

Used Nuclear Fuel Inventory and Transportation Estimates

NWMO TR-2009-21

August 2009

U. Stahmer

Nuclear Waste Management Organization

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ABSTRACT

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Report No.: NWMO TR-2009-21
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Company: Nuclear Waste Management Organization
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Abstract

This report provides future fuel inventory and transportation estimates to serve as a framework for conceptual design and cost estimating studies and to develop the capability to review transportation options to a used-fuel long-term management facility. Fuel inventories for future scenarios of 3.6 million used nuclear fuel bundles (base case) and 7.2 million used nuclear fuel bundles (alternate case) are presented.

Assuming all road transport, approximately 18,600 shipments are required to transport 3.6 million fuel bundles to the long-term management facility over a 30 year transportation program and approximately 37,500 shipments are required to transport 7.2 million fuel bundles over a 60 year transportation program. This equates to approximately 630 shipments annually or 53 shipments per month.

The used nuclear fuel scenarios provided in this report have been constructed to provide a framework for conceptual design, cost estimating and operational planning only. These scenarios may differ from the plans of the reactor operators. Operation of the reactors, including decisions on refurbishment, would be subject to future decisions of the individual reactor operators.

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1. INTRODUCTION

Implementation of Adaptive Phased Management (APM), the approach chosen by the Government of Canada for the long-term management of used nuclear fuel, requires the transport of used nuclear fuel from its current interim storage locations at the reactor sites to a centralized facility.

This report provides a breakdown of estimated used nuclear fuel inventories for each interim storage facility by calendar year to the reactor end-of-life of Canada's nuclear program. Where applicable, fuel inventories are presented for wet and dry storage operations. Logistics for the transport of used nuclear fuel from interim storage to the centralized facility are proposed.

The intent of this breakdown is to provide a framework for conceptual design and costing studies and to develop the capability to review transportation options to a conceptual used-fuel long-term management facility. Fuel inventories for two future scenarios of 3.6 million used nuclear fuel bundles (base case) and 7.2 million used nuclear fuel bundles (alternate case) are presented.

2. ASSUMPTIONS

- 1. Fuel Description:** The reference fuel is assumed to be of standard CANDU fuel design (Garamszeghy, 2008) and 30 years old for placement in the repository. Non-standard CANDU fuel and non-CANDU fuels, which comprise less than 1% of the Canadian used nuclear fuel inventory, are not included in the analyses. The fuel used to power proposed nuclear installations is also assumed to be standard CANDU fuel.
- 2. Projected Fuel Inventories:** Two future fuel inventory scenarios are assumed: a base case scenario of 3.6 million bundles and an alternate scenario of 7.2 million bundles (Hung, 2008).
- 3. Existing Fuel Locations:** The used nuclear fuel is assumed to be located at the seven existing generating and interim storage sites shown in Figure 1.

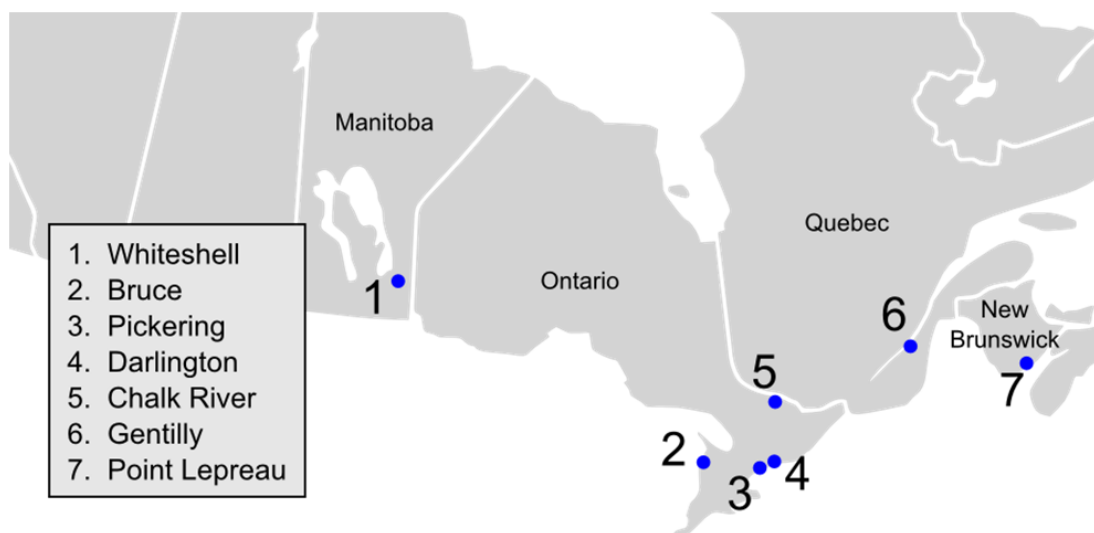


Figure 1: Used Nuclear Fuel Storage Sites

- **Site 1: Whiteshell** AECL fuel (reactor shut down, no new fuel being produced),
 - **Site 2: Bruce** Ontario Power Generation (OPG) fuel from Bruce A (1-4) and Bruce B (5-8) generating stations and Atomic Energy of Canada Limited (AECL) fuel from the Douglas Point reactor (reactor shut down, no new fuel being produced),
 - **Site 3: Pickering** OPG fuel,
 - **Site 4: Darlington** OPG fuel,
 - **Site 5: Chalk River** AECL fuel including Nuclear Power Demonstration (NPD) fuel,
 - **Site 6: Gentilly** AECL fuel from Gentilly 1 (reactor shut down, no new fuel being produced) and Hydro-Québec fuel from Gentilly 2, and
 - **Site 7: Point Lepreau** New Brunswick Power fuel.
4. **New Build Reactors:** For the 7.2 million bundle scenario, the new build reactors (A and B) are assumed to be located in Ontario.
 5. **Used Fuel Deep Geological Repository (UF-DGR) In-service Date:** The earliest in-service date for the Used Fuel DGR is 2035 (NWMO, 2004), by which time the UF-DGR and transportation program are assumed to be fully operational.
 6. **UF-DGR Operational Capacity:** The operational fuel placement capacity of the UF-DGR is assumed to be 120,000 bundles per year (NWMO, 2004). The target transport rate is assumed to match fuel placement capacity.
 7. **Transportation Program:** OPG owned fuel is assumed to be transported starting 2035. Transport of non-OPG owned fuel is assumed to commence in 2050 (NWMO, 2007). Fuel stored in wet bays is assumed to be transported ahead of fuel in dry storage, provided that the conditions in Assumption 1 are met.
 8. **Transportation Program Duration:** The transportation program for the 3.6 million bundle scenario is assumed to last 30 years (2035 to 2064) and 60 years (2035 to 2094) for the 7.2 million bundle scenario.
 9. **Transportation Packages:** Each transportation package is assumed to be able to transport 192 bundles of OPG fuel or 180 bundles of non-OPG fuel (Cogema, 2003a). The package is assumed to be readily transportable by road without the need for overweight permits.
 10. **Shipments:** Shipment data is presented as made by road mode only. This yields the highest number of shipments, but offers the greatest transport flexibility. Transport logistics studies that include rail and water based shipment estimates will be addressed in a future NWMO study.

3. USED NUCLEAR FUEL BUNDLE INVENTORIES AND TRANSPORTATION

The used nuclear fuel inventories and transportation schedules presented in this report are based on periodically updated nuclear fuel waste projections (Garamszeghy, 2008). Two future fuel bundle inventory scenarios are presented: a base case scenario of 3.6 million bundles; and an alternate scenario of 7.2 million bundles. Each scenario is described in greater detail in Sections 3.1 and 3.2 below.

The inventory estimates for the 3.6 and 7.2 million bundle scenarios are summarized in Table 1. The inventory is expressed in terms of number of CANDU used nuclear fuel bundles. The actual fuel bundle inventory as of December 31, 2008 for each site is provided in column 2 for reference. This inventory includes in-reactor fuel.

Fuel bundle inventory estimates used in the previous 2003 cost estimates (Cogema, 2003a and 2003b) are listed in columns 3 and 4 for comparison.

3.1 3.6 MILLION BUNDLE SCENARIO

The 3.6 million fuel bundle scenario was used as the reference case inventory for the 2003 long-term waste management cost estimates. This scenario is based on the assumptions that *“the Pickering, Bruce and Darlington reactors in Ontario will operate an average of 40 years, the Point Lepreau reactor in New Brunswick will operate 25 years, and the Gentilly reactor in Québec will operate 30 years. In this scenario, the existing reactors would be shut down after their respective 25, 30 and 40-year average lifetimes. ... The projected used fuel inventory was prepared in 2001 and estimated to be 3,557,451 bundles which were rounded up to 3.6 million bundles for conceptual design and cost estimating purposes”* (NWMO, 2005).

3.1.1 Fuel Bundle Inventory

The 2001 used fuel inventory estimates were updated to reflect actual fuel bundle production inventories current as of December 31, 2008. For cost estimating purposes, the total inventory estimates to reactor end-of-life were adjusted to match 2001 total inventory estimates of 3,557,451 bundles. These updated estimates are summarized in columns 5 through 7 of Table 1. Detailed inventory estimates by location and year are provided in Table A-1 of Appendix A and are summarized graphically in Figure 2.

3.1.2 Transportation Logistics

Based on the assumptions noted in Section 2, logistics to transport the used nuclear fuel bundles from the seven interim storage sites to the UF-DGR are proposed. Allowances for ramp-up to full transport and UF-DGR operational capacities are made. Transport volumes from any given site are kept as constant as possible to optimize operational and staffing requirements. Detailed transportation estimates by location and year are provided in Table A-2 of Appendix A and are summarized graphically in Figure 3.

Assuming all road transport, approximately 18,600 shipments are required to transport 3.6 million fuel bundles over a 30 year transportation program. This equates to approximately 630 shipments annually (allowing for production ramp-up) or 53 shipments per month.

3.2 7.2 MILLION BUNDLE SCENARIO

Since *Choosing a Way Forward* (NWMO, 2005) was published, a number of proposals for refurbishment of existing reactors and the construction of new reactors have been made. These proposals could significantly extend the life of the nuclear program in Canada. To address this issue, this report provides fuel inventory estimates for a 7.2 million bundle scenario.

3.2.1 Fuel Bundle Inventory

The fuel inventory for the 7.2 million bundle scenario is based on the assumption that all existing operating nuclear reactors are refurbished and further nuclear capacity is added.

Existing nuclear reactors are assumed to be refurbished with a set of new pressure tubes and other major components and operated for an additional 30 years (25 years effective full power). Refurbishment of all existing operating reactors results in an estimated total fuel inventory of approximately 5.5 million bundles (Garamszeghy, 2008).

Additional nuclear capacity is hypothetically assumed to be added in the form of two new 4 unit generating stations located in Ontario. The new nuclear capacity is assumed to begin generation between 2016 and 2018 and run until 2064. This operation would result in the production of approximately 1.7 million fuel bundles raising the total used nuclear fuel bundle inventory to approximately 7.2 million bundles.

These inventory estimates are summarized in columns 8 through 10 of Table 1. Detailed inventory estimates by location and year are provided in Table B-1 of Appendix B and are graphically summarized in Figure 4.

3.2.2 Transportation Logistics

Based on the assumptions noted in Section 2, logistics to transport the used nuclear fuel bundles from the seven interim storage sites to the Used Fuel DGR are proposed. Allowances for ramp-up to full transport and Used Fuel DGR operational capacities are made. Transport volumes from any given site are kept as constant as possible to optimize operational and staffing requirements. Detailed transportation estimates by location and year are provided in Table B-2 of Appendix B and are summarized graphically in Figure 5.

Assuming all road transport, approximately 37,500 shipments are required to transport 7.2 million fuel bundles over a 60 year transportation program. This equates to approximately 630 shipments annually (allowing for production ramp-up) or 53 shipments per month.

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Table 1: Used Nuclear Fuel Inventory Summary

| Bundle Location | Current Total Bundles (31/12/08)* | Cogema Study | | 3.6 Million Bundle Scenario | | | 7.2 Million Bundle Scenario | | |
|---|-----------------------------------|--------------------|------------------|-----------------------------|------------------|--------------|-----------------------------|------------------|--------------|
| | | wet/dry split | Total | wet/dry split | Total | % of total | wet/dry split | Total | % of total |
| Whiteshell Laboratories | 360 | all dry | 360 | all dry | 360 | <0.1 | all dry | 360 | <0.1 |
| Bruce 1-4 | 410,444 | 0 625,951 | 625,951 | 312,798 304,978 | 617,776 | 42.9 | 384,043 631,314 | 1,015,357 | 32.7 |
| Bruce 5-8 | 510,743 | 377,181 465,579 | 842,760 | 364,791 541,978 | 906,769 | | 594,598 730,242 | 1,324,840 | |
| Douglas Point | 22,256 | all dry | 22,256 | all dry | 22,256 | 0.6 | all dry | 22,256 | 0.3 |
| Pickering 1-4 | 618,974 | 188,934 218,554 | 407,488 | 282,578 49,663 | 332,241 | 24.1 | 199,007 201,841 | 400,848 | 17.3 |
| Pickering 5-8 | | 149,051 373,085 | 522,136 | 123,650 400,222 | 523,872 | | 310,925 524,170 | 835,095 | |
| Darlington 1-4 | 370,856 | 347,087 529,009 | 876,096 | 326,332 565,150 | 891,482 | 25.1 | 726,234 605,803 | 1,332,037 | 18.6 |
| Chalk River Laboratories (and NPD) | 4,886 | all dry | 4,853 | all dry | 4,886 | 0.1 | all dry | 4,886 | <0.1 |
| Gentilly 1 | 3,213 | all dry | 3,213 | all dry | 3,213 | 0.1 | all dry | 3,213 | <0.1 |
| Gentilly 2 | 112,741 | n/a | 132,838 | 33,838 99,000 | 132,838 | 3.7 | 38,600 233,400 | 272,000 | 3.8 |
| Point Lepreau | 121,758 | n/a | 119,500 | 40,758 81,000 | 121,758 | 3.4 | 40,800 244,200 | 285,000 | 4.0 |
| New Build A 1-4 | 0 | n/a n/a | n/a | n/a n/a | n/a | n/a | 325,967 481,771 | 807,738 | 11.3 |
| New Build B 1-4 | 0 | n/a n/a | n/a | n/a n/a | n/a | n/a | 335,133 516,180 | 851,313 | 11.9 |
| Total | 2,176,231 | | 3,557,451 | | 3,557,451 | 100.0 | | 7,154,943 | 100.0 |
| Total (rounded) | 2,200,000 | | 3,600,000 | | 3,600,000 | | | 7,200,000 | |

* includes in-reactor fuel

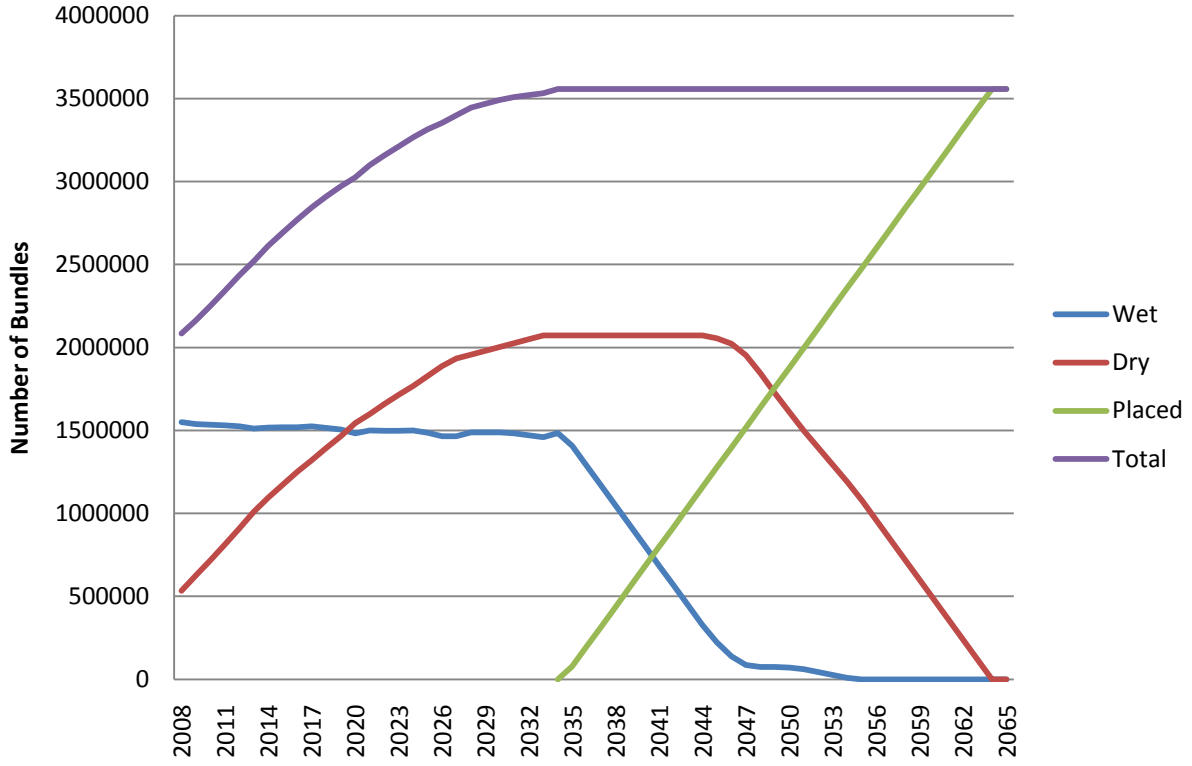


Figure 2: Fuel Bundle Inventory - 3.6 Million Bundles

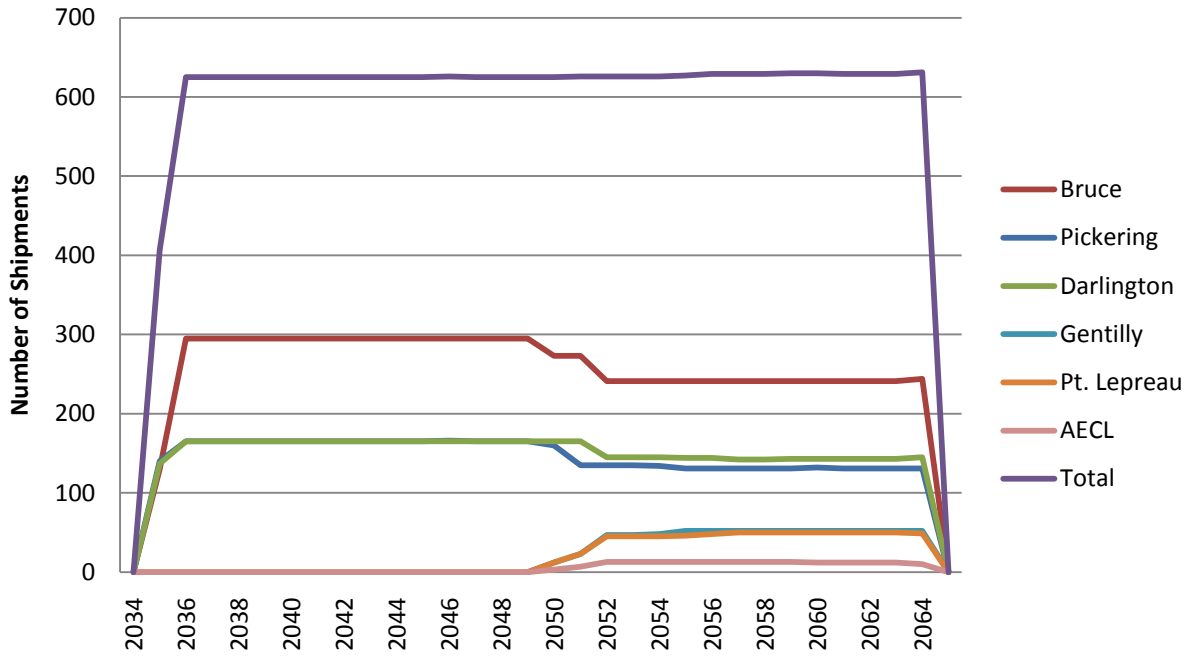


Figure 3: Annual Shipments - 3.6 Million Bundles (All Road Mode)

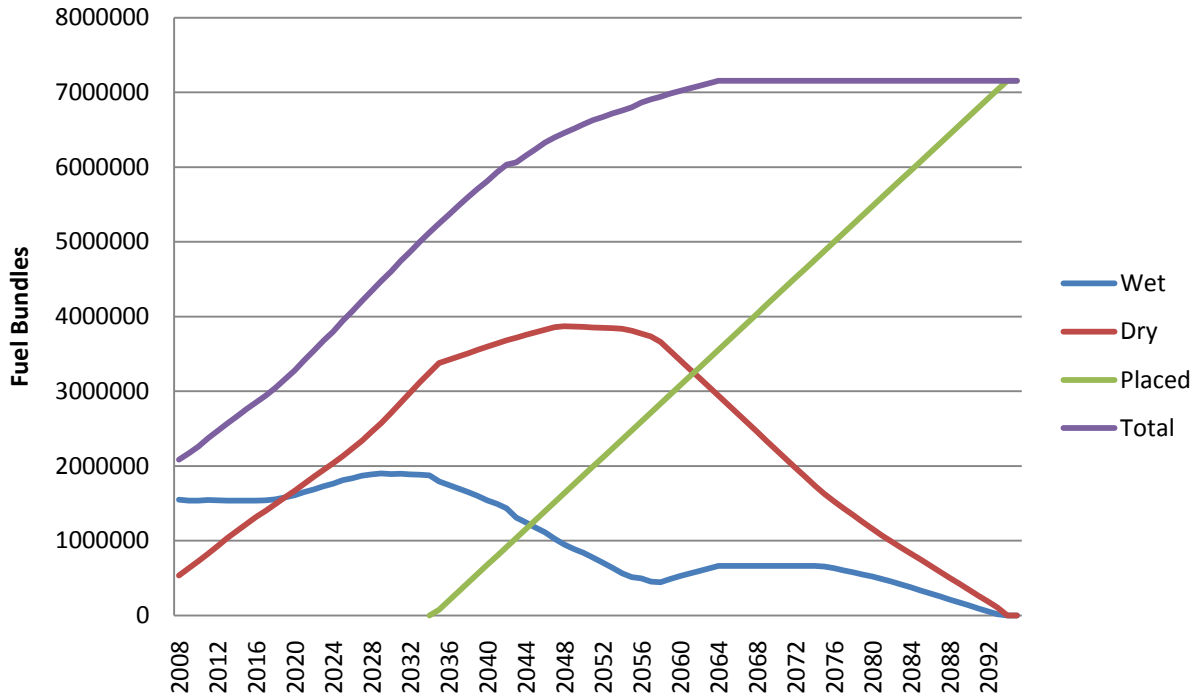


Figure 4: Fuel Bundle Inventory - 7.2 Million Bundles

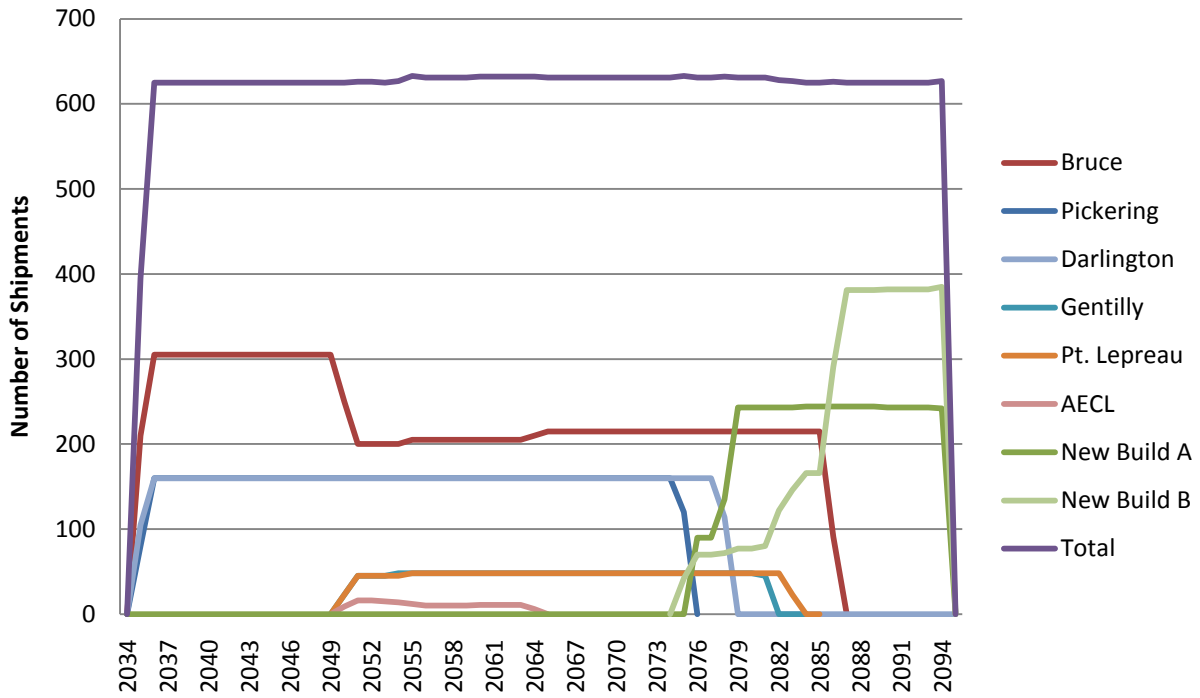


Figure 5: Annual Shipments - 7.2 Million Bundles (All Road Mode)

APPENDIX A: USED NUCLEAR FUEL BUNDLE INVENTORY BY LOCATION AND YEAR

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Table A-1 (continued): Used Nuclear Fuel Inventory by Location and Year – 3.6 Million Bundle Scenario

| Location | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Bruce 1-4 total | 617,776 | 617,776 | 617,776 | 617,776 | 617,776 | 617,776 | 617,776 | 617,776 | 617,776 | 617,776 | 600,658 | 573,778 | 546,898 | 520,018 | 493,138 | 466,258 | 439,378 |
| Bruce 1-4 dry | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 |
| Bruce 1-4 wet | 312,798 | 312,798 | 312,798 | 312,798 | 312,798 | 312,798 | 312,798 | 312,798 | 312,798 | 312,798 | 295,680 | 268,800 | 241,920 | 215,040 | 188,160 | 161,280 | 134,400 |
| Bruce 5-8 total | 865,506 | 877,273 | 883,156 | 906,769 | 906,769 | 906,769 | 906,769 | 906,769 | 906,769 | 906,769 | 899,098 | 869,338 | 839,578 | 809,818 | 780,058 | 750,298 | 720,538 |
| Bruce 5-8 dry | 494,912 | 518,445 | 541,978 | 541,978 | 541,978 | 541,978 | 541,978 | 541,978 | 541,978 | 541,978 | 541,978 | 541,978 | 541,978 | 541,978 | 541,978 | 541,978 | 541,978 |
| Bruce 5-8 wet | 370,594 | 358,828 | 341,178 | 364,791 | 364,791 | 364,791 | 364,791 | 364,791 | 364,791 | 364,791 | 357,120 | 327,360 | 297,600 | 267,840 | 238,080 | 208,320 | 178,560 |
| Pickering 1-4 total | 332,241 | 332,241 | 332,241 | 332,241 | 332,241 | 332,241 | 332,241 | 332,241 | 332,241 | 332,241 | 314,961 | 293,841 | 272,721 | 251,601 | 230,481 | 209,361 | 188,241 |
| Pickering 1-4 dry | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 |
| Pickering 1-4 wet | 282,578 | 282,578 | 282,578 | 282,578 | 282,578 | 282,578 | 282,578 | 282,578 | 282,578 | 282,578 | 265,298 | 244,178 | 223,058 | 201,938 | 180,818 | 159,698 | 138,578 |
| Pickering 5-8 total | 502,189 | 505,632 | 523,872 | 523,872 | 523,872 | 523,872 | 523,872 | 523,872 | 523,872 | 523,872 | 514,272 | 503,712 | 493,152 | 482,592 | 472,032 | 461,472 | 450,912 |
| Pickering 5-8 dry | 386,450 | 400,222 | 400,222 | 400,222 | 400,222 | 400,222 | 400,222 | 400,222 | 400,222 | 400,222 | 400,222 | 400,222 | 400,222 | 400,222 | 400,222 | 400,222 | 400,222 |
| Pickering 5-8 wet | 115,739 | 105,410 | 123,650 | 123,650 | 123,650 | 123,650 | 123,650 | 123,650 | 123,650 | 123,650 | 114,050 | 103,490 | 92,930 | 82,370 | 71,810 | 61,250 | 50,690 |
| Darlington 1-4 total | 711,660 | 734,602 | 757,544 | 780,486 | 803,428 | 826,370 | 843,576 | 855,047 | 866,518 | 891,482 | 865,246 | 833,566 | 801,886 | 770,206 | 738,526 | 706,846 | 675,166 |
| Darlington 1-4 dry | 381,110 | 404,052 | 426,994 | 449,936 | 472,878 | 495,820 | 518,762 | 541,704 | 565,150 | 565,150 | 565,150 | 565,150 | 565,150 | 565,150 | 565,150 | 565,150 | 565,150 |
| Darlington 1-4 wet | 330,550 | 330,550 | 330,550 | 330,550 | 330,550 | 330,550 | 324,815 | 313,344 | 301,368 | 326,332 | 300,096 | 268,416 | 236,736 | 205,056 | 173,376 | 141,696 | 110,016 |
| OPG total | 3,029,372 | 3,067,524 | 3,114,589 | 3,161,144 | 3,184,086 | 3,207,028 | 3,224,234 | 3,235,705 | 3,247,176 | 3,272,140 | 3,194,235 | 3,074,235 | 2,954,235 | 2,834,235 | 2,714,235 | 2,594,235 | 2,474,235 |
| dry | 1,617,113 | 1,677,360 | 1,723,835 | 1,746,777 | 1,769,719 | 1,792,661 | 1,815,603 | 1,838,545 | 1,861,991 | 1,861,991 | 1,861,991 | 1,861,991 | 1,861,991 | 1,861,991 | 1,861,991 | 1,861,991 | 1,861,991 |
| wet | 1,412,259 | 1,390,164 | 1,390,754 | 1,414,367 | 1,414,367 | 1,414,367 | 1,408,632 | 1,397,161 | 1,385,185 | 1,410,149 | 1,332,244 | 1,212,244 | 1,092,244 | 972,244 | 852,244 | 732,244 | 612,244 |
| AECL total | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 |
| Chalk River | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 |
| Douglas Point | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 |
| Gentilly 1 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 |
| Whiteshell | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 |
| Gentilly 2 total | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 |
| Gentilly 2 dry | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 |
| Gentilly 2 wet | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 |
| Pt. Lepreau total | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 |
| Pt. Lepreau dry | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 |
| Pt. Lepreau wet | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 |
| Total | 3,314,683 | 3,352,835 | 3,399,900 | 3,446,455 | 3,469,397 | 3,492,339 | 3,509,545 | 3,521,016 | 3,532,487 | 3,557,451 | 3,479,546 | 3,359,546 | 3,239,546 | 3,119,546 | 2,999,546 | 2,879,546 | 2,759,546 |
| dry | 1,827,828 | 1,888,075 | 1,934,550 | 1,957,492 | 1,980,434 | 2,003,376 | 2,026,318 | 2,049,260 | 2,072,706 | 2,072,706 | 2,072,706 | 2,072,706 | 2,072,706 | 2,072,706 | 2,072,706 | 2,072,706 | 2,072,706 |
| wet | 1,486,855 | 1,464,760 | 1,465,350 | 1,488,963 | 1,488,963 | 1,488,963 | 1,483,228 | 1,471,757 | 1,459,781 | 1,484,745 | 1,406,840 | 1,286,840 | 1,166,840 | 1,046,840 | 926,840 | 806,840 | 686,840 |
| UF-DGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77,905 | 197,905 | 317,905 | 437,905 | 557,905 | 677,905 | 797,905 |

Table A-1 (continued): Used Nuclear Fuel Inventory by Location and Year – 3.6 Million Bundle Scenario

| Location | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Bruce 1-4 total | 412,498 | 385,618 | 358,738 | 331,858 | 304,978 | 278,098 | 251,218 | 224,338 | 200,722 | 177,106 | 153,490 | 129,874 | 106,258 | 82,642 | 59,026 | 35,410 | 11,794 | 0 |
| Bruce 1-4 dry | 304,978 | 304,978 | 304,978 | 304,978 | 304,978 | 278,098 | 251,218 | 224,338 | 200,722 | 177,106 | 153,490 | 129,874 | 106,258 | 82,642 | 59,026 | 35,410 | 11,794 | 0 |
| Bruce 1-4 wet | 107,520 | 80,640 | 53,760 | 26,880 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bruce 5-8 total | 690,778 | 661,018 | 631,258 | 601,498 | 571,738 | 541,978 | 512,218 | 482,458 | 453,658 | 424,858 | 402,202 | 379,546 | 356,890 | 334,234 | 311,578 | 288,922 | 266,266 | 231,898 |
| Bruce 5-8 dry | 541,978 | 541,978 | 541,978 | 541,978 | 541,978 | 541,978 | 512,218 | 482,458 | 453,658 | 424,858 | 402,202 | 379,546 | 356,890 | 334,234 | 311,578 | 288,922 | 266,266 | 231,898 |
| Bruce 5-8 wet | 148,800 | 119,040 | 89,280 | 59,520 | 29,760 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 1-4 total | 167,121 | 146,001 | 124,881 | 103,761 | 82,641 | 61,521 | 40,447 | 21,247 | 3,007 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 1-4 dry | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 49,663 | 40,447 | 21,247 | 3,007 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 1-4 wet | 117,458 | 96,338 | 75,218 | 54,098 | 32,978 | 11,858 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 5-8 total | 440,352 | 429,792 | 419,232 | 408,672 | 398,110 | 387,550 | 376,990 | 364,510 | 352,030 | 329,182 | 303,262 | 277,342 | 251,614 | 226,462 | 201,310 | 176,158 | 151,006 | 125,854 |
| Pickering 5-8 dry | 400,222 | 400,222 | 400,222 | 400,222 | 398,110 | 387,550 | 376,990 | 364,510 | 352,030 | 329,182 | 303,262 | 277,342 | 251,614 | 226,462 | 201,310 | 176,158 | 151,006 | 125,854 |
| Pickering 5-8 wet | 40,130 | 29,570 | 19,010 | 8,450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Darlington 1-4 total | 643,486 | 611,806 | 580,126 | 548,544 | 516,864 | 485,184 | 453,504 | 421,824 | 390,144 | 358,464 | 330,624 | 302,784 | 274,944 | 247,296 | 219,648 | 192,384 | 165,120 | 137,664 |
| Darlington 1-4 dry | 565,150 | 565,150 | 565,150 | 548,544 | 516,864 | 485,184 | 453,504 | 421,824 | 390,144 | 358,464 | 330,624 | 302,784 | 274,944 | 247,296 | 219,648 | 192,384 | 165,120 | 137,664 |
| Darlington 1-4 wet | 78,336 | 46,656 | 14,976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OPG total | 2,354,235 | 2,234,235 | 2,114,235 | 1,994,333 | 1,874,331 | 1,754,331 | 1,634,377 | 1,514,377 | 1,399,561 | 1,289,610 | 1,189,578 | 1,089,546 | 989,706 | 890,634 | 791,562 | 692,874 | 594,186 | 495,416 |
| dry | 1,861,991 | 1,861,991 | 1,861,991 | 1,845,385 | 1,811,593 | 1,742,473 | 1,634,377 | 1,514,377 | 1,399,561 | 1,289,610 | 1,189,578 | 1,089,546 | 989,706 | 890,634 | 791,562 | 692,874 | 594,186 | 495,416 |
| wet | 492,244 | 372,244 | 252,244 | 148,948 | 62,738 | 11,858 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AECL total | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,175 | 28,915 | 26,575 | 24,235 | 21,895 | 19,555 | 17,215 | 14,875 | 12,535 | 10,195 |
| Chalk River | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 |
| Douglas Point | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 21,716 | 20,456 | 18,116 | 15,776 | 13,436 | 11,096 | 8,756 | 6,416 | 4,076 | 1,736 |
| Gentilly 1 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 |
| Whiteshell | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 |
| Gentilly 2 total | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 132,838 | 130,534 | 126,118 | 117,094 | 108,070 | 99,000 | 89,100 | 79,200 | 69,300 | 59,400 | 49,500 |
| Gentilly 2 dry | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 99,000 | 89,100 | 79,200 | 69,300 | 59,400 | 49,500 |
| Gentilly 2 wet | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 33,838 | 31,534 | 27,118 | 18,094 | 9,070 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pt. Lepreau total | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 121,758 | 119,454 | 115,038 | 106,398 | 97,758 | 89,118 | 80,460 | 71,820 | 62,820 | 53,820 | 44,820 |
| Pt. Lepreau dry | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 81,000 | 80,460 | 71,820 | 62,820 | 53,820 | 44,820 |
| Pt. Lepreau wet | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 38,454 | 34,038 | 25,398 | 16,758 | 8,118 | 0 | 0 | 0 | 0 | 0 |
| Total | 2,639,546 | 2,519,546 | 2,399,546 | 2,279,644 | 2,159,642 | 2,039,642 | 1,919,688 | 1,799,688 | 1,679,724 | 1,559,681 | 1,439,645 | 1,319,609 | 1,199,719 | 1,079,749 | 959,797 | 839,869 | 719,941 | 599,931 |
| dry | 2,072,706 | 2,072,706 | 2,072,706 | 2,056,100 | 2,022,308 | 1,953,188 | 1,845,092 | 1,725,092 | 1,609,736 | 1,498,525 | 1,396,153 | 1,293,781 | 1,191,601 | 1,079,749 | 959,797 | 839,869 | 719,941 | 599,931 |
| wet | 566,840 | 446,840 | 326,840 | 223,544 | 137,334 | 86,454 | 74,596 | 74,596 | 69,988 | 61,156 | 43,492 | 25,828 | 8,118 | 0 | 0 | 0 | 0 | 0 |
| UF-DGR | 917,905 | 1,037,905 | 1,157,905 | 1,277,807 | 1,397,809 | 1,517,809 | 1,637,763 | 1,757,763 | 1,877,727 | 1,997,770 | 2,117,806 | 2,237,842 | 2,357,732 | 2,477,702 | 2,597,654 | 2,717,582 | 2,837,510 | 2,957,520 |

Table A-1 (continued): Used Nuclear Fuel Inventory by Location and Year – 3.6 Million Bundle Scenario

| Location | 2060 | 2061 | 2062 | 2063 | 2064 |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|
| Bruce 1-4 total | 0 | 0 | 0 | 0 | 0 |
| Bruce 1-4 dry | 0 | 0 | 0 | 0 | 0 |
| Bruce 1-4 wet | 0 | 0 | 0 | 0 | 0 |
| Bruce 5-8 total | 185,626 | 139,354 | 93,082 | 46,810 | 0 |
| Bruce 5-8 dry | 185,626 | 139,354 | 93,082 | 46,810 | 0 |
| Bruce 5-8 wet | 0 | 0 | 0 | 0 | 0 |
| Pickering 1-4 total | 0 | 0 | 0 | 0 | 0 |
| Pickering 1-4 dry | 0 | 0 | 0 | 0 | 0 |
| Pickering 1-4 wet | 0 | 0 | 0 | 0 | 0 |
| Pickering 5-8 total | 100,510 | 75,358 | 50,206 | 25,054 | 0 |
| Pickering 5-8 dry | 100,510 | 75,358 | 50,206 | 25,054 | 0 |
| Pickering 5-8 wet | 0 | 0 | 0 | 0 | 0 |
| Darlington 1-4 total | 110,208 | 82,752 | 55,296 | 27,840 | 0 |
| Darlington 1-4 dry | 110,208 | 82,752 | 55,296 | 27,840 | 0 |
| Darlington 1-4 wet | 0 | 0 | 0 | 0 | 0 |
| OPG total | 396,344 | 297,464 | 198,584 | 99,704 | 0 |
| dry | 396,344 | 297,464 | 198,584 | 99,704 | 0 |
| wet | 0 | 0 | 0 | 0 | 0 |
| AECL total | 8,099 | 5,939 | 3,779 | 1,619 | 0 |
| Chalk River | 4,886 | 3,626 | 2,366 | 1,106 | 0 |
| Douglas Point | 0 | 0 | 0 | 0 | 0 |
| Gentilly 1 | 3,213 | 2,313 | 1,413 | 513 | 0 |
| Whiteshell | 0 | 0 | 0 | 0 | 0 |
| Gentilly 2 total | 39,600 | 29,700 | 19,800 | 9,900 | 0 |
| Gentilly 2 dry | 39,600 | 29,700 | 19,800 | 9,900 | 0 |
| Gentilly 2 wet | 0 | 0 | 0 | 0 | 0 |
| Pt. Lepreau total | 35,820 | 26,820 | 17,820 | 8,820 | 0 |
| Pt. Lepreau dry | 35,820 | 26,820 | 17,820 | 8,820 | 0 |
| Pt. Lepreau wet | 0 | 0 | 0 | 0 | 0 |
| Total | 479,863 | 359,923 | 239,983 | 120,043 | 0 |
| dry | 479,863 | 359,923 | 239,983 | 120,043 | 0 |
| wet | 0 | 0 | 0 | 0 | 0 |
| UF-DGR | 3,077,588 | 3,197,528 | 3,317,468 | 3,437,408 | 3,557,451 |

Table A-2 (continued): Used Nuclear Fuel Inventory by Location and Year – 7.2 Million Bundle Scenario

| Location | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Bruce 1-4 total | 772,398 | 794,904 | 817,410 | 839,916 | 862,422 | 884,928 | 907,434 | 929,940 | 952,446 | 974,952 | 966,045 | 948,498 | 925,325 | 908,797 | 879,997 | 851,197 | 822,397 |
| Bruce 1-4 dry | 417,507 | 440,013 | 462,519 | 485,025 | 507,531 | 530,037 | 552,543 | 575,049 | 597,555 | 620,061 | 631,314 | 631,314 | 631,314 | 631,314 | 631,314 | 631,314 | 631,314 |
| Bruce 1-4 wet | 354,891 | 354,891 | 354,891 | 354,891 | 354,891 | 354,891 | 354,891 | 354,891 | 354,891 | 354,891 | 334,731 | 317,184 | 294,011 | 277,483 | 248,683 | 219,883 | 191,083 |
| Bruce 5-8 total | 865,864 | 889,397 | 912,930 | 936,464 | 959,997 | 983,530 | 1,007,063 | 1,030,596 | 1,054,130 | 1,077,663 | 1,081,036 | 1,074,809 | 1,068,582 | 1,062,355 | 1,056,128 | 1,049,901 | 1,043,674 |
| Bruce 5-8 dry | 494,912 | 518,445 | 541,978 | 565,511 | 589,044 | 612,577 | 636,110 | 659,643 | 683,176 | 706,709 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 |
| Bruce 5-8 wet | 370,952 | 370,952 | 370,952 | 370,953 | 370,953 | 370,953 | 370,953 | 370,953 | 370,954 | 370,954 | 350,794 | 344,567 | 338,340 | 332,113 | 325,886 | 319,659 | 313,432 |
| Pickering 1-4 total | 385,766 | 388,625 | 391,484 | 400,848 | 400,848 | 400,848 | 400,848 | 400,848 | 400,848 | 400,848 | 393,168 | 377,808 | 362,448 | 347,088 | 331,728 | 316,368 | 301,008 |
| Pickering 1-4 dry | 106,835 | 116,336 | 125,837 | 135,338 | 144,839 | 154,340 | 163,841 | 173,341 | 182,841 | 192,341 | 201,841 | 201,841 | 201,841 | 201,841 | 201,841 | 201,841 | 201,841 |
| Pickering 1-4 wet | 278,931 | 272,289 | 265,647 | 265,510 | 256,009 | 246,508 | 237,007 | 227,507 | 218,007 | 208,507 | 191,327 | 175,967 | 160,607 | 145,247 | 129,887 | 114,527 | 99,167 |
| Pickering 5-8 total | 513,871 | 527,643 | 541,415 | 555,187 | 568,959 | 582,731 | 596,503 | 610,275 | 624,047 | 637,819 | 643,911 | 642,323 | 640,735 | 639,147 | 637,559 | 635,971 | 634,383 |
| Pickering 5-8 dry | 386,450 | 400,222 | 413,994 | 427,766 | 441,538 | 455,310 | 469,082 | 482,854 | 496,626 | 510,398 | 524,170 | 524,170 | 524,170 | 524,170 | 524,170 | 524,170 | 524,170 |
| Pickering 5-8 wet | 127,421 | 127,421 | 127,421 | 127,421 | 127,421 | 127,421 | 127,421 | 127,421 | 127,421 | 127,421 | 119,741 | 118,153 | 116,565 | 114,977 | 113,389 | 111,801 | 110,213 |
| Darlington 1-4 total | 708,563 | 731,505 | 754,447 | 777,389 | 800,331 | 823,273 | 846,215 | 869,157 | 892,604 | 909,810 | 913,097 | 899,583 | 892,310 | 878,796 | 871,523 | 858,009 | 850,231 |
| Darlington 1-4 dry | 381,110 | 404,052 | 426,994 | 449,936 | 472,878 | 495,820 | 518,762 | 541,704 | 565,151 | 582,357 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 |
| Darlington 1-4 wet | 327,453 | 327,453 | 327,453 | 327,453 | 327,453 | 327,453 | 327,453 | 327,453 | 327,453 | 327,453 | 307,294 | 293,780 | 286,507 | 272,993 | 265,720 | 252,206 | 244,428 |
| OPG total | 3,246,462 | 3,332,074 | 3,417,686 | 3,509,804 | 3,592,557 | 3,675,310 | 3,758,063 | 3,840,816 | 3,924,075 | 4,001,092 | 3,997,257 | 3,943,021 | 3,889,400 | 3,836,183 | 3,776,935 | 3,711,446 | 3,651,693 |
| dry | 1,786,814 | 1,879,068 | 1,971,322 | 2,063,576 | 2,155,830 | 2,248,084 | 2,340,338 | 2,432,591 | 2,525,349 | 2,611,866 | 2,693,370 | 2,693,370 | 2,693,370 | 2,693,370 | 2,693,370 | 2,693,370 | 2,693,370 |
| wet | 1,459,648 | 1,453,006 | 1,446,364 | 1,446,228 | 1,436,727 | 1,427,226 | 1,417,725 | 1,408,225 | 1,398,726 | 1,389,226 | 1,303,887 | 1,249,651 | 1,196,030 | 1,142,813 | 1,083,565 | 1,018,076 | 958,323 |
| AECL total | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 |
| Chalk River | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 |
| Douglas Point | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 |
| Gentilly 1 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 |
| Whiteshell | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 |
| Gentilly 2 total | 185,840 | 190,640 | 195,440 | 200,240 | 205,040 | 209,840 | 214,640 | 219,440 | 224,240 | 229,040 | 233,840 | 238,640 | 243,440 | 248,240 | 253,040 | 257,840 | 262,640 |
| Gentilly 2 dry | 151,800 | 156,600 | 161,400 | 166,200 | 171,000 | 175,800 | 180,600 | 185,400 | 190,200 | 195,000 | 199,800 | 204,600 | 209,400 | 214,200 | 219,000 | 223,800 | 228,600 |
| Gentilly 2 wet | 34,040 | 34,040 | 34,040 | 34,040 | 34,040 | 34,040 | 34,040 | 34,040 | 34,040 | 34,040 | 34,040 | 34,040 | 34,040 | 34,040 | 34,040 | 34,040 | 34,040 |
| Pt. Lepreau total | 203,358 | 208,158 | 212,958 | 217,758 | 222,558 | 227,358 | 232,158 | 236,958 | 241,758 | 246,558 | 251,358 | 256,158 | 260,958 | 265,758 | 270,558 | 275,358 | 280,158 |
| Pt. Lepreau dry | 162,600 | 167,400 | 172,200 | 177,000 | 181,800 | 186,600 | 191,400 | 196,200 | 201,000 | 205,800 | 210,600 | 215,400 | 220,200 | 225,000 | 229,800 | 234,600 | 239,400 |
| Pt. Lepreau wet | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 | 40,758 |
| New Build A 1-4 total | 118,746 | 135,952 | 159,399 | 176,605 | 193,811 | 211,017 | 234,464 | 251,670 | 268,876 | 286,082 | 309,529 | 326,735 | 350,182 | 367,388 | 390,835 | 408,042 | 431,489 |
| New Build A 1-4 dry | 0 | 0 | 0 | 0 | 0 | 17,206 | 34,412 | 51,618 | 68,824 | 86,030 | 103,236 | 120,442 | 137,648 | 154,854 | 172,060 | 189,266 | 206,472 |
| New Build A 1-4 wet | 118,746 | 135,952 | 159,399 | 176,605 | 193,811 | 193,811 | 200,052 | 200,052 | 200,052 | 200,052 | 206,293 | 206,293 | 212,534 | 212,534 | 218,775 | 218,776 | 225,017 |
| New Build B 1-4 total | 156,081 | 173,287 | 190,493 | 207,699 | 231,146 | 248,352 | 271,799 | 289,005 | 312,452 | 329,658 | 346,864 | 370,311 | 387,517 | 410,964 | 428,170 | 451,617 | 475,064 |
| New Build B 1-4 dry | 0 | 0 | 0 | 17,206 | 34,412 | 51,618 | 68,824 | 86,030 | 103,236 | 120,442 | 137,648 | 154,854 | 172,060 | 189,266 | 206,472 | 223,678 | 240,884 |
| New Build B 1-4 wet | 156,081 | 173,287 | 190,493 | 190,493 | 196,734 | 196,734 | 202,975 | 202,975 | 209,216 | 209,216 | 209,216 | 215,457 | 215,457 | 221,698 | 221,698 | 227,939 | 234,180 |
| Total | 3,941,202 | 4,070,826 | 4,206,691 | 4,342,821 | 4,475,827 | 4,602,592 | 4,741,839 | 4,868,604 | 5,002,116 | 5,123,145 | 5,169,563 | 5,165,580 | 5,162,212 | 5,159,248 | 5,150,253 | 5,135,018 | 5,131,759 |
| dry | 2,131,929 | 2,233,783 | 2,335,637 | 2,454,697 | 2,573,757 | 2,710,023 | 2,846,289 | 2,982,554 | 3,119,324 | 3,249,853 | 3,375,369 | 3,419,381 | 3,463,393 | 3,507,405 | 3,551,417 | 3,595,429 | 3,639,441 |
| wet | 1,809,273 | 1,837,043 | 1,871,054 | 1,888,124 | 1,902,070 | 1,892,569 | 1,895,550 | 1,886,050 | 1,882,792 | 1,873,292 | 1,794,194 | 1,746,199 | 1,698,819 | 1,651,843 | 1,598,836 | 1,539,589 | 1,492,318 |
| UF-DGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75840 | 195840 | 315840 | 435840 | 555840 | 675840 | 795840 |

Table A-2 (continued): Used Nuclear Fuel Inventory by Location and Year – 7.2 Million Bundle Scenario

| Location | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| Bruce 1-4 total | 793,597 | 764,797 | 735,997 | 707,197 | 678,397 | 649,597 | 620,946 | 595,986 | 573,906 | 551,826 | 529,746 | 507,666 | 485,586 | 462,546 | 439,506 | 416,466 | 393,426 | 370,386 | |
| Bruce 1-4 dry | 631,314 | 631,314 | 631,314 | 631,314 | 631,314 | 631,314 | 620,946 | 595,986 | 573,906 | 551,826 | 529,746 | 507,666 | 485,586 | 462,546 | 439,506 | 416,466 | 393,426 | 370,386 | |
| Bruce 1-4 wet | 162,283 | 133,483 | 104,683 | 75,883 | 47,083 | 18,283 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Bruce 5-8 total | 1,037,447 | 1,025,337 | 1,007,344 | 983,467 | 973,480 | 943,720 | 913,960 | 880,360 | 854,440 | 838,120 | 821,800 | 805,480 | 789,160 | 772,840 | 756,520 | 740,200 | 723,906 | 711,426 | |
| Bruce 5-8 dry | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 730,242 | 727,746 | 711,426 |
| Bruce 5-8 wet | 307,205 | 295,095 | 277,102 | 253,225 | 243,238 | 213,478 | 183,718 | 150,118 | 124,198 | 107,878 | 91,558 | 75,238 | 58,918 | 42,598 | 26,278 | 9,958 | -3,840 | 0 | |
| Pickering 1-4 total | 285,648 | 201,841 | 201,841 | 201,841 | 201,841 | 201,841 | 193,585 | 178,225 | 162,865 | 147,505 | 132,145 | 116,785 | 101,425 | 86,065 | 70,705 | 55,345 | 39,985 | 24,625 | |
| Pickering 1-4 dry | 201,841 | 201,841 | 201,841 | 201,841 | 201,841 | 201,841 | 193,585 | 178,225 | 162,865 | 147,505 | 132,145 | 116,785 | 101,425 | 86,065 | 70,705 | 55,345 | 39,985 | 24,625 | |
| Pickering 1-4 wet | 83,807 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Pickering 5-8 total | 632,795 | 631,207 | 629,619 | 628,031 | 623,000 | 614,526 | 606,052 | 594,135 | 597,015 | 581,655 | 566,295 | 550,935 | 535,575 | 520,330 | 504,970 | 489,610 | 474,250 | 458,890 | |
| Pickering 5-8 dry | 524,170 | 524,170 | 524,170 | 524,170 | 524,170 | 524,170 | 524,170 | 524,170 | 524,170 | 524,170 | 524,170 | 524,170 | 524,170 | 520,330 | 504,970 | 489,610 | 474,250 | 458,890 | |
| Pickering 5-8 wet | 108,625 | 107,037 | 105,449 | 103,861 | 98,830 | 90,356 | 81,882 | 69,965 | 72,845 | 57,485 | 42,125 | 26,765 | 11,405 | 0 | 0 | 0 | 0 | 0 | |
| Darlington 1-4 total | 842,453 | 834,675 | 826,897 | 819,119 | 811,341 | 803,563 | 795,785 | 788,007 | 774,494 | 760,981 | 741,731 | 722,481 | 697,497 | 672,513 | 666,757 | 636,037 | 605,419 | 574,699 | |
| Darlington 1-4 dry | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,803 | 605,419 | 574,699 |
| Darlington 1-4 wet | 236,650 | 228,872 | 221,094 | 213,316 | 205,538 | 197,760 | 189,982 | 182,204 | 168,691 | 155,178 | 135,928 | 116,678 | 91,694 | 66,710 | 60,954 | 30,234 | 0 | 0 | |
| OPG total | 3,591,940 | 3,457,857 | 3,401,698 | 3,339,655 | 3,288,059 | 3,213,247 | 3,130,328 | 3,036,713 | 2,962,720 | 2,880,087 | 2,791,717 | 2,703,347 | 2,609,243 | 2,514,294 | 2,438,458 | 2,337,658 | 2,236,986 | 2,140,026 | |
| dry | 2,693,370 | 2,693,370 | 2,693,370 | 2,693,370 | 2,693,370 | 2,693,370 | 2,674,746 | 2,634,426 | 2,596,986 | 2,559,546 | 2,522,106 | 2,484,666 | 2,447,226 | 2,404,986 | 2,351,226 | 2,297,466 | 2,240,826 | 2,140,026 | |
| wet | 898,570 | 764,487 | 708,328 | 646,285 | 594,689 | 519,877 | 455,582 | 402,287 | 365,734 | 320,541 | 269,611 | 218,681 | 162,017 | 109,308 | 87,232 | 40,192 | -3,840 | 0 | |
| AECL total | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 30,715 | 29,095 | 26,215 | 23,335 | 20,635 | 18,115 | 15,955 | 14,155 | 12,355 | 10,555 | 8,755 | |
| Chalk River | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | 4,886 | |
| Douglas Point | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 22,256 | 20,636 | 17,936 | 15,236 | 12,536 | 10,016 | 7,856 | 6,056 | 4,256 | 2,456 | 656 | |
| Gentilly 1 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | 3,213 | |
| Whiteshell | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Gentilly 2 total | 267,440 | 272,000 | 272,000 | 272,000 | 272,000 | 272,000 | 272,000 | 272,000 | 267,584 | 258,944 | 250,304 | 241,664 | 232,680 | 224,040 | 215,400 | 206,760 | 198,120 | 189,480 | |
| Gentilly 2 dry | 233,400 | 233,400 | 233,400 | 233,400 | 233,400 | 233,400 | 233,400 | 233,400 | 233,400 | 233,400 | 233,400 | 233,400 | 232,680 | 224,040 | 215,400 | 206,760 | 198,120 | 189,480 | |
| Gentilly 2 wet | 34,040 | 38,600 | 38,600 | 38,600 | 38,600 | 38,600 | 38,600 | 38,600 | 34,184 | 25,544 | 16,904 | 8,264 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Pt. Lepreau total | 285,000 | 285,000 | 285,000 | 285,000 | 285,000 | 285,000 | 285,000 | 285,000 | 280,584 | 271,944 | 263,304 | 254,664 | 246,024 | 237,360 | 228,720 | 220,080 | 211,440 | 202,800 | |
| Pt. Lepreau dry | 244,200 | 244,200 | 244,200 | 244,200 | 244,200 | 244,200 | 244,200 | 244,200 | 244,200 | 244,200 | 244,200 | 244,200 | 244,200 | 237,360 | 228,720 | 220,080 | 211,440 | 202,800 | |
| Pt. Lepreau wet | 40,800 | 40,800 | 40,800 | 40,800 | 40,800 | 40,800 | 40,800 | 40,800 | 36,384 | 27,744 | 19,104 | 10,464 | 1,824 | 0 | 0 | 0 | 0 | 0 | |
| New Build A 1-4 total | 448,695 | 472,142 | 489,348 | 504,513 | 516,143 | 526,748 | 538,378 | 550,008 | 560,613 | 577,819 | 595,025 | 612,231 | 629,437 | 646,643 | 663,849 | 687,296 | 704,502 | 721,708 | |
| New Build A 1-4 dry | 223,678 | 240,884 | 258,090 | 275,296 | 292,502 | 309,708 | 326,914 | 344,120 | 361,326 | 378,532 | 395,741 | 412,947 | 430,153 | 447,359 | 464,565 | 481,771 | 481,771 | 481,771 | |
| New Build A 1-4 wet | 225,017 | 231,258 | 231,258 | 229,217 | 223,641 | 217,040 | 211,464 | 205,888 | 199,287 | 199,287 | 199,284 | 199,284 | 199,284 | 199,284 | 199,284 | 205,525 | 222,731 | 239,937 | |
| New Build B 1-4 total | 492,270 | 507,435 | 519,065 | 529,670 | 541,300 | 552,930 | 563,535 | 580,741 | 597,947 | 615,153 | 632,359 | 649,565 | 666,771 | 683,977 | 707,424 | 724,630 | 741,836 | 765,283 | |
| New Build B 1-4 dry | 258,090 | 275,296 | 292,502 | 309,708 | 326,914 | 344,120 | 361,326 | 378,532 | 395,738 | 412,944 | 430,150 | 447,356 | 464,562 | 481,768 | 498,974 | 516,180 | 516,180 | 516,180 | |
| New Build B 1-4 wet | 234,180 | 232,139 | 226,563 | 219,962 | 214,386 | 208,810 | 202,209 | 202,209 | 202,209 | 202,209 | 202,209 | 202,209 | 202,209 | 202,209 | 208,450 | 208,450 | 225,656 | 249,103 | |
| Total | 5,116,060 | 5,025,149 | 4,997,826 | 4,961,553 | 4,933,217 | 4,880,640 | 4,819,956 | 4,755,177 | 4,698,543 | 4,630,162 | 4,556,044 | 4,482,106 | 4,402,270 | 4,322,269 | 4,268,006 | 4,188,779 | 4,103,439 | 4,028,052 | |
| dry | 3,683,453 | 3,717,865 | 3,752,277 | 3,786,689 | 3,821,101 | 3,855,513 | 3,871,301 | 3,865,393 | 3,860,745 | 3,854,837 | 3,848,932 | 3,843,204 | 3,836,936 | 3,811,468 | 3,773,040 | 3,734,612 | 3,658,892 | 3,539,012 | |
| wet | 1,432,607 | 1,307,284 | 1,245,549 | 1,174,864 | 1,112,116 | 1,025,127 | 948,655 | 889,784 | 837,798 | 775,325 | 707,112 | 638,902 | 565,334 | 510,801 | 494,966 | 454,167 | 444,547 | 489,040 | |
| UF-DGR | 915840 | 1035840 | 1155840 | 1275840 | 1395840 | 1515840 | 1635594 | 1755594 | 1875486 | 1995486 | 2115486 | 2235306 | 2355290 | 2475439 | 2595319 | 2715199 | 2834951 | 2954831 | |

Table A-2 (continued): Used Nuclear Fuel Inventory by Location and Year – 7.2 Million Bundle Scenario

| Location | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Bruce 1-4 total | 347,346 | 324,306 | 301,266 | 278,226 | 254,226 | 229,266 | 204,306 | 179,346 | 154,386 | 129,426 | 104,466 | 79,506 | 54,546 | 29,586 | 4,626 | 0 | 0 | 0 |
| Bruce 1-4 dry | 347,346 | 324,306 | 301,266 | 278,226 | 254,226 | 229,266 | 204,306 | 179,346 | 154,386 | 129,426 | 104,466 | 79,506 | 54,546 | 29,586 | 4,626 | 0 | 0 | 0 |
| Bruce 1-4 wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bruce 5-8 total | 695,106 | 678,786 | 662,466 | 646,146 | 629,826 | 613,506 | 597,186 | 580,866 | 564,546 | 548,226 | 531,906 | 515,586 | 499,266 | 482,946 | 466,626 | 430,146 | 388,866 | 347,586 |
| Bruce 5-8 dry | 695,106 | 678,786 | 662,466 | 646,146 | 629,826 | 613,506 | 597,186 | 580,866 | 564,546 | 548,226 | 531,906 | 515,586 | 499,266 | 482,946 | 466,626 | 430,146 | 388,866 | 347,586 |
| Bruce 5-8 wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 1-4 total | 9,265 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 1-4 dry | 9,265 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 1-4 wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 5-8 total | 443,530 | 422,218 | 391,498 | 360,778 | 330,058 | 299,338 | 268,618 | 237,898 | 207,178 | 176,458 | 145,738 | 115,018 | 84,298 | 53,578 | 22,858 | 0 | 0 | 0 |
| Pickering 5-8 dry | 443,530 | 422,218 | 391,498 | 360,778 | 330,058 | 299,338 | 268,618 | 237,898 | 207,178 | 176,458 | 145,738 | 115,018 | 84,298 | 53,578 | 22,858 | 0 | 0 | 0 |
| Pickering 5-8 wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Darlington 1-4 total | 543,979 | 513,259 | 482,539 | 451,819 | 421,099 | 390,379 | 359,659 | 328,939 | 298,219 | 267,499 | 236,779 | 206,059 | 175,339 | 144,619 | 113,899 | 83,179 | 52,459 | 21,739 |
| Darlington 1-4 dry | 543,979 | 513,259 | 482,539 | 451,819 | 421,099 | 390,379 | 359,659 | 328,939 | 298,219 | 267,499 | 236,779 | 206,059 | 175,339 | 144,619 | 113,899 | 83,179 | 52,459 | 21,739 |
| Darlington 1-4 wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OPG total | 2,039,226 | 1,938,569 | 1,837,769 | 1,736,969 | 1,635,209 | 1,532,489 | 1,429,769 | 1,327,049 | 1,224,329 | 1,121,609 | 1,018,889 | 916,169 | 813,449 | 710,729 | 608,009 | 513,325 | 441,325 | 369,325 |
| dry | 2,039,226 | 1,938,569 | 1,837,769 | 1,736,969 | 1,635,209 | 1,532,489 | 1,429,769 | 1,327,049 | 1,224,329 | 1,121,609 | 1,018,889 | 916,169 | 813,449 | 710,729 | 608,009 | 513,325 | 441,325 | 369,325 |
| wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AECL total | 6,839 | 4,859 | 2,879 | 899 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chalk River | 4,346 | 3,086 | 1,826 | 566 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Douglas Point | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gentilly 1 | 2,493 | 1,773 | 1,053 | 333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Whiteshell | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gentilly 2 total | 180,840 | 172,200 | 163,560 | 154,920 | 146,280 | 137,640 | 129,000 | 120,360 | 111,720 | 103,080 | 94,440 | 85,800 | 77,160 | 68,520 | 59,880 | 51,240 | 42,600 | 33,960 |
| Gentilly 2 dry | 180,840 | 172,200 | 163,560 | 154,920 | 146,280 | 137,640 | 129,000 | 120,360 | 111,720 | 103,080 | 94,440 | 85,800 | 77,160 | 68,520 | 59,880 | 51,240 | 42,600 | 33,960 |
| Gentilly 2 wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pt. Lepreau total | 194,160 | 185,520 | 176,880 | 168,240 | 159,600 | 150,960 | 142,320 | 133,680 | 125,040 | 116,400 | 107,760 | 99,120 | 90,480 | 81,840 | 73,200 | 64,560 | 55,920 | 47,280 |
| Pt. Lepreau dry | 194,160 | 185,520 | 176,880 | 168,240 | 159,600 | 150,960 | 142,320 | 133,680 | 125,040 | 116,400 | 107,760 | 99,120 | 90,480 | 81,840 | 73,200 | 64,560 | 55,920 | 47,280 |
| Pt. Lepreau wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Build A 1-4 total | 738,914 | 756,120 | 773,326 | 790,532 | 807,738 | 807,738 | 807,738 | 807,738 | 807,738 | 807,738 | 807,738 | 807,738 | 807,738 | 807,738 | 807,738 | 807,738 | 790,458 | 773,178 |
| New Build A 1-4 dry | 481,771 | 481,771 | 481,771 | 481,771 | 481,771 | 481,771 | 481,771 | 481,771 | 481,771 | 481,771 | 481,771 | 481,771 | 481,771 | 481,771 | 481,771 | 481,771 | 472,555 | 468,715 |
| New Build A 1-4 wet | 257,143 | 274,349 | 291,555 | 308,761 | 325,967 | 325,967 | 325,967 | 325,967 | 325,967 | 325,967 | 325,967 | 325,967 | 325,967 | 325,967 | 325,967 | 325,967 | 317,903 | 304,463 |
| New Build B 1-4 total | 782,489 | 799,695 | 816,901 | 834,107 | 851,313 | 851,313 | 851,313 | 851,313 | 851,313 | 851,313 | 851,313 | 851,313 | 851,313 | 851,313 | 851,313 | 843,249 | 829,809 | 816,369 |
| New Build B 1-4 dry | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 | 516,180 |
| New Build B 1-4 wet | 266,309 | 283,515 | 300,721 | 317,927 | 335,133 | 335,133 | 335,133 | 335,133 | 335,133 | 335,133 | 335,133 | 335,133 | 335,133 | 335,133 | 335,133 | 327,069 | 313,629 | 300,189 |
| Total | 3,942,468 | 3,856,963 | 3,771,315 | 3,685,667 | 3,600,140 | 3,480,140 | 3,360,140 | 3,240,140 | 3,120,140 | 3,000,140 | 2,880,140 | 2,760,140 | 2,640,140 | 2,520,140 | 2,400,140 | 2,280,112 | 2,160,112 | 2,040,112 |
| dry | 3,419,016 | 3,299,099 | 3,179,039 | 3,058,979 | 2,939,040 | 2,819,040 | 2,699,040 | 2,579,040 | 2,459,040 | 2,339,040 | 2,219,040 | 2,099,040 | 1,979,040 | 1,859,040 | 1,739,040 | 1,627,076 | 1,528,580 | 1,435,460 |
| wet | 523,452 | 557,864 | 592,276 | 626,688 | 661,100 | 661,100 | 661,100 | 661,100 | 661,100 | 661,100 | 661,100 | 661,100 | 661,100 | 661,100 | 661,100 | 653,036 | 631,532 | 604,652 |
| UF-DGR | 3074827 | 3194744 | 3314804 | 3434864 | 3554803 | 3674803 | 3794803 | 3914803 | 4034803 | 4154803 | 4274803 | 4394803 | 4514803 | 4634803 | 4754803 | 4874831 | 4994831 | 5114831 |

Table A-2 (continued): Used Nuclear Fuel Inventory by Location and Year – 7.2 Million Bundle Scenario

| Location | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Bruce 1-4 total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bruce 1-4 dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bruce 1-4 wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bruce 5-8 total | 306,306 | 265,026 | 223,746 | 182,466 | 141,186 | 99,906 | 58,626 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bruce 5-8 dry | 306,306 | 265,026 | 223,746 | 182,466 | 141,186 | 99,906 | 58,626 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bruce 5-8 wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 1-4 total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 1-4 dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 1-4 wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 5-8 total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 5-8 dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickering 5-8 wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Darlington 1-4 total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Darlington 1-4 dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Darlington 1-4 wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OPG total | 306,306 | 265,026 | 223,746 | 182,466 | 141,186 | 99,906 | 58,626 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| dry | 306,306 | 265,026 | 223,746 | 182,466 | 141,186 | 99,906 | 58,626 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AECL total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chalk River | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Douglas Point | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gentilly 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Whiteshell | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gentilly 2 total | 25,320 | 16,680 | 8,040 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gentilly 2 dry | 25,320 | 16,680 | 8,040 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gentilly 2 wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pt. Lepreau total | 38,640 | 30,000 | 21,360 | 12,720 | 4,080 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pt. Lepreau dry | 38,640 | 30,000 | 21,360 | 12,720 | 4,080 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pt. Lepreau wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Build A 1-4 total | 747,258 | 700,602 | 653,946 | 607,290 | 560,634 | 513,978 | 467,130 | 420,282 | 373,434 | 326,586 | 279,738 | 232,890 | 186,234 | 139,578 | 92,922 | 46,266 | 0 |
| New Build A 1-4 dry | 456,235 | 423,403 | 391,531 | 359,659 | 328,363 | 301,675 | 274,795 | 247,915 | 221,035 | 194,155 | 167,275 | 140,395 | 113,707 | 87,019 | 60,331 | 33,643 | 0 |
| New Build A 1-4 wet | 291,023 | 277,199 | 262,415 | 247,631 | 232,271 | 212,303 | 192,335 | 172,367 | 152,399 | 132,431 | 112,463 | 92,495 | 72,527 | 52,559 | 32,591 | 12,623 | 0 |
| New Build B 1-4 total | 802,545 | 787,761 | 772,977 | 757,617 | 734,193 | 706,161 | 674,289 | 642,417 | 586,545 | 513,393 | 440,241 | 367,089 | 293,745 | 220,401 | 147,057 | 73,713 | 0 |
| New Build B 1-4 dry | 516,180 | 516,180 | 516,180 | 516,180 | 512,724 | 504,660 | 492,756 | 480,852 | 444,948 | 391,764 | 338,580 | 285,396 | 232,020 | 178,644 | 125,268 | 71,892 | 0 |
| New Build B 1-4 wet | 286,365 | 271,581 | 256,797 | 241,437 | 221,469 | 201,501 | 181,533 | 161,565 | 141,597 | 121,629 | 101,661 | 81,693 | 61,725 | 41,757 | 21,789 | 1,821 | 0 |
| Total | 1,920,069 | 1,800,069 | 1,680,069 | 1,560,093 | 1,440,093 | 1,320,045 | 1,200,045 | 1,062,699 | 959,979 | 839,979 | 719,979 | 599,979 | 479,979 | 359,979 | 239,979 | 119,979 | 0 |
| dry | 1,342,681 | 1,251,289 | 1,160,857 | 1,071,025 | 986,353 | 906,241 | 826,177 | 728,767 | 665,983 | 585,919 | 505,855 | 425,791 | 345,727 | 265,663 | 185,599 | 105,535 | 0 |
| wet | 577,388 | 548,780 | 519,212 | 489,068 | 453,740 | 413,804 | 373,868 | 333,932 | 293,996 | 254,060 | 214,124 | 174,188 | 134,252 | 94,316 | 54,380 | 14,444 | 0 |
| UF-DGR | 5234874 | 5354874 | 5474874 | 5594850 | 5714850 | 5834898 | 5954898 | 6074898 | 6194964 | 6314964 | 6434964 | 6554964 | 6674964 | 6794964 | 6914964 | 7034964 | 7154943 |

APPENDIX B: USED NUCLEAR FUEL TRANSPORT BY LOCATION AND YEAR

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| B.2 7.2 MILLION BUNDLE SCENARIO | 25 |

B.1 3.6 MILLION BUNDLE SCENARIO

Table B-1: Used Nuclear Fuel Transport by Location and Year – 3.6 Million Bundle Scenario

| Year | Bruce A | | Bruce B | | Bruce Shipments | Pickering A | | Pickering B | | Pickering Shipments | Darlington | | Darlington Shipments | Total OPG Bundles | Total OPG Shipments |
|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|---------------|----------------|----------------|---------------------|----------------|----------------|----------------------|-------------------|---------------------|
| | Wet | Dry | Wet | Dry | | Wet | Dry | Wet | Dry | | Wet | Dry | | | |
| 2034 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2035 | 17,118 | 0 | 7,671 | 0 | 130 | 17,280 | 0 | 9,600 | 0 | 140 | 26,236 | 0 | 137 | 77,905 | 407 |
| 2036 | 26,880 | 0 | 29,760 | 0 | 295 | 21,120 | 0 | 10,560 | 0 | 165 | 31,680 | 0 | 165 | 120,000 | 625 |
| 2037 | 26,880 | 0 | 29,760 | 0 | 295 | 21,120 | 0 | 10,560 | 0 | 165 | 31,680 | 0 | 165 | 120,000 | 625 |
| 2038 | 26,880 | 0 | 29,760 | 0 | 295 | 21,120 | 0 | 10,560 | 0 | 165 | 31,680 | 0 | 165 | 120,000 | 625 |
| 2039 | 26,880 | 0 | 29,760 | 0 | 295 | 21,120 | 0 | 10,560 | 0 | 165 | 31,680 | 0 | 165 | 120,000 | 625 |
| 2040 | 26,880 | 0 | 29,760 | 0 | 295 | 21,120 | 0 | 10,560 | 0 | 165 | 31,680 | 0 | 165 | 120,000 | 625 |
| 2041 | 26,880 | 0 | 29,760 | 0 | 295 | 21,120 | 0 | 10,560 | 0 | 165 | 31,680 | 0 | 165 | 120,000 | 625 |
| 2042 | 26,880 | 0 | 29,760 | 0 | 295 | 21,120 | 0 | 10,560 | 0 | 165 | 31,680 | 0 | 165 | 120,000 | 625 |
| 2043 | 26,880 | 0 | 29,760 | 0 | 295 | 21,120 | 0 | 10,560 | 0 | 165 | 31,680 | 0 | 165 | 120,000 | 625 |
| 2044 | 26,880 | 0 | 29,760 | 0 | 295 | 21,120 | 0 | 10,560 | 0 | 165 | 31,680 | 0 | 165 | 120,000 | 625 |
| 2045 | 26,880 | 0 | 29,760 | 0 | 295 | 21,120 | 0 | 10,560 | 0 | 165 | 14,976 | 16,606 | 165 | 119,902 | 625 |
| 2046 | 26,880 | 0 | 29,760 | 0 | 295 | 21,120 | 0 | 8,450 | 2,112 | 166 | 0 | 31,680 | 165 | 120,002 | 626 |
| 2047 | 0 | 26,880 | 29,760 | 0 | 295 | 21,120 | 0 | 0 | 10,560 | 165 | 0 | 31,680 | 165 | 120,000 | 625 |
| 2048 | 0 | 26,880 | 0 | 29,760 | 295 | 11,858 | 9,216 | 0 | 10,560 | 165 | 0 | 31,680 | 165 | 119,954 | 625 |
| 2049 | 0 | 26,880 | 0 | 29,760 | 295 | 0 | 19,200 | 0 | 12,480 | 165 | 0 | 31,680 | 165 | 120,000 | 625 |
| 2050 | 0 | 23,616 | 0 | 28,800 | 273 | 0 | 18,240 | 0 | 12,480 | 160 | 0 | 31,680 | 165 | 114,816 | 598 |
| 2051 | 0 | 23,616 | 0 | 28,800 | 273 | 0 | 3,007 | 0 | 22,848 | 135 | 0 | 31,680 | 165 | 109,951 | 573 |
| 2052 | 0 | 23,616 | 0 | 22,656 | 241 | 0 | 0 | 0 | 25,920 | 135 | 0 | 27,840 | 145 | 100,032 | 521 |
| 2053 | 0 | 23,616 | 0 | 22,656 | 241 | 0 | 0 | 0 | 25,920 | 135 | 0 | 27,840 | 145 | 100,032 | 521 |
| 2054 | 0 | 23,616 | 0 | 22,656 | 241 | 0 | 0 | 0 | 25,728 | 134 | 0 | 27,840 | 145 | 99,840 | 520 |
| 2055 | 0 | 23,616 | 0 | 22,656 | 241 | 0 | 0 | 0 | 25,152 | 131 | 0 | 27,648 | 144 | 99,072 | 516 |
| 2056 | 0 | 23,616 | 0 | 22,656 | 241 | 0 | 0 | 0 | 25,152 | 131 | 0 | 27,648 | 144 | 99,072 | 516 |
| 2057 | 0 | 23,616 | 0 | 22,656 | 241 | 0 | 0 | 0 | 25,152 | 131 | 0 | 27,264 | 142 | 98,688 | 514 |
| 2058 | 0 | 23,616 | 0 | 22,656 | 241 | 0 | 0 | 0 | 25,152 | 131 | 0 | 27,264 | 142 | 98,688 | 514 |
| 2059 | 0 | 11,794 | 0 | 34,368 | 241 | 0 | 0 | 0 | 25,152 | 131 | 0 | 27,456 | 143 | 98,770 | 515 |
| 2060 | 0 | 0 | 0 | 46,272 | 241 | 0 | 0 | 0 | 25,344 | 132 | 0 | 27,456 | 143 | 99,072 | 516 |
| 2061 | 0 | 0 | 0 | 46,272 | 241 | 0 | 0 | 0 | 25,152 | 131 | 0 | 27,456 | 143 | 98,880 | 515 |
| 2062 | 0 | 0 | 0 | 46,272 | 241 | 0 | 0 | 0 | 25,152 | 131 | 0 | 27,456 | 143 | 98,880 | 515 |
| 2063 | 0 | 0 | 0 | 46,272 | 241 | 0 | 0 | 0 | 25,152 | 131 | 0 | 27,456 | 143 | 98,880 | 515 |
| 2064 | 0 | 0 | 0 | 46,810 | 244 | 0 | 0 | 0 | 25,054 | 131 | 0 | 27,840 | 145 | 99,704 | 520 |
| 2065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals | 312,798 | 304,978 | 364,791 | 541,978 | 7,942 | 282,578 | 49,663 | 123,650 | 400,222 | 4,461 | 326,332 | 565,150 | 4,645 | 3,272,140 | 17,048 |
| Wet+Dry | 617,776 | | 906,769 | | | 332,241 | | 523,872 | | | 891,482 | | | | |

Table B-1 (continued): Used Nuclear Fuel Transport by Location and Year – 3.6 Million Bundle Scenario

| Year | Gentilly 2 | | | Pt. Lepreau | | | Whiteshell (AECL) | Douglas Pt. (AECL) | Gentilly 1 (AECL) | Chalk River (AECL) | Total AECL Shipments | Total Non-OPG Bundles | Total From Wet Bays | | Total From Dry Storage | | Cumulative Total | Total Shipped | Total Shipments | |
|---------|------------|--------|-----------|-------------|--------|-----------|-------------------|--------------------|-------------------|--------------------|----------------------|-----------------------|---------------------|------------|------------------------|------------|------------------|---------------|-----------------|-----|
| | Wet | Dry | Shipments | Wet | Dry | Shipments | Dry | Dry | Dry | Dry | | | Bundles | Cumulative | Bundles | Cumulative | | | | |
| 2034 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2035 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77,905 | 77,905 | 0 | 0 | 77,905 | 77,905 | 407 |
| 2036 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 197,905 | 0 | 0 | 197,905 | 120,000 | 625 |
| 2037 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 317,905 | 0 | 0 | 317,905 | 120,000 | 625 |
| 2038 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 437,905 | 0 | 0 | 437,905 | 120,000 | 625 |
| 2039 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 557,905 | 0 | 0 | 557,905 | 120,000 | 625 |
| 2040 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 677,905 | 0 | 0 | 677,905 | 120,000 | 625 |
| 2041 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 797,905 | 0 | 0 | 797,905 | 120,000 | 625 |
| 2042 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 917,905 | 0 | 0 | 917,905 | 120,000 | 625 |
| 2043 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 1,037,905 | 0 | 0 | 1,037,905 | 120,000 | 625 |
| 2044 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 1,157,905 | 0 | 0 | 1,157,905 | 120,000 | 625 |
| 2045 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103,296 | 1,261,201 | 16,606 | 16,606 | 1,277,807 | 119,902 | 625 |
| 2046 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 86,210 | 1,347,411 | 33,792 | 50,398 | 1,397,809 | 120,002 | 626 |
| 2047 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50,880 | 1,398,291 | 69,120 | 119,518 | 1,517,809 | 120,000 | 625 |
| 2048 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11,858 | 1,410,149 | 108,096 | 227,614 | 1,637,763 | 119,954 | 625 |
| 2049 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,410,149 | 120,000 | 347,614 | 1,757,763 | 120,000 | 625 |
| 2050 | 2,304 | 0 | 12 | 2,304 | 0 | 12 | 0 | 540 | 0 | 0 | 3 | 5,148 | 4,608 | 1,414,757 | 115,356 | 462,970 | 1,877,727 | 119,964 | 625 | |
| 2051 | 4,416 | 0 | 23 | 4,416 | 0 | 23 | 0 | 1,260 | 0 | 0 | 7 | 10,092 | 8,832 | 1,423,589 | 111,211 | 574,181 | 1,997,770 | 120,043 | 626 | |
| 2052 | 9,024 | 0 | 47 | 8,640 | 0 | 45 | 0 | 2,340 | 0 | 0 | 13 | 20,004 | 17,664 | 1,441,253 | 102,372 | 676,553 | 2,117,806 | 120,036 | 626 | |
| 2053 | 9,024 | 0 | 47 | 8,640 | 0 | 45 | 0 | 2,340 | 0 | 0 | 13 | 20,004 | 17,664 | 1,458,917 | 102,372 | 778,925 | 2,237,842 | 120,036 | 626 | |
| 2054 | 9,070 | 0 | 48 | 8,640 | 0 | 45 | 0 | 2,340 | 0 | 0 | 13 | 20,050 | 17,710 | 1,476,627 | 102,180 | 881,105 | 2,357,732 | 119,890 | 626 | |
| 2055 | 0 | 9,900 | 52 | 8,118 | 540 | 46 | 0 | 2,340 | 0 | 0 | 13 | 20,898 | 8,118 | 1,484,745 | 111,852 | 992,957 | 2,477,702 | 119,970 | 627 | |
| 2056 | 0 | 9,900 | 52 | 0 | 8,640 | 48 | 0 | 2,340 | 0 | 0 | 13 | 20,880 | 0 | 1,484,745 | 119,952 | 1,112,909 | 2,597,654 | 119,952 | 629 | |
| 2057 | 0 | 9,900 | 52 | 0 | 9,000 | 50 | 0 | 2,340 | 0 | 0 | 13 | 21,240 | 0 | 1,484,745 | 119,928 | 1,232,837 | 2,717,582 | 119,928 | 629 | |
| 2058 | 0 | 9,900 | 52 | 0 | 9,000 | 50 | 0 | 2,340 | 0 | 0 | 13 | 21,240 | 0 | 1,484,745 | 119,928 | 1,352,765 | 2,837,510 | 119,928 | 629 | |
| 2059 | 0 | 9,900 | 52 | 0 | 9,000 | 50 | 0 | 2,340 | 0 | 0 | 13 | 21,240 | 0 | 1,484,745 | 120,010 | 1,472,775 | 2,957,520 | 120,010 | 630 | |
| 2060 | 0 | 9,900 | 52 | 0 | 9,000 | 50 | 360 | 1,736 | 0 | 0 | 12 | 20,996 | 0 | 1,484,745 | 120,068 | 1,592,843 | 3,077,588 | 120,068 | 630 | |
| 2061 | 0 | 9,900 | 52 | 0 | 9,000 | 50 | 0 | 0 | 900 | 1260 | 12 | 21,060 | 0 | 1,484,745 | 119,940 | 1,712,783 | 3,197,528 | 119,940 | 629 | |
| 2062 | 0 | 9,900 | 52 | 0 | 9,000 | 50 | 0 | 0 | 900 | 1260 | 12 | 21,060 | 0 | 1,484,745 | 119,940 | 1,832,723 | 3,317,468 | 119,940 | 629 | |
| 2063 | 0 | 9,900 | 52 | 0 | 9,000 | 50 | 0 | 0 | 900 | 1260 | 12 | 21,060 | 0 | 1,484,745 | 119,940 | 1,952,663 | 3,437,408 | 119,940 | 629 | |
| 2064 | 0 | 9,900 | 52 | 0 | 8,820 | 49 | 0 | 0 | 513 | 1106 | 10 | 20,339 | 0 | 1,484,745 | 120,043 | 2,072,706 | 3,557,451 | 120,043 | 631 | |
| 2065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,484,745 | 0 | 2,072,706 | 3,557,451 | 0 | 0 | |
| Totals | 33,838 | 99,000 | 697 | 40,758 | 81,000 | 663 | 360 | 22,256 | 3,213 | 4,886 | 172 | 285,311 | 1,484,745 | | 2,072,706 | | 3,557,451 | 3,557,451 | 18,580 | |
| Wet+Dry | 132,838 | | | 121,758 | | | | | | 4,886 | | | | | | | Average | 118,582 | 619 | |

B.2 7.2 MILLION BUNDLE SCENARIO

Table B-2: Used Nuclear Fuel Transport by Location and Year – 7.2 Million Bundle Scenario

| Year | Bruce A | | Bruce B | | Bruce Shipments | Pickering A | | Pickering B | | Pickering Shipments | Darlington | | Darlington Shipments | OPG Bundles Shipped | Total OPG Shipments | New Build A | | New Build A Shipments |
|------|---------|--------|---------|--------|-----------------|-------------|--------|-------------|--------|---------------------|------------|--------|----------------------|---------------------|---------------------|-------------|-----|-----------------------|
| | Wet | Dry | Wet | Dry | | Wet | Dry | Wet | Dry | | Wet | Dry | | | | Wet | Dry | |
| 2034 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2035 | 20,160 | 0 | 20,160 | 0 | 210 | 7,680 | 0 | 7,680 | 0 | 80 | 20,160 | 0 | 105 | 75,840 | 395 | 0 | 0 | 0 |
| 2036 | 28,800 | 0 | 29,760 | 0 | 305 | 15,360 | 0 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 120,000 | 625 | 0 | 0 | 0 |
| 2037 | 28,800 | 0 | 29,760 | 0 | 305 | 15,360 | 0 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 120,000 | 625 | 0 | 0 | 0 |
| 2038 | 28,800 | 0 | 29,760 | 0 | 305 | 15,360 | 0 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 120,000 | 625 | 0 | 0 | 0 |
| 2039 | 28,800 | 0 | 29,760 | 0 | 305 | 15,360 | 0 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 120,000 | 625 | 0 | 0 | 0 |
| 2040 | 28,800 | 0 | 29,760 | 0 | 305 | 15,360 | 0 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 120,000 | 625 | 0 | 0 | 0 |
| 2041 | 28,800 | 0 | 29,760 | 0 | 305 | 15,360 | 0 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 120,000 | 625 | 0 | 0 | 0 |
| 2042 | 28,800 | 0 | 29,760 | 0 | 305 | 15,360 | 0 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 120,000 | 625 | 0 | 0 | 0 |
| 2043 | 28,800 | 0 | 29,760 | 0 | 305 | 15,360 | 0 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 120,000 | 625 | 0 | 0 | 0 |
| 2044 | 28,800 | 0 | 29,760 | 0 | 305 | 15,360 | 0 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 120,000 | 625 | 0 | 0 | 0 |
| 2045 | 28,800 | 0 | 29,760 | 0 | 305 | 15,360 | 0 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 120,000 | 625 | 0 | 0 | 0 |
| 2046 | 28,800 | 0 | 29,760 | 0 | 305 | 15,360 | 0 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 120,000 | 625 | 0 | 0 | 0 |
| 2047 | 28,800 | 0 | 29,760 | 0 | 305 | 15,360 | 0 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 120,000 | 625 | 0 | 0 | 0 |
| 2048 | 18,283 | 10,368 | 29,760 | 0 | 305 | 7,007 | 8,256 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 119,754 | 625 | 0 | 0 | 0 |
| 2049 | 0 | 24,960 | 33,600 | 0 | 305 | 0 | 15,360 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 120,000 | 625 | 0 | 0 | 0 |
| 2050 | 0 | 22,080 | 25,920 | 0 | 250 | 0 | 15,360 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 109,440 | 570 | 0 | 0 | 0 |
| 2051 | 0 | 22,080 | 16,320 | 0 | 200 | 0 | 15,360 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 99,840 | 520 | 0 | 0 | 0 |
| 2052 | 0 | 22,080 | 16,320 | 0 | 200 | 0 | 15,360 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 99,840 | 520 | 0 | 0 | 0 |
| 2053 | 0 | 22,080 | 16,320 | 0 | 200 | 0 | 15,360 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 99,840 | 520 | 0 | 0 | 0 |
| 2054 | 0 | 22,080 | 16,320 | 0 | 200 | 0 | 15,360 | 15,360 | 0 | 160 | 30,720 | 0 | 160 | 99,840 | 520 | 0 | 0 | 0 |
| 2055 | 0 | 23,040 | 16,320 | 0 | 205 | 0 | 15,360 | 11,405 | 3,840 | 160 | 30,720 | 0 | 160 | 100,685 | 525 | 0 | 0 | 0 |
| 2056 | 0 | 23,040 | 16,320 | 0 | 205 | 0 | 15,360 | 0 | 15,360 | 160 | 30,720 | 0 | 160 | 100,800 | 525 | 0 | 0 | 0 |
| 2057 | 0 | 23,040 | 16,320 | 0 | 205 | 0 | 15,360 | 0 | 15,360 | 160 | 30,720 | 0 | 160 | 100,800 | 525 | 0 | 0 | 0 |
| 2058 | 0 | 23,040 | 13,798 | 2,496 | 205 | 0 | 15,360 | 0 | 15,360 | 160 | 30,234 | 384 | 160 | 100,672 | 525 | 0 | 0 | 0 |
| 2059 | 0 | 23,040 | 0 | 16,320 | 205 | 0 | 15,360 | 0 | 15,360 | 160 | 0 | 30,720 | 161 | 100,800 | 525 | 0 | 0 | 0 |
| 2060 | 0 | 23,040 | 0 | 16,320 | 205 | 0 | 15,360 | 0 | 15,360 | 160 | 0 | 30,720 | 160 | 100,800 | 525 | 0 | 0 | 0 |
| 2061 | 0 | 23,040 | 0 | 16,320 | 205 | 0 | 9,265 | 0 | 21,312 | 160 | 0 | 30,720 | 160 | 100,657 | 525 | 0 | 0 | 0 |
| 2062 | 0 | 23,040 | 0 | 16,320 | 205 | 0 | 0 | 0 | 30,720 | 160 | 0 | 30,720 | 160 | 100,800 | 525 | 0 | 0 | 0 |
| 2063 | 0 | 23,040 | 0 | 16,320 | 205 | 0 | 0 | 0 | 30,720 | 160 | 0 | 30,720 | 160 | 100,800 | 525 | 0 | 0 | 0 |
| 2064 | 0 | 24,000 | 0 | 16,320 | 210 | 0 | 0 | 0 | 30,720 | 160 | 0 | 30,720 | 160 | 101,760 | 530 | 0 | 0 | 0 |

Table B-2 (continued): Used Nuclear Fuel Transport by Location and Year – 7.2 Million Bundle Scenario

| Year | Bruce A | | Bruce B | | Bruce Shipments | Pickering A | | Pickering B | | Pickering Shipments | Darlington | | Darlington Shipments | OPG Bundles Shipped | Total OPG Shipments | New Build A | | New Build A Shipments |
|---------|-----------|---------|-----------|---------|-----------------|-------------|---------|-------------|---------|---------------------|------------|---------|----------------------|---------------------|---------------------|-------------|---------|-----------------------|
| | Wet | Dry | Wet | Dry | | Wet | Dry | Wet | Dry | | Wet | Dry | | | | Wet | Dry | |
| 2065 | 0 | 24,960 | 0 | 16,320 | 215 | 0 | 0 | 0 | 30,720 | 160 | 0 | 30,720 | 160 | 102,720 | 535 | 0 | 0 | 0 |
| 2066 | 0 | 24,960 | 0 | 16,320 | 215 | 0 | 0 | 0 | 30,720 | 160 | 0 | 30,720 | 160 | 102,720 | 535 | 0 | 0 | 0 |
| 2067 | 0 | 24,960 | 0 | 16,320 | 215 | 0 | 0 | 0 | 30,720 | 160 | 0 | 30,720 | 160 | 102,720 | 535 | 0 | 0 | 0 |
| 2068 | 0 | 24,960 | 0 | 16,320 | 215 | 0 | 0 | 0 | 30,720 | 160 | 0 | 30,720 | 160 | 102,720 | 535 | 0 | 0 | 0 |
| 2069 | 0 | 24,960 | 0 | 16,320 | 215 | 0 | 0 | 0 | 30,720 | 160 | 0 | 30,720 | 160 | 102,720 | 535 | 0 | 0 | 0 |
| 2070 | 0 | 24,960 | 0 | 16,320 | 215 | 0 | 0 | 0 | 30,720 | 160 | 0 | 30,720 | 160 | 102,720 | 535 | 0 | 0 | 0 |
| 2071 | 0 | 24,960 | 0 | 16,320 | 215 | 0 | 0 | 0 | 30,720 | 160 | 0 | 30,720 | 160 | 102,720 | 535 | 0 | 0 | 0 |
| 2072 | 0 | 24,960 | 0 | 16,320 | 215 | 0 | 0 | 0 | 30,720 | 160 | 0 | 30,720 | 160 | 102,720 | 535 | 0 | 0 | 0 |
| 2073 | 0 | 24,960 | 0 | 16,320 | 215 | 0 | 0 | 0 | 30,720 | 160 | 0 | 30,720 | 160 | 102,720 | 535 | 0 | 0 | 0 |
| 2074 | 0 | 24,960 | 0 | 16,320 | 215 | 0 | 0 | 0 | 30,720 | 160 | 0 | 30,720 | 160 | 102,720 | 535 | 0 | 0 | 0 |
| 2075 | 0 | 4,626 | 0 | 36,480 | 215 | 0 | 0 | 0 | 22,858 | 120 | 0 | 30,720 | 160 | 94,684 | 495 | 0 | 0 | 0 |
| 2076 | 0 | 0 | 0 | 41,280 | 215 | 0 | 0 | 0 | 0 | 0 | 0 | 30,720 | 160 | 72,000 | 375 | 8,064 | 9,216 | 90 |
| 2077 | 0 | 0 | 0 | 41,280 | 215 | 0 | 0 | 0 | 0 | 0 | 0 | 30,720 | 160 | 72,000 | 375 | 13,440 | 3,840 | 90 |
| 2078 | 0 | 0 | 0 | 41,280 | 215 | 0 | 0 | 0 | 0 | 0 | 0 | 21,739 | 114 | 63,019 | 329 | 13,440 | 12,480 | 135 |
| 2079 | 0 | 0 | 0 | 41,280 | 215 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41,280 | 215 | 13,824 | 32,832 | 243 |
| 2080 | 0 | 0 | 0 | 41,280 | 215 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41,280 | 215 | 14,784 | 31,872 | 243 |
| 2081 | 0 | 0 | 0 | 41,280 | 215 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41,280 | 215 | 14,784 | 31,872 | 243 |
| 2082 | 0 | 0 | 0 | 41,280 | 215 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41,280 | 215 | 15,360 | 31,296 | 243 |
| 2083 | 0 | 0 | 0 | 41,280 | 215 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41,280 | 215 | 19,968 | 26,688 | 243 |
| 2084 | 0 | 0 | 0 | 41,280 | 215 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41,280 | 215 | 19,968 | 26,880 | 244 |
| 2085 | 0 | 0 | 0 | 41,280 | 215 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41,280 | 215 | 19,968 | 26,880 | 244 |
| 2086 | 0 | 0 | 0 | 17,346 | 91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,346 | 91 | 19,968 | 26,880 | 244 |
| 2087 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 26,880 | 244 |
| 2088 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 26,880 | 244 |
| 2089 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 26,880 | 244 |
| 2090 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 26,688 | 243 |
| 2091 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 26,688 | 243 |
| 2092 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 26,688 | 243 |
| 2093 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 26,688 | 243 |
| 2094 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12,623 | 33,643 | 242 |
| 2095 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals | 384,043 | 631,314 | 594,598 | 730,242 | 12,191 | 199,007 | 201,841 | 310,925 | 524,170 | 6,440 | 726,234 | 605,803 | 11,147 | 5,715,915 | 29,778 | 325,967 | 481,771 | 4,208 |
| Wet+Dry | 1,015,357 | | 1,324,840 | | | 400,848 | | 835,095 | | | 1,332,037 | | | | | 807,738 | | |

Table B-2 (continued): Used Nuclear Fuel Transport by Location and Year – 7.2 Million Bundle Scenario

| Year | Gentilly 2 | | | Pt. Lepreau | | | White-shell | Douglas Point | Gentilly 1 | Chalk River | Total AECL Shipments | New Build B | | | Total Non-OPG Bundles | Total From Wet Bays | | Total From Dry Storage | | Cumulative Total | Total Shipped | Total Shipments |
|------|------------|-------|-----------|-------------|-------|-----------|-------------|---------------|------------|-------------|----------------------|-------------|-----|-----------|-----------------------|---------------------|-----------|------------------------|-----------|------------------|---------------|-----------------|
| | Wet | Dry | Shipments | Wet | Dry | Shipments | Dry | Dry | Dry | Dry | Shipments | Wet | Dry | Shipments | Bundles | Cumulative | Bundles | Cumulative | | | | |
| 2034 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2035 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75,840 | 75,840 | 0 | 0 | 75,840 | 75,840 | 395 |
| 2036 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 195,840 | 0 | 0 | 195,840 | 120,000 | 625 |
| 2037 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 315,840 | 0 | 0 | 315,840 | 120,000 | 625 |
| 2038 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 435,840 | 0 | 0 | 435,840 | 120,000 | 625 |
| 2039 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 555,840 | 0 | 0 | 555,840 | 120,000 | 625 |
| 2040 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 675,840 | 0 | 0 | 675,840 | 120,000 | 625 |
| 2041 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 795,840 | 0 | 0 | 795,840 | 120,000 | 625 |
| 2042 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 915,840 | 0 | 0 | 915,840 | 120,000 | 625 |
| 2043 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 1,035,840 | 0 | 0 | 1,035,840 | 120,000 | 625 |
| 2044 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 1,155,840 | 0 | 0 | 1,155,840 | 120,000 | 625 |
| 2045 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 1,275,840 | 0 | 0 | 1,275,840 | 120,000 | 625 |
| 2046 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 1,395,840 | 0 | 0 | 1,395,840 | 120,000 | 625 |
| 2047 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120,000 | 1,515,840 | 0 | 0 | 1,515,840 | 120,000 | 625 |
| 2048 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 101,130 | 1,616,970 | 18,624 | 18,624 | 1,635,594 | 119,754 | 625 |
| 2049 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79,680 | 1,696,650 | 40,320 | 58,944 | 1,755,594 | 120,000 | 625 |
| 2050 | 4,416 | 0 | 23 | 4,416 | 0 | 23 | 0 | 1,620 | 0 | 0 | 9 | 0 | 0 | 0 | 10,452 | 80,832 | 1,777,482 | 39,060 | 98,004 | 1,875,486 | 119,892 | 625 |
| 2051 | 8,640 | 0 | 45 | 8,640 | 0 | 45 | 180 | 2,700 | 0 | 0 | 16 | 0 | 0 | 0 | 20,160 | 79,680 | 1,857,162 | 40,320 | 138,324 | 1,995,486 | 120,000 | 626 |
| 2052 | 8,640 | 0 | 45 | 8,640 | 0 | 45 | 180 | 2,700 | 0 | 0 | 16 | 0 | 0 | 0 | 20,160 | 79,680 | 1,936,842 | 40,320 | 178,644 | 2,115,486 | 120,000 | 626 |
| 2053 | 8,640 | 0 | 45 | 8,640 | 0 | 45 | 0 | 2,700 | 0 | 0 | 15 | 0 | 0 | 0 | 19,980 | 79,680 | 2,016,522 | 40,140 | 218,784 | 2,235,306 | 119,820 | 625 |
| 2054 | 8,264 | 720 | 48 | 8,640 | 0 | 45 | 0 | 2,520 | 0 | 0 | 14 | 0 | 0 | 0 | 20,144 | 79,304 | 2,095,826 | 40,680 | 259,464 | 2,355,290 | 119,984 | 627 |
| 2055 | 0 | 8,640 | 48 | 1,824 | 6,840 | 48 | 0 | 2,160 | 0 | 0 | 12 | 0 | 0 | 0 | 19,464 | 60,269 | 2,156,095 | 59,880 | 319,344 | 2,475,439 | 120,149 | 633 |
| 2056 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 1,800 | 0 | 0 | 10 | 0 | 0 | 0 | 19,080 | 47,040 | 2,203,135 | 72,840 | 392,184 | 2,595,319 | 119,880 | 631 |
| 2057 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 1,800 | 0 | 0 | 10 | 0 | 0 | 0 | 19,080 | 47,040 | 2,250,175 | 72,840 | 465,024 | 2,715,199 | 119,880 | 631 |
| 2058 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 1,800 | 0 | 0 | 10 | 0 | 0 | 0 | 19,080 | 44,032 | 2,294,207 | 75,720 | 540,744 | 2,834,951 | 119,752 | 631 |
| 2059 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 1,800 | 0 | 0 | 10 | 0 | 0 | 0 | 19,080 | 0 | 2,294,207 | 119,880 | 660,624 | 2,954,831 | 119,880 | 631 |
| 2060 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 656 | 720 | 540 | 11 | 0 | 0 | 0 | 19,196 | 0 | 2,294,207 | 119,996 | 780,620 | 3,074,827 | 119,996 | 632 |
| 2061 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 720 | 1,260 | 11 | 0 | 0 | 0 | 19,260 | 0 | 2,294,207 | 119,917 | 900,537 | 3,194,744 | 119,917 | 632 |
| 2062 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 720 | 1,260 | 11 | 0 | 0 | 0 | 19,260 | 0 | 2,294,207 | 120,060 | 1,020,597 | 3,314,804 | 120,060 | 632 |
| 2063 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 720 | 1,260 | 11 | 0 | 0 | 0 | 19,260 | 0 | 2,294,207 | 120,060 | 1,140,657 | 3,434,864 | 120,060 | 632 |
| 2064 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 333 | 566 | 6 | 0 | 0 | 0 | 18,179 | 0 | 2,294,207 | 119,939 | 1,260,596 | 3,554,803 | 119,939 | 632 |

Table B-2 (continued): Used Nuclear Fuel Transport by Location and Year – 7.2 Million Bundle Scenario

| Year | Gentilly 2 | | | Pt. Lepreau | | | White-shell | Douglas Point | Gentilly 1 | Chalk River | Total AECL Shipments | New Build B | | | Total Non-OPG Bundles | Total From Wet Bays | | Total From Dry Storage | | Cumulative Total | Total Shipped | Total Shipments | |
|---------|------------|---------|-----------|-------------|---------|-----------|-------------|---------------|------------|-------------|----------------------|-------------|---------|-----------|-----------------------|---------------------|-----------|------------------------|-----------|------------------|---------------|-----------------|-----|
| | Wet | Dry | Shipments | Wet | Dry | Shipments | Dry | Dry | Dry | Dry | Shipments | Wet | Dry | Shipments | Bundles | Cumulative | Bundles | Cumulative | | | | | |
| 2065 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,280 | 0 | 2,294,207 | 120,000 | 1,380,596 | 3,674,803 | 120,000 | 631 | |
| 2066 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,280 | 0 | 2,294,207 | 120,000 | 1,500,596 | 3,794,803 | 120,000 | 631 | |
| 2067 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,280 | 0 | 2,294,207 | 120,000 | 1,620,596 | 3,914,803 | 120,000 | 631 | |
| 2068 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,280 | 0 | 2,294,207 | 120,000 | 1,740,596 | 4,034,803 | 120,000 | 631 | |
| 2069 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,280 | 0 | 2,294,207 | 120,000 | 1,860,596 | 4,154,803 | 120,000 | 631 | |
| 2070 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,280 | 0 | 2,294,207 | 120,000 | 1,980,596 | 4,274,803 | 120,000 | 631 | |
| 2071 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,280 | 0 | 2,294,207 | 120,000 | 2,100,596 | 4,394,803 | 120,000 | 631 | |
| 2072 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,280 | 0 | 2,294,207 | 120,000 | 2,220,596 | 4,514,803 | 120,000 | 631 | |
| 2073 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,280 | 0 | 2,294,207 | 120,000 | 2,340,596 | 4,634,803 | 120,000 | 631 | |
| 2074 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,280 | 0 | 2,294,207 | 120,000 | 2,460,596 | 4,754,803 | 120,000 | 631 | |
| 2075 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 8,064 | 0 | 42 | 25,344 | 8,064 | 2,302,271 | 111,964 | 2,572,560 | 4,874,831 | 120,028 | 633 | |
| 2076 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 13,440 | 0 | 70 | 48,000 | 21,504 | 2,323,775 | 98,496 | 2,671,056 | 4,994,831 | 120,000 | 631 | |
| 2077 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 13,440 | 0 | 70 | 48,000 | 26,880 | 2,350,655 | 93,120 | 2,764,176 | 5,114,831 | 120,000 | 631 | |
| 2078 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 13,824 | 0 | 72 | 57,024 | 27,264 | 2,377,919 | 92,779 | 2,856,955 | 5,234,874 | 120,043 | 632 | |
| 2079 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 14,784 | 0 | 77 | 78,720 | 28,608 | 2,406,527 | 91,392 | 2,948,347 | 5,354,874 | 120,000 | 631 | |
| 2080 | 0 | 8,640 | 48 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 14,784 | 0 | 77 | 78,720 | 29,568 | 2,436,095 | 90,432 | 3,038,779 | 5,474,874 | 120,000 | 631 | |
| 2081 | 0 | 8,040 | 45 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 15,360 | 0 | 80 | 78,696 | 30,144 | 2,466,239 | 89,832 | 3,128,611 | 5,594,850 | 119,976 | 631 | |
| 2082 | 0 | 0 | 0 | 0 | 8,640 | 48 | 0 | 0 | 0 | 0 | 0 | 19,968 | 3,456 | 122 | 78,720 | 35,328 | 2,501,567 | 84,672 | 3,213,283 | 5,714,850 | 120,000 | 628 | |
| 2083 | 0 | 0 | 0 | 0 | 4,080 | 23 | 0 | 0 | 0 | 0 | 0 | 19,968 | 8,064 | 146 | 78,768 | 39,936 | 2,541,503 | 80,112 | 3,293,395 | 5,834,898 | 120,048 | 627 | |
| 2084 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 11,904 | 166 | 78,720 | 39,936 | 2,581,439 | 80,064 | 3,373,459 | 5,954,898 | 120,000 | 625 | |
| 2085 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 11,904 | 166 | 78,720 | 39,936 | 2,621,375 | 80,064 | 3,453,523 | 6,074,898 | 120,000 | 625 | |
| 2086 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 35,904 | 291 | 102,720 | 39,936 | 2,661,311 | 80,130 | 3,533,653 | 6,194,964 | 120,066 | 626 | |
| 2087 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 53,184 | 381 | 120,000 | 39,936 | 2,701,247 | 80,064 | 3,613,717 | 6,314,964 | 120,000 | 625 | |
| 2088 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 53,184 | 381 | 120,000 | 39,936 | 2,741,183 | 80,064 | 3,693,781 | 6,434,964 | 120,000 | 625 | |
| 2089 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 53,184 | 381 | 120,000 | 39,936 | 2,781,119 | 80,064 | 3,773,845 | 6,554,964 | 120,000 | 625 | |
| 2090 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 53,376 | 382 | 120,000 | 39,936 | 2,821,055 | 80,064 | 3,853,909 | 6,674,964 | 120,000 | 625 | |
| 2091 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 53,376 | 382 | 120,000 | 39,936 | 2,860,991 | 80,064 | 3,933,973 | 6,794,964 | 120,000 | 625 | |
| 2092 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 53,376 | 382 | 120,000 | 39,936 | 2,900,927 | 80,064 | 4,014,037 | 6,914,964 | 120,000 | 625 | |
| 2093 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19,968 | 53,376 | 382 | 120,000 | 39,936 | 2,940,863 | 80,064 | 4,094,101 | 7,034,964 | 120,000 | 625 | |
| 2094 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,821 | 71,892 | 385 | 119,979 | 14,444 | 2,955,307 | 105,535 | 4,199,636 | 7,154,943 | 119,979 | 627 | |
| 2095 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8,064 | 0 | 42 | 25,344 | 8,064 | 2,302,271 | 111,964 | 2,572,560 | 4,874,831 | 120,028 | 633 | |
| Totals | 38,600 | 233,400 | 1,499 | 40,800 | 244,200 | 1,570 | 360 | 22,256 | 0 | 4,886 | 173 | 335,133 | 516,180 | 4,435 | 1,439,028 | 2,955,307 | | 4,199,636 | | 7,154,943 | | 37,455 | |
| Wet+Dry | | 272,000 | | | 285,000 | | | | | | | | 851,313 | | | | | | | Average | 119,249 | | 624 |