Facilities"	Response to IR-EIS-04-142 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

Atmospheric Environment TSD (NWMO DGR-TR-2011-02 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on the number of vehicles per hour hauling waste rock (i.e., correctly listed as 2 V/hr in the sample calculations, however, the base quantity is incorrectly shown as 5 V/hr)	Response to IR-EIS-04-148 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix F, Sec. F4.1.1	Sample Calculations	Response to Information Requests	Provides additional information on modification of emission calculations for near field loss	Response to IR-EIS-08-330 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
Appendix F, Sec F4.2	Site Preparation and Construction Phase	Response to Information Requests	Provides clarification on rationale used for determining the scenario for the bounding case for emission estimates (air quality)	Response to IR-EIS-01-12 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification of modelled air emissions (i.e., blasting dust and non-combustive explosives included)	Response to IR-EIS-04-136 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides additional information on atmospheric emissions calculations	Response to IR-EIS-04-139 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix G	Noise Modelling Methods	Response to Information Requests	Provides additional information on air dispersion and noise model uncertainties and treatment	Response to IR-EIS-04-112 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides clarification of the use of noise adjustments	Response to IR-EIS-09-432 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Appendix G Sec. G1.1	CadnaA Prediction Model	Response to Information Requests	Provides additional information on the noise modelling standard used	Response to IR-EIS-10-479 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	

Atmospheric Environment TSD (NWMO DGR-TR-2011-02 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Appendix G, Sec. G1.1.4	Model Uncertainty and Sensitivity	Response to Information Requests	Provides additional information on uncertainties associated with CadnaA noise model and assumptions addressing the uncertainties	Response to IR-EIS-03-97 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Appendix G, Sec. G4	Source Noise Emissions	Response to Information Requests	Provides clarification on use of variability in noise predictions	Response to IR-EIS-09-453 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Appendix I	Vibrations Assessment	Response to Information Requests	Provides clarification on vibrations assessment	Response to IR-EIS-06-257 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Appendix I, Sec. I6	Prediction of Peak Ground Vibration Levels	Response to Information Requests	Provides additional information on effects on Bruce A and B	Response to IR-EIS-07-303 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Appendix J, Sec. J1.1	Air Quality	Response to Information Requests	Provides additional information on location of maximum predicted concentrations of non-indicator compounds	Response to IR-EIS-04-141 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Appendix J, Table J.1.1.5-1	Nitrate Deposition for Stream C Catchment Area	Response to Information Requests	Provides clarification on the calculations of the estimated effects on suspended solids and nitrate concentration in surface water due to atmospheric deposition during construction	Response to IR-EIS-04-146 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

Atmospheric Environment TSD (NWMO DGR-TR-2011-02 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Appendix J, Sec. J1.2.2	Human Health Receptor Predictions	Response to Information Requests	Provides clarification regarding the rating levels and calculated %HA	Response to IR-EIS-06-255 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
			Provides clarification regarding the rating levels and calculated %HA	Response to IR-EIS-06-256 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	

Geology TSD (NWMO DGR-TR-2011-03 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 2.4.2	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides clarification on the suitability of the study areas for the decommissioning and abandonment phases	Response to IR-EIS-05-182 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Fig. 3.1-1	Schematic of DGR Project	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 4	Selection of Valued Ecosystem Components	Response to Information Requests	Provides additional information on selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-65 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 5	Description of Existing Environment	Response to Information Requests	Provides clarification regarding the rationale for the selection of the Cobourg Formation to host the DGR	Response to IR-EIS-03-73 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Fig. 5.1.2-1	Location of Deep DGR-Series and Shallow US-Series Boreholes	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 5.2	Traditional Knowledge and Aboriginal Sharing	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides clarification regarding the selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-46 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	

Geology TSD (NWMO DGR-TR-2011-03 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Fig. 5.3.1-1	Site Study Area with Locations of Monitoring Wells	Response to Information Requests	Provides additional information on locations of Waste Rock Management Area, shafts boreholes and monitoring wells	Response to IR-EIS-03-54 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 5.4	Overburden Geology	Response to Undertakings	Provides clarification on the environment of deposition and genetic aspects of the subsurface deposits found on the DGR site	Response to Undertaking TIS 4 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
Sec. 5.4.1	Site Study Area and Project Area	Response to Information Requests	Provides additional information on locations of Waste Rock Management Area, shafts boreholes and monitoring wells	Response to IR-EIS-03-54 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 5.5.1.8	Natural Resources	Response to Information Requests	Provides clarification on assessment of natural resources and the status of known historical oil and gas exploration wells drilled within 40 km of the site	Response to IR-EIS-05-162 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 5.5.2.11	Site-scale Structural Geology	Response to Information Requests	Provides clarification of interpreted fracture origin and timing related to new information related to geochronologic dating (U-Pb) of fracture infill calcites occurring in Devonian strata	Response to IR-EIS-10-484 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
Sec. 5.6	Hydrogeology (Groundwater and Solute Transport)	Response to Information Requests	Provides justification for the sufficiency of hydrogeologic modelling with respect to assessing the influence of a laterally continuous permeable unit at the base of the sedimentary sequence	Response to IR-EIS-04-126 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	

Geology TSD (NWMO DGR-TR-2011-03 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides justification for the sufficiency of hydrogeologic modelling with respect to assessing the influence of a laterally continuous permeable unit at the base of the sedimentary sequence	Response to IR-EIS-05-163 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides clarification regarding: 1) the confidence in the longevity of the abnormal pressures observed at the site, and 2) conservatism applied in the hydrogeologic and safety assessment modelling scenarios with regard to abnormal pressure evolution	Response to IR-EIS-04-113 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides clarification as to how the hydraulic parameters used to represent the shale formations in the hydrogeologic modelling were derived Provides justification for the hydrogeologic modelling discretization with respect to the Guelph and Salina A1 Unit aquifers	Response to IR-EIS-04-125 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 5.7.2	Hydrogeochemical Data from the Bruce Nuclear Site	Response to Information Requests	Provides additional information on Phase I and Phase II site assessments	Response to IR-EIS-05-219 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides additional information on soil quality in the DGR Project Area	Response to IR-EIS-05-220 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	

Geology TSD (NWMO DGR-TR-2011-03 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 5.7.2.1	Phase II ESA	Response to Information Requests	Provides supplementary soil quality information on select sites	Response to IR-EIS-09-470 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 5.7.3	Illustrative Modelling of the Bruce Nuclear Site Geochemistry	Response to Information Requests	Provides justification for the proposed conceptual model of solute transport	Response to IR-EIS-04-128 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 5.8	Soil Quality	Response to Information Requests	Provides additional information on soil quality in the DGR Project Area	Response to IR-EIS-05-220 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 5.9	Geomechanics	Response to Undertakings	Provides additional information on geoscientific characterization	Response to Undertaking TIS 15 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
		Response to Information Requests	Provides additional information on geoscientific characterization	Response to IR-EIS-08-372 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-373 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-374 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-375 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Provides additional information on geoscientific characterization	Response to IR-EIS-08-376 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886				

Geology TSD (NWMO DGR-TR-2011-03 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-377 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Sec. 5.9.2	Geomechanical Properties: Rock Strength	Response to Information Requests	Provides clarification on Cobourg Formation core strength	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides clarification on data used in determining core strength of the Georgian Bay formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides clarification on the variance in strength data for the Cobourg Formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides clarification of the description and tabulation of Poisson's ratio parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides clarification of evidence for the overall integrity of the Cobourg Formation at the DGR site	Response to IR-EIS-03-72 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 5.10	Regional Seismicity	Response to Information Requests	Provides clarification on seismic activity in Bruce region	Response to IR-EIS-03-75 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 6.2.1.3	Excavation and Construction of Underground Facilities	Response to Information Requests	Provides clarification regarding controlled drill and blast techniques for shaft sinking	Response to IR-LPSC-03-57 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	

Geology TSD (NWMO DGR-TR-2011-03 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 8.4	Overburden and Shallow Bedrock Groundwater Quality	Response to Information Requests	Provides additional information on characteristics of waste rock pile runoff and potential effects	Response to IR-EIS-03-96 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 8.8	Seismicity	Correction	Change on line 4, para 2 on p.249	Item #18 in OPG Corrections Letter dated Feb.10, 2012 [2]	335	
Sec. 8.9	Summary of Assessment	Correction	Change in last sentence on p.250	Item #19 in OPG Corrections Letter dated Feb.10, 2012 [2]	335	
Sec. 8.9.1	Application of Precautionary Approach in the Assessment	Response to Information Requests	Provides clarification regarding the application of the precautionary approach	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Table 10.1-1	Historic and Future Temperature Trends	Response to Information Requests	Provides additional information on historic temperature trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Table 10.1-2	Historic and Future Precipitation Trends	Response to Information Requests	Provides additional information on historic precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 11	Significance of Residual Adverse Effects	Response to Information Requests	Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Sec. 12	Effects of the Project on Renewable and Non-Renewable Resources	Response to Information Requests	Provides clarification regarding the application of sustainability principles	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	

Hydrology and Surface Water Quality TSD (NWMO DGR-TR-2011-04 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 2.4.2	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides clarification on the suitability of the study areas for the decommissioning and abandonment phases	Response to IR-EIS-05-182 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Fig. 3.1-1	Schematic of DGR Project	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 4	Selection of Valued Ecosystem Components	Response to Information Requests	Provides additional information on selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-65 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
		Response to Undertakings	Provides supplementary information on selection of indicators for surface water quality	Response to Undertaking TIS 13 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
Sec. 4.2.2	Surface Water Quality	Response to Information Requests	Provides clarification on the rationale for excluding hydrocarbons, oils and greases from the indicator list	Response to IR-EIS-05-227 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 5.1.2	Field Studies	Response to Information Requests	Provides rationale for the field studies which were conducted in support of the DGR project for hydrology and surface water quality	Response to IR-EIS-03-66 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 5.4.3	Surface Runoff and Drainage	Response to Information Requests	Provides an explanation of the absence of flow data in drainage ditches	Response to IR-EIS-07-299 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	

Hydrology and Surface Water Quality TSD (NWMO DGR-TR-2011-04 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Table 5.4.3-2	Drainage Areas and Flows in the DGR Surface Footprint	Response to Information Requests	Provides clarification on the calculations of the estimated effects on suspended solids and nitrate concentration in surface water due to atmospheric deposition during construction	Response to IR-EIS-04-146 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 5.5	Surface Water Quality	Response to Information Requests	Provides clarification on surface water quality	Response to IR-EIS-03-79 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides surface water quality data for control sites	Response to IR-EIS-07-293 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 5.5.1	Surface Water Quality in Lake Huron and Embayments	Response to Information Requests	Provides results of surface water quality monitoring completed in MacPherson Bay post-submission	Response to IR-EIS-08-387 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
Table 5.5.1-1	Summary of Lake Huron Water Quality Sampling Results	Response to Information Requests	Provides clarification on surface water quality in Lake Huron	Response to IR-EIS-03-79 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 5.5.2	Water Quality in Surface Drainage Features in Site Study Area	Response to Information Requests	Provides additional information on discharges to the South Railway Ditch	Response to IR-EIS-07-299 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 5.5.2.1	Surface Water Quality Sampling Program	Response to Information Requests	Provides rationale for the field studies which were conducted in support of the DGR project for hydrology and surface water quality	Response to IR-EIS-03-66 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	

Hydrology and Surface Water Quality TSD (NWMO DGR-TR-2011-04 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 5.5.2.4	Water Temperature	Response to Information Requests	Provides additional information on surface water quality (i.e., temperature)	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-14 Letter dated Jul.10, 2012 [6]	606	
Sec. 5.5.2.5	Metals	Response to Information Requests	Provides additional information on sediment quality data	Response to IR-EIS-03-86 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 5.5.2.7	Sediment Quality	Response to Information Requests	Provides additional information on the annual sediment sampling program	Response to IR-EIS-03-83 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides additional information on sediment quality data	Response to IR-EIS-03-86 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides additional baseline information on sediment quality in the Site and Local Study Areas	Response to IR-EIS-07-295 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 7.2.2	Indirect Changes	Response to Information Requests	Provides additional information on potential for infiltration	Response to IR-EIS-09-473 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 7.3	Surface Water Quality	Response to Information Requests	Provides clarification of the use of natural variability in assessing effects	Response to IR-EIS-05-188 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 7.3.1.1	Discharge of Stormwater from the DGR Project Site	Response to Undertakings	Provides additional information on site drainage and stormwater management	Response to Undertaking TIS 10 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
Sec. 7.3.2.2	Changes in Surface Water Quantity and Flow	Response to Information Requests	Provides additional information effects on changes in water flow and quality	Response to IR-EIS-05-190 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	

Hydrology and Surface Water Quality TSD (NWMO DGR-TR-2011-04 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides additional information on effects on changes in water flow and quality	Response to IR-EIS-09-471 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 8.2	Surface Water Quantity and Flow	Response to Information Requests	Provides clarification of effects on groundwater recharge and Stream C	Response to IR-EIS-07-298 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 8.3	Surface Water Quality	Response to Information Requests	Provides additional information on characteristics of waste rock pile runoff and potential effects	Response to IR-EIS-03-96 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides additional information on surface water quality	Response to IR-EIS-05-185 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides additional information on the evaluation of nitrate concentrations	Response to IR-EIS-05-189 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides information on proposed mitigation monitoring of runoff from the waste rock pile	Response to IR-EIS-10-489 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
Sec. 8.3.2	In-design Mitigation	Response to Information Requests	Provides additional information on potential mitigation measures	Response to IR-EIS-04-130 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
Sec. 8.3.3	Direct Effects	Response to Information Requests	Provides additional information on predicted effects	Response to IR-EIS-04-130 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	

Hydrology and Surface Water Quality TSD (NWMO DGR-TR-2011-04 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Table 8.3.4.1	Estimated Effects on Suspended Solids and Nitrate Concentration in Surface Water Due to Atmospheric Deposition during Construction	Response to Information Requests	Provides clarification on the calculations of the estimated effects on suspended solids and nitrate concentration in surface water due to atmospheric deposition during construction	Response to IR-EIS-04-146 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 8.4.1	Application of a Precautionary Approach in the Assessment	Response to Information Requests	Provides clarification regarding the application of the precautionary approach	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 8.4.2	Application of Traditional Knowledge in the Assessment	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Table 10.1-1	Historic and Future Temperature Trends	Response to Undertakings	Provides clarification on temperature trends	Response to Undertaking TIS 7 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
		Response to Information Requests	Provides additional information on historic temperature trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Table 10.1-2	Historic and Future Precipitation Trends	Response to Undertakings	Provides clarification on precipitation trends	Response to Undertaking TIS 7 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
		Response to Information Requests	Provides additional information on historic precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

Hydrology and Surface Water Quality TSD (NWMO DGR-TR-2011-04 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 10.4	Effects of the DGR Project on Climate Change	Response to Undertakings	Provides clarification on the effects of the DGR project on climate change	Response to Undertaking TIS 7 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
Sec. 11	Significance of Residual Adverse Effects	Response to Information Requests	Provides clarification on decision trees used in determination of significance of residual adverse effects	Response to IR-EIS-03-94 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Sec. 12	Effects of the Project on Renewable and Non-Renewable Resources	Response to Information Requests	Provides clarification regarding the application of sustainability principles	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 15	References	Correction	Change in Reference 18 on p.128	Item #20 in OPG Corrections Letter dated Feb.10, 2012 [2]	335	
Appendix D	Summary of Water Quality Criteria	Response to Information Requests	Provides corrected/new reference criteria, for comparison only	Response to IR-EIS-07-294 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Appendix E	2007 and 2009 Surface Water Sampling Results	Response to Information Requests	Provides clarification on surface water sampling program results	Response to IR-EIS-03-79 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Appendix F	2009 Sediment Sampling Results	Response to Information Requests	Provides additional information on the annual sediment sampling program	Response to IR-EIS-03-83 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides additional information on sediment quality data	Response to IR-EIS-03-86 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	

Hydrology and Surface Water Quality TSD (NWMO DGR-TR-2011-04 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides additional baseline information on sediment quality in the Site and Local Study Areas	Response to IR-EIS-07-295 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Appendix G, Sec. G1.3	Nitrate Concentration Increase	Response to Information Requests	Provides clarification on the calculations of the estimated effects on suspended solids and nitrate concentration in surface water due to atmospheric deposition during construction	Response to IR-EIS-04-146 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

Terrestrial Environment TSD (NWMO DGR-TR-2011-05 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 2.4.2	Spatial Boundaries	Response to Information Requests	Provides clarification on the suitability of the study areas for the decommissioning and abandonment phases	Response to IR-EIS-05-182 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Fig. 3.1-1	Schematic of DGR Project	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 4	Selection of Valued Ecosystem Components	Response to Information Requests	Provides additional information on selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-65 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 4.1	Selection of VECs	Response to Information Requests	Provides clarification regarding the selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-46 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 5.3	Field Programs	Response to Information Requests	Provides rationale for the field studies which were conducted in support of the DGR project for the terrestrial environment	Response to IR-EIS-03-66 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 5.4.1	Site Study Area and Project Area	Response to Information Requests	Provides additional information on condition and qualities of the wetlands	Response to IR-EIS-03-85 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides information on the occurrence of dwarf lake iris within the study areas	Response with additional information for IR-EIS-01-15 in OPG Letter dated Aug.9, 2012 [8]	683	
			Provides additional information on wetland and aquatic community types that occur within the Project Area and the Site Study Area	Response to IR-EIS-05-168 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Fig.5.4.1-1	ELC Mapping in the Site Study Area	Response to Information Requests	Provides additional information on condition and qualities of the wetlands	Response to IR-EIS-03-85 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	

Terrestrial Environment TSD (NWMO DGR-TR-2011-05 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 5.7.1.3	Herpetofauna	Response to Information Requests	Provides additional information on western chorus frog under existing conditions within the Project Area and Site Study Area	Response to IR-EIS-05-170 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides clarification on observation of Western Chorus Frog	Response to IR-EIS-10-498 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
Sec. 5.7.2.1	Birds	Response to Information Requests	Provides additional information on why Type E botulism mortalities in waterfowl are not influenced by the operations at the Bruce nuclear site	Response to IR-EIS-05-193 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 5.8	Significant Species	Response to Information Requests	Provides additional information on species at risk within the study area	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-15 Letter dated Jul.10, 2012 [6]	606	
			Provides additional information on species at risk under existing conditions within the study areas	Response with additional information for IR-EIS-01-15 in OPG Letter dated Aug.9, 2012 [8]	683	
			Provides additional information on snapping turtle under existing conditions within the Project Area and Site Study Area	Response to IR-EIS-05-168 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides additional information on western chorus frog under existing conditions within the Project Area and Site Study Area	Response to IR-EIS-05-170 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides additional information on searches conducted in relation to select significant species	Response to IR-EIS-08-370 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	

Terrestrial Environment TSD (NWMO DGR-TR-2011-05 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides supplementary information on select significant species	Response to IR-EIS-10-498 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
Table 5.8.3-2	Provincially Significant Wildlife Species in Regional Study Area Based on a Review of the NHIC Database	Response to Information Requests	Provides clarification on the assessment of the Eastern Hognose Snake	Response to IR-EIS-05-169 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 7.3.1.4	Herpetofauna	Response to Information Requests	Provides additional information on species at risk within the study area	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-15 Letter dated Jul10, 2012 [6]	606	
			Provides information on mitigation measures to avoid unacceptable effects on snapping turtles	Response to IR-EIS-09-477 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 8.2	Plant Species	Response to Information Requests	Provides additional information on potential effects of the DGR Project on species of conservation concern (dwarf lake iris)	Response with additional information for IR-EIS-01-15 in OPG Letter dated Aug.9, 2012 [8]	683	
Sec. 8.2.3	Mitigation Measures	Response to Information Requests	Provides additional information on mitigation measures	Response to IR-EIS-08-353 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
Sec. 8.3	Wildlife Species	Response to Information Requests	Provides additional information on potential effects of the DGR Project on species of conservation concern	Response with additional information for IR-EIS-01-15 in OPG Letter dated Aug.9, 2012 [8]	683	

Terrestrial Environment TSD (NWMO DGR-TR-2011-05 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 8.3.2	Likely Effects	Response to Information Requests	Provides information about habitat usage and potential effects of the DGR Project on Canada warbler and eastern meadowlark	Response to IR-EIS-07-305 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 8.3.3	Mitigation Measures	Response to Information Requests	Provides additional information on mitigation measures to prevent amphibians and reptiles from accessing the DGR site	Response to IR-EIS-10-490 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
Sec. 8.5.1	Application of a Precautionary Approach in the Assessment	Response to Information Requests	Provides clarification regarding the application of the precautionary approach	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 8.5.2	Application of Traditional Knowledge in the Assessment	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides clarification regarding the selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-46 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Table 10.1-1	Historic and Future Temperature Trends	Response to Information Requests	Provides additional information on historic temperature trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Table 10.1-2	Historic and Future Precipitation Trends	Response to Information Requests	Provides additional information on historic precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 11	Significance of Residual Adverse Effects	Response to Information Requests	Provides clarification on decision trees used in determination of significance of residual adverse effects	Response to IR-EIS-03-94 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	

Terrestrial Environment TSD (NWMO DGR-TR-2011-05 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Sec. 12	Effects of the Project on Renewable and Non-Renewable Resources	Response to Information Requests	Provides clarification regarding the application of sustainability principles	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Appendix C, Table C-4	Significant Wildlife Species in Bruce County Based on a Review of the Natural Heritage Information Centre Database (2006)	Response to Information Requests	Provides updates based on recent additions to designated species	Response to IR-EIS-07-305 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	

Radiation and Radioactivity TSD (NWMO DGR-TR-2011-06 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 2.4.2	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides clarification on the suitability of the study areas for the decommissioning and abandonment phases	Response to IR-EIS-05-182 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 4	Selection of Valued Ecosystem Components	Response to Information Requests	Provides additional information on selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-65 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 4.1	Valued Ecosystem Components	Response to Information Requests	Provides additional information on sensitivity to radiation of indicator species	Response to IR-EIS-05-215 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 4.1.2	Benthic Invertebrates	Response to Information Requests	Provides clarification on the Valued Ecosystem Component selection for the radiation and radioactivity assessment	Response to IR-EIS-07-286 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Fig. 3.1-1	Schematic of DGR Project	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 5.4.2	Releases to Water	Response to Information Requests	Provides additional information on radioactivity in effluent from the WWMF	Response to IR-EIS-07-288 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
		Correction	Corrects action level for gross beta in liquid effluent	Response to IR-EIS-07-288 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Table 5.4.1-1	Annual Releases to Air in Gaseous Effluent from Bruce Nuclear Site	Response to Information Requests	Provides additional information on historic releases and rationale for changes	Response to IR-EIS-07-287 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	

Radiation and Radioactivity TSD (NWMO DGR-TR-2011-06 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 5.5	Radioactivity in the Atmospheric Environment	Response to Information Requests	Provides additional information on data quality objectives for the Radiological Environmental Monitoring Program at the Bruce nuclear site	Response to IR-EIS-05-214 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides clarification that no additional information on specific radionuclides in particulate and noble gases is available	Response to IR-EIS-06-238 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
Sec. 5.5.2	Tritium in Precipitation	Response to Information Requests	Provides more recent data on tritium concentrations in precipitation in the Local Study Area	Response to IR-EIS-07-289 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 5.5.3	Radioactive Particulate	Response to Information Requests	Provides clarification on gross beta deposition	Response to IR-EIS-05-208 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides clarification on C-14 concentration in air	Response to IR-EIS-05-209 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Fig. 5.5.3-1	Annual Average Gross Beta Deposition Rate in the Local Study Area	Response to Information Requests	Provides clarification on gross beta deposition	Response to IR-EIS-05-208 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides clarification on C-14 concentration in air	Response to IR-EIS-05-209 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	

Radiation and Radioactivity TSD (NWMO DGR-TR-2011-06 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Fig. 5.5.3-2	Annual Average Gross Beta Deposition Rate in the Regional Study Area	Response to Information Requests	Provides clarification on gross beta deposition	Response to IR-EIS-05-208 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides clarification on C-14 concentration in air	Response to IR-EIS-05-209 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 5.6	Radioactivity in Surface Water	Response to Information Requests	Provides clarification on tritium and gross beta in surface water; list of radionuclides sampled	Response to IR-EIS-05-210 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides additional information on data quality objectives for the Radiological Environmental Monitoring Program at the Bruce nuclear site	Response to IR-EIS-05-214 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 5.6.1	Tritium and Gross Beta in Surface Water	Response to Information Requests	Provides additional information on drinking water monitoring program	Response to IR-EIS-03-78 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 5.7	Radioactivity in the Aquatic Environment	Response to Information Requests	Provides additional information on data quality objectives for the Radiological Environmental Monitoring Program at the Bruce nuclear site	Response to IR-EIS-05-214 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 5.7.1	Radioactivity in Sediments	Response to Information Requests	Provides additional information on the annual sediment sampling program	Response to IR-EIS-03-83 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides additional information sediment quality data	Response to IR-EIS-03-86 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	

Radiation and Radioactivity TSD (NWMO DGR-TR-2011-06 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides context for baseline for sediments	Submission of supplementary material to IR Package #3 Response to IR-EIS-03-83 in OPG Letter dated Aug.9, 2012 [8]	684	
			Provides additional data on radionuclides in sediment in the Site Study Area	Response to IR-EIS-06-238 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
Sec. 5.7.2	Shoreline Gamma Survey	Response to Information Requests	Provides additional information on shoreline gamma survey	Response to IR-EIS-03-87 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 5.7.3	Radioactivity in Fish	Response to Information Requests	Provides additional information on the annual fish sampling program	Response to IR-EIS-03-84 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides context for fish data baseline	Submission of supplementary material to IR Package #3 Response to IR-EIS-03-84 in OPG Letter dated Aug. 9, 2012 [8]	684	
Sec. 5.8	Radioactivity in the Terrestrial Environment	Response to Information Requests	Provides additional information on data quality objectives for the Radiological Environmental Monitoring Program at the Bruce nuclear site	Response to IR-EIS-05-214 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 5.8.1	Vegetation	Response to Information Requests	Provides additional information on the annual garden fruit and vegetable and agricultural plant sampling program	Response to IR-EIS-03-88 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides context for vegetation data baseline	Submission of supplementary material to IR Package #3 Response to IR-EIS-03-88 in OPG Letter dated Aug.9, 2012 [8]	684	

Radiation and Radioactivity TSD (NWMO DGR-TR-2011-06 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 5.8.2	Milk	Response to Information Requests	Provides additional information on the weekly milk sampling program	Response to IR-EIS-03-88 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides context for milk data baseline	Submission of supplementary material to IR Package #3 Response to IR-EIS-03-88 in OPG Letter dated Aug.9, 2012 [8]	684	
Sec. 5.8.4	Radioactivity in Soil	Response to Information Requests	Provides additional information on the annual soil sampling program	Response to IR-EIS-03-82 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides context for soil baseline data	Submission of supplementary material to IR Package #3 Response to IR-EIS-03-82 in OPG Letter dated Aug. 9 [8]	681	
Sec. 5.9	Radioactivity in Groundwater	Response to Information Requests	Provides additional information on the groundwater sampling program	Response to IR-EIS-03-81 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides context for baseline data for groundwater	Submission of supplementary material to IR Package #3 Response to IR-EIS-03-81 in OPG Letter dated Aug.9, 2012 [8]	684	
			Provides additional information on data quality objectives for the Radiological Environmental Monitoring Program at the Bruce nuclear site	Response to IR-EIS-05-214 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides information on depth of wells monitoring in the Radiological Environmental Monitoring Program	Response to IR-EIS-08-388 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	

Radiation and Radioactivity TSD (NWMO DGR-TR-2011-06 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Table 5.9-2	Tritium Level in Bruce A and Bruce B Groundwater Monitoring Wells	Correction	Provides corrected information on monitoring location well number and level	Response to IR-EIS-06-240 in OPG Response to IR Package #6 Letter dated Oct.31, 2012 [16]	795	
Sec. 5.10	Radiation Doses to Members of the Public	Response to Information Requests	Provides qualitative assessment of radiation dose to Aboriginal groups	Response to IR-EIS-05-216 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Table 5.10-2	Radionuclides and Pathways to Critical Groups	Response to Information Requests	Provides qualitative assessment of radiation dose to Aboriginal groups	Response to IR-EIS-05-216 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Table 5.10-3	Human Attributes	Response to Information Requests	Provides updated inhalation rates and doses	Response to IR-EIS-06-242 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
Sec. 5.11.2	Radiation Dose to Non-NEWs	Response to Information Requests	Provides clarification on radiological safety of workers during construction phase	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-25 Letter dated Jul.10, 2012 [6]	606	
Table 5.12-1	Summary of Existing Radiation and Radioactivity	Response to Information Requests	Provides reference to OPG "Dose Limits and Exposure Control" procedure, which sets non-NEW Exposure Control Level of 100 µSv/a	Response to IR-EIS-09-431 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 7	Second Screening for Measurable Change	Response to Undertakings	Provides qualitative assessment of radiation exposure to individual representatives of highly valued species of non-human biota	Response to Undertaking MTIS 1 from Oct.11 Technical Information Session #2 in OPG Letter dated Dec. 20, 2012 [20]	842	
			Provides qualitative assessment of radiation exposure to individual representatives of highly valued species of non-human biota	Response to Undertaking MTIS 2 from Oct.11 Technical Information Session #2 in OPG Letter dated Dec. 20, 2012 [20]	842	

Radiation and Radioactivity TSD (NWMO DGR-TR-2011-06 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 8.1.1.1	Dose Criteria for Members of the Public and Workers	Response to Information Requests	Provides clarification of the effective dose to nuclear energy workers	Response to IR-EIS-06-231 in OPG Response to IR Package #6 Letter dated Oct.31, 2012 [16]	795	
Sec. 8.1.5	Application of Precautionary Approach in the Assessment	Response to Information Requests	Provides clarification regarding the application of the precautionary approach	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 8.1.6	Application of Traditional Knowledge in the Assessment	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 8.2	Humans	Response to Information Requests	Provides dose calculations for critical groups	Response to IR-EIS-06-243 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
Sec. 8.2.5	Potential Dose to Members of the Public	Response to Information Requests	Provides supplementary information on the stormwater management pond tritium level during the site preparation and construction and operation phases	Response to IR-EIS-10-483 in OPG Response to IR Package #10 Letter dated May 10, 2013 [29]	1048	
Sec. 8.2.5.1	Dose from Airborne and Waterborne Releases	Response to Information Requests	Provides additional information on radiological changes in groundwater quality	Response to IR-EIS-06-239 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 8.3.3	Non-human Biota Exposure to Radiation	Response to Information Requests	Provides supplementary information on the stormwater management pond tritium level during the site preparation and construction and operation phases	Response to IR-EIS-10-483 in OPG Response to IR Package #10 Letter dated May 10, 2013 [29]	1048	
Table 10.1-1	Historic and Future Temperature Trends	Response to Information Requests	Provides additional information on historic temperature trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

Radiation and Radioactivity TSD (NWMO DGR-TR-2011-06 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Table 10.1-2	Historic and Future Precipitation Trends	Response to Information Requests	Provides additional information on historic precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 11	Significance of Residual Adverse Effects	Response to Information Requests	Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Sec. 12	Effects of the Project on Renewable and Non-Renewable Resources	Response to Information Requests	Provides clarification regarding the application of sustainability principles	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Table 13.1-1	Potential Follow-up Monitoring Related to Radiation and Radioactivity	Response to Information Requests	Provides clarification on monitoring of tritium during construction	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-01 Letter dated Jul.10, 2012 [6]	606	
Appendix D	Detailed Radiation Dose Calculations (Humans)	Response to Information Requests	Provides clarification of release rate time unit	Response to IR-EIS-06-244 in OPG Response to IR Package #6 Letter dated Oct.31, 2012 [16]	795	
Appendix D, Sec. D2	Estimated Dose to the Public – Sample Calculation for Dose from C-14 through the Air Pathway	Response to Information Requests	Provides doses to the public based on a detailed pathway analysis specific to the DGR Project	Response to IR-EIS-06-245 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	

Malfunctions, Accidents and Malevolent Acts TSD (NWMO DGR-TR-2011-07 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 3.1-1	Schematic of DGR Project	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 3.2	Initiating Events – Site Preparation and Construction, Operations, and Decommissioning Phases	Response to Information Requests	Provides clarification of the likelihood of rock fall / rock burst	Response to IR-EIS-07-304 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843
Table 3.2-1	Summary of the Initiating Events Considered	Response to Information Requests	Provides clarification that explosions are considered credible accident for the site preparation and construction phase	Response to IR-EIS-01-03 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 4.3.1.1	Members of the Public	Response to Information Requests	Provides clarification of the basis for the one hour public exposure duration, and of the mitigation measures	Response to IR-EIS-09-430 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957
Sec. 4.3.2.1	Humans	Response to Information Requests	Provides additional analysis of hypothetical vertical faults	Complete response to IR-EIS-02-36 in OPG Letter dated Jun.28, 2012 [7]	581
Sec. 4.4	Mitigation, Contingency Plans and Emergency Preparedness	Response to Information Requests	Provides clarification on relevant radiological response programs/ procedures and emergency response procedures	Response to IR-EIS-01-04 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 5.4.1.1	Spill of Fuels, Chemicals, Lubricants or Oils	Response to Information Requests	Provides additional information on the rationale for the size of spills considered	Response to IR-EIS-07-279 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843
Sec. 6	Malevolent Acts	Response to Information Requests	Provides clarification on threats and theft as potential malevolent acts	Response to IR-EIS-05-195 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793

Malfunctions, Accidents and Malevolent Acts TSD (NWMO DGR-TR-2011-07 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides estimated public doses due to malevolent acts	Response to IR-EIS-06-248 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823
			Provides a discussion of risk and consequences from aerial assault	Response to IR-EIS-08-355 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902

Socio-Economic Environment TSD (NWMO DGR-TR-2011-08 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 2.4.2	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608
			Provides clarification on the suitability of the study areas for the decommissioning and abandonment phases	Response to IR-EIS-05-182 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776
Fig. 3.1-1	Schematic of DGR Project	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 4	Selection of VECs	Response to Information Requests	Provides clarification regarding the selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-46 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608
			Provides additional information on selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-48 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608
			Provides additional information on selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-65 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608
Sec. 5.1.1.1	Field Studies	Response to Information Requests	Provides clarification on the 2009 Public Attitude Research	Response to IR-EIS-01-31 in OPG Response IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides clarification on site neighbour survey protocol	Response to IR-EIS-03-77 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608
Sec. 5.2	Traditional Aboriginal Knowledge	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608

Socio-Economic Environment TSD (NWMO DGR-TR-2011-08 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 5.4.1	Population and Demographics	Response to Information Requests	Provides additional information on population distribution within the Local Study Area	Response to IR-EIS-03-76 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608
Sec. 5.4.2.3	Health and Safety Facilities and Services	Response to Information Requests	Provides additional information on population distribution within the Local Study Area	Response to IR-EIS-03-76 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608
Sec. 5.5.1	Employment	Response to Information Requests	Provides clarification on employment of aboriginal peoples at Bruce nuclear site	Response to IR-EIS-05-221 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776
Sec. 5.6.1	Housing	Response to Information Requests	Provides clarification on permanent private dwellings	Response to IR-EIS-01-30 in OPG Response IR Package #1 Letter dated Mar.9, 2012 [3]	363
		Response to Undertakings	Provides additional information on the proportion of seasonal to year-round residences	Response to Undertaking SeTIS 1 from Mar.20 Technical Information Session #3 in OPG Letter dated Apr.19, 2013 [26]	968
Sec. 5.6.3.2	Transportation Infrastructure	Response to Information Requests	Provides clarification of traffic volume estimates	Response to IR-EIS-05-199 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793
Sec. 5.9	Public Attitudes Toward Personal and Community Well-Being	Response to Information Requests	Provides additional information on the community well-being survey	Response to IR-EIS-03-70 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608
			Provides additional information on employment status of participants in the Public Attitude Research	Response to IR-EIS-05-218 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776

Socio-Economic Environment TSD (NWMO DGR-TR-2011-08 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Table 5.9.1-2	Community Issues that Affect Feelings of Personal Health or Sense of Personal Safety	Response to Information Requests	Provides clarification on interpretation of reported data	Response to IR-EIS-03-71 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608
Sec. 6.11.8.5	Cancer Incidence	Response to Information Requests	Provides additional information on cancer risk factors in Bruce County	Response to IR-EIS-08-390 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915
Table 8.3.1-2	DGR Project Associated Population Summary	Response to Information Requests	Provides clarification of population projections	Response to IR-EIS-05-184 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776
Sec. 8.4.1.1	Likely Effects (Employment)	Response to Information Requests	Provides additional information explaining why boom and bust effects were not considered in the cumulative effects assessment	Response to IR-EIS-08-369 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902
Sec. 8.5.3.3	Community Character	Response to Information Requests	Provides additional rationale with respect to the effects on community assets	Response to IR-EIS-08-368 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915
Sec. 8.6.2.1	Cultural and Heritage Resources	Response to Information Requests	Provides the location of heritage sites in the Local Study Area and confirms that there are no buildings 40 years old or more that will be removed or demolished	Response to IR-EIS-08-332 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886
			Confirms that no cultural landscapes, structures, marine archaeology and engineering works of cultural heritage value will be affected by the DGR Project	Response to IR-EIS-08-331 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902

Socio-Economic Environment TSD (NWMO DGR-TR-2011-08 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 8.8.1.2	Noise	Response to Information Requests	Provides clarification on noise thresholds and frequency changes, variable modulation, increased impulsiveness	Response to IR-EIS-06-256 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823
Sec. 8.9.3	Application of a Precautionary Approach in the Assessment	Response to Information Requests	Provides clarification regarding the application of the precautionary approach	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608
Table 10.1-1	Historic and Future Temperature Trends	Response to Information Requests	Provides additional information on historic temperature trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725
Table 10.1-2	Historic and Future Precipitation Trends	Response to Information Requests	Provides additional information on historic precipitation trends	Response to IR-EIS-04-144 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725
Sec. 12	Effects of the Project on Renewable and Non-Renewable Resources	Response to Information Requests	Provides clarification regarding the application of sustainability principles	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608
Sec. 13.1	Initial Scope of the Program	Response to Information Requests	Provides an explanation regarding how the follow-up monitoring program will be sufficient to capture effects	Response to IR-EIS-08-368 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915
Appendix C, Sec. C2.	Protocol for Site Neighbour Survey	Response to Information Requests	Provides clarification on site neighbour survey protocol	Response to IR-EIS-03-77 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608

Socio-Economic Environment TSD (NWMO DGR-TR-2011-08 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Appendix D	Illustrated Community Well-Being Survey Results	Response to Information Requests	Provides additional information on the community well-being survey	Response to IR-EIS-03-70 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608
Appendix E	Economic Model Assumptions	Response to Information Requests	Provides additional information on Economic Model uncertainties and treatment	Response to IR-EIS-04-112 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759

Aboriginal Interests TSD (NWMO DGR-TR-2011-09 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
ES.4	Results	Response to Information Requests	Provides updates on status of the Jiiibegmegoong burial site ceremony and monitoring protocol between the Saugeen Ojibway Nation (SON) and Ontario Hydro/OPG	Response to IR-EIS-02-42 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
			Provides additional information relating to increase opportunity for employment	Response to IR-EIS-09-468 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 2.4.2	Spatial Boundaries	Response to Information Requests	Provides additional information on spatial boundaries and scale	Response to IR-EIS-03-45 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides clarification on the suitability of the study areas for the decommissioning and abandonment phases	Response to IR-EIS-05-182 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 2.4.2.3	Site Study Area	Response to Information Requests	Provides clarification on the historical origin of the delineation of the exclusion zone	Response to IR-EIS-08-339 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Fig. 3.1-1	Schematic of DGR Project	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 4	Selection of Valued Ecosystem Components (VECs)	Response to Information Requests	Provides additional information on selection of Aboriginal Interests Valued Ecosystem Components (VECs)	Response to IR-EIS-03-47 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides additional information on selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-65 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	

Aboriginal Interests TSD (NWMO DGR-TR-2011-09 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 4.1	Identification of Aboriginal Interests	Response to Information Requests	Provides clarification regarding the selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-46 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 4.1.2	Aboriginal Heritage Resources	Response to Information Requests	Provides updates on status of the Jibegmegoong burial site ceremony and monitoring protocol between SON and Ontario Hydro/OPG	Response to IR-EIS-02-42 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Sec. 4.1.3	Traditional Use of Land and Resources	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 4.2	Aboriginal Traditional Knowledge	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
			Provides clarification regarding the selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-46 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 4.3	VECs	Response to Information Requests	Provides clarification regarding the selection of Valued Ecosystem Components (VECs)	Response to IR-EIS-03-46 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 4.3.1.2	Aboriginal Heritage Resources	Response to Information Requests	Provides updates on status of the Jibegmegoong burial site ceremony and monitoring protocol between SON and Ontario Hydro/OPG	Response to IR-EIS-02-42 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Sec. 4.3.1.3	Traditional Use of Land and Resources	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	

Aboriginal Interests TSD (NWMO DGR-TR-2011-09 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 5.4.1.2	Dickie Lake/ Jiibegmegoong (BbHj-12)	Response to Information Requests	Provides updates on status of the Jiibegmegoong burial site ceremony and monitoring protocol between SON and Ontario Hydro/OPG	Response to IR-EIS-02-42 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Sec. 5.5	Traditional Use of Land and Resources	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 6.2.1.11	Workers, Payroll and Purchasing	Response to Information Requests	Provides additional information relating to increase opportunity for employment	Response to IR-EIS-09-468 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 7.2.1	Direct Changes	Response to Information Requests	Provides additional information relating to increase opportunity for employment	Response to IR-EIS-09-468 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 7.4	Traditional Use of Land and Resources	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 7.4.1	Direct Changes	Response to Information Requests	Provides update on status of MNO Participation Agreement	Response to IR-EIS-02-43 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Sec. 8	Identification and Assessment of Environmental Effects	Response to Information Requests	Provides clarification regarding the consideration and use of traditional knowledge in determining significant effects	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 8.2.1.1	Direct Effects	Response to Information Requests	Provides additional information relating to increase opportunity for employment	Response to IR-EIS-09-468 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	

Aboriginal Interests TSD (NWMO DGR-TR-2011-09 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 8.2.4	Positive Effects	Response to Information Requests	Provides additional information relating to increase opportunity for employment	Response to IR-EIS-09-468 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 8.3.2	Mitigation Measures	Response to Information Requests	Provides updates on status of the Jiibegmegoong burial site ceremony and monitoring protocol between SON and Ontario Hydro/OPG	Response to IR-EIS-02-42 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Sec. 8.5.1	Application of a Precautionary Approach in the Assessment	Response to Information Requests	Provides clarification regarding the application of the precautionary approach	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 11	Significance of Residual Adverse Effects	Response to Information Requests	Narrative explaining the logic used and clarifying the significance assessment	Response to IR-EIS-12-510 in OPG Response Letter dated Mar.28, 2014 [33]	1836	√
Sec. 12	Effects of the Project on Renewable and Non-Renewable Resources	Response to Information Requests	Provides clarification regarding the application of sustainability principles	Response to IR-EIS-03-44 in OPG Response to IR Package #3 Letter dated Jul. 9, 2012 [5]	608	
Sec. 14	Conclusions	Response to Information Requests	Provides updates on status of the Jiibegmegoong burial site ceremony and monitoring protocol between SON and Ontario Hydro/OPG	Response to IR-EIS-02-42 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
			Provides additional information relating to increase opportunity for employment	Response to IR-EIS-09-468 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	

DGR EA Follow-up Monitoring Program (NWMO DGR-TR-2011-10 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 1	Introduction	Response to Information Requests	Provides additional information on follow-up monitoring during decommissioning and abandonment	Response to IR-EIS-06-235 in OPG Response to IR Package #6 Letter dated Oct.31, 2012 [16]	795
Sec. 1.7	Radiological Regulatory Monitoring	Response to Information Requests	Provides additional information regarding the adequacy of the radiological environmental monitoring program in light of the DGR radionuclide inventory	Response to IR-EIS-03-67 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 2.1	Sampling	Response to Information Requests	Provides additional information on monitoring frequency for rock pile runoff	Response to IR-EIS-08-395 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886
Sec. 3	Groundwater Monitoring	Response to Information Requests	Provides clarification on surface water sampling program (flow and quality)	Response to IR-EIS-07-301 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843
Sec. 3.1	Groundwater Quality	Response to Information Requests	Updates information on monitoring well network	Response to IR-EIS-03-57 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides additional information on proposed shallow subsurface groundwater monitoring	Response to IR-EIS-05-173 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793
Sec. 7.2	Surface Air Monitoring Program	Response to Information Requests	Provides clarification on the substances excluded from the proposed monitoring program	Response to IR-EIS-05-175 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776
Sec. 8	Radiological Monitoring	Response to Information Requests	Provides additional information regarding the adequacy of the radiological environmental monitoring program in light of the DGR radionuclide inventory	Response to IR-EIS-03-67 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608

DGR EA Follow-up Monitoring Program (NWMO DGR-TR-2011-10 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides clarification regarding the rationale for not including monitoring of gross alpha in the proposed EA follow-up monitoring program	Response to IR-EIS-06-237 in OPG Response to IR Package #6 Letter dated Oct.31, 2012 [16]	795
Sec. 8.2	Radiological Analysis of Groundwater	Response to Information Requests	Provides clarification on monitoring of tritium during construction	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-01 Letter dated Jul.10, 2012 [6]	606
Sec. 13	Contingency Procedures	Response to Information Requests	Provides additional information on contingency planning in the context of risk avoidance	Response to IR-EIS-09-411 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957
Appendix A, Table 1	Proposed Monitoring Summarized by Category	Correction	Change in row 1, "Air Quality" & column 4, "Environmental Management Plan", on p.A4	Item #21 in OPG Corrections Letter dated Feb.10, 2012 [2]	335
		Response to Information Requests	Provides additional information regarding the adequacy of the radiological environmental monitoring program in light of the DGR radionuclide inventory	Response to IR-EIS-03-67 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Appendix A, Table 2	Baseline Monitoring Program	Correction	Change in 2 nd header on p.A6	Item #22 in OPG Corrections Letter dated Feb.10, 2012 [2]	335
Appendix A, Table 3a	EA Follow-up Monitoring Program – Site Preparation and Construction Phase	Correction	Change in row 2, "C-EA-GW1" & column 2, "Monitoring Activity", on p.A10	Item #23 in OPG Corrections Letter dated Feb.10, 2012 [2]	335
		Response to Information Requests	Provides new information on waste rock monitoring	Response to IR-EIS-04-160 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759

DGR EA Follow-up Monitoring Program (NWMO DGR-TR-2011-10 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides the rationale for location of monitoring station	Response to IR-EIS-05-174 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776
			Provides clarification on the substances excluded from the proposed monitoring program	Response to IR-EIS-05-175 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776
			Provides clarification of monitoring duration	Response to IR-EIS-05-176 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776
			Provides additional information on the rationale for monitoring frequency	Response to IR-EIS-05-172 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793
			Provides additional information on proposed shallow subsurface groundwater monitoring	Response to IR-EIS-05-173 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793
			Provides clarification on surface water sampling program (flow and quality)	Response to IR-EIS-07-301 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843
			Provides additional information on monitoring frequency for rock pile runoff	Response to IR-EIS-08-395 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886
Appendix A, Table 4a	Environmental Management Plan Monitoring Program – Site Preparation and Construction Phase	Response to Information Requests	Provides clarification on underground non-radiological air quality monitoring under the heading “Atmospheric”	Response to IR-LPSC-01-24 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363

DGR EA Follow-up Monitoring Program (NWMO DGR-TR-2011-10 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides additional information on monitoring locations	Response to IR-EIS-04-134 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725
Appendix A, Table 4b	Environmental Management Plan Monitoring Program – Operations	Response to Information Requests	Provides clarification on underground non-radiological air quality monitoring under the heading “Atmospheric”	Response to IR-LPSC-01-24 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides additional information on monitoring locations	Response to IR-EIS-04-134 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725
		Correction	Change in row 4, “O-EMP-GW1” & column 2, “Monitoring Activity”, on p.A19	Item #23 in OPG Corrections Letter dated Feb.10, 2012 [2]	335
Appendix A, Table 5a	Radiological Regulatory Monitoring Program – Site Preparation and Construction	Response to Information Requests	Provides clarification on underground radiological monitoring (air, water)	Response to IR-LPSC-01-23 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides clarification on monitoring of tritium during construction	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-01 Letter dated Jul.10, 2012 [6]	606
Appendix A, Table 5b	Radiological Regulatory Requirements Monitoring Program – Operations	Response to Information Requests	Provides clarification on underground radiological monitoring (air, water)	Response to IR-LPSC-01-23 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363

DGR EA Follow-up Monitoring Program (NWMO DGR-TR-2011-10 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides additional information regarding the adequacy of the radiological environmental monitoring program in light of the DGR radionuclide inventory	Response to IR-EIS-03-67 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification on radionuclides that could be detected through the ventilation exhaust air monitoring	Response to IR-EIS-06-236 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832
Appendix A, Table 6	Conventional Regulatory Monitoring Program	Response to Information Requests	Provides clarification on surface water sampling program (flow and quality)	Response to IR-EIS-07-301 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843

Environmental Impact Statement Summary					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. on p.20	Emplacement rooms	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Fig. on p.22	Footprint of the lay-out of the DGR emplacement rooms	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-6 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Fig. on p.24	Aerial map of the DGR footprint	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
p.40	Cumulative Environmental Effects	Response to Information Requests	Provides clarification on scope of WWMF upgrades	Response to IR-EIS-04-103 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704
			Provides clarification on cumulative effects assessment	Response to IR-EIS-04-110 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704

Preliminary Safety Report (00216-SR-01320-00001 R000)						
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Ch. 1	Introduction	Response to Information Requests	Provides clarification on categories of L&ILW to be placed in the DGR	Response to IR-EIS-04-102 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Sec. 1.3.2	Postclosure Period	Response to Information Requests	Provides clarification on the alternative means "no institutional control necessary"	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on institutional controls	Response to IR-EIS-05-181 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides clarification on institutional controls	Response to IR-EIS-05-194 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides clarification on institutional controls	Response to IR-EIS-08-363 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Fig. 1-3	Schematic of the DGR	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 1.9	Strategies Used for the DGR Project	Response to Information Requests	Provides clarification on peer review	Response to IR-EIS-01-18 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 2.1.5	Bruce Nuclear Site Development	Response to Information Requests	Provides clarification on waste incineration at WWMF	Response to IR-EIS-04-104 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Sec. 2.5.3.8	Severe Weather	Response to Information Requests	Provides new information on the sensitivity of maximum flood level to hydrologic and hydraulic parameters	Response to IR-EIS-07-282 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Fig. 3-1	Borehole and Geophysical Investigations at the Bruce Nuclear Site	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 3.2.2	Descriptive Hydrogeological Site Model	Response to Information Requests	Provides justification for the assessment that the laboratory-determined permeability data at Core Labs are high and overestimate the in-situ rock mass permeabilities at the Bruce nuclear site	Response to IR-EIS-09-417 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 3.4	Additional Geoscientific Investigations	Response to Undertakings	Provides results of the 2011 shaft pilot hole program	Response to Undertaking TIS 15 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
		Response to Information Requests	Provides additional information related to geotechnical verification activities in support of design and construction verification	Response to IR-EIS-12-511 in OPG Response Letter dated Jan.30, 2014 [32]	1792	√
Ch. 4	Geoscience	Response to Information Requests	Provides additional information on geoscience model uncertainties and treatment	Response to IR-EIS-04-112 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
Sec. 4.1.1.1	Stratigraphy	Response to Information Requests	Provides clarification on the 3DGF model	Response to IR-EIS-08-380 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 4.1.2.1	Stratigraphy	Correction	Correction to a typographical error in the text, where pyrite should be stated to be found in "trace to minor amounts" instead of "trace amounts" in the Paleozoic sequence at the Bruce nuclear site	Response to IR-EIS-09-419 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
		Response to Information Requests	Clarifies the definitions of "trace" and "minor" in the context of rock chemistry	Response to IR-EIS-09-419 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 4.1.2.3	Site-Scale Structural Geology	Response to Information Requests	Provides justification for the current assessment of sub-surface features – identified as potential faults from interpretations of the 2D seismic reflection survey – to be artifacts of data processing. Rationalization for the lack of a 3D seismic survey is also provided	Response to IR-EIS-05-165 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides clarification on the source and breath of information in the Geosynthesis and Descriptive Site Geosphere Model with respect to confidence in the assessment of stratigraphic continuity within the upper Ordovician shale cap rocks	Response to IR-EIS-09-416 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
			Provides clarification of interpreted fracture origin and timing related to new information related to geochronologic dating (U-Pb) of fracture infill calcites occurring in Devonian strata	Response to IR-EIS-10-484 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 4.2	Geomechanics	Response to Undertakings	Provides additional information on geoscientific characterization	Response to Undertaking TIS 15 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
		Response to Information Requests	Provides clarification regarding the influence of rock creep on the long term geomechanical stability of the underground facility	Response to IR-EIS-07-306 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-372 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-373 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-374 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-375 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-376 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information on geoscientific characterization	Response to IR-EIS-08-377 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Sec. 4.2.2	Geomechanical Properties: Rock Strength and Deformation	Response to Information Requests	Provides clarification on Cobourg Formation core strength	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on data used in determining core strength of the Georgian Bay formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on the variance in strength data for the Cobourg Formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification of the description and tabulation of Poisson's ratio parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification of evidence for the overall integrity of the Cobourg Formation at the DGR site	Response to IR-EIS-03-72 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 4.3.2	Hydrogeochemical Data from the Bruce Nuclear Site	Response to Information Requests	Provides rationale for the exclusion of sample data from the presented major ion profiles (i.e., samples are not representative of fluid chemistry due to analytical artifacts)	Response to IR-EIS-09-423 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Fig. 4-34	TDS Concentration versus Depth for DGR Boreholes	Response to Information Requests	Provides a TDS versus depth plot that differentiates groundwaters from porewaters, as presented in Figure 4.54 of the DGSM	Response to IR-EIS-09-442 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 4.3.2.3	Intermediate to Deep System Groundwater and Porewater Characterization	Response to Information Requests	Provides clarification on the characterization of the sedimentary formation with respect to presence of biogenic versus thermogenic methane. Provides justification for the current interpretations and assessment of the origin of the methane gas in the system.	Response to IR-EIS-09-424 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides a summary of the updated geochemical conceptualization in the context of the natural tracers and the natural gases (methane and helium), providing clarification and further justification for the natural barrier hypothesis and the assessment that solute transport is diffusion-dominated in the Ordovician formations	Response to IR-EIS-09-435 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
			Provides a reference Eh-pH diagram for iron (aqueous and mineral) speciation. Provides reference to key sections in the DGSM and Geosynthesis where justifications and rationale for the characterization of redox conditions at the Bruce nuclear site, using indirect methods, are presented.	Response to IR-EIS-09-436 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
			Provides potential hydraulic processes that would allow Pleistocene melt waters to recharge the Salina A1 aquifer at the site	Response to IR-EIS-09-438 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Fig. 4-39	Concentration Distributions for CH ₄ and δ ¹³ C and δ ² H in CH ₄	Response to Information Requests	Provides justification for the assessment of diffusion-dominated transport in the Ordovician sediments. Provides summary of the differences in laboratory methodology used for DGR-3 and DGR-4 cores, which is proposed to account for the observed differences in the δ ² H values of methane between the two boreholes.	Response to IR-EIS-09-434 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Fig. 4-41	Discrimination Diagram Indicating Fields for CH ₄ of Biogenic (CO ₂ Reduction and Fermentation) and Thermogenic Origin	Response to Information Requests	Provides clarification on the characterization of the sedimentary formation with respect to presence of biogenic versus thermogenic methane. Provides justification for the current interpretations and assessment of the origin of the methane gas in the system.	Response to IR-EIS-09-424 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 4.3.2.4	Solute Transport Mechanisms: Evidence for Diffusion	Correction	Corrects a typographical error regarding the D _e values measured from DGR drill cores (p.152)	Response to IR-EIS-09-425 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
		Response to Information Requests	Provides a summary of the measures of reliability for the D _e values	Response to IR-EIS-09-425 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 4.3.3	Illustrative Modelling of the Bruce Nuclear Site Geochemistry	Response to Information Requests	Provides justification for the proposed conceptual model of solute transport	Response to IR-EIS-04-128 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides rationale and justification for the key assumptions and parameters used in the illustrative geochemical modelling of the Bruce nuclear site in the context of testing the solute transport hypotheses (i.e., diffusion-dominated transport and long solute residence times). Provides a summary of the updated geochemical conceptualization for the Bruce nuclear site and key assumptions of the illustrative model.	Response to IR-EIS-09-444 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Fig. 4-48	Results of the "Diffusion from Above" Modelling Scenario	Response to Information Requests	Provides additional information on goodness-of-fit of the numerical model solutions to observed data	Response to IR-EIS-09-445 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Fig. 4-49	Results of $\delta^{18}\text{O}$ Diffusion Simulation (dashed lines) Compared to Measured Porewater $\delta^{18}\text{O}$ Data	Response to Information Requests	Provides additional information on goodness-of-fit of the numerical model solutions to observed data	Response to IR-EIS-09-445 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 4.3.5	Hydrogeochemistry Summary	Response to Information Requests	Provides clarification of the terminology, "long time periods", as used in the technical supporting reports in the context of porewater and solute longevity (e.g., ^{18}O) in the deep groundwater system at the Bruce nuclear site	Response to IR-EIS-09-437 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 4.4	Hydrogeology	Response to Information Requests	Provides explanation for the bimodal porosity distribution observed in the Ordovician shales, and justification for the assignment of porosity values to the Ordovician shales for the regional- and site-scale hydrogeological modelling	Response to IR-EIS-09-440 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 4.4.1	Conceptual Model	Response to Undertakings	Provides additional information regarding the piezometric surface in the carbonate aquifer beneath the DGR surface facilities	Response to Undertaking TIS 6 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on hydrogeologic conditions within the A1 and Guelph aquifers beneath the Bruce nuclear site	Response to Undertaking TIS 7 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
		Response to Information Requests	Provides clarification for the choice of the hydraulic installations (WestBay MP system) during site characterization activities	Response to IR-EIS-04-157 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Table 4-4	Base-Case Hydrogeological Parameter Values for Regional-Scale and Site-Scale Modelling	Response to Information Requests	Provides explanation for the bimodal porosity distribution observed in the Ordovician shales, and justification for the assignment of porosity values to the Ordovician shales for the regional- and site-scale hydrogeological modeling	Response to IR-EIS-09-440 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
			Provides justification for the horizontal hydraulic conductivities and anisotropy values utilized in the hydrogeologic modeling	Response to IR-EIS-09-439 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 4.4.4	System Performance Measures	Response to Information Requests	Provides clarification as to why the hydraulic head in the Precambrian was not measured for the purposes of hydrogeological modelling	Response to IR-EIS-04-100 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			<p>Provides clarification as to how the hydraulic parameters used to represent the shale formations in the hydrogeologic modelling were derived</p> <p>Provides justification for the hydrogeologic modelling discretization with respect to the Guelph and Salina A1 Unit aquifers</p>	Response to IR-EIS-04-125 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides justification for the current assessment that the site is located above an inter-reefal facies association and is not located in close proximity to an unidentified pinnacle reef	Response to IR-EIS-05-211 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 4.4.4.1	Regional-Scale Model	Response to Information Requests	Provides justification for the parameterization of the Salina A1 Unit, and the Guelph and Cambrian formation aquifers in the hydrogeological modeling	Response to IR-EIS-04-127 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Table 4-6	Matrix of Regional-Scale Simulations Performed	Response to Information Requests	Provides justification for the sufficiency of hydrogeologic modelling with respect to assessing the influence of a laterally continuous permeable unit at the base of the sedimentary sequence	Response to IR-EIS-04-126 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides justification for the sufficiency of hydrogeologic modelling with respect to assessing the influence of a laterally continuous permeable unit at the base of the sedimentary sequence	Response to IR-EIS-05-163 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 4.4.4.2	Regional-Scale Paleoclimate Modelling	Response to Information Requests	Provides justification for the parameterization of the Salina A1 Unit, and the Guelph and Cambrian formation aquifers in the hydrogeological modeling	Response to IR-EIS-04-127 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 4.4.4.5	1D Two-Phase Model	Response to Information Requests	Provides clarification regarding: 1) the confidence in the longevity of the abnormal pressures observed at the site, and 2) conservatism applied in the hydrogeologic and safety assessment modelling scenarios with regard to abnormal pressure evolution	Response to IR-EIS-04-113 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Fig. 4-72	Two-Phase Flow Analysis at 400 ka for the Base-Case Scenario	Response to Information Requests	Provides additional information on goodness-of-fit of the numerical model solutions to observed data	Response to IR-EIS-09-445 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Fig. 4-73	Two-Phase Flow Analysis at 1.25 Ma for Base-Case Scenario	Response to Information Requests	Provides additional information on goodness-of-fit of the numerical model solutions to observed data	Response to IR-EIS-09-445 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Fig. 4-74	Two-Phase Flow Analysis at 300 ka with a Fracture Zone at 585 mBGS	Response to Information Requests	Provides additional information on goodness-of-fit of the numerical model solutions to observed data	Response to IR-EIS-09-445 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Fig. 4-75	Two-Phase Flow Analysis at 1 Ma with Air Generation	Response to Information Requests	Provides additional information on goodness-of-fit of the numerical model solutions to observed data	Response to IR-EIS-09-445 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Fig. 4-76	Two-Phase Flow Analysis at 1 Ma with a Fracture Zone at 585 mBGS and Air Generation	Response to Information Requests	Provides additional information on goodness-of-fit of the numerical model solutions to observed data	Response to IR-EIS-09-445 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 4.5.1.2	Glacial Loading	Response to Information Requests	Provides clarification as to why 2 MPa is an appropriate approximation of the increase in horizontal stress imposed on the shafts and seals during glaciations due to crustal bending	Response to IR-EIS-04-156 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 4.5.2.1	Seismicity	Response to Information Requests	Updates edition of NBCC	Response to IR-LPSC-01-01 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Updates Peak Ground Acceleration value of a 1/2500 per annum probability event to align with NBCC 2010	Response to IR-LPSC-01-03 in OPG Response IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on seismic activity in Bruce region	Response to IR-EIS-03-75 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 4.5.3	Natural Resources	Response to Information Requests	Provides clarification on assessment of natural resources and the status of known historical oil and gas exploration wells drilled within 40 km of the site	Response to IR-EIS-05-162 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 4.5.4	Repository Induced Disturbances: Long-Term DGR Performance and Integrity	Response to Information Requests	Provides clarification regarding definitions of EDZ and EdZ	Response to IR-EIS-03-52 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification regarding the influence of rock creep on the long term geomechanical stability of the underground facility	Response to IR-EIS-07-306 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 4.5.4.2	Shaft Seal Analysis	Response to Information Requests	Provides clarification as to why 2 MPa is an appropriate approximation of the increase in horizontal stress imposed on the shafts and seals during glaciations due to crustal bending	Response to IR-EIS-04-156 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides clarification regarding the results of analyses of glacial loading on the DGR lateral development and shafts	Response to IR-EIS-08-393 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Sec. 4.5.4.3	Long-Term Cavern and Pillar Stability	Response to Information Requests	Provides additional geomechanical analyses to illustrate the influence of overburden removal during glacial events on barrier integrity of the Ordovician shale cap rocks	Response to IR-EIS-10-484 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
Sec. 4.6	Geoscience Summary	Response to Information Requests	Provides clarification on Cobourg Formation attributes supporting the containment and isolation of L&ILW	Response to IR-EIS-03-73 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 4.6.2	Seismically Quiet: Comparable to Stable Canadian Shield Setting	Response to Information Requests	Updates edition of NBCC	Response to IR-LPSC-01-01 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 5.2	Waste Classification	Response to Information Requests	Provides clarification of categorization of wastes arriving at DGR	Response to IR-EIS-03-59 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on use of DGR for low and intermediate level waste only	Response to IR-EIS-04-99 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
			Provides clarification on the definitions of low-level waste, intermediate-level waste, and high-level waste	Response to IR-EIS-11-504 in OPG Response to IR Package #11 Letter dated Jun.6, 2013 [30]	1157	
Sec. 5.3	Waste Types and Categories	Response to Information Requests	Provides clarification on alternative means of dealing with combustible waste	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Table 5-1	LLW Categories	Response to Information Requests	Provides clarification on alternative means of dealing with combustible waste	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Table 5-2	ILW Categories	Response to Information Requests	Provides clarification on alternative means of dealing with combustible waste	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 5.4	Waste Containers and Packages	Response to Information Requests	Provides additional detail on waste containers/packages	Response to IR-EIS-09-474 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 5.5	Waste Acceptance Criteria	Response to Information Requests	Provides clarification on alternative means of dealing with combustible waste	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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			Provides clarification on exclusion criterion	Response to IR-EIS-06-260 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Table 5-5	Summary of Waste Acceptance Criteria	Response to Information Requests	Provides definition of "ignitable wastes" as used in the category of wastes excluded from DGR	Response to IR-EIS-03-58 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification regarding "leachate toxic" wastes	Response to IR-EIS-04-147 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
			Provides additional clarification on Waste Acceptance Criteria	Response to IR-EIS-08-342 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional clarification on Waste Acceptance Criteria	Response to IR-EIS-08-343 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional clarification on Waste Acceptance Criteria	Response to IR-EIS-08-347 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional clarification on Waste Acceptance Criteria	Response to IR-EIS-08-348 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional clarification on Waste Acceptance Criteria	Response to IR-EIS-08-350 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides clarification on Waste Acceptance Criteria	Response to IR-EIS-10-488 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 5.6	Waste Characterization Program	Response to Information Requests	Provides clarification on verification of waste inventories during DGR operation	Response to IR-EIS-01-33 in OPG Response IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on the OPG waste characterization program	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-06 and IR-EIS-01-20 Letter dated Jul.10, 2012 [6]	606	
			Provides clarification of characterization of old waste streams	Response to IR-EIS-11-509 in OPG Response to IR Package #11 Letter dated Jun.6, 2013 [30]	1157	
Table 5-6	Waste Volumes in Reference Forecast (Rounded)	Response to Information Requests	Provides additional clarification on waste volumes	Response to IR-EIS-08-378 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Sec. 5.9	Radionuclide Inventory	Response to Information Requests	Provides clarification on characterization of the inventory of radionuclides	Response to IR-EIS-01-05 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Updates information on characterization of uncertainty with radioactive measurements	Response to IR-EIS-01-06 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on calculating quantities of radionuclides	Response to IR-EIS-01-07 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on uncertainty associated with radionuclide inventory	Response to IR-EIS-01-20 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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			Provides clarification for the basis of inventories for key radionuclides	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-06 and IR-EIS-01-20 Letter dated Jul.10, 2012 [6]	606	
			Provides clarification of basis for reference inventories	Response to IR-EIS-06-264 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
Sec. 5.10	Physical and Chemical Characteristics of Key Radionuclides	Response to Information Requests	Provides clarification on use of DGR for low and intermediate level waste only	Response to IR-EIS-04-99 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Sec. 6.1.1	DGR Requirements	Response to Information Requests	Provides clarification on categories of L&ILW to be placed in the DGR	Response to IR-EIS-04-102 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Table 6-1	Regulations, Standards and Codes	Response to Information Requests	Changes "CSA N285-08" to "CSA N285-08 with updates"	Response to IR-LPSC-01-04 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Adds CSA A23.3	Response to IR-LPSC-01-05 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Adds NEMA MG1	Response to IR-LPSC-01-10 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on codes and standards for the design of the shaft liner	Submission of supplementary material to IR Package #1 Response to IR-LPSC-01-05 and IR-LPSC-03-17 Letter dated Jul.10, 2012 [6]	606	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 6.2	Surface Buildings and Infrastructure	Response to Information Requests	Provides additional design information on surface buildings	Response to IR-LPSC-01-06 in OPG Response IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Fig. 6-2	Layout of DGR Underground Facilities	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 6.2.1.2	WPRB	Design update	Updates design description of electrical power reels	Item #3 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
		Response to Information Requests	Updates design description with number of ILW packages per 8 h shift	Response to IR-LPSC-01-08 in OPG Response IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 6.2.1.4	Compressor Building	Response to Information Requests	Provides additional information on compressed air system	Response to IR-LPSC-01-09 in OPG Response IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 6.2.2.1	Ventilation Shaft Headframe and Collar House	Design update	Updates design description of shaft conveyances	Item #4 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
		Response to Information Requests	Provides clarification on second egress via the ventilation shaft area	Response to IR-LPSC-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.2.2.2	Ventilation Shaft Hoist House	Design update	Updates design description of shaft conveyances	Item #4 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 6.2.3	WRMA	Response to Undertakings	Provides more detailed information of the existing site conditions of the Bruce nuclear site and proposed DGR grading topography	Response to Undertaking TIS 12 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
		Response to Information Requests	Provides additional information on the use of silt fences and vegetation to manage siltation around the waste rock management area	Response to IR-EIS-05-192 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides additional information related to the use of overburden materials extracted as part of surface construction activities	Response to IR-EIS-05-200 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides additional information on the in-situ till in the areas of the WRMA and the Stormwater Management Pond (SWMP)	Response to IR-EIS-05-229 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.2.4.1	Electrical Supply and Emergency Power	Response to Information Requests	Provides additional information on electrical supply and emergency power system Updates the time required by the generators to connect to the system in case of a grid power outage	Response to IR-LPSC-01-10 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Table 6-3	Electrical Power Loads	Response to Information Requests	Provides additional information on induction motors	Response to IR-LPSC-01-10 in OPG Response IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 6.2.4.2	Communications Systems	Response to Information Requests	Provides clarification on location of hard-wired emergency phones underground	Response to IR-LPSC-03-59 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.2.4.3	Control and Monitoring Systems	Response to Information Requests	Provides additional information on the use of closed circuit cameras for the DGR facility	Response to IR-EIS-05-217 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.2.4.4	Diesel Fuel Storage	Response to Information Requests	Provides additional information on diesel fuel storage	Response to IR-LPSC-01-10 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 6.2.4.8	Stormwater Management System	Response to Information Requests	Provides clarification on the stormwater management system, including outlet structure and sizing of stormwater management pond	Response to IR-LPSC-01-12 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides additional information on stormwater management pond, including the liner, point of influent and discharge control	Response to IR-LPSC-01-13 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on effect of stormwater management pond on groundwater quality, provision for prolonged retention and deployment of water treatment	Response to IR-EIS-03-56 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional information on the use of silt fences and vegetation to manage siltation around the waste rock management area	Response to IR-EIS-05-192 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides additional information on the in-situ till in the areas of the WRMA and the Stormwater Management Pond (SWMP)	Response to IR-EIS-05-229 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides clarification on safety margin in design	Response to IR-EIS-07-285 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
			Provides clarification on stormwater management of the DGR site	Response to IR-EIS-08-352 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional clarification on provision for deployment of water treatment	Response to IR-EIS-09-472 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides additional information on the underground dewatering system and supporting surface features as presented in the July 18, 2012 Technical Information Session	Response to IR-LPSC-04-63 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
		Response to Undertakings	Provides additional information on site drainage and stormwater management	Response to Undertaking TIS 10 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
			Provides more detailed information of the existing site conditions of the Bruce nuclear site and proposed DGR grading topography	Response to Undertaking TIS 12 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
			Provides additional information on the annual hydrologic information used in the modelling of the stormwater management system	Response to Undertaking TIS 14 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
			Provides additional information on the quantitative water budget for the DGR site	Response to Undertaking TIS 17 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
Sec. 6.3	Underground Facilities	Response to Information Requests	Provides clarification of postclosure safety relevance of some design features	Response to IR-LPSC-02-55 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
			Provides clarification on panel room development procedures	Response to IR-EIS-03-53 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on emergency egress via personnel access doors placed in each emplacement room end-wall	Response to IR-LPSC-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Fig. 6-6	Isometric View of the Repository Level	Design update	Updates configuration of underground services area	Item #1 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Fig. 6-7	DGR Base Case Layout	Design update	Updates configuration of underground services area	Item #1 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 6.3.1.2	Shaft Liner	Response to Information Requests	Provides additional design information on shaft liners	Response to IR-LPSC-01-17 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on design information of shaft liners	Submission of supplementary material to IR Package #1 Response to IR-LPSC-01-05 and IR-LPSC-03-17 Letter dated Jul.10, 2012 [6]	606	
Sec. 6.3.1.4	Main Koepe Friction Hoist	Design update	Updates design description of main shaft cage	Item #5 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 6.3.2.1	Layout	Design update	Updates the ventilation shaft layout	Item #4 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 6.3.2.2	Shaft Liner	Response to Information Requests	Provides clarification on design information of shaft liners	Submission of supplementary material to IR Package #1 Response to IR-LPSC-01-05 and IR-LPSC-03-17 Letter dated Jul.10, 2012 [6]	606	
Sec. 6.3.2.3	Ventilation Shaft Hoisting System	Design update	Updates design description of ventilation shaft hoist arrangements	Item #4 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
		Response to Information Requests	Provides clarification on emergency egress duties required of the ventilation shaft	Response to IR-LPSC-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Fig. 6-10	Cross-Sectional View of Ventilation Shaft	Design update	Updates the ventilation shaft layout	Item #4 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 6.3.2.4	Ventilation Shaft Conveyances	Design update	Updates design description of shaft conveyances	Item #4 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
		Correction	Change in para 1 on p.317	Item #1 in OPG Corrections Letter dated Feb.10, 2012 [2]	335	
Fig. 6-11	Permanent Skip and Bale with Cage	Design update	Updates design description of ventilation shaft hoist arrangements	Item #4 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 6.3.3	Shaft Safety Systems	Design update	Updates design description of shaft safety systems	Item #4 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
			Updates design description of main shaft cage	Item #5 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 6.3.4	Underground Shaft and Services Area	Design update	Updates various areas of design description	Item #1 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
		Response to Information Requests	Provides additional information on the permanent refuge station	Response to IR-LPSC-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional information on the types of ground support requirements and tunnel shapes/geometries	Response to IR-EIS-05-187 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.3.5	Emplacement Rooms	Response to Information Requests	Provides additional information on the types of ground support requirements and tunnel shapes/geometries	Response to IR-EIS-05-187 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Fig. 6-14	Underground Services Area	Design update	Updates configuration of underground services area	Item #1 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Fig. 6-15	Main Access Tunnel Showing Typical Services	Design update	Updates tunnels and room dimensions	Item #2 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Fig. 6-16	Access Tunnel Showing Typical Services	Design update	Updates tunnels and room dimensions	Item #2 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Fig. 6-17	Emplacement Room Section View – Bin Type Waste Packages	Design update	Updates emplacement room dimensions	Item #2 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Fig. 6-18	Emplacement Room Section View – Resin Liner Type Waste Packages	Design update	Updates emplacement room dimensions	Item #2 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 6.3.6	Ramp to Shaft Bottom	Response to Information Requests	Provides clarification on alternate means of egress from the loading pocket area and shaft bottom via access ladders	Response to IR-LPSC-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.3.8	Underground Ventilation	Response to Information Requests	Provides clarification of the ventilation system operation	Response to IR-EIS-04-154 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
Sec. 6.3.8.1	Ventilation System and Operation	Response to Information Requests	Provides additional information on underground ventilation system and its operation	Response to IR-LPSC-01-14 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on ventilation design regarding capture of exhaust air by intake fans	Response to IR-EIS-04-134 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides additional clarification on the ventilation system design	Response to IR-EIS-09-409 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 6.3.8.2	Ventilation System Capacity	Response to Information Requests	Provides clarification on estimated airflow requirements	Response to IR-LPSC-01-35 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Fig. 6-20	Underground Ventilation Distribution System	Design update	Updates configuration of underground services area	Item #1 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
		Response to Information Requests	Revises number of permanent refuge stations	Response to IR-LPSC-01-09 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 6.3.8.3	Operations Ventilation	Response to Information Requests	Provides clarification on the distinguishing features between end walls, closure walls and the bulkheads for closing off panels	Response to IR-EIS-05-207 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 6.3.8.5	Exhaust Fans	Response to Information Requests	Provides clarification on location of main exhaust fans	Response to IR-LPSC-01-14 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 6.3.9	Monitoring of Underground Structures	Response to Information Requests	Provides additional information on geomechanical modeling and geotechnical verification of ground support	Response to IR-EIS-08-381 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides details on geotechnical activities to assess the performance of the openings	Response to IR-EIS-12-511 in OPG Response Letter dated Jan.30, 2014 [32]	1792	√
Sec. 6.3.10.4	Underground Dewatering	Response to Information Requests	Provides clarification and additional information on underground dewatering system for DGR operation	Response to IR-LPSC-01-19 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides additional information on predicted water inflows	Response to IR-EIS-04-151 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides additional information on the underground dewatering system and supporting surface features as presented in the July 18, 2012 Technical Information Session	Response to IR-LPSC-04-63 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
		Response to Undertakings	Provides additional information on preliminary estimate of groundwater inflow	Response to Undertaking TIS 11 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
Sec. 6.4	DGR Waste Package Inventory	Response to Information Requests	Provides clarification on categories of L&ILW to be placed in the DGR	Response to IR-EIS-04-102 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Sec. 6.5	Transfer Equipment and Emplacement Operations	Response to Information Requests	Provides additional information on the handling of waste packages	Response to IR-EIS-10-496 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	
Sec. 6.5.2.2	Groups A, B, C and D	Design update	Updates design description of electrical power reels	Item #3 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 6.5.3.1	Room Profiles and Waste Package Allocation	Response to Information Requests	Provides clarification on approach to fire protection for emplacement rooms	Response to IR-LPSC-01-16 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on dimensions of emplacement rooms	Response to IR-EIS-03-61 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
		Design update	Updates access tunnel and emplacement rooms dimensions	Item #2 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 6.7.1	Storage	Response to Information Requests	Provides clarification on storage of explosives during the site preparation and construction	Response to IR-EIS-07-280 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 6.7.2	Conventional and Hazardous Waste Management	Response to Information Requests	Provides clarification on transportation of explosives during the site preparation and construction	Response to IR-EIS-07-280 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 6.8	Fire and Life Safety	Response to Information Requests	Provides additional information on fire protection methodology	Submission of supplementary material to IR Package #1 Response to IR-LPSC-01-15, IR-LPSC-01-16, IR-LPSC-01-21, IR-LPSC-01-22 Letter dated Jul.10, 2012 [6]	606	
			Provides references to supporting information regarding emergency response already provided in previous IR responses and the July 18, 2012 Technical Information Session	Response to IR-EIS-05-186 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 6.8.1	Fire Safety	Response to Information Requests	Provides clarification on fire protection during DGR operation	Response to IR-LPSC-01-43 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 6.8.3	Fire Suppression	Response to Information Requests	Provides clarification on fire water supply to DGR site	Response to IR-LPSC-01-20 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on fire suppression methods	Response to IR-LPSC-01-22 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 6.8.3.2	Underground	Response to Information Requests	Provides clarification on ventilation in the event of underground fire and use of fire doors	Response to IR-LPSC-01-15 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on use of dry standpipe at main shaft	Response to IR-LPSC-01-21 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 6.8.4	Emergency Ventilation Controls	Response to Information Requests	Provides clarification on the approach to fire protection	Response to IR-LPSC-01-15 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 6.8.5	Refuge Stations	Design update	Updates information on refuge stations	Item #1 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
		Response to Information Requests	Updates information on refuge stations	Response to IR-LPSC-01-09 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on location of portable refuge stations	Response to IR-EIS-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on use of refuge stations	Response to IR-LPSC-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Fig. 6-28	Location of Refuge Stations	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
		Response to Information Requests	Provides clarification on location of portable refuge stations	Response to IR-EIS-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 6.9	Emergency Response	Response to Information Requests	Provides clarification on ventilation in the event of release of significant volatile radionuclides/hazardous substances	Response to IR-LPSC-01-15 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on mine rescue support during operation	Response to IR-LPSC-03-61 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides references to supporting information regarding emergency response already provided in previous IR responses and the July 18, 2012 Technical Information Session	Response to IR-EIS-05-186 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides clarification on emergency response and preparedness arrangements for the DGR project	Response to IR-EIS-06-269 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 6.10.1	Radiological Control	Design update	Updates radiological zoning	Item #6 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
		Response to Information Requests	Provides clarification on radiological zoning	Response to IR-LPSC-01-08 in OPG Response IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Fig. 6-29	Surface Radiological Zones	Design update	Updates radiological zoning	Item #6 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 6.11	Radiation Monitoring	Response to Information Requests	Provides clarification on underground radiological monitoring (air, water)	Response to IR-LPSC-01-23 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 6.12	Underground Air Quality Monitoring	Response to Information Requests	Provides clarification on underground non-radiological air quality monitoring	Response to IR-LPSC-01-24 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 6.13	Access Tunnel Closure Walls	Response to Information Requests	Provides additional information on placement of waste within the two panels of the DGR	Response to IR-EIS-03-62 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides additional information on the bearing capacity of the proposed closure walls	Response to IR-EIS-04-150 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides clarification on the distinguishing features between end walls, closure walls and the bulkheads for closing off panels	Response to IR-EIS-05-207 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Ch. 7	Preclosure Safety Assessment	Response to Information Requests	Provides additional information on radiation dose model uncertainties and treatment	Response to IR-EIS-04-112 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
Sec. 7.1	Assessment Context and Criteria	Response to Information Requests	Provides clarification on radiological safety of workers during construction phase	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-25 Letter dated Jul.10, 2012 [6]	606	
Sec. 7.1.2.1	Radiological Protection	Response to Information Requests	Provides clarification on equivalent dose limits considered by the project	Response to IR-LPSC-01-07 in OPG Response IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on the applicability of WWMF DRLs to DGR on preliminary basis	Response to IR-LPSC-01-40 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 7.2	DGR Waste Packages	Response to Information Requests	Provides clarification on categories of L&ILW to be placed in the DGR	Response to IR-EIS-04-102 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Sec. 7.4	Radiological Safety during Normal Operation	Response to Information Requests	Provides summary of the dose targets and likely dose consequences for workers and public	Response to IR-EIS-08-351 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
			Provides additional information on the range of possible gas pressures within closed panels during the operational period	Response to IR-EIS-09-463 in OPG Response to IR Package #9 Letter dated Apr.30, 2013 [27]	989	

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Sec. 7.4.2.1	Source Terms - Air and Water Release Rates	Response to Information Requests	Provides clarification on fugitive emissions of H-3 species from LLSB at WWMF	Response to IR-EIS-01-08 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 7.4.2.3	Public Dose Results - Air and Water Emissions	Response to Information Requests	Provides dose calculations for critical groups and provides clarification on the critical group and age class	Response to IR-EIS-06-243 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
			Provides doses to the public based on a detailed pathway analysis specific to the DGR Project	Response to IR-EIS-06-245 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
Sec. 7.4.4	Assessment of External Radiation on Workers and Public	Response to Information Requests	Provides clarification on assumptions used to calculate worker dose at various receptor locations	Response to IR-EIS-01-26 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides selected examples of worker dose estimates as supporting information	Response to IR-EIS-01-27 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec 7.5	Accident Assessment	Response to Information Requests	Provides additional information on fire protection methodology	Submission of supplementary material to IR Package #1 Response to IR-LPSC-01-15, IR-LPSC-01-16, IR-LPSC-01-21, IR-LPSC-01-22 Letter dated Jul.10, 2012 [6]	606	
			Provides additional accident calculations to assess the impact of an exhaust air filtration system	Response to IR-EIS-04-135 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides dose estimates for non-credible events	Response to IR-EIS-06-270 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
Sec. 7.5.1.2	Step 2: Initiating Events	Correction	Change in last bullet on p.422	Item #2 in OPG Corrections Letter dated Feb.10, 2012 [2]	335	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
		Response to Information Requests	Provides an assessment of impact of potential events on the Bruce site that could affect the DGR	Response to IR-LPSC-01-41 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification of hurricane frequency	Response to IR-EIS-05-222 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
			Provides clarification of the likelihood of rock fall / rock burst	Response to IR-EIS-07-304 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Table 7-25	Summary of the Initiating Events	Response to Information Requests	Provides clarification of hurricane frequency	Response to IR-EIS-05-222 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Sec. 7.5.3.2	Exposure Duration	Response to Information Requests	Provides clarification of the basis for the one hour public exposure duration, and of the mitigation measures	Response to IR-EIS-09-430 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 7.5.3.3	Dispersion Modelling for Releases	Response to Information Requests	Provides clarification on the selection of atmospheric dispersion factor for underground fire scenario	Response to IR-EIS-07-281 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 7.5.6	Preventative and Mitigation Measures	Response to Information Requests	Provides clarification on process by which analysis of initiating events is incorporated into design, training, and procedural development	Response to IR-LPSC-01-42 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on the potential benefit of HEPA filters as an underground accident mitigation measure	Response to IR-EIS-09-402 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
			Provides clarification that evacuation and long-term relocation do not need to be considered	Response to IR-EIS-09-430 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Ch. 8	Postclosure Safety Assessment	Response to Information Requests	Provides additional information on postclosure safety assessment model uncertainties and treatment	Response to IR-EIS-04-112 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
Table 8-1	Acceptance Criteria (NECs) for Protection of Non-Human Biota from Potential Radiological Impacts	Response to Information Requests	Provides clarification regarding why H-3 is not included in Table 8-1	Response to IR-EIS-08-313 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902	
Sec. 8.4	System Description	Response to Information Requests	Provides clarification of linkage of postclosure safety features to design and construction	Response to IR-LPSC-02-55 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
			Provides justification for neglecting lateral flow in the Cambrian formation and the placement of the lower boundary condition in the 3DS model	Response to IR-EIS-04-129 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides clarification of the safety relevant features and redundancies in the design	Response to IR-EIS-09-466 in OPG Response to IR Package #9 Letter dated Apr.30, 2013 [27]	989	
Fig. 8-2	Original (Left) and Final (Right) Preliminary Design	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Sec. 8.6	Normal Evolution Scenario	Response to Information Requests	Provides an assessment of the estimated peak gas pressures in panels isolated by closure walls and the impact of closure walls on gas generation and migration	Response to IR-EIS-01-19 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides information on microbial effects	Response to IR-EIS-01-21 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification regarding postclosure safety assessment assumptions with respect to integrity of waste containers	Response to IR-EIS-04-152 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
			Provides additional information on microbial activity and reaction with sulphates. Provides additional information on supercriticality and non-ideality effects on gas properties.	Response to IR-EIS-09-404 in OPG Response to IR Package #9 Letter dated Apr.30, 2013 [27]	989	
			Provides additional information on the range of possible gas pressures within closed panels at the start of the postclosure period	Response to IR-EIS-09-463 in OPG Response to IR Package #9 Letter dated Apr.30, 2013 [27]	989	
Fig. 8-11	Normal Evolution Scenario: Conceptual Model for Repository and Geosphere Contaminant Release and Migration Paths	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
Table 8-5	Calculation Cases for the Normal Evolution Scenario	Correction	Change on row "NE-GT5" on p.508	Item #3 in OPG Corrections Letter dated Feb.10, 2012 [2]	335	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 8.6.2.8	Mathematical Models and Software Implementation	Response to Information Requests	Provides clarification of the basis for confidence in the models	Response to IR-EIS-04-109 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
Table 8-6	Reference Values for Key Parameters for Normal Evolution Scenario	Correction	Corrects alignment of the text in the table, on p.513	Item #4 in OPG Corrections Letter dated Feb.10, 2012 [2]	335	
Box 2 (in Sec. 8.6.2)	Bentonite/Sand Seals	Response to Information Requests	Provides additional information on natural analogs for bentonite/sand durability	Response to IR-EIS-10-492 in OPG Response to IR Package #10 Letter dated May 10, 2013 [29]	1048	
Sec. 8.6.3	Key Modelling Assumption for the Normal Evolution Scenario	Response to Information Requests	Provides additional information on key modelling assumptions	Response to IR-EIS-03-64 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification that solute transport through the shaft includes the shaft EDZ	Response to IR-LPSC-03-62 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 8.6.4.1	Normal Evolution – Radioactive Decay	Response to Information Requests	Provides clarification on how radiological hazards change over time	Response to IR-EIS-04-105 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
Sec. 8.7	Disruptive Scenarios	Response to Information Requests	Provides a discussion of alternative disruptive scenario	Response to IR-EIS-08-335 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
			Provides additional sensitivity studies on the effects of vertical faults	Response to IR-EIS-08-385 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides analysis of consequences of an abandoned repository with no shaft seals	Response to IR-EIS-09-460 in OPG Response to IR Package #9 Letter dated Apr.30, 2013 [27]	989	
Sec. 8.7.1	Human Intrusion Scenarios	Response to Information Requests	Provides clarification on the alternative means “no institutional control necessary”	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on the human intrusion scenario and mitigation measures	Response to IR-EIS-06-246 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	
			Provides information on SKB rationale for 300-year intrusion period	Response to IR-EIS-09-412 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
			Provides additional information on calculated doses from human intrusion surface pathway assuming H-3 gas is released as HTO and no institutional control or societal memory	Response to IR-EIS-09-461 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Table 8-11	Exposure Situations for the Human Intrusion Scenario	Correction	Change in the cell representing exposure of drill crew to drill core, on p.535	Item #5 in OPG Corrections Letter dated Feb.10, 2012 [2]	335	
Table 8-13	Key Modelling Assumptions for the Human Intrusion Scenario	Correction	Change in cell of row 2 (“Drill core debris is not disposed of properly”) and column 3 (“Impact of Assumptions”) on p.540	Item #6 in OPG Corrections Letter dated Feb.10, 2012 [2]	335	
Sec. 8.7.2	Severe Shaft Seal Failure Scenario	Response to Information Requests	Provides clarification on the severe shaft seal failure scenario and mitigation measures	Response to IR-EIS-06-247 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 8.7.2.3	Severe Shaft Seal Failure Results	Correction	Change on 2 nd line on p.550	Item #7 in OPG Corrections Letter dated Feb.10, 2012 [2]	335	
		Response to Information Requests	Provides clarification of the WWMF DRL C-14 dose information	Response to IR-EIS-07-310 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843	
Sec. 8.7.4	Vertical Fault Scenario	Response to Information Requests	Provides clarification of basis for assumed faults	Response to IR-EIS-02-36 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
			Provides additional analysis of hypothetical vertical faults	Complete response to IR-EIS-02-36 in OPG Letter dated Jun.28, 2012 [7]	581	
Sec. 8.8	Assessment Uncertainties	Response to Information Requests	Provides clarification on postclosure safety assessment uncertainties (i.e., scenario uncertainty, model uncertainty and data uncertainty)	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 8.8.2.1	Repository Resaturation	Response to Information Requests	Provides clarification of the range of resaturation levels and consequences	Response to IR-EIS-04-119 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
Fig. 8-46	Depth of Water in Repository (Non-Water-Limited Cases)	Correction	Change on Fig.8-46, p.563	Item #8 in OPG Corrections Letter dated Feb.10, 2012 [2]	335	
Sec. 8.8.2.2	Waste Inventory	Response to Information Requests	Provides clarification on the uncertainties of contaminant inventories and impact on peak dose	Response to IR-EIS-01-20 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on the uncertainty range in inventories for key radionuclides	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-06 and IR-EIS-01-20 Letter dated Jul.10, 2012 [6]	606	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 8.8.2.4	Gas Generation	Response to Undertakings	Provides additional information on the elevated pressure impact on gas generation reactions	Response to Undertaking TIS 16 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
Sec. 8.8.2.6	Geosphere Transport Properties	Response to Information Requests	Provides information on diffusion coefficient uncertainty	Response to IR-EIS-02-35 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Sec. 8.8.2.7	Shaft Seal Performance	Response to Information Requests	Provides additional information on shaft seal performance	Response to IR-EIS-03-64 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on the treatment of the shaft EDZ in solute transport models	Response to IR-LPSC-03-62 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification of the shaft seal resaturation behaviour	Response to IR-EIS-04-153 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides potential impact of a significantly degraded asphalt interface	Response to IR-EIS-06-272 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 8.8.2.9	Geosphere Horizontal Flow	Response to Information Requests	Provides concentrations and bounding impacts of radionuclides in the Cambrian Formation including horizontal flow in that formation	Response to IR-EIS-08-397 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915	
Sec. 8.8.2.11	Glaciation	Response to Information Requests	Provides clarification on the effects of glaciation on the repository	Response to IR-EIS-01-17 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on the effects of glaciation on the repository	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-17 Letter dated Jul.10, 2012 [6]	606	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides estimate of the impacts of 300 m of erosion	Response to IR-EIS-10-486 in OPG Response to IR Package #10 Letter dated May 10, 2013 [29]	1048	
Sec. 8.8.4	Probabilistic Calculation	Response to Information Requests	Provides additional information on the probabilistic results	Response to IR-EIS-09-446 in OPG Response to IR Package #9 Letter dated Apr.30, 2013 [27]	989	
Sec. 8.8.5.2	Backfilled Repository	Response to Information Requests	Provides clarification of analyses of effects of backfilling repository	Response to IR-LPSC-03-56 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 8.8.5.3	Asphalt Shaft Seal	Response to Information Requests	Provides clarification of potential for chemicals of concern from the asphalt seal	Response to IR-EIS-03-63 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 8.9.6	Uncertainties	Response to Information Requests	Provides clarification on postclosure safety assessment uncertainties (i.e., scenario uncertainty, model uncertainty and data uncertainty)	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification of the uncertainties in chemical reactions and their effects	Response to IR-EIS-04-114 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides clarification regarding natural analogues have contributed to the confidence in the postclosure safety assessment	Response to IR-EIS-04-116 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides clarification of the range of resaturation levels and consequences	Response to IR-EIS-04-119 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides clarification of the shaft seal resaturation behaviour	Response to IR-EIS-04-153 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides additional information on plans to monitor waste degradation within repository	Response to IR-EIS-09-457 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 9.1	Introduction	Response to Information Requests	Provides clarification of how information is identified and communicated during design and construction	Response to IR-LPSC-02-55 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Fig. 9-1	DGR Project Site Preparation and Construction Schedule	Response to Information Requests	Provides clarification on site preparation and construction schedule in Fig. 9-1, including completion of engineering details and construction activities	Response to IR-LPSC-01-25 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on proposed sequencing for design development	Submission of supplementary material to IR Package #1 Response to IR-LPSC-01-25 Letter dated Jul.10, 2012 [6]	606	
Sec. 9.2.3	Site Grading	Response to Undertakings	Provides more detailed information of the existing site conditions of the Bruce nuclear site and proposed DGR grading topography	Response to Undertaking TIS 12 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
Sec. 9.2	Site Preparation	Response to Information Requests	Provides clarification on proposed sequencing for design development	Submission of supplementary material to IR Package #1 Response to IR-LPSC-01-25 Letter dated Jul.10, 2012 [6]	606	
Fig. 9-2	DGR Construction Layout	Response to Information Requests	Provides additional design information on temporary concrete batch plant and site services shown in Fig. 9-2	Response to IR-LPSC-01-26 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides additional information related to the use of overburden materials extracted as part of surface construction activities	Response to IR-EIS-05-200 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Sec. 9.3.1	Installation of Construction Services	Response to Information Requests	Provides clarification on emergency response and preparedness arrangements for construction phase	Response to IR-LPSC-01-45 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on mine rescue support during construction	Response to IR-LPSC-03-61 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on emergency response and preparedness arrangements for the DGR project	Response to IR-EIS-06-269 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 9.3.2	Stormwater Management	Response to Information Requests	Provides clarification on the water treatment system and plant	Response to IR-LPSC-01-27 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on stormwater management of the DGR site	Response to IR-EIS-08-352 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
		Response to Undertakings	Provides additional information on site drainage and stormwater management	Response to Undertaking TIS 10 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
			Provides more detailed information of the existing site conditions of the Bruce nuclear site and proposed DGR grading topography	Response to Undertaking TIS 12 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
Sec. 9.3.3	Waste Rock Handling	Response to Information Requests	Provides additional information on construction of waste rock management area	Response to IR-LPSC-01-28 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 9.3.4	Conventional Hazards Materials Management	Response to Information Requests	Provides clarification on storage of explosives	Response to IR-EIS-01-02 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides additional information regarding storage of explosives	Response to IR-EIS-09-403 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Table 9-1	Projected Range of Annual Output of Waste	Response to Information Requests	Provides clarification on the estimated range of annual output of grey water and the estimated waste rock volume	Response to IR-LPSC-01-29 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 9.4	Construction	Response to Information Requests	Provides clarification on construction of plenums as part of the shaft pre-sinking activities	Response to IR-LPSC-01-30 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on proposed sequencing for design development	Submission of supplementary material to IR Package #1 Response to IR-LPSC-01-25 Letter dated Jul.10, 2012 [6]	606	
Sec. 9.4.1	Ground Improvement	Response to Information Requests	Provides clarification on ground improvement methods considered by the project	Response to IR-LPSC-01-31 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides additional information resulting from the 2011/2012 grouting trial at the ventilation shaft	Response to IR-LPSC-04-64 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
Sec. 9.4.2	Preparation of Shaft Collars	Response to Information Requests	Provides clarification on the drill and blast and ground support techniques during shaft excavation considered by the project	Response to IR-LPSC-01-32 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 9.4.3	Erection of Main Shaft and Ventilation Shaft Headframes	Response to Information Requests	Provides additional information on waste rock dumping facility and muck bay	Response to IR-LPSC-01-33 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Fig. 9-4	Initiation of Shaft Sinking	Response to Information Requests	Provides clarification on construction of underground facility	Response to IR-LPSC-01-35 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Fig. 9-5	Complete Shaft Sinking and Establish Shaft Stations	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
		Response to Information Requests	Provides clarification on construction of underground facility	Response to IR-LPSC-01-35 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Fig. 9-6	Initial Repository Level Development	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
		Response to Information Requests	Provides clarification on construction of underground facility	Response to IR-LPSC-01-35 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Fig. 9-7	Complete Shaft Services Area and Establish Multiple Headings	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	
		Response to Information Requests	Provides clarification on construction of underground facility	Response to IR-LPSC-01-35 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Fig. 9-8	Complete Underground Development	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
		Response to Information Requests	Provides clarification on construction of underground facility	Response to IR-LPSC-01-35 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 9.4.5.1	Description of Shaft Sinking	Response to Information Requests	Provides clarification on the drill and blast and ground support techniques during shaft sinking considered by the project	Response to IR-LPSC-01-32 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification regarding controlled drill and blast techniques for shaft sinking	Response to IR-LPSC-03-57 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on how the EDZ will be minimized during shaft construction	Response to IR-LPSC-03-62 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
		Response to Undertakings	Provides additional information on the total weight of ammonia nitrate that would be used per sequenced shaft blast	Response to Undertaking TIS 3 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
			Provides additional information to support the reference excavation method of drill and blast versus roadheader	Response to Undertaking TIS 8 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
		Sec. 9.4.5.3	Description of Initial Rock Support	Response to Information Requests	Provides clarification alternate means of treating the chamber walls before waste emplacement	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]
Provides additional information on geomechanical modeling and geotechnical verification of ground support	Response to IR-EIS-08-381 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]				886	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 9.4.5.4	Final Liner Construction	Response to Information Requests	Provides clarification on construction of shaft liners	Response to IR-LPSC-01-17 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on construction of shaft liners	Submission of supplementary material to IR Package #1 Response to IR-LPSC-01-05 and IR-LPSC-03-17 Letter dated Jul.10, 2012 [6]	606	
Sec. 9.4.7.1	Excavation Methods and Installing Rock Support	Response to Information Requests	Provides additional information on excavation of underground openings and ground support	Response to IR-LPSC-01-34 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on alternate means of treating the chamber walls before waste emplacement	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides additional information on the types of ground support requirements and tunnel shapes/geometries	Response to IR-EIS-05-187 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
			Provides additional information on geomechanical modeling and geotechnical verification of ground support	Response to IR-EIS-08-381 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional information regarding basis for rock support design	Response to IR-EIS-10-485 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990	

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		Response to Undertakings	Provides additional information on the total weight of ammonia nitrate that would be used per sequenced shaft blast	Response to Undertaking TIS 3 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
			Provides additional information to support the reference excavation method of drill and blast versus roadheader	Response to Undertaking TIS 8 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	
Sec. 9.4.7.2	Development Sequence	Response to Information Requests	Provides clarification on construction of underground facility	Response to IR-LPSC-01-35 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on panel room development procedures	Response to IR-EIS-03-53 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 9.4.7.3	Ventilation During Lateral Development	Response to Information Requests	Provides details on lateral development of underground facility	Response to IR-LPSC-01-35 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 9.4.7.4	Underground Services During Construction	Response to Information Requests	Provides clarification on the calculations, assumptions and confidence limits of the estimates for maximum excavation discharge and sump water pumping	Response to IR-EIS-04-101 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
			Provides additional information on predicted water inflows	Response to IR-EIS-08-392 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
Sec. 9.4.9	Occupational Safety	Response to Information Requests	Provides clarification on fire protection during site preparation and construction	Response to IR-LPSC-01-36 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides details and clarification on conventional safety requirements during site preparation and construction	Response to IR-LPSC-01-37 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 9.4.11	Commissioning	Response to Information Requests	Provides clarification on commissioning of temporary and permanent systems, structures and equipment used during construction	Response to IR-LPSC-01-38 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 10.1	Radiation Protection Program	Response to Information Requests	Provides clarification on how ALARA is accounted for in the DGR	Response to IR-LPSC-01-08 in OPG Response IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides clarification on how ALARA is accounted for in the DGR	Response to IR-LPSC-01-44 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 10.3	Environmental Protection Program	Response to Information Requests	Provides additional information regarding the adequacy of the radiological environmental monitoring program in light of the DGR radionuclide inventory	Response to IR-EIS-03-67 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 10.4	Monitoring Program	Response to Information Requests	Provides clarification on plans to monitor waste degradation within repository	Response to IR-EIS-01-32 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides additional information on plans to monitor waste degradation within repository	Response to IR-EIS-09-457 in OPG Response to IR Package #9 Letter dated Apr.15, 2013 [25]	957	
Sec. 10.4.1	Radiological Monitoring Program	Response to Information Requests	Provides clarification on underground radiological monitoring (air, water)	Response to IR-LPSC-01-23 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on underground non-radiological air quality monitoring	Response to IR-LPSC-01-24 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides additional information regarding the adequacy of the radiological environmental monitoring program in light of the DGR radionuclide inventory	Response to IR-EIS-03-67 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 10.7	Emergency Preparedness and Emergency Response Program	Response to Information Requests	Provides clarification on emergency response and preparedness arrangements for the DGR project	Response to IR-EIS-06-269 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
Sec. 11.3	Design and Construction Phase	Response to Information Requests	Provides clarification of how information is identified and communicated during design and construction	Response to IR-LPSC-02-55 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523	
Sec. 12.2.3.1	Public Opinion	Response to Information Requests	Provides clarification on the 2005 telephone poll and the 2009 Public Attitude Research	Response to IR-EIS-01-31 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides analysis of confidence levels and errors associated with public attitude research data	Response to IR-EIS-03-70 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
Sec. 13.6.2	Decommissioning of the Underground Services Area	Response to Information Requests	Provides clarification on the distinguishing features between end walls, closure walls and the bulkheads for closing off panels	Response to IR-EIS-05-207 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776	
Fig. 13-1	Extent of Proposed Monolith	Design update	Provides updates to the extent of proposed monolith	Item #1 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Sec. 13.6.3.1	Design and Construction of Shaft Seal	Response to Information Requests	Provides clarification of the basis for the asphalt seal	Response to IR-EIS-03-63 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides clarification on removal of shaft infrastructure	Response to IR-LPSC-03-58 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608	
			Provides further clarifications of the shaft seal design	Response to IR-EIS-04-155 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725	
			Provides clarification of shaft seal testing plans	Response to IR-EIS-06-268 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823	
			Provides additional information on natural analogs for seal material durability	Response to IR-EIS-10-492 in OPG Response to IR Package #10 Letter dated May 10, 2013 [29]	1048	
Sec. 13.6.5	WRMA	Response to Undertakings	Provides clarification on the rationale for the planned top soil cover of 150 mm on the waste rock pile at closure	Response to Undertaking TIS 9 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692	
		Response to Information Requests	Provides additional information regarding Waste Rock Management Area decommissioning vegetation plans	Response to IR-EIS-05-171 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793	
Table 13-1	Waste Materials Arising from Decommissioning	Response to Information Requests	Provides clarification on waste materials to be removed as part of decommissioning Provides further details on waste materials arising from decommissioning following construction	Response to IR-LPSC-01-46 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
Table 13-2	Projected Range of Conventional and Hazardous Wastes	Response to Information Requests	Provides clarification on waste materials estimated to be generated on yearly basis	Response to IR-LPSC-01-46 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 13.11	Decommissioning at the End of Construction	Response to Information Requests	Provides clarification on decommissioning activities associated with DGR decommissioning after construction	Response to IR-LPSC-01-47 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
Sec. 14.1	Overview	Response to Information Requests	Provides clarification on categories of L&ILW to be placed in the DGR	Response to IR-EIS-04-102 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
Sec. 14.2	International L&ILW Deep Geological Repositories	Response to Information Requests	Provides source of information on additional comparative information concerning international repositories	Response to IR-EIS-04-117 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704	
			Provides source of information and clarifications on comparative information concerning international repositories	Response to IR-EIS-08-366 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886	
			Provides additional detail on comparative information concerning international repositories	Response to IR-EIS-09-410 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949	
			Provides additional clarification on comparative information concerning international repositories and incorporation of international experience into the DGR project	Response to IR-EIS-11-503 in OPG Response to IR Package #11 Letter dated Jun.6, 2013 [30]	1157	
Table 14-3	Arguments and Evidence for DGR Safety	Response to Information Requests	Updates edition of NBCC	Response to IR-LPSC-01-01 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	

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Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item	New
			Provides clarification on assessment of natural resources	Response to IR-EIS-01-24 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Provides additional information on the assessment of undiscovered oil, gas and mineral resources at the regional, local and site scale and also the uncertainties associated with the assessment	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-24 Letter dated Jul.10, 2012 [6]	606	
			Provides clarification of the safety relevant features and redundancies in the design	Response to IR-EIS-09-466 in OPG Response to IR Package #9 Letter dated Apr.30, 2013 [27]	989	
Table 14-4	Summary of Arguments for DGR Safety	Response to Information Requests	Provides clarification of the role of waste containers	Response to IR-EIS-04-124 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759	
Ch. 15	References	Response to Information Requests	Updates edition of NBCC	Response to IR-LPSC-01-01 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363	
			Updates revision number of Geoscientific Verification Plan	Response to IR-EIS-12-511 in OPG Response Letter dated Jan.30, 2014 [32]	1792	√
Ch. 17	Engineering Drawings 11T1076-C-SK-1, H333000-WP404-10-042-0001 H333000-WP404-10-042-0003	Response to Undertakings	Provides more detailed information of the existing site conditions of the Bruce nuclear site and proposed DGR grading topography	Response to Undertaking TIS 12 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715	

Reference L&ILW Inventory for the DGR (00216-REP-03902-00003 R003)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
RS	Revision Summary	Response to Information Requests	Provides clarification of how changes to waste characterization is applied to historical and future packages	Response to IR-EIS-06-263 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823
ES	Executive Summary	Response to Information Requests	Provides clarification on categories of L&ILW to be placed in the DGR	Response to IR-EIS-04-102 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704
Sec. 1.2	Background	Response to Information Requests	Provides clarification of characterization of old waste streams	Response to IR-EIS-11-509 in OPG Response to IR Package #11 Letter dated Jun.5, 2013 [30]	1157
Sec. 2.1	Waste Volumes and Package Inventory	Response to Information Requests	Provides clarification on alternative means of dealing with combustible waste	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 2.2	Radionuclide Inventory	Correction	Change in 2 nd para on p.10	Item #9 in OPG Corrections Letter dated Feb.10, 2012 [2]	335
		Response to Information Requests	Provides clarification on methods for characterization of the radionuclide inventories	Response to IR-EIS-01-05 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides information on uncertainty of radionuclide measurements	Response to IR-EIS-01-06 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides clarification on calculating quantities of radionuclides	Response to IR-EIS-01-07 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides clarification on treatment of uncertainty associated with radionuclide inventory	Response to IR-EIS-01-20 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363

Reference L&ILW Inventory for the DGR (00216-REP-03902-00003 R003)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides clarification on the uncertainty range in inventories for key radionuclides	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-06 and IR-EIS-01-20 Letter dated Jul.10, 2012 [6]	606
Table 2.2	Low-Level Waste Categories	Response to Information Requests	Provides clarification on alternative means of dealing with combustible waste	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Table 2.3	Intermediate-Level Waste Categories	Response to Information Requests	Provides clarification on alternative means of dealing with combustible waste	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Table 2.8	Inventory of Non-Radioactive Components in Operational Low- and Intermediate-Level Waste	Response to Information Requests	Provides clarification on elements listed in Table 2.8	Response to IR-EIS-04-107 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704
Sec. 3.1	Waste Volumes and Package Inventory	Response to Information Requests	Provides clarification of terms	Response to IR-EIS-04-108 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704
Sec. 3.2	Radionuclide Inventory	Response to Information Requests	Provides clarification of terms	Response to IR-EIS-04-108 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704
Table 4.2	Operational and Refurbishment Low- and Intermediate-Level Waste Package Inventory for Deep Geologic Repository	Response to Information Requests	Provides additional detail on waste containers/packages	Response to IR-EIS-09-474 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949

Reference L&ILW Inventory for the DGR (00216-REP-03902-00003 R003)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Appendix B	Specific Activities of Operational and Refurbishment Low- and Intermediate-Level Waste	Response to Information Requests	Provides clarification of basis for reference inventories	Response to IR-EIS-06-264 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832
Appendix B, Table B.1	Summary of Specific Activities of Operational Low-Level Waste (As-received)	Response to Information Requests	Provides the amount of measurement data and the upper confidence levels in the mean for radionuclide and element concentrations determined by direct measurement or through measured scaling factor	Response to IR-EIS-08-384 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915
Appendix B, Table B.2	Summary of Specific Activities of Operation Intermediate-Level Waste (As-received)	Response to Information Requests	Provides the amount of measurement data and the upper confidence levels in the mean for radionuclide and element concentrations determined by direct measurement or through measured scaling factor	Response to IR-EIS-08-384 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915
Appendix B, Table B.3	Summary of Specific Activities of Reactor Refurbishment Wastes	Response to Information Requests	Provides the amount of measurement data and the upper confidence levels in the mean for radionuclide and element concentrations determined by direct measurement or through measured scaling factor	Response to IR-EIS-08-384 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915

Reference L&ILW Inventory for the DGR (00216-REP-03902-00003 R003)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Appendix C, Table C.1	Chemical Composition of Low- and Intermediate-Level Waste	Response to Information Requests	Provides the amount of measurement data and the upper confidence levels in the mean for radionuclide and element concentrations determined by direct measurement or through measured scaling factor	Response to IR-EIS-08-384 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915
Appendix D	Uncertainties Associated with Concentrations of Radionuclides and Chemicals in Low- and Intermediate-Level Waste	Response to Information Requests	Provides information for radionuclide content in the non-processible drums	Response to IR-EIS-06-262 in OPG Response to IR Package #6 Letter dated Dec.12, 2012 [18]	832
Appendix E	Reference Deep Geological Repository Data Sheets	Response to Information Requests	Provides additional detail on waste containers/packages	Response to IR-EIS-09-474 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 1.3	Conceptual Layout of the DGR below the Bruce Nuclear Site	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 2.2	Regional Geology	Response to Information Requests	Provides justification for the assessment of the influence of major basement features on the occurrence of faults and fractures in the megablock encompassing the DGR site and the current interpretation of the structural geology as described in the 3DGM	Response to IR-EIS-08-315 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886
Sec. 2.2.5.2	3D Geological Framework	Response to Information Requests	Clarifies the uncertainties in the 3DGM model and summarizes the multiple data sources and process used to develop the model. Provides new information post licensing submission on stratigraphic observations from DGR-7 and -8.	Response to IR-EIS-08-314 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902
Sec. 2.2.5.3	Michigan Basin Subsidence and Thermal History	Response to Information Requests	Provides additional information regarding the paleo-thermal evolution of the Paleozoic sequence at the Bruce nuclear site	Response to IR-EIS-09-427 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 2.2.5.4	Diagenesis	Response to Information Requests	Provides justification that the observed fracturing in the shallow Devonian and upper sections of the Late Silurian strata at the Bruce nuclear site will have no impact on the long-term integrity and safety of the DGR due to the isolated nature of the proposed Ordovician host rock	Response to IR-EIS-08-319 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			and associated diffusion-dominated porewater system		
Sec. 2.2.5.5	Karst and Paleokarst	Response to Information Requests	Provides justification for the current assessment with respect to inclusion of unconformities and paleo-karst horizons in assessment of DGR safety	Response to IR-EIS-08-314 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902
Sec. 2.2.6.4	Regional Faults - Timing	Response to Information Requests	Provides justification for the assessment and interpretation of fracture timing and development in the Paleozoic sediments in the region surrounding the site. Provides clarification on the estimated time for completion of the fracture mineral characterization study.	Response to IR-EIS-05-167 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793
			Provides additional information regarding the absolute age of fractures and associated calcite mineral infilling in the Paleozoic sequence at the Bruce nuclear site	Response to IR-EIS-09-415 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
			Provides information regarding the absolute age of fractures and associated calcite mineral infilling in the Paleozoic sequence at the Bruce nuclear site	Response to IR-EIS-09-428 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 2.2.6.7	Regional Fracture Patterns	Response to Information Requests	Provides additional information regarding the absolute age of fractures and associated calcite mineral infilling in the Paleozoic sequence at the Bruce nuclear site	Response to IR-EIS-09-415 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides information regarding the absolute age of fractures and associated calcite mineral infilling in the Paleozoic sequence at the Bruce nuclear site	Response to IR-EIS-09-428 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 2.2.7	Quaternary Geology and Glaciation	Response to Undertakings	Provides clarification on the environment of deposition and genetic aspects of the subsurface deposits found on the DGR site	Response to Undertaking TIS 4 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692
Sec. 2.2.7.1	Regional Quaternary Geology	Response to Information Requests	Provides clarification on shoreline evolution due to glacial rebound	Response to IR-LPSC-01-16 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 2.2.8	Economic Geology	Response to Information Requests	Provides clarification on assessment of natural resources	Response to IR-EIS-01-24 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides additional information on the assessment of undiscovered oil, gas and mineral resources at the regional, local and site scale and also the uncertainties associated with the assessment	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-24 Letter dated Jul.10, 2012 [6]	606
			Provides clarification on assessment of natural resources and the status of known historical oil and gas exploration wells drilled within 40 km of the site	Response to IR-EIS-05-162 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793
Sec. 2.2.8.3	Bedrock Resources	Response to Information Requests	Provides historical information on MVT deposits in Southern Ontario	Response to IR-EIS-02-39 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 2.3	Site-scale Geology	Response to Undertakings	Provides clarification on the environment of deposition and genetic aspects of the subsurface deposits found on the DGR site	Response to Undertaking TIS 4 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692
		Response to Information Requests	Provides justification for the assessment of the influence of major basement features on the occurrence of faults and fractures in the megablock encompassing the DGR site and the current interpretation of the structural geology as described in the 3DGFM	Response to IR-EIS-08-315 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886
Sec. 2.3.5.2	Core Logging	Response to Information Requests	Provides additional information on fluid inclusion thermometry and radiometric age dating of fracture infill	Response to IR-EIS-02-38 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
Sec. 2.3.6	Hydrocarbon Occurrences	Response to Information Requests	Provides clarification on assessment of natural resources	Response to IR-EIS-01-24 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides additional information on the assessment of undiscovered oil, gas and mineral resources at the regional, local and site scale and also the uncertainties associated with the assessment	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-24 Letter dated Jul.10, 2012 [6]	606
Sec. 2.3.8	Karst and Paleokarst Occurrences	Response to Information Requests	Provides justification for the current assessment with respect to inclusion of unconformities and paleo-karst horizons in assessment of DGR safety	Response to IR-EIS-08-314 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 2.3.9	Site-scale Structural Geology	Response to Information Requests	Provides justification for the current assessment of sub-surface features – identified as potential faults from interpretations of the 2D seismic reflection survey – to be artifacts of data processing. Rationalization for the lack of a 3D seismic survey is also provided.	Response to IR-EIS-05-165 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793
			Provides additional information regarding the absolute age of fractures and associated calcite mineral infilling in the Paleozoic sequence at the Bruce nuclear site	Response to IR-EIS-09-415 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
			Provides information regarding the absolute age of fractures and associated calcite mineral infilling in the Paleozoic sequence at the Bruce nuclear site	Response to IR-EIS-09-428 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 2.3.9.1	Fracture Analysis	Response to Information Requests	Provides clarification of interpreted fracture origin and timing related to new information related to geochronologic dating (U-Pb) of fracture infill calcites occurring in Devonian Strata	Response to IR-EIS-10-484 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990
Sec. 2.3.10	Summary	Response to Information Requests	Provides clarification of interpreted fracture origin and timing related to new information related to geochronologic dating (U-Pb) of fracture infill calcites occurring in Devonian Strata	Response to IR-EIS-10-484 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 3.2	Geomechanical Rock Properties	Response to Information Requests	Provides clarification on Cobourg Formation core strength	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification on data used in determining core strength of the Georgian Bay formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
		Response to Undertakings	Provides additional information on geoscientific characterization	Response to Undertaking TIS 15 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692
Sec. 3.2.1.1	Intact Rock Properties	Response to Information Requests	Provides clarification of confidence assessment	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification regarding the number of tests required to establish adequate tensile strength	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification of the sample population size used to assess triaxial strength character of an entire rock formation and effect of spatial distribution of samples on strength parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification on the sample population used to infer shear strength	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification on Cobourg Formation attributes supporting the containment and isolation of L&ILW	Response to IR-EIS-03-73 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 3.3	Uniaxial Compression Test Data for Collingwood, Cobourg and Sherman Fall: (a) UCS and (b) Elastic Modulus from Boreholes DGR-2 to DGR-6	Response to Information Requests	Provides clarification on the variance in strength data for the Cobourg Formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Fig. 3.7	Hoek-Brown Failure Envelope for the Cobourg Formation	Response to Information Requests	Provides clarification of the sample population size used to assess triaxial strength character of an entire rock formation and effect of spatial distribution of samples on strength parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Fig. 3.8	Direct Shear Test Results for the Cobourg Formation	Response to Information Requests	Provides clarification on the sample population used to infer shear strength	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 3.2.1.2	Rock Mass Properties	Response to Information Requests	Provides clarification of evidence for the overall integrity of the Cobourg Formation at the DGR site	Response to IR-EIS-03-72 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 3.2.1.3	Short-term Behaviour	Response to Information Requests	Provides clarification on drill and blast techniques used in the development of the Darlington tunnel	Response to IR-EIS-03-52 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 3.2.2.1	Intact Rock	Response to Information Requests	Provides clarification of the description and tabulation of Poisson's ratio parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 3.14	UCS of the Queenston Formation (a) and Georgian Bay Formation Shales (b)	Response to Information Requests	Provides clarification on data used in determining core strength of the Georgian Bay formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 3.2.3.1	Intact Rock	Response to Information Requests	Provides clarification of the description and tabulation of Poisson's ratio parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Table 3.14	Summary of Laboratory Geomechanical Properties in MS Units 1 to 5)	Response to Information Requests	Provides clarification on data used in determining core strength of the Georgian Bay formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification on the variance in strength data for the Cobourg Formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification of the description and tabulation of Poisson's ratio parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 4.4	Hydrogeochemical Data from the Bruce Nuclear Site	Response to Information Requests	Provides a TDS versus depth plot that differentiates groundwaters from porewaters, as presented in Figure 4.54 of the DGSM. Highlights that two independent laboratories were used to determine the major ion chemistries.	Response to IR-EIS-09-442 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 4.6	TDS versus Depth for DGR Boreholes	Response to Information Requests	Provides a TDS versus depth plot that differentiates groundwaters from porewaters, as presented in Figure 4.54 of the DGSM. Highlights that two independent laboratories were used to determine the major ion chemistries.	Response to IR-EIS-09-442 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 4.4.1	Natural Tracers	Response to Information Requests	Provides a summary of the updated geochemical conceptualization in the context of the natural tracers and the natural gases (methane and helium), providing clarification and further justification for the natural barrier hypothesis and the assessment that solute transport is diffusion-dominated in the Ordovician formations	Response to IR-EIS-09-435 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 4.4.3	Gas Characterization	Response to Information Requests	Provides a summary of the updated geochemical conceptualization in the context of the natural tracers and the natural gases (methane and helium), providing clarification and further justification for the natural barrier hypothesis and the assessment that solute transport is diffusion-dominated in the Ordovician formations	Response to IR-EIS-09-435 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 4.5	Illustrative Modelling of the Bruce Nuclear Site Geochemistry	Response to Information Requests	Provides clarification on the effects of glaciation on the repository	Response to IR-EIS-01-17 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides clarification on confidence in groundwater system behaviour and performance	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification on the effects of glaciation on the repository	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-17 Letter dated Jul.10, 2012 [6]	606
			Provides justification for the proposed conceptual model of solute transport	Response to IR-EIS-04-128 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725
			Provides rationale and justification for the key assumptions and parameters used in the illustrative geochemical modelling of the Bruce nuclear site in the context of testing the solute transport hypotheses (i.e., diffusion-dominated transport and long solute residence times). Provides a summary of the updated geochemical conceptualization for the Bruce nuclear site and key assumptions of the illustrative model.	Response to IR-EIS-09-444 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 4.5.1.1	The Ordovician Tracer Profiles: Diffusion-from-above	Response to Information Requests	Provides clarification of evidence for the overall integrity of the Cobourg Formation at the DGR site	Response to IR-EIS-03-72 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides clarification of the terminology, "long time periods", as used in the technical supporting reports in the context of porewater and solute longevity (e.g., ¹⁸ O) in the deep groundwater system at the Bruce nuclear site	Response to IR-EIS-09-437 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 4.6	Summary	Response to Information Requests	Provides clarification of the terminology, "long time periods", as used in the technical supporting reports in the context of porewater and solute longevity (e.g., ¹⁸ O) in the deep groundwater system at the Bruce nuclear site	Response to IR-EIS-09-437 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Ch. 5	Hydrogeology	Response to Information Requests	Provides clarification as to how the hydraulic parameters used to represent the shale formations in the hydrogeologic modelling were derived Provides justification for the hydrogeologic modelling discretization with respect to the Guelph and Salina A1 Unit aquifers	Response to IR-EIS-04-125 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725
Sec. 5.3.2	Permeability	Response to Information Requests	Provides justification for the assessment that the laboratory-determined permeability data at Core Labs are high and overestimate the in-situ rock mass permeabilities at the Bruce nuclear site	Response to IR-EIS-09-417 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 5.3.5	Diffusion Properties	Response to Information Requests	Provides discussion of diffusion coefficients determined for the selected tracers (HTO and NaI)	Response to IR-EIS-02-35 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
			Provides a summary of the measures of reliability for the D _e values	Response to IR-EIS-09-425 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
		Correction	Corrects a typographical error regarding the D _e values measured from DGR drill cores (p.203)	Response to IR-EIS-09-425 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 5.4	Hydrogeological Modelling	Response to Information Requests	Provides justification for the current assessment that the site is located above an inter-reefal facies association and is not located in close proximity to an unidentified pinnacle reef	Response to IR-EIS-05-211 in OPG Response to IR Package #5 Letter dated Nov.7, 2012 [15]	793
Sec. 5.4.1	Conceptual Models	Response to Undertakings	Provides additional information regarding the piezometric surface in the carbonate aquifer beneath the DGR surface facilities	Response to Undertaking TIS 6 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692
Sec. 5.4.5	Regional-scale Model	Response to Information Requests	Provides clarification as to why the hydraulic head in the Precambrian was not measured for the purposes of hydrogeological modelling	Response to IR-EIS-04-100 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides clarification regarding: 1) the confidence in the longevity of the abnormal pressures observed at the site, and 2) conservatism applied in the hydrogeologic and safety assessment modelling scenarios with regard to abnormal pressure evolution	Response to IR-EIS-04-113 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725
			Provides justification for the parameterization of the Salina A1 Unit, and the Guelph and Cambrian formation aquifers in the hydrogeological modeling	Response to IR-EIS-04-127 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725
Table 5.8	Matrix of Regional-scale Simulations Performed	Response to Information Requests	Provides justification for the sufficiency of hydrogeologic modelling with respect to assessing the influence of a laterally continuous permeable unit at the base of the sedimentary sequence	Response to IR-EIS-04-126 in OPG Response to IR Package #4 Letter dated Aug.27, 2012 [10]	704
			Provides justification for the sufficiency of hydrogeologic modelling with respect to assessing the influence of a laterally continuous permeable unit at the base of the sedimentary sequence	Response to IR-EIS-05-163 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776
Sec. 5.4.6	Regional-scale Paleoclimate Modelling	Response to Information Requests	Provides clarification on the effects of glaciation on the repository	Response to IR-EIS-01-17 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides clarification on the effects of glaciation on the repository	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-17 Letter dated Jul.10, 2012 [6]	606

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides clarification regarding: 1) the confidence in the longevity of the abnormal pressures observed at the site, and 2) conservatism applied in the hydrogeologic and safety assessment modelling scenarios with regard to abnormal pressure evolution	Response to IR-EIS-04-113 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725
			Provides justification for the parameterization of the Salina A1 Unit, and the Guelph and Cambrian formation aquifers in the hydrogeological modelling	Response to IR-EIS-04-127 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725
Sec. 5.4.8	Michigan Basin Cross-section Model	Response to Information Requests	Provides clarification on the intended purpose of the Michigan Basin Cross-section analyses in the context of the generation of anomalous pressures	Response to IR-EIS-08-357 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902
Sec. 5.4.10	Conclusions from Hydrogeological Modelling Studies	Response to Information Requests	Provides clarification on the effects of glaciation on the repository	Response to IR-EIS-01-17 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides clarification on the effects of glaciation on the repository	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-17 Letter dated Jul.10, 2012 [6]	606
Sec. 5.5	Summary	Response to Information Requests	Provides a summary of information on the assessment and interpretation of hydraulic formation pressures within the deep groundwater system	Response to IR-EIS-03-74 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides clarification on confidence in groundwater system behaviour and performance	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 6.2.2.1	Seismicity and Seismic Hazard Assessment	Response to Information Requests	Provides clarification on seismic activity in Bruce region	Response to IR-EIS-03-75 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 6.3	Repository-induced Disturbances	Response to Information Requests	Provides clarification regarding definitions of EDZ and EdZ	Response to IR-EIS-03-52 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Table 6.3	EDZ Extent and Properties Observed from Underground Excavations	Response to Information Requests	Provides clarification on the selection of the drill and blast technique	Response to IR-EIS-03-52 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 6.3.1.2	Long-term EDZ Behaviour: Self-Sealing	Response to Information Requests	Provides justification that the observed fracturing in the shallow Devonian and upper sections of the Late Silurian strata at the Bruce nuclear site will have no impact on the long-term integrity and safety of the DGR due to the isolated nature of the proposed Ordovician host rock and associated diffusion-dominated porewater system	Response to IR-EIS-08-319 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886
Sec. 6.4	Modelling of Repository Evolution	Response to Information Requests	Provides clarification on Cobourg Formation attributes supporting the containment and isolation of L&ILW	Response to IR-EIS-03-73 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 6.11	Repository Layout and Typical Emplacement Room Cross-section	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 6.4.3.4	Modelling Results	Response to Information Requests	Provides additional information on the effects of glaciation on the repository	Response to IR-EIS-01-17 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides clarification on the effects of glaciation on the repository	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-17 Letter dated Jul.10, 2012 [6]	606
Sec. 6.4.4	Emplacement Room Stability: 2D Analysis	Response to Information Requests	Provides clarification on the effects of glaciation on the repository	Response to IR-EIS-01-17 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides clarification on the effects of glaciation on the repository	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-17 Letter dated Jul.10, 2012 [6]	606
			Provides additional geomechanical analyses to illustrate the influence of overburden removal during glacial events on barrier integrity of the Ordovician shale cap rocks	Response to IR-EIS-10-484 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990
Sec. 6.4.4.2	Numerical Analyses	Response to Information Requests	Provides clarification on the variance in strength data for the Cobourg Formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 6.4.4.7	Alternate Numerical Approach	Response to Information Requests	Provides clarification on Cobourg Formation attributes supporting the containment and isolation of L&ILW	Response to IR-EIS-03-73 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 6.4.5	Emplacement Panel: 3D Analysis	Response to Information Requests	Provides clarification on the effects of glaciation on the repository	Response to IR-EIS-01-17 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides clarification on Cobourg Formation attributes supporting the containment and isolation of L&ILW	Response to IR-EIS-03-73 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification on the effects of glaciation on the repository	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-17 Letter dated Jul.10, 2012 [6]	606
Fig. 6.38	Geometry of the Panel-scale Model	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Fig. 6.39	Model Panel Geometry Overlay with Repository Layout	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 6.4.6	Geomechanical Modelling Results and Discussion	Response to Information Requests	Provides clarification on the effects of glaciation on the repository	Response to IR-EIS-01-17 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides clarification on Cobourg Formation attributes supporting the containment and isolation of L&ILW	Response to IR-EIS-03-73 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification on the effects of glaciation on the repository	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-17 Letter dated Jul.10, 2012 [6]	606

Geosynthesis (NWMO DGR-TR-2011-11 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 7.2	Favourable Geological Attributes of the Ordovician Interval	Response to Information Requests	Provides clarification regarding the rationale for the selection of the Cobourg Formation to host the DGR	Response to IR-EIS-03-73 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification of interpreted fracture origin and timing related to new information related to geochronologic dating (U-Pb) of fracture infill calcites occurring in Devonian Strata	Response to IR-EIS-10-484 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990
Sec. 7.2.2	Cap Rock Upper Ordovician Shales	Response to Information Requests	Provides clarification on the level of understanding of the origin of under-pressures in the Ordovician sediments and the confidence associated with this understanding	Response to IR-EIS-09-429 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 8	Summary And Conclusions	Correction	Correction to a typographical error in the text, where pyrite should be stated to be found in "trace to minor amounts" instead of "trace amounts" in the Paleozoic sequence at the Bruce nuclear site	Response to IR-EIS-09-419 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
		Response to Information Requests	Clarifies the definitions of "trace" and "minor" in the context of rock chemistry	Response to IR-EIS-09-419 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949

Descriptive Geosphere Site Model (NWMO DGR-TR-2011-24 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 1.1	Conceptual Layout of the DGR below the Bruce Nuclear Site	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Fig. 1.2	DGR Boreholes, US Boreholes and the Proposed DGR Layout at the Bruce Nuclear Site	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 3.6	Core Quality and Natural Fracture Frequency	Response to Information Requests	Provides justification that the observed fracturing in the shallow Devonian and upper sections of the Late Silurian strata at the Bruce nuclear site will have no impact on the long-term integrity and safety of the DGR due to the isolated nature of the proposed Ordovician host rock and associated diffusion-dominated porewater system	Response to IR-EIS-08-319 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886
Sec. 3.7.4.2	Hydrocarbons	Response to Information Requests	Provides clarification on assessment of natural resources	Response to IR-EIS-01-24 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides additional information on the assessment of undiscovered oil, gas and mineral resources at the regional, local and site scale and also the uncertainties associated with the assessment	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-24 Letter dated Jul.10, 2012 [6]	606
Sec. 3.8	Formation Stratigraphic Descriptions	Response to Information Requests	Clarifies the uncertainties in the 3DGF model and summarizes the multiple data sources and processes	Response to IR-EIS-08-314 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902

Descriptive Geosphere Site Model (NWMO DGR-TR-2011-24 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			used to develop the model. Provides new information post licensing submission on stratigraphic observations from DGR-7 and -8.		
Sec. 3.11	Major Structural and Stratigraphic Discontinuities	Response to Information Requests	Provides justification for the assessment of the influence of major basement features on the occurrence of faults and fractures in the megablock encompassing the DGR site and the current interpretation of the basement and structural geology as described in the 3DGFM	Response to IR-EIS-08-315 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886
			Clarifies the uncertainties in the 3DGF model and summarizes the multiple data sources and processes used to develop the model. Provides new information post licensing submission on stratigraphic observations from DGR-7 and -8.	Response to IR-EIS-08-314 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902
Sec. 3.13.1	Texaco #6 and DGR-1/DGR-2	Response to Information Requests	Clarifies the uncertainties in the 3DGF model and summarizes the multiple data sources and processes used to develop the model. Provides new information post licensing submission on stratigraphic observations from DGR-7 and -8.	Response to IR-EIS-08-314 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902
Fig. 3.71	Regional Stratigraphic Cross-Section - Texaco # 6 to Bruce Nuclear Site	Response to Information Requests	Clarifies the uncertainties in the 3DGF model and summarizes the multiple data sources and processes used to develop the model.	Response to IR-EIS-08-314 in OPG Response to IR Package #8 Letter dated Feb.28, 2013 [22]	902

Descriptive Geosphere Site Model (NWMO DGR-TR-2011-24 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides new information post licensing submission on stratigraphic observations from DGR-7 and -8.		
Sec. 3.15	Confidence Assessment of Geological data and Model	Response to Information Requests	Provides clarification on the measures used to assess confidence in the geologic data and model	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 4.3.2.2	Porosity Values	Response to Information Requests	Provides clarification regarding the use of liquid porosity in mass transport predictions	Response to IR-EIS-03-80 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 4.3.4	Rock Permeability to Gas and Brine	Response to Information Requests	Provides justification for the assessment that the laboratory-determined permeability data at Core Labs are high and overestimate the in-situ rock mass permeabilities at the Bruce nuclear site	Response to IR-EIS-09-417 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 4.4.1	Effective Diffusion Coefficients	Response to Information Requests	Provides information on diffusion coefficient uncertainty	Response to IR-EIS-02-35 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
Sec. 4.6.5	Major Ions	Response to Information Requests	Provides rationale for the exclusion of sample data from the presented major ion profiles (i.e., samples are not representative of fluid chemistry due to analytical artifacts)	Response to IR-EIS-09-423 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 4.6.8	Estimated Porewater pH and Redox Conditions	Response to Information Requests	Provides a reference Eh-pH diagram for iron (aqueous and mineral) speciation. Provides reference to key sections in the DGSM and Geosynthesis where justifications and rationale for the characterization of redox conditions	Response to IR-EIS-09-436 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949

Descriptive Geosphere Site Model (NWMO DGR-TR-2011-24 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			at the Bruce nuclear site, using indirect methods, are presented.		
Sec. 4.12	Formation Pressures and Hydraulic Heads	Response to Information Requests	Provides clarification of methods used to obtain/estimate formation pressures throughout the sedimentary sequence beneath the Bruce nuclear site	Response to IR-EIS-03-74 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 4.12.2.8	Summary of Underpressures and Overpressures	Response to Information Requests	Provides information on hydraulic formation pressures observed during site characterization activities	Response to IR-EIS-03-74 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 4.13	Hydrostratigraphic Units	Response to Undertakings	Provides additional information regarding the piezometric surface in the carbonate aquifer beneath the DGR surface facilities	Response to Undertaking TIS 6 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692
Sec. 4.13.6	HS Unit 6: Ordovician Limestone Aquiclude	Response to Information Requests	Provides clarification of evidence for the overall integrity of the Cobourg Formation at the DGR site	Response to IR-EIS-03-72 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 4.16	Confidence Assessment of Hydrological Data and Model	Response to Information Requests	Provides clarification on the measures used to assess confidence in the hydrogeological data and model	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 4.16.2	Liquid and Total Porosities	Response to Information Requests	Provides clarification regarding the use of liquid porosity in mass transport predictions	Response to IR-EIS-03-80 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 4.16.7	Formation Hydraulic Properties	Response to Information Requests	Provides clarification of evidence for the overall integrity of the Cobourg Formation at the DGR site	Response to IR-EIS-03-72 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608

Descriptive Geosphere Site Model (NWMO DGR-TR-2011-24 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 4.16.8	Formation Pressures and Heads	Response to Information Requests	Provides information on confidence assessment of hydraulic head data	Response to IR-EIS-03-74 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 5.3	Local Seismicity	Response to Information Requests	Provides clarification on seismic activity in Bruce region	Response to IR-EIS-03-75 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 5.4	In Situ Stresses	Response to Information Requests	Provides additional UCS values from the testing of DGR-8 core samples	Response to IR-EIS-09-422 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 5.5	MS Unit 1: Devonian and Upper Silurian Dolostones	Response to Information Requests	Provides clarification of the description and tabulation of Poisson's ratio parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 5.6	MS Unit 2: Upper and Middle Silurian Shales, Dolostones and Anhydrite	Response to Information Requests	Provides clarification of the description and tabulation of Poisson's ratio parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 5.7	MS Unit 3: Lower Silurian and Upper Ordovician Shales and Dolostones	Response to Information Requests	Provides clarification on data used in determining core strength of the Georgian Bay formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification on the variance in strength data for the Cobourg Formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification of the description and tabulation of Poisson's ratio parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608

Descriptive Geosphere Site Model (NWMO DGR-TR-2011-24 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 5.7.1	Rock Material Geomechanical Characteristics	Response to Information Requests	Provides additional information from DGR-8 for sampling in the Queenston, Georgian Bay and Blue Mountain formations	Response to IR-EIS-09-420 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 5.7.1.1	Uniaxial Compression	Response to Information Requests	Provides additional UCS values from the testing of DGR-8 core samples	Response to IR-EIS-09-422 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Fig. 5.13	MS Unit 3: Uniaxial Compression Test Data	Response to Information Requests	Provides additional UCS values from the testing of DGR-8 core samples	Response to IR-EIS-09-422 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 5.7.2.1	Rock Quality Designation, Fracture Frequency and Fracture Sets	Response to Information Requests	Provides additional interpretation of discontinuity data from DGR-5 and DGR-6	Response to IR-EIS-09-418 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 5.8	MS Unit 4: Middle Ordovician Cobourg Formation	Response to Information Requests	Provides clarification on Cobourg Formation core strength	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification on the variance in strength data for the Cobourg Formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification on the sample population used to infer shear strength	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification of the description and tabulation of Poisson's ratio parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 5.8.1.1	Uniaxial Compression	Response to Information Requests	Provides clarification on Cobourg Formation attributes supporting the containment and isolation of L&ILW	Response to IR-EIS-03-73 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608

Descriptive Geosphere Site Model (NWMO DGR-TR-2011-24 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 5.8.1.3	Triaxial Compression	Response to Information Requests	Provides clarification of the sample population size used to assess triaxial strength character of an entire rock formation and effect of spatial distribution of samples on strength parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Fig. 5.26	MS Unit 4: Brazilian Tests – Indirect Tensile Strength Data	Response to Information Requests	Provides clarification regarding the number of tests required to establish adequate tensile strength	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 5.8.1.6	Slake Durability	Response to Information Requests	Provides clarification on Cobourg Formation attributes supporting the containment and isolation of L&ILW	Response to IR-EIS-03-73 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 5.9	MS Unit 5: Middle Ordovician Sherman Fall and Deeper Formations	Response to Information Requests	Provides clarification on the variance in strength data for the Cobourg Formation	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification of the description and tabulation of Poisson's ratio parameters	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Table 5.22	Representative Estimates of Uniaxial Compression Strength Properties of Geomechanical Model Layers	Response to Information Requests	Provides additional UCS values from the testing of DGR-8 core samples	Response to IR-EIS-09-422 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949

Descriptive Geosphere Site Model (NWMO DGR-TR-2011-24 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 5.11	Confidence Assessment of Geomechanical Data and Model	Response to Information Requests	Provides clarification on the measures used to assess confidence in the geomechanical data and model	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 5.11.2	Rock Material Strength Properties	Response to Information Requests	Provides clarification of confidence assessment	Response to IR-EIS-03-68 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification on Cobourg Formation attributes supporting the containment and isolation of L&ILW	Response to IR-EIS-03-73 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Table 6.1	Summary of Confidence Assessment in Characterization of Descriptive Geological Site Model Properties	Response to Information Requests	Provides clarification on the measures used to assess confidence in the characterization of descriptive geological site model properties	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Table 6.2	Summary of Confidence Assessment in Characterization of Descriptive Hydrogeological Site Model Properties	Response to Information Requests	Provides clarification on the measures used to assess confidence in the characterization of descriptive hydrogeological site model properties	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608

Descriptive Geosphere Site Model (NWMO DGR-TR-2011-24 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Table 6.3	Summary of Confidence Assessment in Characterization of Descriptive Geomechanical Site Model Properties	Response to Information Requests	Provides clarification on the measures used to assess the confidence in the characterization of the descriptive geomechanical site model properties	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608

Postclosure Safety Assessment (NWMO DGR-TR-2011-25 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 1.2	The DGR Concept at the Bruce Nuclear Site	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 2	Assessment Approach	Correction	Change in para 5 on p.7	Item #10 in OPG Corrections Letter dated Feb.10, 2012 [2]	335
Sec. 3.6.2	Conservative Scenarios, Models and Data	Response to Information Requests	Provides clarification on degree of conservatism used in the postclosure safety assessment	Response to IR-EIS-01-20 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 3.6	Treatment of Uncertainties	Response to Information Requests	Provides clarification on postclosure safety assessment uncertainties (i.e., scenario uncertainty, model uncertainty and data uncertainty)	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 3.8	Timeframes of Interest	Response to Information Requests	Provides clarification on the alternative means "no institutional control necessary"	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides clarification on how radiological hazards change over time	Response to IR-EIS-04-105 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725
			Provides clarification on institutional controls	Response to IR-EIS-05-181 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776
			Provides clarification on institutional controls	Response to IR-EIS-05-194 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776
			Provides clarification on institutional controls	Response to IR-EIS-08-363 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886

Postclosure Safety Assessment (NWMO DGR-TR-2011-25 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 4.3	General Layout of the Final Preliminary Design Repository	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Fig. 4.5	Isometric View of the Final Preliminary Design Repository	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-6 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Fig. 4.6	Emplacement Room Section View – P1 Profile for Bin Type Waste Packages	Design update	Updates emplacement room dimensions	Item #2 (i.e., Fig. 6-17 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Fig. 4.7	Emplacement Room Section View – P3 Profile for Resin Liner Type Waste Packages	Design update	Updates emplacement room dimensions	Item #2 (i.e., Fig. 6-18 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Fig. 4.8	Location of Monolith in Repository Tunnels	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 13-1 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 4.3	Geologic Setting	Response to Information Requests	Provides justification for neglecting lateral flow in the Cambrian formation and the placement of the lower boundary condition in the 3DS model	Response to IR-EIS-04-129 in OPG Response to IR Package #4 Letter dated Sep.6, 2012 [11]	725
Sec. 5.1	The Normal Evolution Scenario	Response to Information Requests	Provides clarification and further analysis of potential effects of glaciation on the repository	Response to IR-EIS-01-17 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363

Postclosure Safety Assessment (NWMO DGR-TR-2011-25 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides clarification and further analysis of potential effects of glaciation on the repository	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-17 Letter dated Jul.10, 2012 [6]	606
Sec. 5.1.2	Description	Response to Information Requests	Provides additional information on microbial activity and reaction with sulphates. Provides additional information on supercriticality and non-ideality effects on gas properties.	Response to IR-EIS-09-404 in OPG Response to IR Package #9 Letter dated Apr.30, 2013 [27]	989
Table 5.3	External FEPs Potentially Compromising Arguments Relating to the Long-term Safety of the DGR (item 7)	Response to Information Requests	Provides clarification on institutional controls	Response to IR-EIS-05-181 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776
			Provides clarification on institutional controls	Response to IR-EIS-05-194 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776
Fig. 6.3	Detailed Representation of Potential Transport Pathways in the Repository and Geosphere for the Normal Evolution Scenario	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 6.2.1	Normal Evolution Scenario	Response to Information Requests	Provides an assessment of the influence lake shoreline changes on the postclosure safety assessment	Response to IR-EIS-01-16 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363

Postclosure Safety Assessment (NWMO DGR-TR-2011-25 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			Provides clarification on organochlorines and on dose coefficients for credible complex species	Response to IR-EIS-01-23 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 6.2.5	Vertical Fault Scenario	Response to Information Requests	Provides clarification of basis for assumed faults	Response to IR-EIS-02-36 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
			Provides additional analysis of hypothetical vertical faults	Complete response to IR-EIS-02-36 in OPG Letter dated Jun.28, 2012 [7]	581
Sec. 6.2.1.1	Waste and Repository	Response to Information Requests	Provides an assessment of the estimated peak gas pressures in panels isolated by closure walls and the impact of closure walls on gas generation and migration	Response to IR-EIS-01-19 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides information on microbial effects	Response to IR-EIS-01-21 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides an assessment of the formation of gas species due to degradation of L&ILW	Response to IR-EIS-01-23 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 6.4	Mathematical Models and Software Implementation	Response to Information Requests	Provides clarification of the basis for confidence in the models	Response to IR-EIS-04-109 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759
Sec. 6.5	Data	Response to Information Requests	Provides information on resin degradation rates	Response to IR-EIS-01-22 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363

Postclosure Safety Assessment (NWMO DGR-TR-2011-25 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Table 7.1	Calculation Cases for the Postclosure Safety Assessment	Correction	Change on row "NE-GT5" on p.151	Item #11 in OPG Corrections Letter dated Feb.10, 2012 [2]	335
Sec. 7.2	Disruptive Scenarios	Response to Information Requests	Provides analysis of consequences of an abandoned repository with no shaft seals	Response to IR-EIS-09-460 in OPG Response to IR Package #9 Letter dated Apr.30, 2013 [27]	989
Sec. 7.2.1	Human Intrusion	Response to Information Requests	Provides clarification on the alternative means "no institutional control necessary"	Response to IR-EIS-03-50 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides additional information on calculated doses from human intrusion surface pathway assuming H-3 gas is released as HTO and no institutional control or societal memory	Response to IR-EIS-09-461 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 7.2.4	Vertical Fault	Response to Information Requests	Provides clarification of basis for assumed faults	Response to IR-EIS-02-36 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
			Provides additional analysis of hypothetical vertical faults	Complete response to IR-EIS-02-36 in OPG Letter dated Jun.28, 2012 [7]	581
			Provides additional sensitivity studies on the effects of vertical faults	Response to IR-EIS-08-385 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915
Fig. 7.27	Depth of Water in Repository (Non-Water-Limited Cases)	Correction	Change on Fig.7.27, p.195	Item #8 in OPG Corrections Letter dated Feb.10, 2012 [2]	335

Postclosure Safety Assessment (NWMO DGR-TR-2011-25 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 7.3.2.4	Gas Generation	Response to Undertakings	Provides additional information on the elevated pressure impact on gas generation reactions	Response to Undertaking TIS 16 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715
Sec. 7.3.2.6	Geosphere Transport Properties	Response to Information Requests	Provides information on diffusion coefficient uncertainty	Response to IR-EIS-02-35 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
Sec. 7.3.2.7	Shaft Seal Performance	Response to Information Requests	Provides clarification of the shaft seal resaturation behaviour	Response to IR-EIS-04-153 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759
Sec. 7.3.2.9	Geosphere Horizontal Flow	Response to Information Requests	Provides concentrations and bounding impacts of radionuclides in the Cambrian Formation including horizontal flow in that formation	Response to IR-EIS-08-397 in OPG Response to IR Package #8 Letter dated Mar.15, 2013 [23]	915
Sec. 7.3.2.11	Glaciation	Response to Information Requests	Provides clarification and further analysis of potential effects of glaciation on the repository	Response to IR-EIS-01-17 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides clarification and further analysis of potential effects of glaciation on the repository	Submission of supplementary material to IR Package #1 Response to IR-EIS-01-17 Letter dated Jul.10, 2012 [6]	606
			Provides estimate of the impacts of 300 m of erosion	Response to IR-EIS-10-486 in OPG Response to IR Package #10 Letter dated May 10, 2013 [29]	1048
Sec. 7.3.5.2	Backfilled Repository	Response to Undertakings	Provides additional information on the elevated pressure impact on gas generation reactions	Response to Undertaking TIS 16 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.31, 2012 [11]	715

Postclosure Safety Assessment (NWMO DGR-TR-2011-25 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 7.4	Confidence Building Measures	Response to Information Requests	Provides clarification on measures used to develop confidence in the postclosure safety assessment and results	Response to IR-EIS-03-92 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 8	Conclusions	Response to Information Requests	Provides clarification of the uncertainties in chemical reactions and their effects	Response to IR-EIS-04-114 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759
			Provides clarification of the shaft seal resaturation behaviour	Response to IR-EIS-04-153 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759
Table B.1	Assessment Modelling Cases for the Normal Evolution	Correction	Change on row "NE-GT5-A" on p.B-2	Item #12 in OPG Corrections Letter dated Feb.10, 2012 [2]	335

OPG's DGR for L&ILW Project Requirements (DGR-PDR-00120-0001 R002)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 5.0	Design Limits	Response to Information Requests	Provides clarification of expansion potential	Response to IR-EIS-04-145 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759
			Provides clarification of expansion potential	Response to IR-EIS-10-494 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990
Sec. 6.0	Seismic and Anthropogenic Vibration Requirements	Response to Information Requests	Provides evidence that requirement (for rock burst assessment) has been met	Response to IR-EIS-10-485 in OPG Response to IR Package #10 Letter dated Apr.30, 2013 [28]	990
Sec. 7.0	Design Constraints	Response to Information Requests	Provides clarification and additional information about how project requirement 7.2 will be met	Response to IR-LPSC-04-65 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
			Provides clarification and additional information about how project requirement 7.3 will be met	Response to IR-LPSC-04-65 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
			Provides clarification and additional information about how project requirement 7.5 will be met	Response to IR-LPSC-04-65 in OPG Response to IR Package #9 Letter dated Mar.28, 2013 [24]	949
Sec. 19.0	Regulations, Codes and Standards	Response to Information Requests	Provides additional information on human factors standards, criteria, guidelines applicable to design	Response to IR-LPSC-01-11 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 19.2	Building and Structures	Response to Information Requests	Updates edition of NBCC	Response to IR-LPSC-01-01 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 19.3	Fire Protection System	Response to Information Requests	Updates edition of NBCC and National Fire Code	Response to IR-LPSC-01-02 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363

OPG's DGR for L&ILW Project Requirements (DGR-PDR-00120-0001 R002)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 19.4	Pressurized Systems	Response to Information Requests	Changes "CSA N285-08" to "CSA N285-08 with updates"	Response to IR-LPSC-01-04 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 23.0	Technical References	Response to Information Requests	Updates edition of NBCC for Reference R-5	Response to IR-LPSC-01-01 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363

Radon Assessment (NWMO DGR-TR-2011-34 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 2.1	DGR Underground Layout	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-6 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Fig. 2.3	Ventilation during Construction	Response to Information Requests	Provides clarification on estimated airflow requirements	Response to IR-LPSC-01-35 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Fig. 4.2	DGR Layout with Ventilation Path of Radon Concentration Analysis	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Table 4.3	DGR Properties by Location	Design update	Updates tunnels and room dimensions	Item #2 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336

Maximum Flood Hazard Assessment (NWMO DGR-TR-2011-35 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 2.2	Preliminary Design of the DGR at Bruce Nuclear Site	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Fig. 2.4	Illustration of DGR Underground Facilities	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 3.3.7	Coastal Erosion and Sedimentation	Response to Information Requests	Provides clarification on shoreline evolution due to erosion	Response to IR-EIS-01-16 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 4.1.2	Climate Change and the Future	Response to Information Requests	Provides clarification on shoreline evolution due to global warming	Response to IR-EIS-01-16 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 5.3.3	Hydraulic Model Development	Response to Information Requests	Provides clarification of basis for contour data	Response to IR-EIS-07-283 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843
			Provides clarification of preliminary design of stormwater management system	Response to IR-EIS-07-284 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843
Sec. 5.3.6	Sensitivity Analysis	Response to Information Requests	Provides new information on the sensitivity of maximum flood level to hydrologic and hydraulic parameters	Response to IR-EIS-07-282 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843
Sec. 6.2	Climate Change and the PMP	Response to Information Requests	Provides more recent information on potential climate change effects on precipitation intensity	Response to IR-EIS-04-143 in OPG Response to IR Package #4 Letter dated Sep.28, 2012 [13]	759

Preliminary ALARA Assessment (NWMO DGR-TR-2011-36 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 2.1	Underground DGR Layout	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 4.1	Regulatory Requirements	Response to Information Requests	Provides clarification on equivalent dose limits considered by the project	Response to IR-LPSC-01-07 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 4.2.3	Occupational Collective Dose Benchmark	Response to Information Requests	Provides clarification on the purpose and use of collective dose benchmark	Response to IR-LPSC-01-39 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 6	Occupational Dose Estimates	Response to Information Requests	Provides clarification on worker activities involved in waste package handling	Response to IR-EIS-01-26 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
			Provides dose estimates to persons who will transfer waste packages from WWMF to DGR	Response to IR-EIS-01-28 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 7	Elimination, Abatement and Control Measures	Response to Information Requests	Provides clarification on how individual worker doses are kept ALARA	Response to IR-LPSC-01-44 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Sec. 7.3	Initial Recommendations for Dose Reduction for the DGR	Response to Information Requests	Provides clarification on current status of dispositions of initial recommendations	Response to IR-LPSC-01-39 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Appendix C	Staffing Models and Detailed Dose Rate Results	Response to Information Requests	Provides clarification on worker activities involved in waste package handling	Response to IR-EIS-01-26 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363

Preliminary Conventional Safety Assessment (NWMO DGR-TR-2011-37 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 4.2	Schematic of the DGR	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 4.4	Operations Activities	Response to Information Requests	Provides clarification on secondary egress during operations	Response to IR-LPSC-03-60 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Fig. 4.3	Underground Layout of the DGR	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-6 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Table 5.2	Summary of Site Preparation Conventional Safety Assessment	Response to Information Requests	Provides details and clarification on conventional safety requirements during site preparation	Response to IR-LPSC-01-37 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Table 5.4	Summary of Construction Conventional Safety Assessment	Response to Information Requests	Provides details and clarification on conventional safety requirements during site preparation	Response to IR-LPSC-01-37 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363

Geoscientific Verification Plan (NWMO DGR-TR-2011-38 R000)¹					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 1.1	Proposed Layout of the DGR below the Bruce Nuclear Site	Design update	Updates configuration of underground services area <i>Note: This update is captured in Fig. 2.1, Proposed Underground Layout of the DGR, in GVP R001 [32]</i>	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 2	Verification Activities	Response to Information Requests	Provides clarification on the scope and timing of geoscientific verification activities <i>Note: Further clarifications are included in response to IR-EIS-12-511 in OPG Response Letter dated Jan.30, 2014 [32]</i>	Response to IR-EIS-07-312 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843
Sec. 2.1	Shaft Sinking	Response to Information Requests	Provides clarification regarding controlled drill and blast techniques for shaft sinking. Furthermore provides information regarding excavation performance monitoring of shaft sinking	Response to IR-LPSC-03-57 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
			Provides additional information on the geotechnical investigation and monitoring planning <i>Note: Further clarifications are included in Sec. 3.2, Shaft Sinking, of GVP R001 and in response to IR-EIS-12-511 in OPG Response Letter dated Jan.30, 2014 [32]</i>	Response to IR-EIS-07-302 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843
Sec. 2.1.4.1	Activity 2 - Geophysics	Response to Information Requests	Provides clarification and justification of the limited geophysical testing planned in the vertical shaft to identify and evaluate the EDZ	Response to IR-EIS-06-266 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823

Geoscientific Verification Plan (NWMO DGR-TR-2011-38 R000)¹					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
			<i>Note: Further clarifications are included in Sec. 4.2.4.1, Geophysical Testing, of GVP R001 [32]</i>		
Sec. 2.1.4.3	Activity 4- Permeability Measurement	Response to Information Requests	Provides clarification of program for EDZ testing and measurement in the DGR shafts during the construction phase and prior to the emplacement of the shaft seals <i>Note: Further clarifications are included in Sec. 4.2.4.3, Permeability Measurement, of GVP R001 [32]</i>	Response to IR-EIS-06-267 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823
Sec. 2.2	Lateral Development	Response to Information Requests	Provides clarifications on reliability of site characterization methods during lateral development <i>Note: Further clarifications are included in Sec. 4.2.3, Geological Characterization, and Sec. 4.3.5.1, Fracture Infill Mineral Studies and Dating, of GVP R001 [32]</i>	Response to IR-EIS-02-37 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
			Provides additional information on the geotechnical investigation and monitoring planning <i>Note: Further clarifications are included in Sec. 3.3, Lateral Development, of GVP R001 and in response to IR-EIS-12-511 in OPG Response Letter dated Jan.30, 2014 [32]</i>	Response to IR-EIS-07-302 in OPG Response to IR Package #7 Letter dated Dec.20, 2012 [19]	843
Fig. 2.5	Isometric View of Underground DGR Level	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-6 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336

Geoscientific Verification Plan (NWMO DGR-TR-2011-38 R000)¹					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 2.6	DGR Layout Showing Location of Proposed Verification Activities	Design update	Updates configuration of underground services area <i>Note: This update is captured in Fig. 3.7, Plan View of Underground Repository Showing Location of Verification Activities, in GVP R001 [32]</i>	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 2.2.8	DGR Sealing Materials	Response to Information Requests	Provides clarification of shaft seal testing plans <i>Note: Additional information is provided in Sec. 4.2.6, Sealing Material Tests, and Sec. 4.3.6, DGR Sealing Material Performance Test, of GVP R001 [32]</i>	Response to IR-EIS-06-268 in OPG Response to IR Package #6 Letter dated Nov.29, 2012 [17]	823

Note:

- 1 The entire Geoscientific Verification Plan (GVP) was revised to expand on the initial information related to geoscientific activities, as well as to include the geotechnical verification activities in support of design and construction verification. The revised document incorporates also a number of clarifications previously provided by OPG in responses to various IRs, as identified in the table above. Revision 1 of the GVP was submitted with response to IR-EIS-12-511 in OPG Letter dated Jan.30, 2014 [32] (CEEA Registry Item 1792).

Preliminary Decommissioning Plan (NWMO DGR-TR-2011-39 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Fig. 3.5	DGR Base Case Layout	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 6-7 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Fig. 3.6	Underground Services Area	Design update	Updates configuration of underground services area	Item #1 in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Fig. 5.2	Shaft Services Area Showing the Extent of the Concrete Monolith	Design update	Updates configuration of underground services area	Item #1 (i.e., Fig. 13-1 in PSR) in OPG Design Updates Letter dated Feb.10, 2012 [1]	336
Sec. 5.4.3.1	Removal of Shaft Infrastructure	Response to Information Requests	Provides clarification on removal of shaft infrastructure	Response to IR-LPSC-03-58 in OPG Response to IR Package #3 Letter dated Jul.9, 2012 [5]	608
Sec. 5.4.7	Waste Rock Management Area	Response to Undertakings	Provides clarification on the rationale for the planned top soil cover of 150 mm on the waste rock pile at closure	Response to Undertaking TIS 9 from Jul.18 Technical Information Session #1 in OPG Letter dated Aug.15, 2012 [9]	692
Sec. 5.9	Licence to Abandon and Abandonment	Response to Information Requests	Provides clarification on abandonment	Response to IR-EIS-05-181 in OPG Response to IR Package #5 Letter dated Oct.24, 2012 [14]	776
			Provides clarification on abandonment	Response to IR-EIS-08-364 in OPG Response to IR Package #8 Letter dated Feb.14, 2013 [21]	886
Table 8.1	Hazardous Materials Arising from the Decommissioning	Response to Information Requests	Provides clarification on waste materials estimated to be generated on yearly basis	Response to IR-LPSC-01-46 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363

Preliminary Decommissioning Plan (NWMO DGR-TR-2011-39 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Table 8.2	Waste Materials Arising from Decommissioning	Response to Information Requests	Provides clarification on waste materials to be removed as part of decommissioning and further details on waste materials arising from decommissioning following construction	Response to IR-LPSC-01-46 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363
Appendix B	Decommissioning Following Construction	Response to Information Requests	Provides clarification on decommissioning activities associated with DGR decommissioning after construction	Response to IR-LPSC-01-47 in OPG Response to IR Package #1 Letter dated Mar.9, 2012 [3]	363

Deep Geologic Repository Project, Management System (00216-CHAR-0001 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Section 1.5.2	Safety Culture	Response to Information Requests	Provides additional information on OPG's oversight of human performance/ safety culture	Response to IR-LPSC-02-48 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
			Provides clarification on OPG's oversight related to safety culture	Response to IR-LPSC-02-50 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
Sec. 1.6	Information Management	Response to Information Requests	Provides clarification on maintenance of records	Response to IR-LPSC-02-52 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
Sec. 1.8.1	Design	Response to Information Requests	Provides clarifications on OPG's oversight activities on NWMO's management system	Response to IR-LPSC-02-49 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
				Response to IR-LPSC-02-54 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
Appendix B	Correlation of CSA N286-05 Requirements to OPG Management System for Oversight DGR Project	Response to Information Requests	Provides additional information on OPG's oversight of human performance/ safety culture	Response to IR-LPSC-02-48 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523

Design and Construction Phase Management System (OPG's L&ILW DGR) (DGR-PD-EN-0001 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 2	Project Management Approach	Response to Information Requests	Provides additional information on NWMO's human performance management	Response to IR-LPSC-02-48 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
Sec. 3	Project Organization During the Design and Construction Phase	Response to Information Requests	Provides additional information on NWMO's human performance management	Response to IR-LPSC-02-48 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
Sec. 4.1.2.3	Health and Safety Incident Reporting	Response to Information Requests	Provides clarification on requirements for incident investigations	Response to IR-LPSC-02-51 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
Sec. 4.1.3.3	Nonconformance and Corrective and Preventative Action, NWMO-PROC-QA-0001	Response to Information Requests	Provides clarification on requirements for incident investigations	Response to IR-LPSC-02-51 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
Sec. 4.2.4	DGR Project Document Management Control, DGR-PLAN-00121-1002	Response to Information Requests	Provides clarification on maintenance of records	Response to IR-LPSC-02-52 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523
Sec. 4.2.5.1	Procurement and Contracts Management Plan, DGR-PLAN-00800-1001	Response to Information Requests	Provides clarification on the content of the Procurement and Contracts Management Plan	Response to IR-LPSC-02-53 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523

Design and Construction Phase Management System (OPG's L&ILW DGR) (DGR-PD-EN-0001 R000)					
Section/Figure/Table in Document		Information Type	Scope of New Information	Information Source	CEAA Registry Item
Sec. 4.2.7.5	Construction Quality Assurance Plan, DGR-PLAN-01916-1001	Response to Information Requests	Provides details on the content of the Field Quality Inspection Manual	Response to IR-LPSC-02-53 in OPG Response to IR Package #2 Letter dated Jun.1, 2012 [4]	523